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TUBERCULOSIS IN CANADA



1997

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TUBERCULOSIS

IN CANADA

1997

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INTRODUCTION

This is the third annual report on tuberculosis morbidity and mortality published by Tuberculosis Prevention and Control following the transfer of responsibility for the Canadian Tuberculosis Reporting System (CTBRS) from Statistics Canada to Health Canada.

The annual reports on tuberculosis morbidity and mortality have undergone and will continue to have revisions in format and content from year to year in response to changes in the epidemiology and treatment of tuberculosis. Changes to the report this year include modifications to the order of main diagnostic site (hierarchy), distribution of foreign-born cases by WHO region, inclusion of immigration status for foreign-born cases and inclusion of HIV status.

Prior to 1966, the reports focused on the characteristics of patients hospitalized in tuberculosis institutions. However, with the discovery and development of new antituberculosis drugs, more and more persons with active tuberculosis were treated as outpatients. Statistics on these patients were then included in annual reports.

To reflect the continuing decrease in institutional treatment, the reports began in 1975 to combine previously separate data on inpatients and outpatients. From 1976 onward, data on facilities and services in tuberculosis institutions were no longer included; since then, reports have presented data on all reported cases of tuberculosis in the population, irrespective of where treatment occurs.

Starting with the 1977 data year, reports were developed cooperatively by Statistics Canada, the Canadian Lung Association and provincial and territorial offices of tuberculosis control, and contained information essential for the surveillance and control of tuberculosis in Canada.

As a result of a review of the national tuberculosis surveillance system conducted jointly in 1996 by the directors of the provincial and territorial tuberculosis control programs and Health Canada, the reporting form was revised for the 1997 data year to include additional information relevant to tuberculosis prevention and control. The principal changes include the addition of data items on the immigration status for foreign-born cases and HIV status (see reporting form in Appendix 2). The annual report format was revised in 1997 to include tables with this new information.

EXECUTIVE SUMMARY

In 1997, a total of 1,975 cases of new active and relapsed tuberculosis (TB) cases was reported to the Division of Tuberculosis Prevention and Control from the ten provinces and two territories. This number represents an increase of 5.7% from 1996 and is the highest total since 2,074 cases were reported in 1994. New active cases made up the vast majority (90%) of the case notifications in 1997, with relapsed cases accounting for the other 10%.

Seven of the reporting jurisdictions had case rates below the national rate of 6.6 per 100,000 (Alberta, New Brunswick, Newfoundland, Nova Scotia, Prince Edward Island, Quebec and the Yukon Territory) and four of them (New Brunswick, Nova Scotia, Prince Edward Island and the Yukon Territory) reported fewer than 10 cases each. The three most populous provinces of Ontario, Quebec and British Columbia, which collectively make up 75% of Canada's population, accounted for 77% of the total number of reported cases in 1997. Compared with the previous year, seven reporting jurisdictions (Manitoba, New Brunswick, Newfoundland, Nova Scotia, the Northwest Territories, Ontario and the Yukon Territory) reported a decrease in case numbers and rates. The overall increase in case notifications was due mainly to the increases experienced in Quebec, Alberta and British Columbia.

By age group, individuals aged 25 to 34 years made up the largest number of reported cases, accounting for 19% of the total. However, the corresponding case rate of 8.2 per 100,000 for this age group was surpassed by the age-specific rates of 8.8, 11.7 and 18.0 per 100,000 for those in the older age groups of 55 to 64, 65 to 74 and greater than 74 years, respectively.

Over time, the trends with respect to reported TB cases by birthplace have changed. From 1987 to 1997, the number of cases among Canadian-born non-Aboriginal individuals decreased by 44% (720 to 400 cases) while that among Aboriginals decreased by 26% (384 to 283 cases). During the same time period, the number of cases among foreign-born persons increased by 46% (868 to 1271 cases). In 1987, the proportions of all TB cases that were Canadian-born non-Aboriginal, Aboriginal and foreign-born were 37%, 19% and 44%, respectively. By 1997, these proportions had decreased among Canadian-born non-Aboriginals and Aboriginals to 20% and 14% respectively, whereas among the foreign-born the proportion had increased to 64%. Of note is that 38% of all the foreign-born TB cases reported in 1997 arrived in Canada in 1993 or later.

With regard to the distribution of TB cases by birthplace across the country in 1997, the provinces of Ontario, British Columbia and Alberta each reported that over 60% of their TB cases were foreign-born, particularly Ontario in which the proportion was 85%. In the Northwest Territories, Saskatchewan and Manitoba, TB cases of Aboriginal origin contributed the largest proportion to their respective total caseloads.

When age is considered, Canadian-born non-Aboriginal TB cases were relatively older than foreign-born and Aboriginal TB cases. The median age of Canadian-born non-Aboriginal TB cases was 58 years, while those of the foreign-born and Aboriginal TB cases were 43 and 32 years, respectively.

Overall, respiratory TB was the main diagnostic site for 62% of the reported cases in 1997. A larger proportion of Canadian-born non-Aboriginal TB cases had respiratory TB (70%) compared with that among both the Aboriginal and foreign-born cases (60%). Overall, TB of the peripheral lymph nodes was the second most commonly reported diagnostic site, with almost half of all such cases occurring in the foreign-born originating in the Western Pacific

region of the world. This diagnostic site accounted for 19% of all foreign-born TB cases. Among the Aboriginal TB cases, primary TB accounted for the most significant proportion (27%) of all notifications after respiratory TB.

A total of 1,782 of the 1,975 reported TB cases (90%) were laboratory confirmed. Of the 1,230 respiratory cases, 54% were smear (microscopy) positive and 84% were culture positive.

The majority of reported TB cases (79%) were detected through medical investigation of symptoms.

In recognition of the importance of the interaction of HIV infection with TB, collection of HIV status was added to the national TB surveillance system, beginning with cases for 1997. The analysis of this variable indicated that HIV status was unknown for 94% of the reported TB cases. Further collaborative efforts with each of the provincial and territorial TB control programs will be necessary to gain a better understanding of the extent of TB/HIV coinfection in Canada.

Of the 1,975 cases reported in 1997, 120 were reported to have died. Of these deaths, for 27 (23%) TB was reported as the underlying cause of death and for 42 (35%) TB was reported as contributing to death, but not as the underlying cause. It should be noted that the number of reported TB related deaths is an underestimate, as it includes only known deaths at the time of reporting.

Figure 1

Reported new active and relapsed tuberculosis incidence rate per 100,000 - Canada: 1924-1997

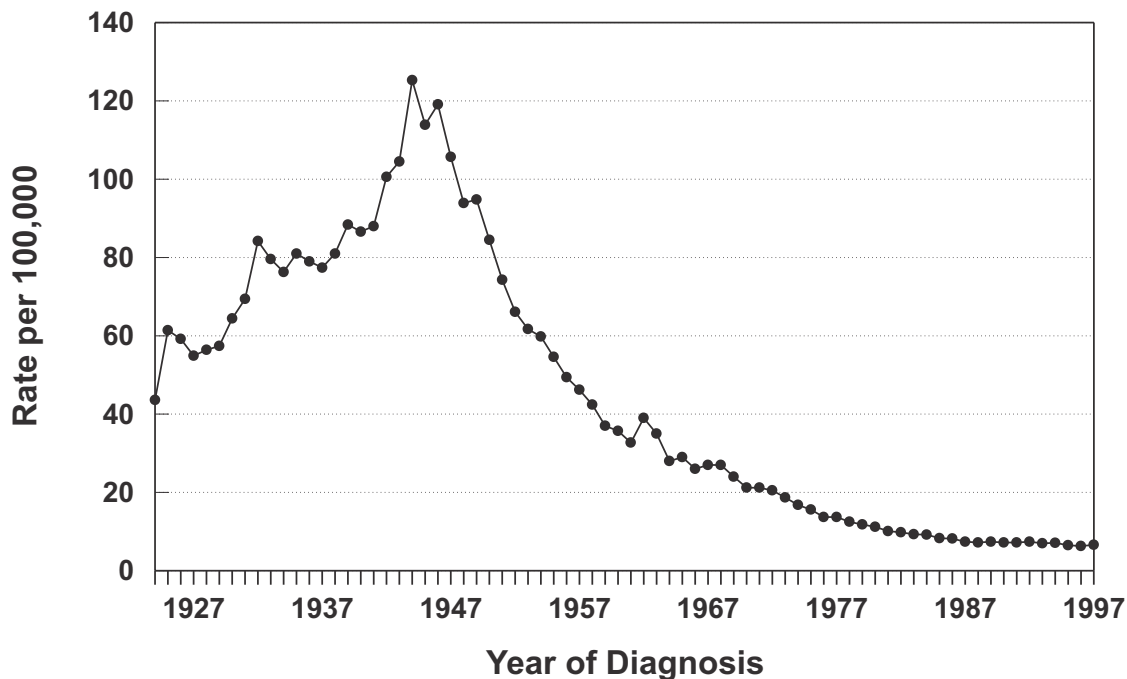


Figure 2

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 - Canada: 1980-1997

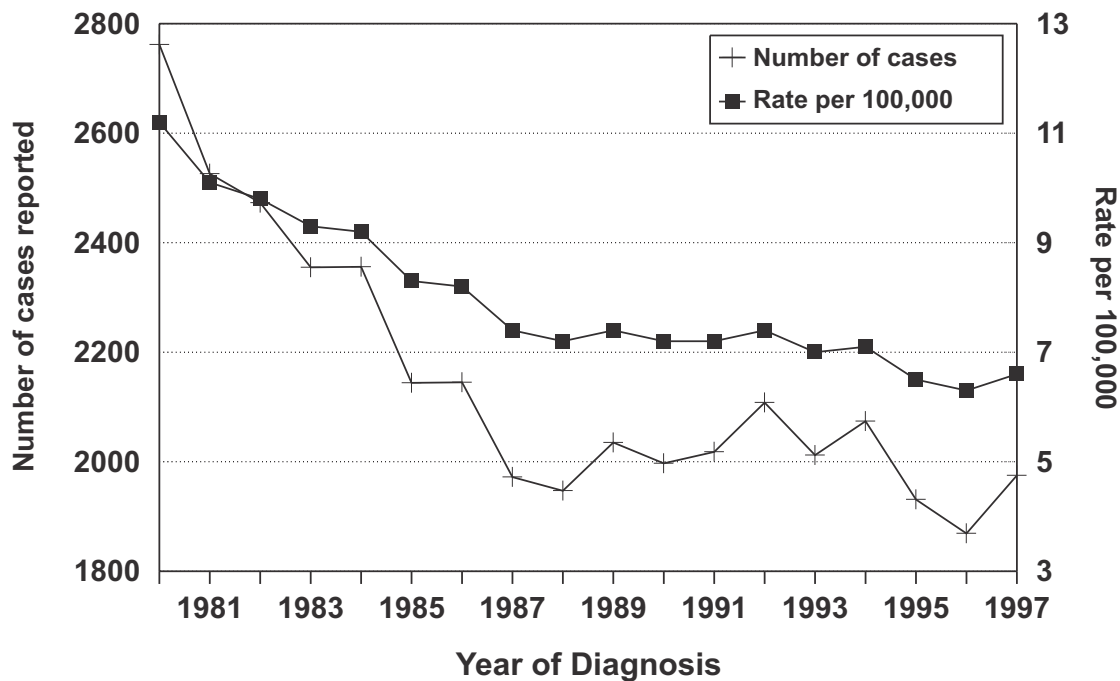


Figure 3

Reported new active and relapsed tuberculosis incidence rate per 100,000 by age group - Canada: 1982-1997

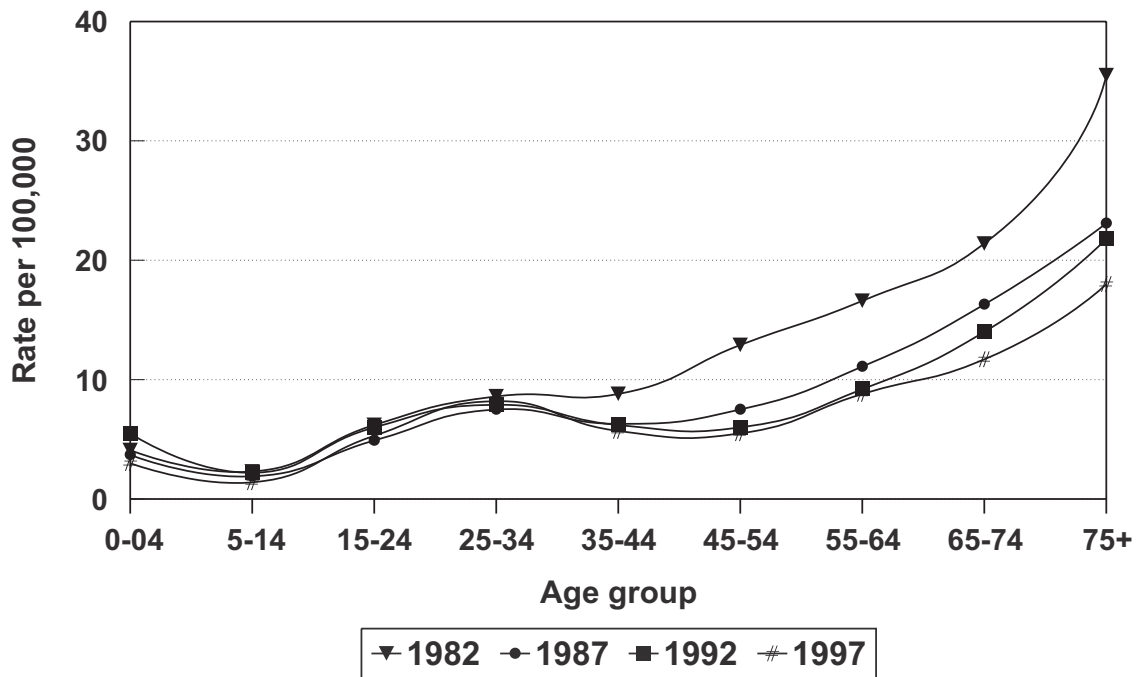


Figure 4

Distribution of reported new active and relapsed tuberculosis cases by origin - Canada: 1980 and 1997

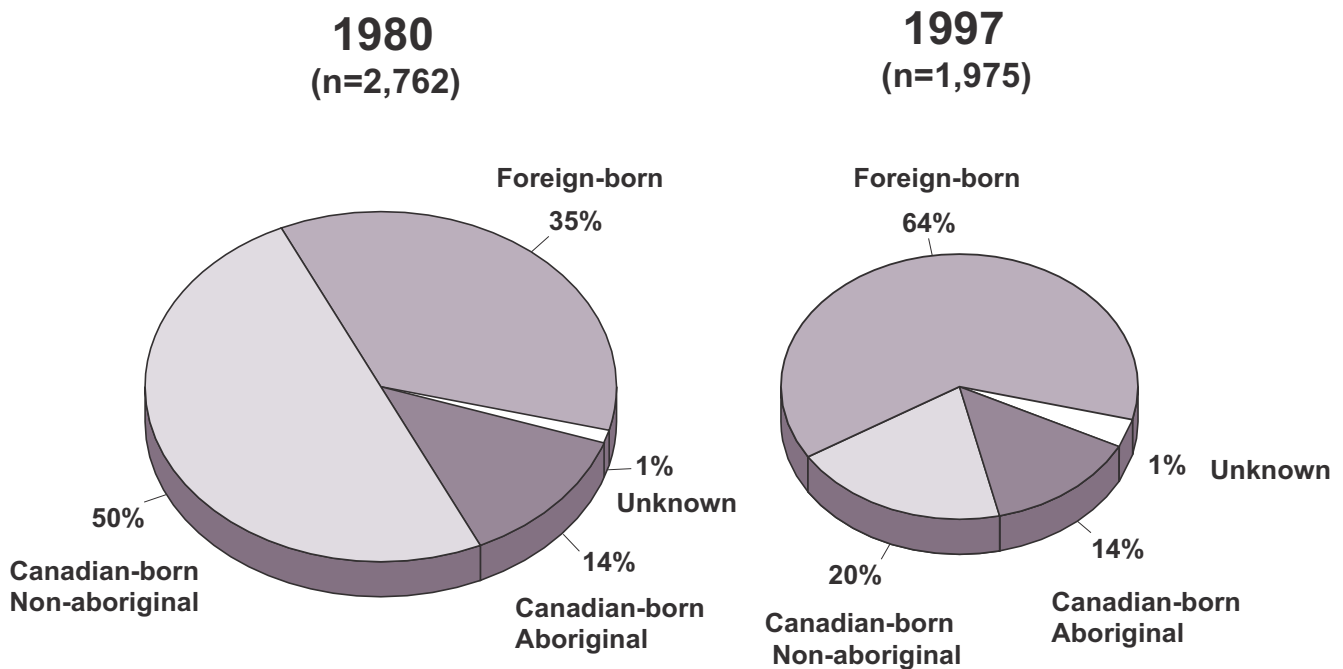


Figure 5

Reported new active and relapsed tuberculosis incidence rate per 100,000 by main diagnostic site - Canada: 1987-1997

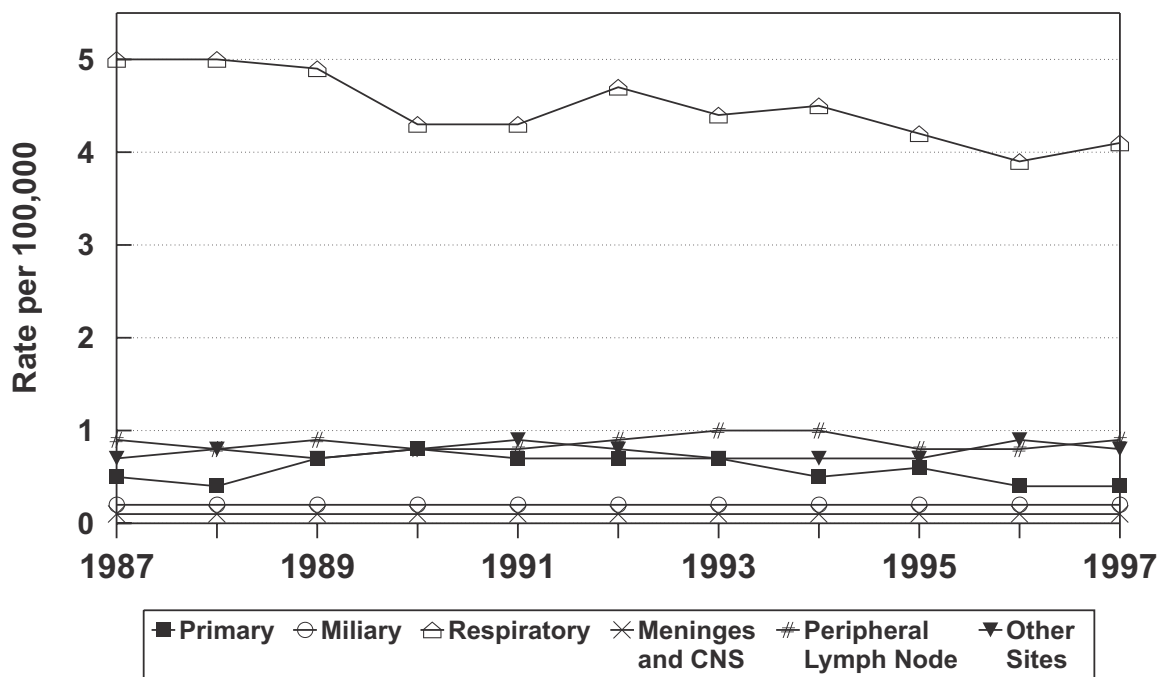


Figure 6

Distribution of reported new active and relapsed tuberculosis cases by origin – provinces/territories: 1997 (n=1,975)

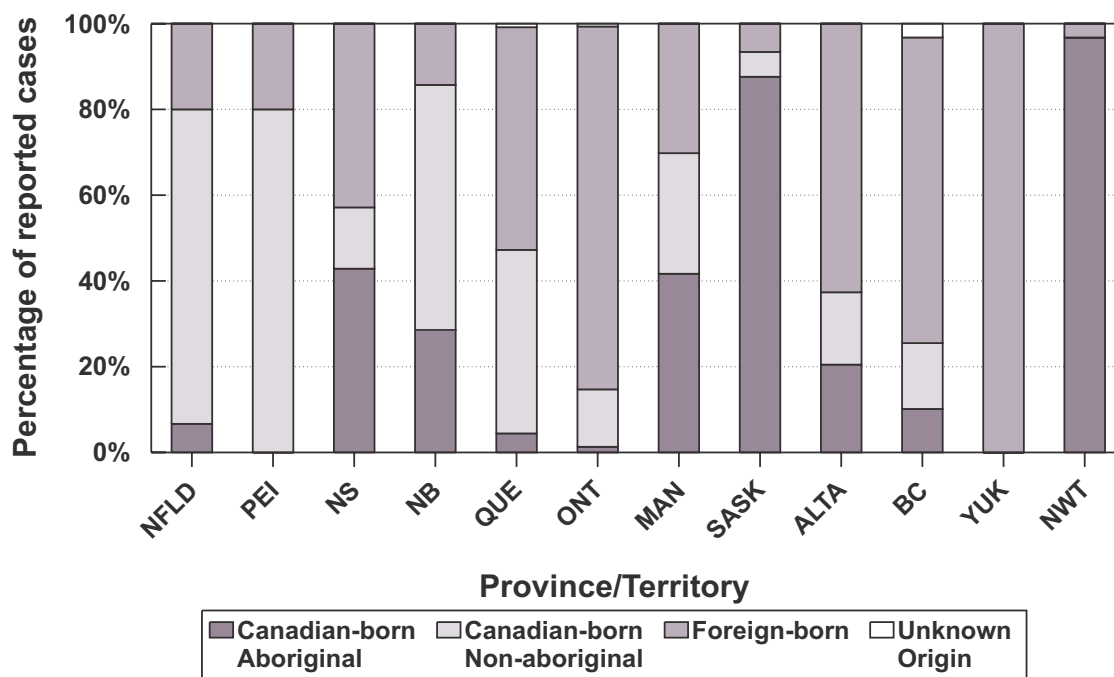


Figure 7

Reported new active and relapsed tuberculosis cases by age group and origin - Canada: 1997 (n=1,975)

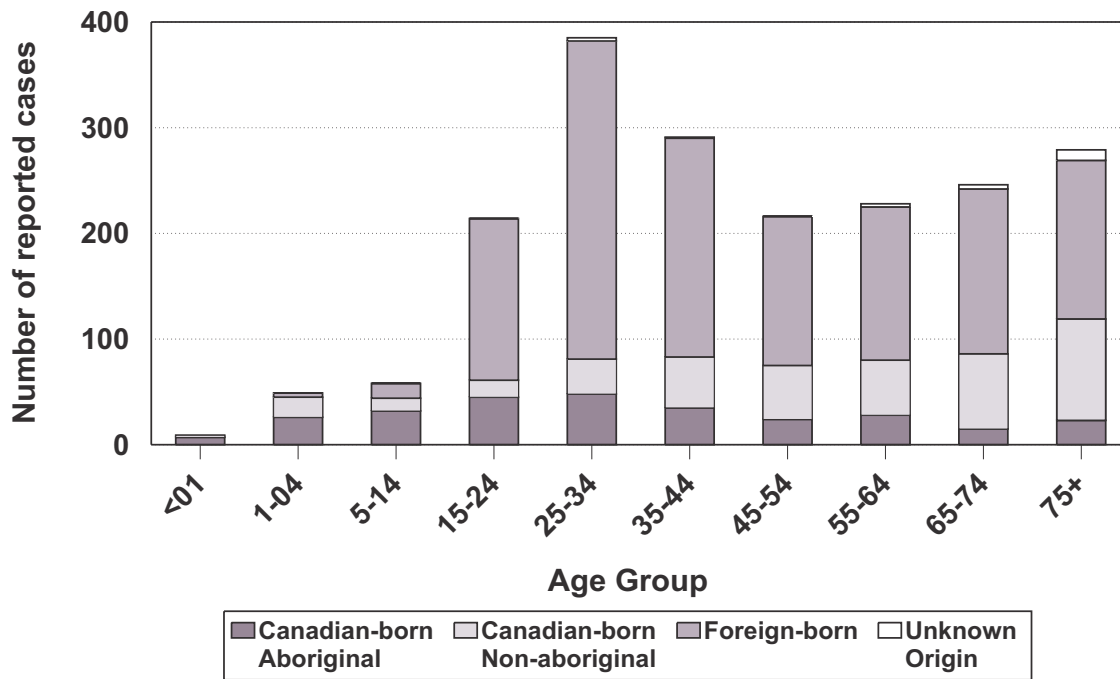


Figure 8

Distribution of reported new active and relapsed tuberculosis cases by origin and main diagnostic site - Canada: 1997 (n=1,975)

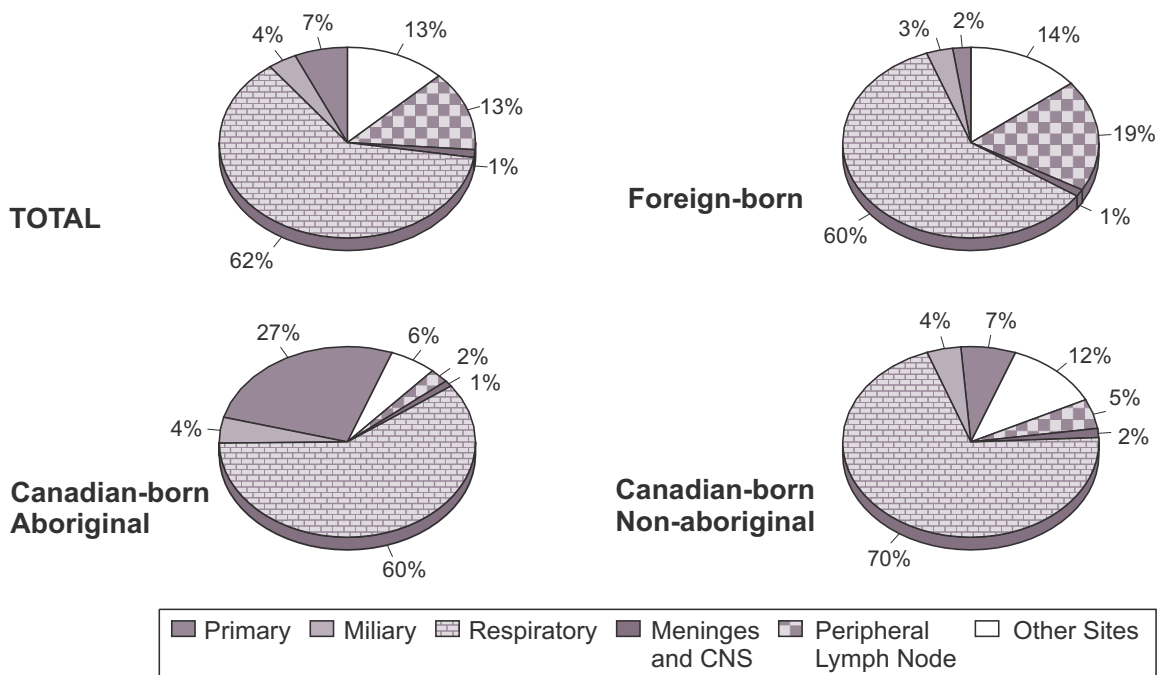


Table 1A

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 - Canada and provinces/territories: 1987-1997

Year of Diagnosis	CANADA		Province/Territory												
	Cases	Rate	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
1987	Cases	1972	34	1	30	24	432	645	125	157	205	298	1	20	
	Rate	7.4	5.9	0.8	3.3	3.3	6.3	6.7	11.4	15.1	8.4	9.7	3.8	35.9	
1988	Cases	1947	65	4	26	18	423	635	111	149	176	300	4	36	
	Rate	7.3	11.4	3.1	2.9	2.5	6.2	6.5	10.1	14.6	7.2	9.7	15	64.9	
1989	Cases	2035	42	5	30	29	420	711	100	216	133	288	5	56	
	Rate	7.4	7.3	3.8	3.3	3.9	6	7	9	21.1	5.3	9	18.3	97.3	
1990	Cases	1997	28	1	23	34	412	730	92	223	156	265	10	23	
	Rate	7.2	4.8	0.8	2.5	4.6	5.9	7.1	8.3	22.1	6.1	8	35.7	38.8	
1991	Cases	2018	34	3	17	27	400	769	101	184	173	280	8	22	
	Rate	7.2	5.9	2.3	1.9	3.6	5.6	7.3	9.1	18.3	6.7	8.3	27.4	35.9	
1992	Cases	2108	34	2	13	19	424	822	86	133	222	323	3	27	
	Rate	7.4	5.8	1.5	1.4	2.5	5.9	7.7	7.7	13.2	8.4	9.3	9.9	43.2	
1993	Cases	2012	62	5	17	15	352	769	108	153	156	337	3	35	
	Rate	7	10.6	3.8	1.8	2	4.9	7.1	9.6	15.1	5.8	9.4	9.8	55	
1994	Cases	2074	14	-	12	16	361	831	116	147	178	324	10	65	
	Rate	7.1	2.4	-	1.3	2.1	5	7.6	10.3	14.5	6.6	8.8	33.7	100.4	
1995	Cases	1931	11	1	13	9	380	766	109	155	125	308	2	52	
	Rate	6.5	1.9	0.7	1.4	1.2	5.2	6.9	9.6	15.3	4.5	8.2	6.6	79	
1996	Cases	1869	24	3	15	15	332	771	97	113	140	317	6	36	
	Rate	6.3	4.3	2.2	1.6	2	4.6	6.9	8.6	11.1	5	8.2	18.8	53.3	
1997	Cases	1975	15	5	7	7	360	761	96	121	166	404	2	31	
	Rate	6.6	2.7	3.7	0.7	0.9	4.9	6.8	8.4	11.8	5.8	10.2	6.2	45.7	

Table 1B**Reported new active tuberculosis cases and incidence rate per 100,000 – Canada and provinces/territories: 1987-1997**

Year of Diagnosis	CANADA	Province/Territory											
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
1987	Cases	33	1	26	20	420	570	113	140	195	266	1	12
	Rate	6.8	0.8	2.9	2.7	6.2	5.9	10.3	13.5	8	8.7	3.8	21.6
1988	Cases	56	4	24	15	407	560	102	134	160	271	4	34
	Rate	6.6	3.1	2.7	2.1	6	5.7	9.3	13.1	6.6	8.7	15	61.3
1989	Cases	37	5	21	22	407	627	87	203	121	252	3	44
	Rate	6.7	3.8	2.3	3	5.9	6.2	7.9	19.8	4.8	7.9	11	76.5
1990	Cases	26	-	15	27	402	614	88	211	144	234	8	19
	Rate	6.4	-	1.6	3.6	5.7	5.9	7.9	20.9	5.6	7.1	28.5	32
1991	Cases	32	3	12	22	382	661	89	170	152	253	8	22
	Rate	6.4	2.3	1.3	2.9	5.4	6.3	8	16.9	5.8	7.5	27.4	35.9
1992	Cases	31	2	9	16	399	692	81	121	201	291	2	20
	Rate	6.5	1.5	1	2.1	5.6	6.5	7.2	12	7.6	8.4	6.6	32
1993	Cases	59	5	14	12	311	653	95	145	143	304	3	28
	Rate	6.1	3.8	1.5	1.6	4.3	6	8.5	14.3	5.3	8.5	9.8	44
1994	Cases	12	-	12	15	306	723	107	141	160	294	9	59
	Rate	6.3	-	1.3	2	4.2	6.6	9.5	13.9	5.9	8	30.3	91.1
1995	Cases	9	1	10	8	348	657	97	143	115	290	2	46
	Rate	5.8	0.7	1.1	1.1	4.7	5.9	8.5	14.1	4.2	7.7	6.6	69.8
1996	Cases	21	3	11	9	294	689	84	109	129	288	4	31
	Rate	5.6	2.2	1.2	1.2	4	6.2	7.4	10.7	4.6	7.4	12.5	45.9
1997	Cases	13	4	5	6	323	687	86	110	150	359	2	24
	Rate	5.9	2.9	0.5	0.8	4.4	6.1	7.6	10.8	5.3	9.1	6.2	35.4

NB: Cases for which Activity Status is unknown are included in the total (Table 1A).

Table 1C

Reported relapsed tuberculosis cases and incidence rate per 100,000 – Canada and provinces/territories: 1987–1997

Year of Diagnosis	CANADA	Province/Territory											
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
1987	Cases	1	-	4	4	12	75	12	17	10	32	-	8
	Rate	0.2	-	0.4	0.5	0.2	0.8	1.1	1.6	0.4	1	-	14.4
1988	Cases	9	-	2	3	16	75	9	15	16	29	-	2
	Rate	1.6	-	0.2	0.4	0.2	0.8	0.8	1.5	0.7	0.9	-	3.6
1989	Cases	5	-	9	7	13	84	13	13	12	36	2	12
	Rate	0.9	-	1	0.9	0.2	0.8	1.2	1.3	0.5	1.1	7.3	20.9
1990	Cases	2	1	8	7	10	87	4	12	12	31	2	4
	Rate	0.3	0.8	0.9	0.9	0.1	0.8	0.4	1.2	0.5	0.9	7.1	6.7
1991	Cases	2	-	5	5	18	102	12	14	21	27	-	-
	Rate	0.3	-	0.5	0.7	0.3	1	1.1	1.4	0.8	0.8	-	-
1992	Cases	3	-	4	3	25	128	5	12	21	32	1	7
	Rate	0.5	-	0.4	0.4	0.3	1.2	0.4	1.2	0.8	0.9	3.3	11.2
1993	Cases	3	-	3	3	41	114	13	8	13	33	-	7
	Rate	0.5	-	0.3	0.4	0.6	1.1	1.2	0.8	0.5	0.9	-	11
1994	Cases	2	-	-	1	55	100	9	6	18	30	1	6
	Rate	0.3	-	-	0.1	0.8	0.9	0.8	0.6	0.7	0.8	3.4	9.3
1995	Cases	2	-	3	1	28	103	12	12	10	18	-	6
	Rate	0.3	-	0.3	0.1	0.4	0.9	1.1	1.2	0.4	0.5	-	9.1
1996	Cases	3	-	3	5	36	72	9	4	11	29	1	5
	Rate	0.5	-	0.3	0.7	0.5	0.6	0.8	0.4	0.4	0.7	3.1	7.4
1997	Cases	2	1	2	1	34	70	10	11	16	43	-	7
	Rate	0.4	0.7	0.2	0.1	0.5	0.6	0.9	1.1	0.6	1.1	-	10.3

NB: Cases for which Activity Status is unknown are included in the total (Table 1A).

Table 2A

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – Canada: 1987-1997

Year of Diagnosis	TOTAL	Age Group											Age Unk.
		< 1	1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 +		
1987	Cases	12	57	71	215	368	246	198	265	283	257	-	
	Rate	3.2	3.8	1.9	4.9	7.5	6.3	7.5	11.1	16.3	23.1	-	
1988	Cases	12	33	52	227	384	241	198	260	274	266	-	
	Rate	6.7	2.2	1.4	5.4	7.7	6	7.3	10.8	15.4	23.1	-	
1989	Cases	31	74	78	259	341	252	204	256	274	266	-	
	Rate	7.4	4.9	2.1	6.2	6.7	6	7.3	10.6	15	22.1	-	
1990	Cases	44	91	66	208	400	240	181	244	280	241	2	
	Rate	7.2	5.9	1.7	5.1	7.8	5.5	6.2	10.1	15	19.3	-	
1991	Cases	48	71	60	227	399	282	188	223	279	240	1	
	Rate	7.2	4.6	1.6	5.6	7.8	6.3	6.2	9.2	14.5	18.6	-	
1992	Cases	25	83	85	242	405	286	191	224	276	290	1	
	Rate	7.4	5.3	2.2	6	7.9	6.2	6	9.2	14	21.8	-	
1993	Cases	26	69	108	234	386	270	210	214	257	237	1	
	Rate	7	4.3	2.7	5.8	7.6	5.7	6.2	8.7	12.7	17.3	-	
1994	Cases	20	72	98	274	411	261	224	212	271	231	-	
	Rate	7.1	4.5	2.5	6.8	8.2	5.4	6.4	8.5	13.2	16.4	-	
1995	Cases	27	64	85	229	325	314	201	209	251	225	1	
	Rate	6.5	4	2.1	5.7	6.6	6.4	5.5	8.3	12	15.3	-	
1996	Cases	11	68	63	214	356	304	191	193	250	219	-	
	Rate	6.3	4.3	1.6	5.3	7.5	6.1	5	7.6	12	14.7	-	
1997	Cases	9	49	58	214	385	291	216	228	246	279	-	
	Rate	6.6	3.1	1.4	5.3	8.2	5.7	5.5	8.8	11.7	18	-	

Table 2B

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – males – Canada: 1987-1997

Year of Diagnosis	TOTAL	Age Group											Age Unk.
		< 1	1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 +		
1987	Cases	7	30	32	103	221	141	123	155	170	149	-	
	Rate	3.7	3.9	1.7	4.6	8.9	7.2	9.3	13.4	22	35.8	-	
1988	Cases	3	16	21	128	207	145	119	172	159	153	-	
	Rate	8.5	2.1	1.1	5.9	8.2	7.1	8.7	14.7	20.1	35.4	-	
1989	Cases	15	43	39	121	178	146	132	175	160	143	-	
	Rate	8.5	5.5	2	5.7	6.9	6.9	9.3	14.8	19.6	31.7	-	
1990	Cases	16	41	33	112	217	130	117	140	161	128	1	
	Rate	8	5.2	1.7	5.4	8.3	5.9	8	11.8	19.2	27.3	-	
1991	Cases	30	38	31	135	235	162	107	119	179	137	1	
	Rate	8.4	4.8	1.6	6.6	9.1	7.2	7.1	9.9	20.8	28.2	-	
1992	Cases	16	39	35	129	222	178	116	133	157	153	-	
	Rate	8.3	4.8	1.8	6.3	8.6	7.7	7.2	11	17.7	30.6	-	
1993	Cases	13	35	62	124	207	154	130	132	144	133	1	
	Rate	7.9	4.2	3.1	6	8.1	6.5	7.7	10.9	15.8	25.9	-	
1994	Cases	9	36	52	140	203	151	133	117	150	130	-	
	Rate	7.7	4.3	2.6	6.8	8	6.3	7.5	9.5	16	24.6	-	
1995	Cases	9	30	40	112	166	191	118	122	145	111	-	
	Rate	7.1	3.7	2	5.5	6.7	7.7	6.4	9.8	15.2	20.2	-	
1996	Cases	7	32	35	106	180	158	106	104	144	134	-	
	Rate	6.8	3.9	1.7	5.1	7.5	6.3	5.6	8.3	15	24.1	-	
1997	Cases	6	27	25	93	193	158	118	130	139	163	-	
	Rate	7.1	3.4	1.2	4.5	8.2	6.2	6	10.2	14.3	28.2	-	

Table 2C

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – females – Canada: 1987-1997

Year of Diagnosis	TOTAL	Age Group											Age Unk.
		< 1	1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 +		
1987	Cases	5	27	39	112	147	105	75	110	113	108	-	
	Rate	2.8	3.7	2.2	5.3	6.1	5.5	5.7	8.9	11.8	15.6	-	
1988	Cases	9	17	31	99	177	96	79	88	115	113	-	
	Rate	6.1	2.3	1.7	4.8	7.2	4.8	5.9	7.1	11.7	15.7	-	
1989	Cases	16	31	39	138	163	106	72	81	114	123	-	
	Rate	6.4	4.2	2.1	6.8	6.5	5.1	5.2	6.6	11.3	16.4	-	
1990	Cases	28	50	33	96	183	110	64	104	119	113	1	
	Rate	6.4	6.7	1.8	4.8	7.2	5.1	4.4	8.4	11.5	14.5	-	
1991	Cases	18	33	29	92	164	120	81	104	100	103	-	
	Rate	6	4.4	1.5	4.6	6.5	5.4	5.4	8.4	9.5	12.8	-	
1992	Cases	9	44	50	113	183	108	75	91	119	137	1	
	Rate	6.5	5.7	2.6	5.7	7.3	4.7	4.7	7.4	11	16.4	-	
1993	Cases	13	34	46	110	179	116	80	82	113	104	-	
	Rate	6	4.3	2.4	5.6	7.2	5	4.8	6.6	10.2	12.1	-	
1994	Cases	11	36	46	134	208	110	91	95	121	101	-	
	Rate	6.5	4.6	2.4	6.8	8.5	4.6	5.2	7.6	10.8	11.4	-	
1995	Cases	18	34	45	117	159	123	83	87	106	114	1	
	Rate	5.9	4.4	2.3	5.9	6.5	5	4.5	6.9	9.3	12.4	-	
1996	Cases	4	36	28	108	176	146	85	89	106	85	-	
	Rate	5.8	4.7	1.4	5.5	7.5	5.8	4.5	6.9	9.4	9.1	-	
1997	Cases	3	22	33	121	192	133	98	98	107	116	-	
	Rate	6.1	2.9	1.7	6.1	8.3	5.2	5	7.5	9.4	11.9	-	

Table 3

Reported new active and relapsed tuberculosis cases by birthplace – Canada: 1987-1997

Birthplace	Year of Diagnosis											
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
Aboriginal												
Status Indian	283	236	303	295	259	322	260	268	265	219	212	
Non-Status Indian/Metis	89	75	73	72	58	39	55	95	56	51	52	
Inuit	12	21	34	8	22	26	58	35	24	26	19	
Total	384	332	410	375	339	387	373	398	345	296	283	
Non-aboriginal	720	724	666	682	670	587	576	490	435	371	400	
Total	1104	1056	1076	1057	1009	974	949	888	780	667	683	
Africa	30	42	57	52	70	73	53	68	60	57	92	
Americas	107	83	100	79	92	119	98	99	116	99	103	
East Mediterranean	32	52	63	90	103	108	112	152	113	146	114	
Europe	219	203	204	181	159	170	148	145	139	114	134	
South East Asia	108	91	108	103	114	133	159	167	164	177	197	
Western Pacific	255	289	293	435	470	509	491	551	519	553	569	
Unknown Birthplace	117	131	134	-	1	22	2	4	29	25	62	
Total	868	891	959	940	1009	1134	1063	1186	1140	1171	1271	
Unknown Birthplace	-	-	-	-	-	-	-	-	11	31	21	
TOTAL	1972	1947	2035	1997	2018	2108	2012	2074	1931	1869	1975	

Table 4**Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by main diagnostic site – Canada: 1987-1997**

Main Diagnostic Site	Year of Diagnosis												
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997		
Cases	144	109	190	230	206	193	189	152	163	120	130		
Rate	0.5	0.4	0.7	0.8	0.7	0.7	0.7	0.5	0.6	0.4	0.4		
Cases	53	47	47	67	43	60	58	65	48	57	73		
Rate	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Cases	1334	1344	1336	1183	1217	1351	1260	1325	1244	1156	1230		
Rate	5	5	4.9	4.3	4.3	4.7	4.4	4.5	4.2	3.9	4.1		
Cases	15	19	14	17	15	17	19	18	22	19	25		
Rate	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
Cases	228	218	249	223	223	259	281	301	249	242	266		
Rate	0.9	0.8	0.9	0.8	0.8	0.9	1	1	0.8	0.8	0.9		
Cases	198	210	199	220	242	220	202	206	199	263	247		
Rate	0.7	0.8	0.7	0.8	0.9	0.8	0.7	0.7	0.7	0.9	0.8		
Cases	-	-	-	57	72	8	3	7	6	12	4		
Rate	-	-	-	0.2	0.3	-	-	-	-	-	-		
Cases	1972	1947	2035	1997	2018	2108	2012	2074	1931	1869	1975		
Rate	7.4	7.3	7.4	7.2	7.2	7.4	7	7.1	6.5	6.3	6.6		

* Please refer to Technical Notes for definition.

Table 5A

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – Canada and provinces/territories: 1997

Age Group	CANADA	Province/Territory												
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
< 1	Cases	-	-	-	-	1	1	-	7	-	-	-	-	
	Rate	-	-	-	-	1.2	0.7	-	53.3	-	-	-	-	
1 – 4	Cases	-	-	-	-	6	13	1	19	1	7	-	2	
	Rate	-	-	-	-	1.7	2.1	1.5	33	0.6	3.6	-	32.4	
5 – 14	Cases	-	-	-	-	5	11	2	29	3	8	-	-	
	Rate	-	-	-	-	0.5	0.7	1.2	18.2	0.7	1.5	-	-	
15 – 24	Cases	1	-	1	-	34	87	14	19	15	31	-	12	
	Rate	1.1	-	0.8	-	3.5	5.9	8.9	12.6	3.7	5.9	-	109.5	
25 – 34	Cases	1	-	2	-	64	167	12	17	28	90	-	4	
	Rate	1.2	-	1.4	-	5.8	9.3	7.2	12.3	6.1	14.3	-	30.9	
35 – 44	Cases	2	-	2	-	60	122	19	8	25	50	-	3	
	Rate	2.2	-	1.3	-	4.7	6.4	10.5	5.1	4.9	7.3	-	28.5	
45 – 54	Cases	1	-	-	1	32	89	10	6	18	54	-	5	
	Rate	1.3	-	-	1	3.1	6.1	7.2	5.3	5.2	10.1	-	75.6	
55 – 64	Cases	2	1	-	2	39	84	12	5	21	59	1	2	
	Rate	4.3	8.5	-	3.1	5.8	8.6	13	6.1	9.9	17.4	47.5	65	
65 – 74	Cases	4	2	1	1	46	104	12	3	27	45	1	-	
	Rate	11.6	21.5	1.5	1.9	8.6	12.8	14.7	3.9	16.7	16	97.6	-	
75 +	Cases	4	2	1	3	73	83	14	8	28	60	-	3	
	Rate	15.2	23.9	1.8	6.9	20.3	14.4	19.3	11.1	23.9	27.5	-	420.8	
TOTAL	Cases	15	5	7	7	360	761	96	121	166	404	2	31	
	Rate	2.7	3.7	0.7	0.9	4.9	6.8	8.4	11.8	5.8	10.2	6.2	45.7	

Table 5B

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – males – Canada and provinces/territories: 1997

Age Group	CANADA	Province/Territory												
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
< 1	Cases	-	-	-	-	1	1	-	4	-	-	-	-	
	Rate	-	-	-	-	2.3	1.4	-	59.2	-	-	-	-	
1 – 4	Cases	-	-	-	-	3	6	-	10	1	6	-	1	
	Rate	-	-	-	-	1.6	1.9	-	34	1.2	6	-	31.3	
5 – 14	Cases	-	-	-	-	2	5	1	11	-	6	-	-	
	Rate	-	-	-	-	0.4	0.6	1.2	13.5	-	2.3	-	-	
15 – 24	Cases	1	-	1	-	17	31	7	6	6	14	-	10	
	Rate	2.2	-	1.6	-	3.4	4.1	8.6	7.7	2.9	5.2	-	176.8	
25 – 34	Cases	-	-	-	-	34	89	5	10	14	38	-	3	
	Rate	-	-	-	-	6.1	9.9	5.9	14.3	6	11.9	-	45	
35 – 44	Cases	1	-	1	-	32	70	10	4	13	25	-	2	
	Rate	2.2	-	1.3	-	5	7.4	11	5	5	7.3	-	35.6	
45 – 54	Cases	1	-	-	1	18	45	5	4	8	32	-	4	
	Rate	2.6	-	-	1.9	3.6	6.3	7.2	6.9	4.6	12	-	109.3	
55 – 64	Cases	1	-	-	2	24	49	5	4	8	35	-	2	
	Rate	4.3	-	-	6.3	7.4	10.2	10.9	9.8	7.5	20.6	-	120.7	
65 – 74	Cases	2	1	1	1	29	50	7	3	15	29	1	-	
	Rate	12.1	22.8	3.3	4.1	12.2	13.3	18.7	8.3	19.4	21.7	173.9	-	
75 +	Cases	2	-	-	2	41	51	7	3	17	39	-	1	
	Rate	19	-	-	12.3	32.6	23.8	25.6	10.5	37.3	45.7	-	271.7	
TOTAL	Cases	8	1	3	6	201	397	47	59	82	224	1	23	
	Rate	7.1	1.5	0.7	1.6	5.6	7.2	8.3	11.6	5.7	11.4	6	64.8	

Table 5C

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – females – Canada and provinces/territories: 1997

Age Group	CANADA	Province/Territory												
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
< 1	Cases	-	-	-	-	-	-	-	-	3	-	-	-	-
	Rate	-	-	-	-	-	-	-	-	47	-	-	-	-
1 – 4	Cases	-	-	-	-	3	7	1	9	-	1	-	1	
	Rate	-	-	-	-	1.7	2.4	3.2	31.9	-	1.1	-	33.6	
5 – 14	Cases	-	-	-	-	3	6	1	18	3	2	-	-	
	Rate	-	-	-	-	0.7	0.8	1.2	23.1	1.4	0.8	-	-	
15 – 24	Cases	-	-	-	-	17	56	7	13	9	17	-	2	
	Rate	-	-	-	-	3.6	7.7	9.1	17.8	4.5	6.6	-	37.7	
25 – 34	Cases	1	-	2	-	30	78	7	7	14	52	-	1	
	Rate	2.3	-	2.8	-	5.6	8.7	8.6	10.2	6.2	16.8	-	15.9	
35 – 44	Cases	1	-	1	-	28	52	9	4	12	25	-	1	
	Rate	2.1	-	1.3	-	4.4	5.4	10.1	5.1	4.8	7.4	-	20.4	
45 – 54	Cases	-	-	-	-	14	44	5	2	10	22	-	1	
	Rate	-	-	-	-	2.7	6	7.2	3.6	5.9	8.3	-	33.9	
55 – 64	Cases	1	1	-	-	15	35	7	1	13	24	1	-	
	Rate	4.4	16.9	-	-	4.4	7	15	2.4	12.4	14.1	107.4	-	
65 – 74	Cases	2	1	-	-	17	54	5	-	12	16	-	-	
	Rate	11.1	20.3	-	-	5.8	12.3	11.3	-	14.2	10.9	-	-	
75 +	Cases	2	2	1	1	32	32	7	5	11	21	-	2	
	Rate	12.7	37.7	2.8	3.7	13.7	8.9	15.5	11.5	15.3	15.8	-	579.7	
TOTAL	Cases	7	4	4	1	159	364	49	62	84	180	1	8	
	Rate	2.5	5.8	0.8	0.3	4.3	6.4	8.6	12.1	6	9	6.5	24.8	

Table 6

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by birthplace - Canada and provinces/territories: 1997

Birthplace	CANADA	Province/Territory										NWTS		
		Totals	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA		BC	YUK
Aboriginal		ATLANTIC												
Status Indian	212	2	-	-	-	2	-	9	38	82	28	35	-	18
Rate	40.6	10.2										144.0		
Non-Status Indian/Metis	52	3	-	-	3	-	10	1	24	5.8	6	6	1	
Rate	8.2	9.3										21.7		
Inuit	19	1	1	-	-	-	6	-	1	-	-	-	11	
Rate	32.6	11.4										42.1		
Total	283	6	1	-	3	2	16	10	40	106	34	41	30	
Rate	23.3	9.9										69.3		
Non-aboriginal	400	20	11	4	1	4	154	102	27	7	28	62	-	
Rate	1.7	0.9										-		
Total	683	26	12	4	4	6	170	112	67	113	62	103	30	
Rate	2.8	1.1	2.2	3.0	0.4	0.8	2.6	1.3	6.7	11.7	2.6	3.5	46.5	
Africa	92	1	-	-	-	1	19	52	3	-	8	9	-	
Rate	55.1	35.8	-	-	-	120.3	81.0	57.6	69.2	-	60.2	29.1	-	
Americas	103	-	-	-	-	-	48	38	3	2	10	-	-	
Rate	11.8	-	-	-	-	-	39.5	8.0	13.1	21.9	2.9	6.2	-	
East Mediterranean	114	2	-	2	-	-	21	77	3	-	3	8	-	
Rate	34.1	35.6	-	68.0	-	-	44.5	42.6	34.6	-	11.3	12.9	-	
Europe	134	1	-	1	-	-	32	70	-	1	10	18	1	
Rate	5.4	2.5	-	45.8	-	-	9.6	5.2	-	4.0	5.0	4.0	63.4	
South East Asia	197	-	-	-	-	-	22	110	2	1	7	55	-	
Rate	54.5	-	-	-	-	-	44.1	56.0	21.1	26.6	24.2	82.4	-	
Western Pacific	569	4	3	1	1	-	43	270	17	4	69	161	1	
Rate	51.1	21.9	138.1	-	10.4	-	27.9	44.7	58.4	34.5	77.6	78.3	142.5	

...cont'd

Table 6 *Cont'd*

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by birthplace - Canada and provinces/territories: 1997

Birthplace	CANADA	Province/Territory												
		Totals	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
Foreign-born (WHO Region)	Cases	-	-	-	-	-	2	27	1	-	5	27	-	-
	Rate	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Birthplace	Cases	8	3	1	3	1	187	644	29	8	104	288	2	1
	Rate	9.2	30.0	21.0	6.6	3.8	25.6	22.3	20.7	14.5	24.4	29.4	59.3	30.5
Unknown Birthplace	Cases	-	-	-	-	-	3	5	-	-	-	13	-	-
	Rate	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	Cases	34	15	5	7	7	360	761	96	121	166	404	2	31
	Rate	6.6	2.7	3.7	0.7	0.9	4.9	6.8	8.4	11.8	5.8	10.2	6.2	45.8

Table 7

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by main diagnostic site - Canada and provinces/territories: 1997

Main Diagnostic Site	CANADA	Province/Territory												
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
Primary	Cases	130	-	-	-	-	4	43	5	58	1	10	-	9
	Rate	0.4	-	-	-	0.1	0.4	0.4	0.4	5.7	-	0.3	-	13.3
Miliary/Disseminated	Cases	73	-	-	-	16	12	7	7	7	14	17	-	-
	Rate	0.2	-	-	-	0.2	0.1	0.6	0.7	0.7	0.5	0.4	-	-
Respiratory (pulm/other resp)*	Cases	1230	9	3	6	7	250	442	60	42	108	280	2	21
	Rate	4.1	1.6	2.2	0.6	0.9	3.4	3.9	5.3	4.1	3.8	7.1	6.2	31
Meninges and CNS	Cases	25	1	-	-	-	5	10	1	-	1	7	-	-
	Rate	0.1	0.2	-	-	-	0.1	0.1	0.1	-	-	0.2	-	-
Peripheral Lymph Node	Cases	266	3	1	-	-	-	160	10	7	21	63	-	1
	Rate	0.9	0.5	0.7	-	-	-	1.4	0.9	0.7	0.7	1.6	-	1.5
Other Sites	Cases	247	2	1	1	-	82	93	13	7	21	27	-	-
	Rate	0.8	0.4	0.7	0.1	-	1.1	0.8	1.1	0.7	0.7	0.7	-	-
Unknown	Cases	4	-	-	-	-	3	1	-	-	-	-	-	-
	Rate	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	Cases	1975	15	5	7	7	360	761	96	121	166	404	2	31
	Rate	6.6	2.7	3.7	0.7	0.9	4.9	6.8	8.4	11.8	5.8	10.2	6.2	45.7

* Please refer to Technical Notes for definition.

Table 8

Reported new active and relapsed tuberculosis cases by birthplace, sex and age group – Canada: 1997

Birthplace	TOTAL	Age Group																		
		< 1	1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 +									
Aboriginal																				
Male	109	3	14	9	8	23	17	12	8											
Female	103	2	7	15	15	18	13	7	9											
Total	212	5	21	24	23	41	30	19	17	13	13	19	17	13	19	19	19	13	13	19
Non-status Indian/Metis																				
Male	23	1	1	4	4	2	2	2	6											
Female	29	1	4	3	7	5	1	2	3											
Total	52	2	5	7	11	7	3	4	9	3	3	4	9	3	4	9	3	3	3	4
Inuit																				
Male	12	-	-	1	8	-	-	1	1											
Female	7	-	-	-	3	-	2	-	1											
Total	19	-	-	1	11	-	2	1	2	2	2	1	1	2	2	2	2	2	2	-
Total	144	4	15	14	20	25	19	15	15	15	19	15	15	15	7	10	10	7	10	10
Female	139	3	11	18	25	23	16	9	13											
Total	283	7	26	32	45	48	35	24	28	24	35	24	28	28	15	23	23	15	23	23
Non-aboriginal																				
Male	244	2	10	6	7	22	30	32	38											
Female	156	-	9	6	9	11	18	19	14											
Total	400	2	19	12	16	33	48	51	52	48	48	51	52	52	71	96	96	71	96	96
Total	388	6	25	20	27	47	49	47	53	49	49	47	53	50	64	64	64	50	64	64
Female	295	3	20	24	34	34	34	28	27											
Total	683	9	45	44	61	81	83	75	80	83	83	75	80	86	119	119	119	86	119	119
Foreign-born (WHO Region)																				
Male	48	-	-	1	5	23	13	2	3											
Female	44	-	-	4	9	19	3	2	4											
Total	92	-	-	5	14	42	16	4	7	16	16	4	7	7	2	2	2	7	2	2
Americas																				
Male	51	-	1	-	4	14	18	4	2											
Female	52	-	1	2	9	12	12	4	2											
Total	103	-	2	2	13	26	30	8	4	30	30	8	4	8	10	10	8	4	10	10

...cont'd

Table 8 *Cont'd*

Reported new active and relapsed tuberculosis cases by birthplace, sex and age group – Canada: 1997

Birthplace	TOTAL	Age Group										
		< 1	1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 +	
East Mediterranean	Male	-	-	1	15	17	13	3	3	6	2	
	Female	-	1	-	11	19	6	7	6	3	1	
	Total	-	1	1	26	36	19	10	9	9	3	
Europe	Male	-	-	-	4	6	6	11	13	19	23	
	Female	-	-	-	2	5	8	6	8	8	15	
	Total	-	-	-	6	11	14	17	21	27	38	
South East Asia	Male	-	-	-	9	25	16	12	15	12	16	
	Female	-	-	1	20	18	10	10	13	12	8	
	Total	-	-	1	29	43	26	22	28	24	24	
Western Pacific	Male	-	1	2	28	50	37	36	36	41	37	
	Female	-	-	1	34	82	58	40	30	33	23	
	Total	-	1	3	62	132	95	76	66	74	60	
Unknown Birthplace	Male	-	-	1	1	8	5	3	3	6	9	
	Female	-	-	1	2	3	2	1	7	6	4	
	Total	-	-	2	3	11	7	4	10	12	13	
Total	Male	-	2	5	66	143	108	71	75	86	94	
	Female	-	2	9	87	158	99	70	70	70	56	
	Total	-	4	14	153	301	207	141	145	156	150	
Unknown Birthplace	Male	-	-	-	-	3	1	-	2	3	5	
	Female	-	-	-	-	-	-	-	1	1	5	
	Total	-	-	-	-	3	1	-	3	4	10	
TOTAL	Male	6	27	25	93	193	158	118	130	139	163	
	Female	3	22	33	121	192	133	98	98	107	116	
	Total	9	49	58	214	385	291	216	228	246	279	

Table 9

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group and main diagnostic site – Canada: 1997

Age Group	TOTAL	Main Diagnostic Site									
		Primary	Miliary/Disseminated	Respiratory (pulm/other resp)*	Meninges and CNS	Peripheral Lymph Node	Other Sites*	Unknown			
< 1	Cases	9	-	1	-	-	-	-	-	-	-
	Rate	2.5	-	0.3	-	-	-	-	-	-	-
0 – 4	Cases	49	-	9	-	2	-	2	-	-	
	Rate	3.1	-	0.6	-	0.1	-	0.1	-	-	
5 – 14	Cases	58	-	10	1	8	6	-	-	-	
	Rate	1.4	-	0.2	-	0.2	-	0.1	-	-	
15 – 24	Cases	214	7	142	-	32	15	-	-	-	
	Rate	5.3	0.2	3.5	-	0.8	0.4	-	-	-	
25 – 34	Cases	385	11	241	7	74	41	1	-	-	
	Rate	8.2	0.2	5.2	0.1	1.6	0.9	0.1	-	-	
35 – 44	Cases	291	9	167	7	50	51	-	-	-	
	Rate	5.7	0.2	3.3	0.1	1.0	1.0	-	-	-	
45 – 54	Cases	216	9	119	2	35	44	1	-	-	
	Rate	5.5	0.2	3.0	0.1	0.9	1.1	0.1	-	-	
55 – 64	Cases	228	9	154	2	29	32	1	-	-	
	Rate	8.8	0.3	6.0	0.1	1.1	1.2	0.1	-	-	
65 – 74	Cases	246	10	175	4	21	31	1	-	-	
	Rate	11.7	0.5	8.3	0.2	1.0	1.5	0.2	-	-	
75 +	Cases	279	18	212	2	15	25	-	-	-	
	Rate	18.0	1.2	13.7	0.1	1.0	1.6	0.1	-	-	
TOTAL	Cases	1975	73	1230	25	266	247	4	-	-	
	Rate	6.6	0.2	4.1	0.1	0.9	0.8	0.1	-	-	

* Please refer to Technical Notes for definition.

Table 10**Reported new active and relapsed tuberculosis cases by birthplace and main diagnostic site – Canada: 1997**

Birthplace	TOTAL	Main Diagnostic Site							
		Primary	Miliary/ Disseminated	Respiratory (pulm/ other resp)*	Meninges and CNS	Peripheral Lymph Node	Other Sites*	Unknown	
Aboriginal									
Status Indian	212	62	10	126	3	4	7	-	
Non-status Indian/Metis	52	12	2	26	-	2	10	-	
Inuit	19	1	-	17	-	1	-	-	
Total Aboriginal	283	75	12	169	3	7	17	-	
Non-aboriginal	400	27	17	281	6	20	46	3	
Total Canadian-born	683	102	29	450	9	27	63	3	
Africa	92	1	2	54	4	16	14	1	
Americas	103	1	6	68	2	4	22	-	
East Mediterranean	114	1	3	61	2	28	19	-	
Europe	134	6	5	83	4	13	23	-	
South East Asia	197	3	10	117	2	44	21	-	
Western Pacific	569	15	14	343	1	125	71	-	
Unknown Birthplace	62	1	2	37	1	9	12	-	
Total Foreign-born	1271	28	42	763	16	239	182	1	
Unknown Birthplace	21	-	2	17	-	-	2	-	
TOTAL	1975	130	73	1230	25	266	247	4	

* Please refer to Technical Notes for definition.

Table 11

Reported new active and relapsed tuberculosis cases by birthplace and activity status – Canada: 1997

Birthplace	TOTAL	Activity Status		
		New Active Cases	Relapsed Cases	Unknown Status
Aboriginal				
Status Indian	212	181	31	-
Non-Status Indian/Metis	52	42	10	-
Inuit	19	14	5	-
Total Aboriginal	283	237	46	-
Non-aboriginal	400	355	42	3
Total Canadian-born	683	592	88	3
Africa	92	86	3	3
Americas	103	93	10	-
East Mediterranean	114	109	5	-
Europe	134	116	18	-
South East Asia	197	187	9	1
Western Pacific	569	512	56	1
Unknown Birthplace	62	57	5	-
Total Foreign-born	1271	1160	106	5
Unknown Birthplace	21	17	3	1
TOTAL	1975	1769	197	9

Table 12

Reported new active and relapsed tuberculosis cases by bacillary status – Canada and provinces/territories: 1997

Bacillary Status	CANADA	Province/Territory											
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
1. Microscopy positive													
a. Culture positive	759	7	2	2	6	193	216	42	30	59	188	1	13
b. Culture negative	52	-	-	-	-	6	32	5	-	1	7	-	1
c. Culture not done/unlk.	142	-	-	1	-	2	130	4	-	1	4	-	-
Total	953	7	2	3	6	201	378	51	30	61	199	1	14
2. Microscopy negative													
a. Culture positive	415	1	3	2	1	74	95	33	22	63	109	-	12
b. Culture negative	87	1	-	1	-	13	-	8	15	15	29	1	4
c. Culture not done/unlk.	4	-	-	-	-	3	-	-	-	-	1	-	-
Total	506	2	3	3	1	90	95	41	37	78	139	1	16
3. Microscopy not done/unlk.													
a. Culture positive	414	5	-	1	-	60	286	4	14	11	33	-	-
b. Culture negative	25	-	-	-	-	-	-	-	25	-	-	-	-
c. Culture not done/unlk.	77	1	-	-	-	9	2	-	15	16	33	-	1
Total	516	6	-	1	-	69	288	4	54	27	66	-	1
TOTAL	1975	15	5	7	7	360	761	96	121	166	404	2	31

Table 13

Reported new active and relapsed tuberculosis cases by bacillary status and birthplace – Canada: 1997

Bacillary Status	TOTAL	Birthplace			
		Canadian-born Aboriginal	Canadian-born Non-aboriginal	Foreign-born	Unknown Birthplace
1. Microscopy positive					
a. Culture positive	759	113	171	466	9
b. Culture negative	52	6	11	35	-
c. Culture not done/unk.	142	1	30	110	1
Total	953	120	212	611	10
2. Microscopy negative					
a. Culture positive	415	60	86	265	4
b. Culture negative	87	27	22	38	-
c. Culture not done/unk.	4	-	2	2	-
Total	506	87	110	305	4
3. Microscopy not done/unk.					
a. Culture positive	414	28	66	314	6
b. Culture negative	25	25	-	-	-
c. Culture not done/unk.	77	23	12	41	1
Total	516	76	78	355	7
TOTAL	1975	283	400	1271	21

Table 14

Reported new active and relapsed tuberculosis cases by bacillary status and main diagnostic site – Canada: 1997

Bacillary Status	TOTAL	Main Diagnostic Site						
		Primary	Miliary/ Disseminated	Respiratory (pulm/ other resp)*	Meninges and CNS	Peripheral Lymph Node	Other Sites*	Unknown
1. Microscopy positive								
a. Culture positive	759	16	45	556	4	65	70	3
b. Culture negative	52	1	-	44	1	2	4	-
c. Culture not done/unk.	142	8	2	64	4	40	24	-
Total	953	25	47	664	9	107	98	3
2. Microscopy negative								
a. Culture positive	415	15	19	332	3	30	16	-
b. Culture negative	87	20	-	53	2	5	7	-
c. Culture not done/unk.	4	-	-	2	-	-	2	-
Total	506	35	19	387	5	35	25	-
3. Microscopy not done/unk.								
a. Culture positive	414	27	7	150	10	111	108	1
b. Culture negative	25	25	-	-	-	-	-	-
c. Culture not done/unk.	77	18	-	29	1	13	16	-
Total	516	70	7	179	11	124	124	1
TOTAL	1975	130	73	1230	25	266	247	4

* Please refer to Technical Notes for definition.

Table 15

Reported new active and relapsed tuberculosis cases by bacillary status and main diagnostic site – Canada and provinces/territories: 1997

Main Diagnostic Site	Bacillary Status	CANADA	Province/Territory												
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
Primary	1. Microscopy positive	a. Culture positive	16	-	-	-	-	12	-	1	-	-	1	-	2
		b. Culture negative	1	-	-	-	-	1	-	-	-	-	-	-	-
		c. Culture not done/unk.	8	-	-	-	-	8	-	-	-	-	-	-	-
	2. Microscopy negative	a. Culture positive	15	-	-	-	-	4	1	4	-	1	-	-	5
		b. Culture negative	20	-	-	-	3	-	4	10	-	1	-	-	2
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-
	3. Microscopy not done/unk.	a. Culture positive	27	-	-	-	1	18	-	8	-	-	-	-	-
		b. Culture negative	25	-	-	-	-	-	-	25	-	-	-	-	-
		c. Culture not done/unk.	18	-	-	-	-	-	-	10	1	7	-	-	-
Total		130	-	-	-	4	43	5	58	1	10	1	10	9	
Miliary/Disseminated	1. Microscopy positive	a. Culture positive	45	-	-	-	14	2	6	3	8	12	-	-	
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	
		c. Culture not done/unk.	2	-	-	-	-	2	-	-	-	-	-	-	
	2. Microscopy negative	a. Culture positive	19	-	-	-	2	2	1	4	6	4	-	-	
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	
	3. Microscopy not done/unk.	a. Culture positive	7	-	-	-	-	6	-	-	-	1	-	-	
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	
Total		73	-	-	-	16	12	7	7	14	17	14	17		

...cont'd

Reported new active and relapsed tuberculosis cases by bacillary status and main diagnostic site – Canada and provinces/territories: 1997

Main Diagnostic Site	Bacillary Status	CANADA	Province/Territory											
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
Respiratory (pulm/ other resp)*	1. Microscopy positive	a. Culture positive	5	1	2	6	146	156	29	23	42	134	1	11
		b. Culture negative	-	-	-	-	6	29	1	-	-	7	-	1
		c. Culture not done/unk.	-	-	-	-	-	62	1	-	-	1	-	-
	2. Microscopy negative	a. Culture positive	332	2	2	1	65	88	24	10	48	84	-	7
		b. Culture negative	53	-	1	-	9	-	3	3	9	24	1	2
		c. Culture not done/unk.	2	-	-	-	1	-	-	-	-	1	-	-
	3. Microscopy not done/unk.	a. Culture positive	150	-	1	-	18	106	2	3	6	13	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-
		c. Culture not done/unk.	29	-	-	-	5	1	-	3	3	16	-	-
Total		1230	9	3	6	7	250	442	60	42	108	280	2	21
Meninges and CNS	1. Microscopy positive	a. Culture positive	4	-	-	-	-	3	-	-	-	1	-	-
		b. Culture negative	1	-	-	-	-	-	1	-	-	-	-	-
		c. Culture not done/unk.	4	-	-	-	-	4	-	-	-	-	-	-
	2. Microscopy negative	a. Culture positive	3	-	-	-	1	-	-	-	-	2	-	-
		b. Culture negative	2	-	-	-	-	-	-	-	-	2	-	-
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-
	3. Microscopy not done/unk.	a. Culture positive	10	1	-	-	4	3	-	-	-	2	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-
		c. Culture not done/unk.	1	-	-	-	-	-	-	-	1	-	-	-
Total		25	1	-	-	5	10	1	-	1	7	-	-	

* Please refer to Technical Notes for definition.

...cont'd

Table 15 *Cont'd*
Reported new active and relapsed tuberculosis cases by bacillary status and main diagnostic site – Canada and provinces/territories: 1997

Main Diagnostic Site	Bacillary Status	CANADA	Province/Territory											
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
Peripheral Lymph Node	1. Microscopy positive	65	2	-	-	-	-	27	5	2	3	26	-	-
		2	-	-	-	-	1	-	-	-	1	-	-	
		40	-	-	-	-	36	2	-	-	-	2	-	
	2. Microscopy negative	30	-	1	-	-	-	2	2	4	9	14	-	-
		5	-	-	-	-	-	-	1	1	2	2	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
	3. Microscopy not done/unk.	111	1	-	-	-	-	97	-	-	2	11	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-
		13	-	-	-	-	-	-	-	-	4	8	-	1
Total	266	3	1	-	-	-	160	10	7	21	63	-	1	
Other Sites*	1. Microscopy positive	70	-	1	-	-	-	31	2	1	6	14	-	-
		4	-	-	-	-	-	2	2	-	-	-	-	
		24	-	-	1	-	2	18	1	-	1	1	-	
	2. Microscopy negative	16	-	-	-	-	6	1	5	-	-	4	-	-
		7	-	-	-	-	1	-	1	1	4	-	-	
		2	-	-	-	-	2	-	-	-	-	-	-	
	3. Microscopy not done/unk.	108	2	-	-	-	36	56	2	3	3	6	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	
		16	-	-	-	-	4	1	-	2	7	2	-	
Total	247	2	1	1	-	82	93	13	7	21	27	-	-	

* Please refer to Technical Notes for definition.

Table 15 *Cont'd*

Reported new active and relapsed tuberculosis cases by bacillary status and main diagnostic site – Canada and provinces/territories: 1997

Main Diagnostic Site	Bacillary Status	CANADA	Province/Territory														
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT			
Unknown	1. Microscopy positive	a. Culture positive	3	-	-	-	-	2	1	-	-	-	-	-	-	-	
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2. Microscopy negative	a. Culture positive	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3. Microscopy not done/unk.	a. Culture positive	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total		4	-	-	-	-	3	1	-	-	-	-	-	-	-	-	
TOTAL	1. Microscopy positive	a. Culture positive	759	7	2	2	6	193	216	42	30	59	188	1	13	1	
		b. Culture negative	52	-	-	-	6	32	5	-	-	1	7	-	1	-	
		c. Culture not done/unk.	142	-	-	1	-	2	130	4	-	1	4	-	-	-	
	2. Microscopy negative	a. Culture positive	415	1	3	2	1	74	95	33	22	63	109	-	12	-	
		b. Culture negative	87	1	-	1	-	13	-	8	15	15	29	1	4	-	
		c. Culture not done/unk.	4	-	-	-	3	-	-	-	-	-	1	-	-	-	
	3. Microscopy not done/unk.	a. Culture positive	414	5	-	1	-	60	286	4	14	11	33	-	-	-	
		b. Culture negative	25	-	-	-	-	-	-	-	25	-	-	-	-	-	
		c. Culture not done/unk.	77	1	-	-	-	9	2	-	15	16	33	-	1	-	
Total		1975	15	5	7	7	360	761	96	121	166	404	2	31	31		

Table 16

Reported new active and relapsed tuberculosis cases by birthplace and bacillary status – Canada and provinces/territories: 1997

Birthplace	Bacillary Status	CANADA	Province/Territory										
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK
Aboriginal													
<i>Status Indian</i>													
Canadian-born	a. Culture positive	84	-	-	2	-	5	24	16	15	14	-	8
	b. Culture negative	6	-	-	-	-	4	-	-	-	1	-	1
	c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-
	a. Culture positive	49	-	-	-	-	10	14	10	7	-	-	8
	b. Culture negative	20	-	-	-	-	-	13	1	5	-	-	1
	c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-
	a. Culture positive	17	-	-	-	-	4	-	8	2	3	-	-
	b. Culture negative	22	-	-	-	-	-	-	22	-	-	-	-
	c. Culture not done/unk.	14	-	-	-	-	-	-	9	-	5	-	-
Total Status Indian		212	-	-	2	-	9	38	82	28	35	-	18
<i>Non-status Indian/Metis</i>													
Canadian-born	a. Culture positive	20	-	-	1	-	3	1	-	5	2	-	-
	b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-
	c. Culture not done/unk.	1	-	-	1	-	-	-	-	-	-	-	-
	a. Culture positive	6	-	-	-	-	1	3	1	1	-	-	-
	b. Culture negative	4	-	-	-	2	-	-	1	-	-	-	1
	c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-
	a. Culture positive	11	-	-	1	-	4	-	4	-	2	-	-
	b. Culture negative	3	-	-	-	-	-	-	3	-	-	-	-
	c. Culture not done/unk.	7	-	-	-	1	-	-	5	-	1	-	-
Total Non-status Indian/Metis		52	-	-	3	-	10	1	24	6	6	-	1

...cont'd

Table 16 *Cont'd*

Reported new active and relapsed tuberculosis cases by birthplace and bacillary status – Canada and provinces/territories: 1997

Birthplace	Bacillary Status	CANADA	Province/Territory												
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
Aboriginal (<i>cont'd</i>)															
<i>Inuit</i>															
Canadian-born (<i>Cont'd</i>)	1. Microscopy positive	a. Culture positive	9	-	-	-	-	3	-	1	-	-	-	5	
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	
	2. Microscopy negative	a. Culture positive	5	-	-	-	2	-	-	-	-	-	-	3	
		b. Culture negative	3	1	-	-	-	-	-	-	-	-	-	2	
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	
	3. Microscopy not done/unk.	a. Culture positive	-	-	-	-	-	-	-	-	-	-	-	-	
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	
		c. Culture not done/unk.	2	-	-	-	1	-	-	-	-	-	-	1	
Total Inuit		19	1	-	-	-	6	-	1	-	-	-	11		
<i>Total</i>															
Canadian-born (<i>Cont'd</i>)	1. Microscopy positive	a. Culture positive	113	-	-	1	2	6	6	25	24	20	16	-	13
		b. Culture negative	6	-	-	-	-	-	-	4	-	-	1	-	1
		c. Culture not done/unk.	1	-	-	1	-	-	-	-	-	-	-	-	-
	2. Microscopy negative	a. Culture positive	60	-	-	-	-	2	2	11	17	11	8	-	11
		b. Culture negative	27	1	-	-	-	2	2	-	14	1	5	-	4
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-
	3. Microscopy not done/unk.	a. Culture positive	28	-	-	1	-	4	4	-	12	2	5	-	-
		b. Culture negative	25	-	-	-	-	-	-	-	25	-	-	-	-
		c. Culture not done/unk.	23	-	-	-	-	2	2	-	14	-	6	-	1
Total Aboriginal		283	1	-	3	2	16	10	40	106	34	41	-	30	

...cont'd

Table 16 *Cont'd*

Reported new active and relapsed tuberculosis cases by birthplace and bacillary status – Canada and provinces/territories: 1997

Birthplace	Bacillary Status	CANADA	Province/Territory										
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK
Non-aboriginal													
1. Microscopy positive	a. Culture positive	171	4	2	1	4	92	22	8	2	8	28	-
	b. Culture negative	11	-	-	-	4	4	1	-	-	2	-	
	c. Culture not done/unk.	30	-	-	-	-	26	2	-	1	1	-	
2. Microscopy negative	a. Culture positive	86	1	2	-	-	25	17	12	2	10	17	-
	b. Culture negative	22	-	-	-	8	-	3	1	4	6	-	
	c. Culture not done/unk.	2	-	-	-	1	-	-	-	-	1	-	
3. Microscopy not done/unk.	a. Culture positive	66	5	-	-	22	33	1	1	2	2	-	
	b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	
	c. Culture not done/unk.	12	1	-	-	2	-	-	1	3	5	-	
Total Non-aboriginal		400	11	4	1	4	154	102	27	7	28	62	-
Canadian-born													
<i>(Cont'd)</i>													
1. Microscopy positive	a. Culture positive	284	4	2	2	6	98	28	33	26	28	44	13
	b. Culture negative	17	-	-	-	4	4	5	-	-	3	-	
	c. Culture not done/unk.	31	-	-	1	-	26	2	-	-	1	-	
2. Microscopy negative	a. Culture positive	146	1	2	-	-	27	17	23	19	21	25	11
	b. Culture negative	49	1	-	-	-	10	-	3	15	5	11	4
	c. Culture not done/unk.	2	-	-	-	1	-	-	-	-	1	-	
3. Microscopy not done/unk.	a. Culture positive	94	5	-	1	-	26	37	1	13	4	7	-
	b. Culture negative	25	-	-	-	-	-	-	-	25	-	-	-
	c. Culture not done/unk.	35	1	-	-	4	-	-	-	15	3	11	1
Total Canadian-born		683	12	4	4	6	170	112	67	113	62	103	30

...cont'd

Table 16 *Cont'd*

Reported new active and relapsed tuberculosis cases by birthplace and bacillary status – Canada and provinces/territories: 1997

Birthplace	Bacillary Status	CANADA	Province/Territory											
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
Africa	a. Culture positive	37	-	-	-	-	11	18	1	-	3	4	-	-
	b. Culture negative	1	-	-	-	-	-	1	-	-	-	-	-	
	c. Culture not done/unk.	10	-	-	-	-	-	10	-	-	-	-	-	
	a. Culture positive	17	-	-	1	5	6	1	-	2	2	-	-	
	b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	
	c. Culture not done/unk.	1	-	-	-	1	-	-	-	-	-	-	-	
	a. Culture positive	22	-	-	-	2	17	1	-	1	1	-	-	
	b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	
	c. Culture not done/unk.	4	-	-	-	-	-	-	-	2	2	-	-	
Total Africa		92	-	-	-	1	19	52	3	-	8	9	-	-
Foreign-born (WHO Region)	Americas													
		a. Culture positive	54	-	-	-	28	16	2	1	2	5	-	-
		b. Culture negative	3	-	-	-	-	2	-	-	-	1	-	-
		c. Culture not done/unk.	6	-	-	-	-	6	-	-	-	-	-	-
		a. Culture positive	12	-	-	-	6	1	-	1	-	4	-	-
		b. Culture negative	1	-	-	-	1	-	-	-	-	-	-	-
		c. Culture not done/unk.	1	-	-	-	1	-	-	-	-	-	-	-
		a. Culture positive	23	-	-	-	9	13	1	-	-	-	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-
c. Culture not done/unk.	3	-	-	-	3	-	-	-	-	-	-	-		
Total Americas		103	-	-	-	48	38	3	2	2	10	2	10	-

...cont'd

Table 16 *Cont'd*

Reported new active and relapsed tuberculosis cases by birthplace and bacillary status – Canada and provinces/territories: 1997

Birthplace	Bacillary Status	Province/Territory													
		CANADA	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
Foreign-born (WHO Region) (<i>cont'd</i>)	East Mediterranean														
	1. Microscopy positive	a. Culture positive	28	-	-	-	-	8	15	2	-	-	3	-	-
		b. Culture negative	7	-	-	-	-	1	6	-	-	-	-	-	-
		c. Culture not done/unk.	16	-	-	-	-	-	16	-	-	-	-	-	-
	2. Microscopy negative	a. Culture positive	24	-	-	1	-	6	11	-	-	3	3	-	-
		b. Culture negative	2	-	-	1	-	-	-	1	-	-	-	-	-
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-
	3. Microscopy not done/unk.	a. Culture positive	36	-	-	-	-	6	29	-	-	1	1	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-
		c. Culture not done/unk.	1	-	-	-	-	-	-	-	-	-	1	-	-
	Total East Mediterranean		114	-	-	2	-	21	77	3	-	3	8	-	-
	Europe														
	1. Microscopy positive	a. Culture positive	49	-	-	-	-	14	21	-	-	4	10	-	-
b. Culture negative		6	-	-	-	-	1	5	-	-	-	-	-	-	
c. Culture not done/unk.		3	-	-	-	-	-	3	-	-	-	-	-	-	
2. Microscopy negative	a. Culture positive	39	-	1	-	-	13	16	-	-	3	5	-	1	
	b. Culture negative	1	-	-	-	-	-	-	-	-	-	-	1	-	
	c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-	
3. Microscopy not done/unk.	a. Culture positive	33	-	-	-	-	4	25	-	1	2	2	-	-	
	b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-	
	c. Culture not done/unk.	3	-	-	-	-	-	-	-	-	2	1	-	-	
Total Europe		134	-	1	-	-	32	70	-	1	10	18	1	1	

...cont'd

Reported new active and relapsed tuberculosis cases by birthplace and bacillary status – Canada and provinces/territories: 1997

Birthplace	Bacillary Status	CANADA	Province/Territory												
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
Foreign-born (WHO Region) (<i>cont'd</i>)	South East Asia														
	1. Microscopy positive	a. Culture positive	76	-	-	-	-	14	30	-	1	3	28	-	-
		b. Culture negative	4	-	-	-	-	-	3	-	-	-	1	-	-
		c. Culture not done/unk.	23	-	-	-	1	21	-	-	-	-	1	-	-
	2. Microscopy negative	a. Culture positive	35	-	-	-	4	10	2	-	-	3	16	-	-
		b. Culture negative	5	-	-	-	-	-	-	-	-	-	5	-	-
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-
	3. Microscopy not done/unk.	a. Culture positive	51	-	-	-	3	45	-	-	-	1	2	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-
		c. Culture not done/unk.	3	-	-	-	-	1	-	-	-	-	2	-	-
	Total South East Asia		197	-	-	-	-	22	110	2	1	7	55	-	-
	Western Pacific														
1. Microscopy positive	a. Culture positive	200	3	-	-	-	18	80	4	2	18	74	1	-	
	b. Culture negative	13	-	-	-	-	-	10	-	-	1	2	-	-	
	c. Culture not done/unk.	48	-	-	-	1	43	2	-	-	-	2	-	-	
2. Microscopy negative	a. Culture positive	124	-	-	1	-	12	31	6	2	28	44	-	-	
	b. Culture negative	28	-	-	-	2	-	-	4	-	10	12	-	-	
	c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-	
3. Microscopy not done/unk.	a. Culture positive	134	-	-	-	8	105	1	-	-	4	16	-	-	
	b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-	
	c. Culture not done/unk.	22	-	-	-	2	1	-	-	-	8	11	-	-	
Total Western Pacific		569	3	-	1	-	43	270	17	4	69	161	1	-	

...*cont'd*

Table 16 *Cont'd*

Reported new active and relapsed tuberculosis cases by birthplace and bacillary status – Canada and provinces/territories: 1997

Birthplace	Bacillary Status	CANADA	Province/Territory											
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
Unknown Birthplace														
	a. Culture positive	22	-	-	-	-	1	6	-	-	1	14	-	-
1. Microscopy positive	b. Culture negative	1	-	-	-	-	1	1	-	-	-	-	-	-
	c. Culture not done/unk.	4	-	-	-	-	-	4	-	-	-	-	-	-
2. Microscopy negative	a. Culture positive	14	-	-	-	-	1	3	1	-	3	6	-	-
	b. Culture negative	1	-	-	-	-	-	-	-	-	-	1	-	-
	c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-
3. Microscopy not done/unk.	a. Culture positive	15	-	-	-	-	-	13	-	-	-	2	-	-
	b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-
	c. Culture not done/unk.	5	-	-	-	-	-	-	-	-	1	4	-	-
Total Unknown Birthplace		62	-	-	-	-	2	27	1	-	5	27	-	-
Foreign-born (WHO Region) (<i>cont'd</i>)														
Foreign-born														
	a. Culture positive	466	3	-	-	-	94	186	9	4	31	138	1	-
1. Microscopy positive	b. Culture negative	35	-	-	-	-	2	28	-	-	1	4	-	-
	c. Culture not done/unk.	110	-	-	-	-	2	103	2	-	-	3	-	-
2. Microscopy negative	a. Culture positive	265	-	1	2	1	47	78	10	3	42	80	-	1
	b. Culture negative	38	-	-	1	-	3	-	5	-	10	18	1	-
	c. Culture not done/unk.	2	-	-	-	-	2	-	-	-	-	-	-	-
3. Microscopy not done/unk.	a. Culture positive	314	-	-	-	-	32	247	3	1	7	24	-	-
	b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-
	c. Culture not done/unk.	41	-	-	-	-	5	2	-	-	13	21	-	-
Total Foreign-born		1271	3	1	3	1	187	644	29	8	104	288	2	1

...cont'd

Table 16 *Cont'd*

Reported new active and relapsed tuberculosis cases by birthplace and bacillary status – Canada and provinces/territories: 1997

Birthplace	Bacillary Status	CANADA	Province/Territory												
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
Unknown Birthplace	1. Microscopy positive	a. Culture positive	9	-	-	-	-	1	2	-	-	-	6	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-
		c. Culture not done/unk.	1	-	-	-	-	1	-	-	-	-	-	-	-
	2. Microscopy negative	a. Culture positive	4	-	-	-	-	-	-	-	-	-	4	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-
		c. Culture not done/unk.	-	-	-	-	-	-	-	-	-	-	-	-	-
	3. Microscopy not done/unk.	a. Culture positive	6	-	-	-	-	2	2	-	-	-	2	-	-
		b. Culture negative	-	-	-	-	-	-	-	-	-	-	-	-	-
		c. Culture not done/unk.	1	-	-	-	-	-	-	-	-	-	1	-	-
Total		21	-	-	-	-	3	5	-	-	-	13	-	-	
TOTAL	1. Microscopy positive	a. Culture positive	759	7	2	2	6	193	216	42	30	59	188	1	13
		b. Culture negative	52	-	-	-	6	32	5	-	-	1	7	-	1
		c. Culture not done/unk.	142	-	-	1	2	130	4	-	-	1	4	-	-
	2. Microscopy negative	a. Culture positive	415	1	3	2	1	74	95	33	22	63	109	-	12
		b. Culture negative	87	1	-	1	-	13	-	8	15	15	29	1	4
		c. Culture not done/unk.	4	-	-	-	3	-	-	-	-	-	1	-	-
	3. Microscopy not done/unk.	a. Culture positive	414	5	-	1	-	60	286	4	14	11	33	-	-
		b. Culture negative	25	-	-	-	-	-	-	-	25	-	-	-	-
		c. Culture not done/unk.	77	1	-	-	-	9	2	-	15	16	33	-	1
Total		1975	15	5	7	7	360	761	96	121	166	404	2	31	

Table 17

Reported new active and relapsed tuberculosis cases by method of detection – Canada and provinces/territories: 1997

Method of Detection	CANADA	Province/Territory											
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
Immigration	70	-	-	-	-	-	32	-	-	10	28	-	-
Symptoms/Incidental Findings	1560	15	5	6	7	282	626	81	68	137	313	2	18
Post-Mortem	27	-	-	-	-	7	6	2	-	-	12	-	-
Contact Investigation	105	-	-	1	-	14	17	11	25	6	18	-	13
Screening	129	-	-	-	-	30	46	1	28	7	17	-	-
Other	61	-	-	-	-	24	24	1	-	-	12	-	-
Unknown	23	-	-	-	-	3	10	-	-	6	4	-	-
TOTAL	1975	15	5	7	7	360	761	96	121	166	404	2	31

Table 18

Reported new active and relapsed tuberculosis cases by method of detection and birthplace – Canada: 1997

Method of Detection	TOTAL	Birthplace						
		Canadian-born			Foreign-born			
		Status Indian	Non-Status Indian/Metis	Inuit	Non-aboriginal	Unknown birthplace		
Immigration	70	-	-	-	-	-	70	-
Symptoms/Incidental Findings	1560	132	40	13	321	1038	16	16
Post-Mortem	27	2	-	-	8	14	3	3
Contact Investigation	105	42	9	6	25	23	-	-
Screening	129	32	2	-	24	70	1	1
Other	61	-	1	-	21	39	-	-
Unknown	23	4	-	-	1	17	1	1
TOTAL	1975	212	52	19	400	1271	21	21

Table 19**Reported new active and relapsed foreign-born tuberculosis cases by birthplace and year of arrival in Canada: 1997**

Birthplace (WHO Region)	TOTAL	Year of Arrival									
		≤ 1962	1963- 1972	1973- 1982	1983- 1992	1993	1994	1995	1996	1997	Unk.
Africa	92	-	2	5	32	3	6	7	15	19	3
Americas	103	4	5	13	35	10	4	5	5	15	7
East Mediterranean	114	1	6	5	40	6	14	8	20	13	1
Europe	134	45	20	16	10	3	2	7	4	8	16
South East Asia	197	3	14	21	61	17	9	14	24	25	9
Western Pacific	569	7	22	93	213	27	58	47	44	35	23
Unknown	62	6	4	2	5	1	1	1	6	2	34
TOTAL	1271	66	73	155	396	67	94	89	118	117	93

Table 20**Reported new active and relapsed foreign-born tuberculosis cases by immigration status – Canada and provinces/territories: 1997**

Immigration Status	CANADA	Province/Territory											
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
Landed immigrant or Canadian citizen	330	1	-	1	-	-	-	28	-	93	204	2	1
Refugee claimant	7	-	-	1	-	-	-	-	-	1	5	-	-
Non-resident (visitor, student, illegal alien)	36	1	-	1	-	-	1	-	-	6	27	-	-
Other	1	1	-	-	-	-	-	-	-	-	-	-	-
Unknown	897	-	1	-	1	187	644	-	8	4	52	-	-
TOTAL	1271	3	1	3	1	187	644	29	8	104	288	2	1

Table 21

Reported relapsed tuberculosis cases by length of inactive interval – Canada and provinces/territories: 1997

Interval	CANADA	Province/Territory												
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
< 2 years	4	-	-	-	-	2	-	-	-	-	1	-	-	1
2-5 years	24	-	-	-	-	2	-	4	-	6	8	-	-	2
6-9 years	4	-	-	-	-	1	-	-	-	1	2	-	-	-
10-19 years	10	-	-	-	-	1	-	-	-	1	5	-	-	-
20+ years	67	2	1	1	1	20	-	6	3	11	18	-	-	4
Unknown	88	-	-	1	-	8	70	-	-	-	9	-	-	-
TOTAL	197	2	1	2	1	34	70	10	11	16	43	-	-	7

Table 22

Reported new active and relapsed tuberculosis cases and number of diagnoses by main diagnostic site – Canada: 1997

	Main Diagnostic Site									
	TOTAL	Primary	Miliary/ Disseminated	Respiratory (pulm/ other resp)	Meninges and CNS	Peripheral Lymph Node	Other Sites	Unknown		
Total Number of Cases	1975	130	73	1230	25	266	247	4		
Primary	130	130	-	-	-	-	-	-		
Miliary/Disseminated	73	-	73	-	-	-	-	-		
Pulmonary	1136	2	11	1123	-	-	-	-		
Pulmonary (with silicosis)	-	-	-	-	-	-	-	-		
Pleurisy (tuberculosis)	117	-	1	116	-	-	-	-		
Other respiratory	24	1	1	22	-	-	-	-		
Meninges and CNS	27	-	2	-	25	-	-	-		
Peripheral lymph node	292	-	3	23	-	266	-	-		
Abdominal	38	-	2	14	-	-	22	-		
Bones and joints	74	-	6	8	1	3	56	-		
Genitourinary	75	-	7	10	-	-	58	-		
Other non-respiratory	136	-	2	17	-	2	115	-		
Unknown	4	-	-	-	-	-	-	4		
Total Diagnoses	2123									

Table 23

Reported new active and relapsed tuberculosis cases reported in 1997 who died in 1997, by cause of death – Canada and provinces/territories: 1997

Cause of Death	CANADA	Province/Territory											
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
TB was underlying cause of death	27	1	-	-	-	9	9	2	1	1	4	-	-
TB contributed to death but was not the underlying cause	42	-	-	-	-	13	12	-	3	7	6	-	1
TB did not contribute to death	47	1	1	-	-	10	15	1	1	5	13	-	-
Cause not reported	4	-	-	-	-	1	3	-	-	-	-	-	-
TOTAL	120	2	1	-	-	33	39	3	5	13	23	-	1

Table 24

Reported new active and relapsed tuberculosis cases reported in 1997 who died in 1997, by age group and sex – Canada: 1997

Sex	TOTAL	Age Group										
		< 1	1 – 4	5 – 14	15 – 24	25 – 34	35 – 44	45 – 54	55 – 64	65 – 74	75 +	
Male	74	-	-	-	1	8	2	4	3	19	37	
Female	46	-	-	-	1	2	3	7	7	7	19	
TOTAL	120	-	-	-	2	10	5	11	10	26	56	

NB: These numbers are based on number of known deaths at time of reporting.

Table 25

Reported new active and relapsed tuberculosis cases by HIV status – Canada and provinces/territories: 1997

HIV Status	CANADA	Province/Territory											
		NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
Positive	32	-	-	-	-	-	12	2	1	2	15	-	-
Negative	80	1	-	-	2	-	-	38	-	13	13	-	13
Unknown	1863	14	5	7	5	360	749	56	120	151	376	2	18
TOTAL	1975	15	5	7	7	360	761	96	121	166	404	2	31

APPENDIX 1A

Population estimates by sex and age group – Canada and provinces/territories: 1997

TOTAL													
	CANADA	NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
< 1	356,261	5,550	1,609	10,118	8,073	82,450	135,780	14,882	13,138	37,516	45,265	460	1,420
1 – 4	1,567,274	23,946	7,109	45,038	35,468	362,844	606,761	64,782	57,636	160,243	195,382	1,896	6,169
5 – 14	4,065,267	75,835	20,175	125,052	99,521	924,295	1,528,721	165,590	159,480	430,837	516,675	5,132	13,954
15 – 24	4,056,924	87,451	19,696	127,098	107,516	981,457	1,478,534	157,911	150,534	407,199	524,306	4,261	10,961
25 – 34	4,667,557	85,146	19,611	140,965	114,917	1,097,645	1,799,315	166,837	138,674	457,759	628,077	5,672	12,939
35 – 44	5,116,961	92,525	21,364	156,089	126,048	1,279,088	1,896,015	180,430	158,263	509,366	680,658	6,602	10,513
45 – 54	3,933,599	76,925	17,813	125,659	101,973	1,018,497	1,452,119	139,217	113,889	344,084	532,168	4,645	6,610
55 – 64	2,584,878	45,995	11,760	82,613	64,562	670,745	977,551	92,444	82,332	212,040	339,651	2,106	3,079
65 – 74	2,110,648	34,485	9,315	65,553	52,446	532,290	813,336	81,730	76,286	161,793	280,969	1,025	1,420
75 +	1,549,047	26,286	8,383	56,349	43,336	358,864	574,411	72,665	71,972	117,369	218,249	450	713
TOTAL	30,008,416	554,144	136,835	934,534	753,860	7,308,175	11,262,543	1,136,488	1,022,204	2,838,206	3,961,400	32,249	67,778
Male													
< 1	183,619	2,786	866	5,272	4,266	42,584	69,607	7,659	6,758	19,518	23,304	254	745
1 – 4	803,182	12,384	3,681	23,033	18,280	185,055	311,245	33,146	29,441	82,364	100,399	962	3,192
5 – 14	2,084,480	38,809	10,244	64,157	50,981	472,681	784,741	84,951	81,585	221,124	265,363	2,689	7,155
15 – 24	2,075,994	44,874	10,049	64,377	55,335	503,074	754,762	81,127	77,491	209,167	267,831	2,252	5,655
25 – 34	2,359,559	42,213	9,821	70,326	58,386	561,401	901,340	85,201	69,964	233,262	318,151	2,831	6,663
35 – 44	2,561,930	45,795	10,609	77,286	62,976	644,213	941,005	90,955	80,156	259,384	340,592	3,340	5,619
45 – 54	1,963,212	38,692	8,893	62,638	51,327	505,879	719,207	69,835	57,682	175,328	267,543	2,530	3,658
55 – 64	1,274,285	23,235	5,827	40,853	31,955	326,346	480,150	45,786	40,734	106,808	169,759	1,175	1,657
65 – 74	975,160	16,547	4,382	29,884	24,109	238,649	375,383	37,532	36,182	77,497	133,664	575	756
75 +	578,135	10,504	3,081	20,678	16,325	125,794	214,403	27,392	28,496	45,570	85,331	193	368
TOTAL	14,859,556	275,839	67,453	458,504	373,940	3,605,676	5,551,843	563,584	508,489	1,430,022	1,971,937	16,801	35,468
Female													
< 1	172,642	2,764	743	4,846	3,807	39,866	66,173	7,223	6,380	17,998	21,961	206	675
1 – 4	764,092	11,562	3,428	22,005	17,188	177,789	295,516	31,636	28,195	77,879	94,983	934	2,977
5 – 14	1,980,787	37,026	9,931	60,895	48,540	451,614	743,980	80,639	77,895	209,713	251,312	2,443	6,799
15 – 24	1,980,930	42,577	9,647	62,721	52,181	478,383	723,772	76,784	73,043	198,032	256,475	2,009	5,306
25 – 34	2,307,998	42,933	9,790	70,639	56,531	536,244	897,975	81,636	68,710	224,497	309,926	2,841	6,276
35 – 44	2,555,031	46,730	10,755	78,803	63,072	634,875	955,010	89,475	78,107	249,982	340,066	3,262	4,894
45 – 54	1,970,387	38,233	8,920	63,021	50,646	512,618	732,912	69,382	56,207	168,756	264,625	2,115	2,952
55 – 64	1,310,593	22,760	5,933	41,760	32,607	344,399	497,401	46,658	41,598	105,232	169,892	931	1,422
65 – 74	1,135,488	17,938	4,933	35,669	28,337	293,641	437,953	44,198	40,104	84,296	147,305	450	664
75 +	970,912	15,782	5,302	35,671	27,011	233,070	360,008	45,273	43,476	71,799	132,918	257	345
TOTAL	15,148,860	278,305	69,382	476,030	379,920	3,702,499	5,710,700	572,904	513,715	1,408,184	1,989,463	15,448	32,310

Source: Statistics Canada

APPENDIX 1 B

Population estimates by Canadian-born origin and foreign-born birthplace – Canada and provinces/territories: 1997

TOTAL ¹	CANADA	Nfld	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT
30,008,416	554,144	136,835	934,534	753,860	7,308,175	11,262,543	1,136,488	1,022,204	2,838,206	3,961,400	32,249	67,778	
Canadian-born													
Atlantic Region													
Aboriginal													
Status Indian	522,400	19,600			54,800	107,000	79,000	72,300	74,300	97,100	5,600	12,500	
NSI/Metis	632,800	32,100			105,000	187,600	57,200	42,800	103,400	98,300	1,700	4,600	
Inuit	58,300	8,800			10,000	6,100	900	600	3,300	2,300	200	26,100	
Total Aboriginal	1,213,400	60,500			169,800	300,800	137,200	115,600	181,100	197,700	7,500	43,300	
Non-aboriginal	23,476,747	2,232,386			6,408,919	8,067,864	859,416	851,568	2,231,442	2,782,478	21,374	21,200	
Total	24,690,147	2,292,886			6,578,719	8,368,664	996,616	967,168	2,412,542	2,980,178	28,874	64,500	
Foreign-born (WHO Region)													
Africa	166,966	344	153	1,465	831	23,465	90,222	4,335	1,762	13,285	30,895	105	103
Americas	875,653	1,724	794	7,596	4,326	121,542	474,871	22,886	9,149	69,886	161,787	552	540
East Mediterranean	334,448	697	307	2,943	1,668	47,144	180,566	8,669	3,538	26,592	61,908	209	207
Europe	2,466,176	4,367	2,183	20,874	11,982	333,226	1,347,571	65,364	25,216	198,089	454,209	1,578	1,518
South East Asia	361,357	695	326	3,117	1,778	49,848	196,311	9,475	3,757	28,883	66,716	229	223
Western Pacific	1,112,957	2,173	1,007	9,635	5,490	154,134	603,949	29,123	11,607	88,873	205,577	702	686
Other/Unknown	711	1	1	6	3	97	388	19	7	57	131	-	-
Total	5,318,269	10,002	4,771	45,635	26,079	729,456	2,893,879	139,872	55,036	425,664	981,222	3,375	3,278
Source(s): Canada: Demography Division, Statistics Canada Aboriginal: Projected – Indian and Northern Affairs Canada Non-aboriginal: Calculated – based on Population Estimates from Demography Division, Statistics Canada Foreign: Projected – Demography Division, Statistics Canada (based on WHO Region)													

APPENDIX 2

Active Tuberculosis Report Form – New and Relapsed Cases

Serial No. _____

For Internal Use Only														
Date received at LCDC	Year [] [] [] []	Month [] []	Day [] []	LCDC Number										
Province/Territory/Patient ID														
1. Reporting province/territory	2. Register case number	3. Unique Identifier (may be name or patient identifier)		4. Date of birth Year [] [] [] [] Month [] [] Day [] []	5. Sex 1 <input type="checkbox"/> M 2 <input type="checkbox"/> F									
Name of Patient														
6. Surname			Given Name		Birth Surname									
Usual Residence														
7. Number	Street	City/Town/Village		County and Health Unit	Postal Code	Geo Codes PR [] [] CD [] [] PR [] [] HU/SC [] [] [] [] [] []								
Origin														
8. <input type="checkbox"/> Status Indian (registered) Lives on reserve most of the time 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 8 <input type="checkbox"/> Not Applicable 9 <input type="checkbox"/> Unknown	<input type="checkbox"/> Métis 3 <input type="checkbox"/> Inuit 4 <input type="checkbox"/> Other aboriginal (specify) _____	5 <input type="checkbox"/> Canadian Born non-Aboriginal If under age 20 country of birth of mother _____ country of birth of father _____		6 <input type="checkbox"/> Foreign-Born (a) Country of Birth _____ (b) Year of Arrival in Canada _____ (c) Immigration status: (current status) 1 <input type="checkbox"/> Landed immigrant/now Canadian citizen 2 <input type="checkbox"/> Refugee claimant 3 <input type="checkbox"/> Non-resident (migrant worker, visitor, student, illegal alien)	8 <input type="checkbox"/> Other (specify) _____ 9 <input type="checkbox"/> Unknown									
Diagnosis														
9. Date of diagnosis Year [] [] [] [] Month [] [] Day [] []		10. Diagnosis (ICD9) List Diagnoses (check all that apply) <input type="checkbox"/> Pulmonary: 011.0; 011.1; 011.2; 011.3; 011.4; 011.5; 011.6; 011.7; 011.8; 011.9 <input type="checkbox"/> With Silicosis: 502 <input type="checkbox"/> Miliary/Disseminated: 018.0; 018.8; 018.9 <input type="checkbox"/> Primary: 010.0; 010.1; 010.8; 010.9 <input type="checkbox"/> Pleurisy (tuberculosis): 012.0 <input type="checkbox"/> Other respiratory: 012.1; 012.2; 012.3; 012.8; 137.0 <input type="checkbox"/> Central nervous system: 013.0; 013.1; 013.8; 013.9; 137.1 <input type="checkbox"/> Abdominal: 014 <input type="checkbox"/> Bones and joints: 015.0; 015.1; 015.2; 015.7; 015.8; 015.9; 137.3 <input type="checkbox"/> Genitourinary: 016.0; 016.1; 016.2; 016.3; 016.4; 016.9; 137.2 <input type="checkbox"/> Peripheral lymph nodes (non-respiratory): 017.2 <input type="checkbox"/> Other non-respiratory (specify): 017.0; 017.1; 017.3; 017.4; 017.5; 017.6; 017.7; 017.8; 137.4												
Bacillary Status														
11. Check all that apply:														
Microscopy			Culture											
	Sputum	Bronchial Wash	GI Wash	Node biopsy	Urine	CSF	Other	Sputum	Bronchial Wash	GI Wash	Node biopsy	Urine	CSF	Other
Negative														
Positive														
Not Done/Unknown														
12. Case Criteria 1 <input type="checkbox"/> Positive culture 2 <input type="checkbox"/> No positive culture, clinical diagnosis		13. Antibiotic resistance to initial positive culture 1 <input type="checkbox"/> Yes – (check all that apply) 1 <input type="checkbox"/> INH 2 <input type="checkbox"/> SM 3 <input type="checkbox"/> EMB 4 <input type="checkbox"/> RMP 5 <input type="checkbox"/> PZA 8 <input type="checkbox"/> Other (specify) _____ 2 <input type="checkbox"/> No 9 <input type="checkbox"/> Unknown					14. Date Treatment Started Year [] [] [] [] Month [] [] Day [] []							
15. Initial Drugs Prescribed (check all boxes that apply) 1 <input type="checkbox"/> INH 2 <input type="checkbox"/> SM 3 <input type="checkbox"/> EMB 4 <input type="checkbox"/> RMP 5 <input type="checkbox"/> PZA 8 <input type="checkbox"/> Other (specify) _____ 7 <input type="checkbox"/> No drugs prescribed 9 <input type="checkbox"/> Unknown							16. Case Finding 1 <input type="checkbox"/> Symptoms compatible with site of diagnosis 2 <input type="checkbox"/> Incidental findings 3 <input type="checkbox"/> Post-mortem 4 <input type="checkbox"/> Contact investigation 5 <input type="checkbox"/> Post-landing surveillance 6 <input type="checkbox"/> Pre-landing immigration evaluation (in Canada) 7 <input type="checkbox"/> Occupational screening program 8 <input type="checkbox"/> Other screening 9 <input type="checkbox"/> Other (specify) _____ 10 <input type="checkbox"/> Unknown							
17. First episode of TB 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No If no: (a) Year of previous diagnosis _____ (b) Previous diagnosis occurred in: 1 <input type="checkbox"/> Canada 2 <input type="checkbox"/> Other Country: [] [] [] [] (c) Previous treatment with (check all antibiotics used): 1 <input type="checkbox"/> INH 2 <input type="checkbox"/> SM 3 <input type="checkbox"/> EMB 4 <input type="checkbox"/> RMP 5 <input type="checkbox"/> PZA 8 <input type="checkbox"/> Other (specify) _____					18. Patient died before completion of therapy 1 <input type="checkbox"/> Yes 1 <input type="checkbox"/> TB was the cause of death 2 <input type="checkbox"/> TB contributed to death but was not the underlying cause 3 <input type="checkbox"/> TB did not contribute to death but was an incidental finding Date of death Year [] [] [] [] Month [] [] Day [] [] 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Not applicable 9 <input type="checkbox"/> Unknown		19. HIV status 1 <input type="checkbox"/> Positive 2 <input type="checkbox"/> Negative 9 <input type="checkbox"/> Unknown							

HC/SC4398E (01-97)

DISPONIBLE EN FRANÇAIS

APPENDIX 3

TECHNICAL NOTES

METHODOLOGY AND DATA QUALITY REPORT

Data Collection

The Canadian Tuberculosis Reporting System (CTBRS) maintained by Tuberculosis Prevention and Control at the Centre for Infectious Disease Prevention and Control, Health Canada, is derived from records of provincial/territorial tuberculosis registries, upon which the tuberculosis control system in each jurisdiction is based. The reporting system is designed to capture information on every new active or relapsed case of tuberculosis occurring in Canadian residents and visitors. All provinces and territories have legislation requiring physicians, laboratories and other health officials to report cases of tuberculosis to an office of tuberculosis control. In most provinces and territories, information on cases is collected using a standard notification form (see Appendix 2), and reported to Tuberculosis Prevention and Control annually.

Information is included on age, sex, residence, aboriginal status, country of birth, diagnosis, and bacteriological status. The Canadian Tuberculosis Control Committee is responsible for determining the content of the database. Recent revisions have resulted in the inclusion of more detail on high risk populations, methods of detecting cases, antibiotic resistance, treatment date, drugs prescribed, previous TB history and, for deceased persons, information on cause and date of death.

Case reports are completed in the provincial/territorial registries, where codes are entered for diagnosis (using the ICD-9), residence, birthplace and other items. Some provinces have computerized their data, and four provinces currently send data in electronic form.

Data Processing

Case notifications received at Tuberculosis Prevention and Control are logged, checked for completeness and reasonableness, and filed. Data are captured in a standard format on computer, with validity and correlation edits being an integral part of the data entry program. Lists of cases together with any queries arising from edit failures are returned to provincial/territorial directors for review, correction of errors and ascertainment of completeness of case lists for the year.

Calculation of Rates

The rates used in this report have been calculated using population figures provided by the Demography Division of Statistics Canada and Indian and Northern Affairs Canada (see Appendices 1A and 1B). The population estimates have been adjusted for net census undercoverage and include non-permanent residents. For more information, see "Population Figures" in the Definitions of Terms section and reference⁽¹⁾. Because of adjustment of the

population estimates and updates to the reported number of cases in some provinces, case counts and rates appearing in this report may differ slightly from those in previous reports.

Data Quality

Several aspects of data quality affect the usefulness of the data: completeness of reporting (or coverage), completeness of item response, accuracy or validity of responses and timeliness.

Coverage of the tuberculosis reporting system has not been explicitly reviewed at the national level, although there is some evidence that coverage can vary according to the vigilance of the provincial/territorial offices of tuberculosis control in their case-finding efforts.

One form of coverage error may occur if cases that do not meet the criteria for inclusion with regard to case definition or resident status in Canada are included in the national system. Also, tabulations in annual reports may be slightly incomplete because case notifications received after a cut-off date are not included. In this report, the data for 1996 differ slightly from those presented in previous reports. The changes result from updates to the reported case files.

Of the cases reported to Tuberculosis Prevention and Control, reporting of most core data items is virtually complete. Reporting is less complete for some of the data items introduced in 1997.

Some limitations should be kept in mind when using and interpreting the data. For the variable referring to "origin", the definitions of "Registered Indian", "Unregistered Indian or Métis", "Inuit" and "Other" as reported on the case notification forms may not strictly correspond to the definitions used by the Census or by Indian and Northern Affairs Canada in estimating corresponding populations. Also the terms "new active" and "relapsed" may be interpreted differently in different provinces/territories; the definitions of these terms were revised effective January 1, 1997 (see Definitions of Terms).

In addition, while data in this report are generally tabulated according to year of diagnosis, since 1990, Ontario data have been tabulated according to episode date (which is the closest approximation of date of onset of illness). Since 1997, Quebec dates have been tabulated according to report date.

Other Sources of Information

In addition to these annual data on new active and relapsed cases of tuberculosis in Canada, the numbers of tuberculosis cases are presented monthly, based on date of diagnosis, by province, age group and sex as part of the "Notifiable Disease Summary" appearing in the *Canada Communicable Disease Report*.

While the latter series provides useful current information, the consolidated annual data on new and relapsed cases appearing in this report must be considered the more authoritative source of information on tuberculosis in Canada.

DEFINITION OF TERMS

Tuberculosis Registry

The central organization within a province/territory that receives, records and accumulates information on and follows up all reported cases of tuberculosis, and maintains a register of persons with tuberculosis.

Notification

The receipt of a report concerning a new active or relapsed case of tuberculosis meeting the tuberculosis case definition.

Tuberculosis Case Definition

Effective January 1, 1997:

I TB Case Definition in the Canadian Tuberculosis reporting system

- a. Cases with *Mycobacterium tuberculosis* complex (i.e. *M. tuberculosis*, *M. bovis* [excluding BCG strain] or *M. africanum*) demonstrated on culture

OR

- b. In the absence of bacteriological proof, cases clinically compatible with active tuberculosis that have, for example:
- i chest x-ray changes compatible with active tuberculosis including idiopathic pleurisy with effusion
 - ii active extrapulmonary tuberculosis (meningeal, bone, kidney, peripheral lymph nodes etc.)
 - iii pathologic or post-mortem evidence of active tuberculosis

Note: Molecular biological techniques are research tools and are not included in the definition.

II Cases of tuberculosis diagnosed in Canada include all cases: Canadian born, immigrants, refugees, refugee claimants, students, visitors, migrant workers and illegal aliens.

Visitors = those non-Canadians travelling with or without a visa, stopping in Canada en route

III New and Relapsed (Reactivated) Cases of Tuberculosis

New Case: No documented evidence or history of previously active tuberculosis.

Relapsed (Reactivated) Case: Documented evidence or history of previously active tuberculosis which became inactive.

Inactive tuberculosis:

- a. Cultures for *Mycobacterium tuberculosis* negative for at least six months

OR

- b. In the absence of cultures, chest (or other) x-rays, stable for a minimum of six months.

Diagnostic Classification

The classification used is the *International Classification of Diseases, 9th Edition*. Up to five diagnoses per case are captured and presented as Main Diagnostic Site using the following hierarchy: Primary, Miliary, Respiration (includes Pulmonary Pleurisy and other respiratory), Meninges and CNS, Peripheral Lymph Node and Other Sites. Based on this classification, a case can have more than one diagnosis.

Deaths

This report contains statistics on deaths from the Canadian Tuberculosis Reporting System, which introduced new questions in 1990 concerning deaths of persons registered as cases of active tuberculosis. These statistics are shown in Tables 23 and 24 and are based on the patient's status at time of reporting (for Ontario they are based on "episode date").

Population Figures

In 1993, Statistics Canada introduced a new series of population estimates that include non-permanent residents and adjustments for net census undercoverage. The series for provinces and territories comprises annual population estimates beginning with 1971.

In this report the 1997 overall population estimates for Canada and provinces/territories by sex and age group are based on adjusted 1996 census data.

Population estimates of Canadian-born Aboriginal people are based on Projections of Population with Aboriginal Ancestry, Canada, Provinces/Regions and Territories, 1991-2016 (Statistics Canada), and Population Projections of Registered Indians, 1991-2015 (Indian and Northern Affairs Canada).

Population estimates of Foreign-born people by birthplace are based on 1996 Census data (Statistics Canada).

The 1996 population estimates of total Canadian-born people are calculated by subtracting the foreign-born census (1996) figures from 1996 population estimates (Statistic Canada).

The 1996 population estimates of Canadian-born non-Aboriginal people are calculated by subtracting the total Aboriginal estimates from total Canadian-born estimates.

Population

Persons whose usual place of residence is somewhere in Canada or who are non-permanent residents. In census years this is the enumerated population adjusted for net census undercoverage, while population estimates are used for intercensal years.

Non-permanent residents

The following five groups of persons residing in Canada, referred to globally as "non-permanent residents", were added to the census population universe in 1991: persons claiming refugee status, persons holding a student authorization, persons holding an employment authorization, persons holding a minister's permit and all non-Canadian-born dependants of the aforementioned individuals.

Net census undercoverage

The difference between census undercoverage and census overcoverage. The former refers to persons not enumerated in the census but who were part of the census universe, while the latter refers to persons either enumerated more than once or enumerated but not part of the census universe. Undercoverage exceeds overcoverage with few exceptions at all levels of demographic and geographic disaggregation.

More Information

More information on definitions used and coding instructions is available upon request from Tuberculosis Prevention and Control, Population and Public Health Branch at Health Canada. Medical terminology regarding bacteriological aspects, diagnosis, dissemination, treatment, prevention, screening and control of tuberculosis is well documented in *Canadian Tuberculosis Standards, Fourth Edition, 1996*, available from the Canadian Lung Association⁽²⁾.

References

- (1) *Annual Demographic Statistics*. Statistics Canada Catalogue 91-213.
- (2) *Canadian Tuberculosis Standards, Fourth Edition*. Canadian Lung Association, Ottawa, 1996.