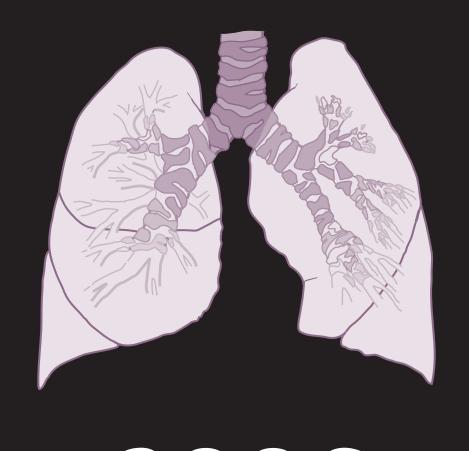
TUBERCULOSIS IN CANADA



2006

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Telephone: (613) 941-0238 Facsimile: (613) 946-3902 EMAIL: TB 1@ phac-aspc.gc.ca

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This report was prepared by:

Edward Ellis, MD, MPH, FRCPC Manager **Tuberculosis Prevention and Control**

Victor Gallant, MA Tuberculosis Database Manager **Tuberculosis Prevention and Control**

Andrea Saunders, RN, BScN, MSc Epidemiologist

Tuberculosis Prevention and Control

Kathryn Dawson Surveillance Officer **Tuberculosis Prevention and Control**

Melissa Phypers, MSc, MPA Senior Epidemiologist **Tuberculosis Prevention and Control**

Derek Scholten, MSc Senior Epidemiologist **Tuberculosis Prevention and Control**

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TUBERCULOSIS IN CANADA

2006

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EXECUTIVE SUMMARY

In 2006, 1,619 cases (5.0 per 100,000) of new active and relapsed tuberculosis (TB) were reported to the Canadian Tuberculosis Reporting System (CTBRS). The highest rate, 157.9 per 100,000 population, was reported from Nunavut. There were no TB cases reported in Prince Edward Island. British Columbia, Ontario and Quebec made up 76% of Canada's population and accounted for 73% of the total reported cases.

Individuals between the ages of 35 and 44 years made up the largest number of reported cases, accounting for 17% of the total. However, the corresponding case rate of 5.6 per 100 000 for this age group was surpassed by the age-specific rates of 7.2 and 10.6 per 100,000 for those in the older age groups of 65 to 74 years, and greater than 74 years, respectively.

In 2006, TB among foreign-born individuals accounted for 64% of all reported cases. Canadian-born non-Aboriginal and Canadian-born Aboriginal cases made up 12% and 20%, respectively. Birthplace was unknown for 3% of cases.

Pulmonary TB, defined as TB of the lungs and conducting airways, was the most frequently reported main diagnostic site, representing 62% of all reported cases in 2006. TB of the peripheral lymph nodes accounted for 15% of all cases and was the second most commonly reported diagnostic site.

Of the 1,619 cases reported in 2006, 1,315 cases were culture positive of which 1,248 had TB drug resistance information reported. Of these, 1,135 (91%) had no resistance to first-line anti-TB drugs, 8% percent were monoresistant and the remaining 1% showed patterns of resistance to two or more drugs. The most common type of monoresistance was to isoniazid (INH) accounting for 67% of all reported resistance. Multidrug-resistant TB (defined as resistance to at least isoniazid and rifampin) accounted for 11% of all resistant cases. No cases diagnosed in 2006 were reported to be extensively drug-resistant TB (XDR –TB).

For 1,642 TB cases initially reported in 2005, 1,468 cases had treatment outcomes reported to the CTBRS in 2006. A total of 1,217 (83%) cases with known outcomes were reported as being cured (culture-negative) or treatment completed.

For the 2005 cases as reported from both their case report form and on their 2006 outcome form, 123 (7%) died before or during their treatment. TB was the cause of or contributed to 61% of those deaths.

For the cases diagnosed in 2006, 111 of the 1,619 cases were reported to have died before or during their treatment. TB contributed to or was the cause of death in 62% of the cases. It should be noted that the number of reported TB related deaths for 2006 is an underestimate as it includes only known deaths occurring in the same year as the diagnosis at the time of reporting.

The majority of individuals placed on TB drug therapy in Canada received treatment as per the *Canadian Tuberculosis Standards*¹. Of the cases where the treatment final regime was reported over eighty percent of these cases received three or more anti-tuberculosis drugs.

¹ Long R, Ellis E, editors, *Canadian Tuberculosis Standards*, 6th ed. Ottawa: Public Health Agency of Canada and the Canadian Lung Association/Canadian Thoracic Society; 2007.

The total number of reported cases of TB in Canada has shown a general decrease over the past decade. However, this decrease is mostly a reflection of a decreasing number of cases in the Canadian-born non-Aboriginal population. The number of cases in the Canadian-born Aboriginal and foreign-born populations has shown a minimal decrease. Generally, the TB incidence rate has been slowly declining among Canadian-born non-Aboriginal and foreign-born populations, (the latter due to a significant increase in the total foreign-born population in Canada). However, no significant TB incidence rate change has occurred in the Canadian born Aboriginal population. While the overall incidence rate has shown a slow but steady decline over most of the decade, it has stabilized at 5.0-5.1 per 100,000 population between 2003 and 2006.

INTRODUCTION

The 2006 Tuberculosis in Canada annual report is a publication of Tuberculosis Prevention and Control (TBPC), Public Health Agency of Canada (PHAC). Reports of new active and relapsed tuberculosis cases come to TBPC through the Canadian Tuberculosis Reporting System (CTBRS) from the ten provinces and three territories.

TBPC stores and maintains surveillance reports on tuberculosis (TB) in Canada from the early 1920s. In 1994, responsibility for the CTBRS was transferred from Statistics Canada to Health Canada. In September 2004, TBPC became part of the PHAC and assumed responsibility for the annual reporting.

The report contains the overall TB case counts and incidence rates as well as data on selected demographic and clinical characteristics. The report describes information on the following for TB cases:

- province/territory
- sex
- age
- birthplace
- new and relapsed² cases
- main diagnostic site
- bacterial status
- method of detection
- immigration status
- HIV status
- patterns of drug resistance
- treatment outcomes
- drug regimens

Appendices to the report include data tables (*Appendix I*), technical notes on the methods (*Appendix II*), population estimates for 2006 (*Appendix III*) and the World Health Organization (WHO) estimated incidence of TB in the 22 high burden countries, 2006 (*Appendix IV*). Further appendices include the WHO TB epidemiological regions and the member countries (*Appendix V*), the WHO reporting form for 2006 cases (*Appendix VII*), Canadian case and treatment outcome reporting forms (*Appendix VIII*) and the members of the Canadian Tuberculosis Committee (*Appendix VIII*).

These annual reports have undergone and will continue to undergo revisions in format and content from year to year. The goal is to continue to adapt and improve this publication in response to changes in the epidemiology and clinical management of TB. Comments on the content and/or format of this document are always welcome.

² As of 2008, the CTBRS classifies all cases as new or re-treatment cases; see *Canadian Tuberculosis Standards*, 6th ed., Appendix C for complete definitions.

RESULTS

SECTION I - 2006 CASE REPORTING

NATIONAL TRENDS

Following a peak in the epidemic in the early 1940s, the reported incidence of TB has declined (Figure 1). Over the past two decades the number of reported cases and the corresponding incidence rate has generally continued to decrease (Figure 2; Table A); however the incidence rate has stabilized at approximately 5.0 per 100,000 population. In 2006, 1,619 cases of TB were reported to the CTBRS representing an incidence rate of 5.0 per 100,000 population. New active cases made up the majority of reported cases with a rate of 4.4 per 100,000 population; the rate of relapse was 0.4 per 100,000 population.

Table A
Incidence rate of tuberculosis in Canada: 1996-2006

Year	Number of reported cases	Crude rate per 100,000
1996	1,877	6.3
1997	1,994	6.7
1998	1,810	6.0
1999	1,820	6.0
2000	1,724	5.6
2001	1,773	5.7
2002	1,666	5.3
2003	1,631	5.1
2004	1,613	5.0
2005	1,642	5.1
2006	1,619	5.0

GEOGRAPHIC DISTRIBUTION

Several jurisdictions reported incidence rates below the national rate. TB incidence remained lowest in the Atlantic provinces (New Brunswick, Newfoundland and Labrador, Nova Scotia and Prince Edward Island) and was highest in Nunavut (Table B, Figure 3).

Figure 1
Tuberculosis incidence and mortality rates – Canada: 1924-2006

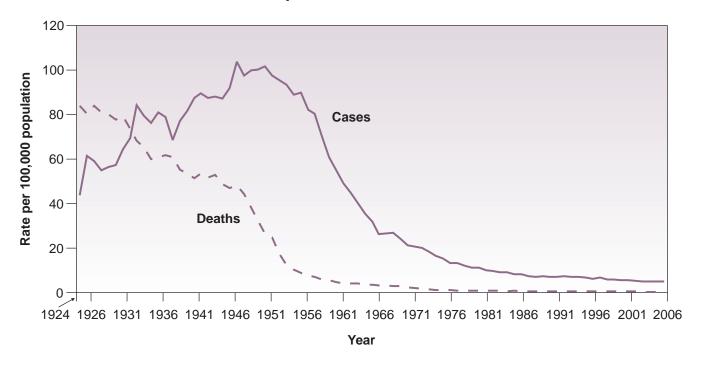


Figure 2
Tuberculosis cases and incidence rates – Canada: 1986-2006

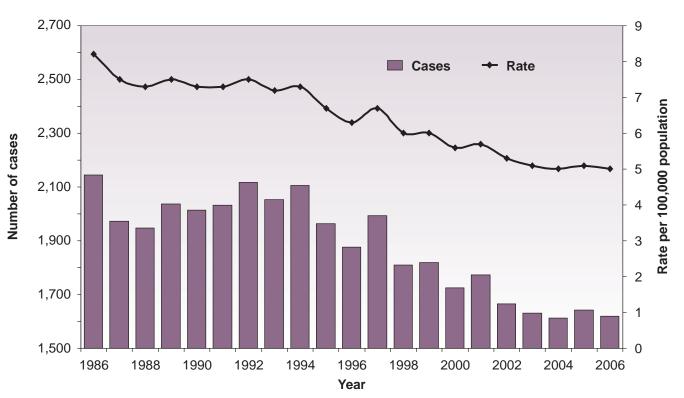
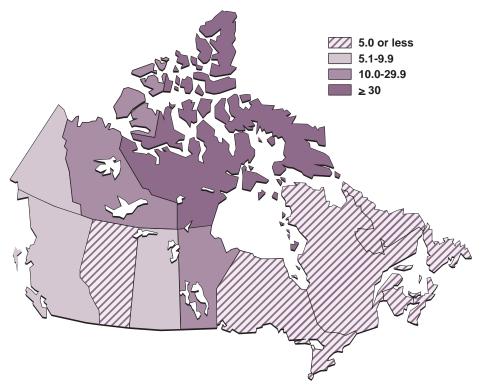


Table B
Ranked tuberculosis incidence in Canada – provinces/territories: 2006

Reporting province or territory	Abbreviation	Incidence rate per 100,000
Nunavut	Nvt.	157.9
Northwest Territories	N.W.T.	14.2
Manitoba	Man.	11.4
Yukon	Y.T.	9.6
Saskatchewan	Sask.	8.8
British Columbia	B.C.	7.4
Ontario	Ont.	5.0
Alberta	Alta.	3.9
Quebec	Que.	3.0
Newfoundland and Labrador	N.L.	2.4
Nova Scotia	N.S.	1.1
New Brunswick	N.B.	0.3
Prince Edward Island	P.E.I.	0.0
CANADA		5.0

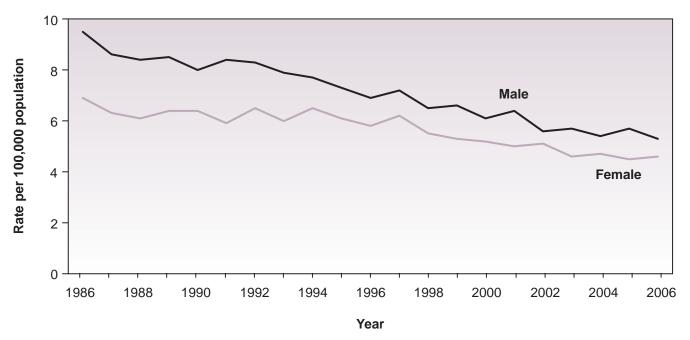
Figure 3
Tuberculosis incidence rate by province/territory as compared with national rate (5.0 per 100,000): 2006



SEX AND AGE GROUP DISTRIBUTION

Over the past two decades, incidence rates of TB in males and females have followed similar patterns of decline. While case reporting and incidence rates have always been higher in males, there has been a gradual decrease in the differential between males and females. However, in 2006, males continue to account for the larger number of reported cases (864 cases, 5.3 per 100,000 population) when compared with females (755 cases, 4.6 per 100,000 population) (Figure 4; *Appendix I*, Tables 2B and 2C).

Figure 4
Tuberculosis incidence rate by sex – Canada: 1986-2006



Individuals between the ages of 35 and 44 years of age made up the largest number of reported cases representing 17% of the total. However, the age-specific rates of 7.2 and 10.6 per 100,000 for those in the older age groups of 65 to 74 years, and 75 years and older, respectively, remain the highest rates for all age groups (Figure 5; *Appendix I*, Table 2A).

By age group and sex, the incidence rate of TB was similar in males and females for all age groups with the exception of those aged 75 and older. The incidence rate for males 75 years and older was a little over 2 times the rate for similarly aged females (Figure 6; *Appendix I*, Tables 5B and 5C).

BIRTHPLACE DISTRIBUTION

Foreign-born cases continue to represent the greatest percentage of the overall case count when compared with Canadian-born non-Aboriginal and Canadian-born Aboriginal. In 2006, the percentages of foreign-born cases, Canadian-born Aboriginal cases and Canadian-born non-Aboriginal cases were 64%, 20% and 12%, respectively. Origin was unknown for 3% of the cases (Figure 7; *Appendix I*, Table 3).

The total number of reported cases of TB in Canada has shown a general decrease over the past decade. However, this decrease is mostly a reflection of a decreasing number of cases in the Canadian-born non-Aboriginal population. The number of cases in the Canadian-born Aboriginal and foreign-born populations has shown a minimal decrease (Figure 8; *Appendix I*, Table 3).

Figure 5
Tuberculosis incidence rate by age group – Canada: 2006

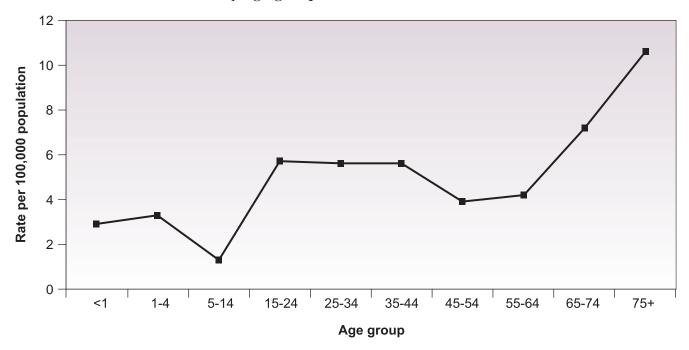
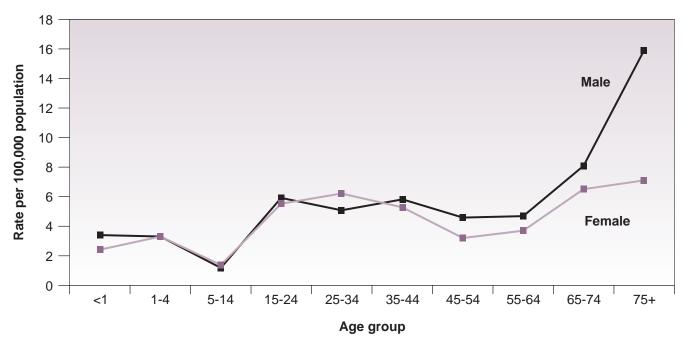
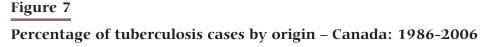
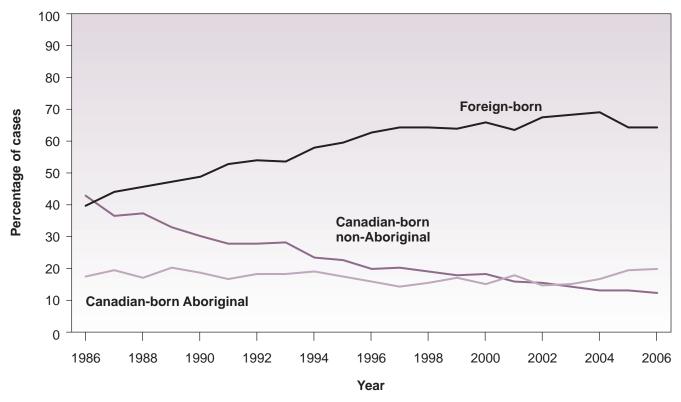


Figure 6
Tuberculosis incidence rate by age group and sex – Canada: 2006







Generally, the TB incidence rate has been slowly declining among Canadian-born non-Aboriginal and foreign-born populations. The foreign-born rate of 14.8 per 100,000 population in 2006 was the lowest such rate ever reported for this group in Canada. However, no significant TB incidence rate change occurred in the Canadian-born Aboriginal population over the decade (Figure 9; *Appendix I*, Table 6).

The highest percentage of foreign-born cases (36%) were between the ages of 25 and 44. Of the Canadian-born non-Aboriginal 21% of the cases were 75 years of age or older. Twenty-two percent of the Canadian-born Aboriginal cases were between the ages of 15 to 24 (Figure 10; *Appendix I*, Table 8). For Canadian-born non-Aboriginal cases, the median age was 55 years whereas for the foreign-born, the median age was 43 years. For the Canadian-born Aboriginal cases the median age was 32 years.

Foreign-born cases accounted for 64% of the total number of cases reported in Canada in 2006. Alberta, British Columbia and Ontario reported the highest percentage of foreign-born cases (70%, 72% and 84%, respectively). In New Brunswick 50% of the cases were foreign born and in Nova Scotia, 40% of the cases were foreign-born. In Quebec foreign-born cases accounted for 63% of the reported cases (Table 6). For the remaining provinces/territories foreign-born cases accounted for fewer than 20% of the total case count.

Canadian-born Aboriginal cases accounted for 20% of all cases reported in Canada. In Saskatchewan and the North (which includes Northwest Territories, Nunavut and Yukon), Canadian-born Aboriginal peoples accounted for over 88% of reported cases. In Manitoba, Canadian-born Aboriginals made up 72% of the cases (Figure 11; Table C; Appendix I, Table 6).

Figure 8

Number of tuberculosis cases by origin – Canada: 1986-2006

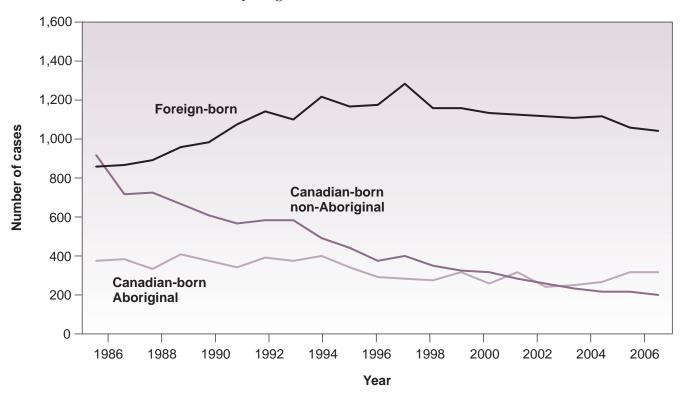


Figure 9
Tuberculosis incidence rate by origin – Canada: 1996-2006

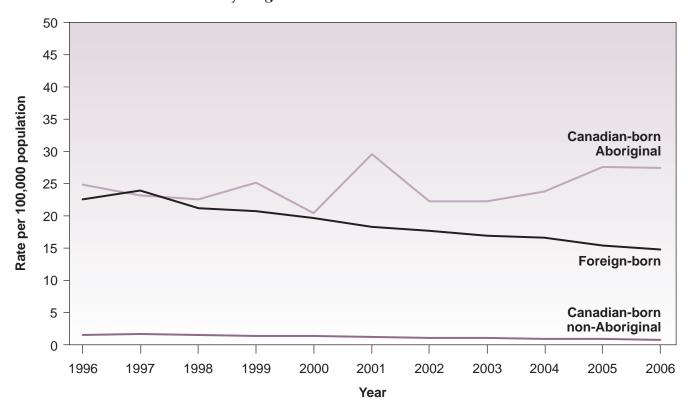


Figure 10
Proportion of tuberculosis cases by age group and origin – Canada: 2006

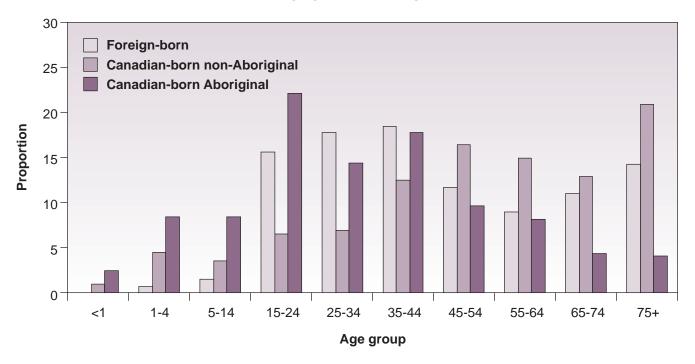
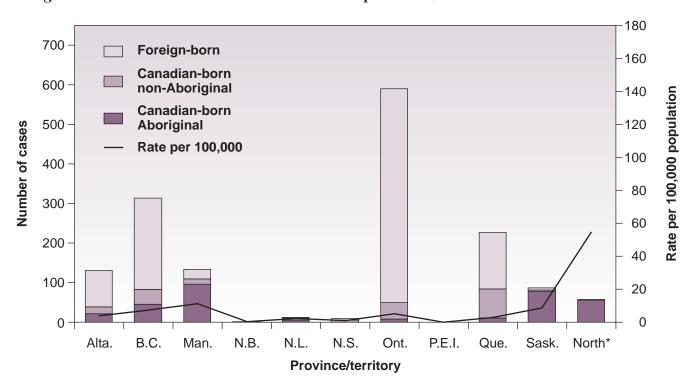


Figure 11
Origin of TB cases and overall incidence rate – provinces/territories: 2006



^{*} Includes Northwest Territories, Nunavut and Yukon Territory.

Table C

Percentage of tuberculosis cases in Canada by origin – provinces/territories: 2006

Reporting province or territory	Canadian-born non-Aboriginal	Canadian-born Aboriginal	Foreign-born	Unknown birthplace
Alberta	13.7	16.0	70.2	0.0
British Columbia	11.6	14.4	72.4	1.6
Manitoba	10.4	71.6	17.9	0.0
New Brunswick	50.0	0.0	50.0	0.0
Newfoundland and Labrador	50.0	41.7	8.3	0.0
Nova Scotia	50.0	0.0	40.0	10.0
North*	1.8	98.2	0.0	0.0
Ontario	6.6	1.3	84.4	7.8
Prince Edward Island	-	-	-	-
Quebec	32.2	4.8	63.0	0.0
Saskatchewan	4.6	88.5	6.9	0.0
Canada	12.4	19.8	64.4	3.5

Note: Totals may not always equal 100 due to rounding.

When analyzed according to the STOP-TB Partnership/WHO TB epidemiological regions, the highest number of foreign-born cases originated in the Western Pacific Region (404 cases; 24.5 per 100,000). However, the highest incidence rate (52.4 per 100,000 population) was among individuals from the Africa-High HIV-Prevalence Region, (AFR-High). Table D shows the foreign-born TB incidence rate in Canada by WHO region of birth compared with the WHO estimated TB incidence rate for that region. Figure 12 shows the percentage of foreign-born TB by Region, reported in Canada between 1996 and 2006.

^{*}Includes Northwest Territories, Nunavut and Yukon Territory.

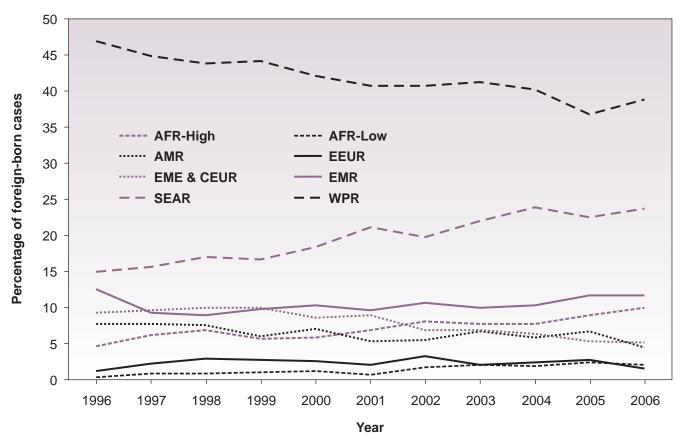
Table D

Comparison of the reported foreign-born tuberculosis incidence rate in Canada by STOP-TB Partnership/WHO TB epidemiological regions of birth (per 100,000 population) with WHO estimated tuberculosis incidence rate in the respective region

WHO regions*	Reported rate in Canada, 2006	WHO estimate TB incidence rate in regions, 2006**
Africa, High HIV Prevalence, (AFR High)	52.4	414
Africa, Low HIV Prevalence, (AFR Low)	20.5	217
American Region (AMR) - Latin American Countries (LAC)	6.0	56
Eastern Europe (EEUR)	5.1	91
Eastern Mediterranean (EMR)	17.8	104
Established Market Economies (EME) and Central Europe (CEUR)	2.0	12
South-East Asia (SEAR)	35.6	180
Western Pacific (WPR)	24.5	117
Overall	14.8	139

^{*} Source: The Stop TB Partnership and World Health Organization. *Global Plan to Stop TB 2006–2015*. Geneva, World Health Organization, 2006 (WHO/HTM/STB/2006.35).

Figure 12
Percentage of foreign-born tuberculosis cases by STOP-TB Partnership/WHO TB epidemiological regions – Canada: 1996-2006



^{**} Source: Global tuberculosis control: surveillance, planning, financing, WHO report 2007. Geneva, World Health Organization (WHO/HTM/TB/2006.362).

DIAGNOSTIC DETAILS

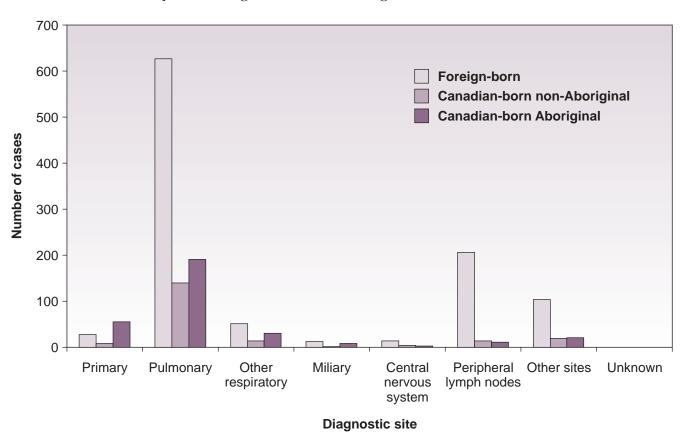
Pulmonary tuberculosis, which includes tuberculosis of the lungs and conducting airways (see Technical Annex for complete definition), was the most frequently reported diagnostic site, accounting for 62% of reported cases in 2006 followed by tuberculosis of the peripheral lymph nodes which accounted for 15% of the reported cases. Nine percent of the cases were classified as "other", which includes: tuberculosis of the intestines, peritoneum and mesenteric glands, bones and joints, genitourinary system, skin, eye, ear, thyroid, adrenal, and spleen (*Appendix I*, Table 4).

Of the 201 Canadian-born non-Aboriginal cases, 70% were diagnosed with pulmonary TB whereas this percentage was lower for both Canadian-born Aboriginal cases (60%) and foreign-born cases (60%). Twenty-percent of the foreign-born cases were diagnosed with TB of the peripheral lymph nodes compared with 3% of the Canadian-born Aboriginal cases and 7% of the Canadian-born non-Aboriginal cases (*Appendix I*, Table 10).

There were a total of 91 cases of primary TB. Sixty-two percent of these cases were reported in the Canadian-born Aboriginal population and represented 18% of the total number of Aboriginal cases.

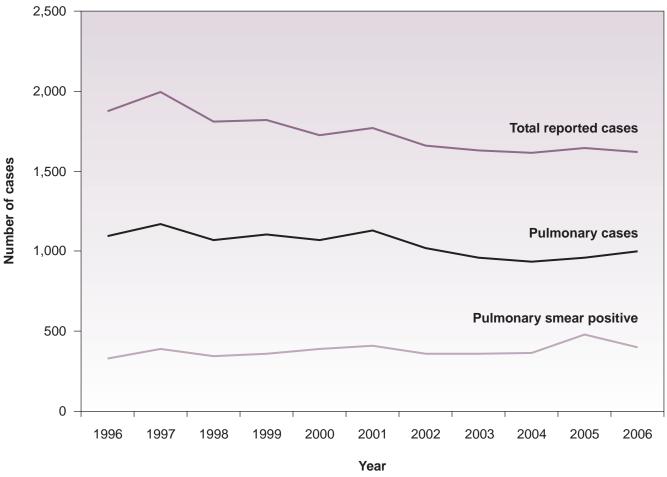
TB of the central nervous system (CNS) was rare, accounting for only 21 (1%) of all reported cases. Similarly, miliary/disseminated TB was infrequently diagnosed, representing 22 (1%) of the reported cases (Figure 13; *Appendix I*, Table 10).

Figure 13
Tuberculosis cases by main diagnostic site and origin – Canada: 2006



Of the 999 cases of pulmonary TB reported, smear status was available for 787 cases. Of these, 51% (402 cases) were smear-positive (sputum was obtained from direct collection, through bronchoscopy or gastric aspirate). A smear positive diagnosis denotes the most infectious form of pulmonary TB. Figure 14 shows the relationship between the total number of cases reported, the number of cases that were pulmonary and of those, the number that were pulmonary and smear-positive for the years 1996 to 2006.

Figure 14
Pulmonary sputum smear positive tuberculosis cases – Canada: 1996-2006



CASE DETECTION

The majority of cases (75%) were diagnosed when the patient presented with symptoms to a medical professional (Appendix I, Table 17). Overall, the percentage of all cases identified through contact tracing was < 10.0%; however 36% of cases in the Aboriginal population were identified by this method.

DEATHS

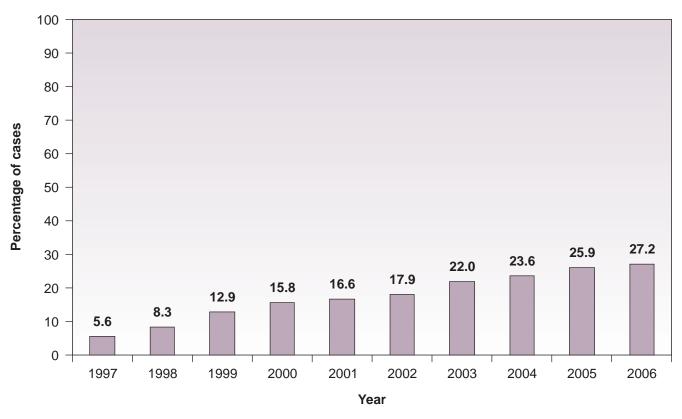
Including the data available with the outcome reports, of the 1,642 cases diagnosed in 2005, 123 (7%) were reported to have died before or during treatment. Of the 123 deaths TB was reported as the underlying cause of death for 21 cases (17%). TB contributed to death, but was not the underlying cause for 54 cases (44%). Cause of death was not reported for 4 cases (*Appendix I*, Tables 21 and 22).

Of the 1,619 new and relapsed cases diagnosed in 2006, 111 were reported to have died in 2006. Of these, TB was reported as the underlying cause of death for 20 cases (18%). TB contributed to death, but was not the underlying cause for 49 cases (44%). Cause of death was not reported for 9 cases (*Appendix I*, Tables 21 and 22). The total number of cases that died and were diagnosed in 2006 will be updated in the 2007 report to account for deaths reported on the outcome forms.

HIV STATUS

HIV status was reported for 441 cases (27%) (Figure 15; *Appendix I, Table 23*). Of these, 62 (14%) were HIV-positive.

Figure 15
Percentage of tuberculosis cases for which HIV status was reported – Canada: 1997-2006



PATTERNS OF DRUG RESISTANCE

Of the 1,619 cases reported in 2006, 1,315 cases were culture positive. Of these, resistance information was available for 1,248 cases. Ninety-one percent of the cases showed no resistance to first-line anti-TB drugs (isoniazid, rifampin, ethambutol or pyrazinamide)³, 8% percent were resistant to one drug and the remaining 1% showed patterns of resistance to two or more drugs prescribed.

³ As of 2005, streptomycin was considered a second-line TB antibiotic in Canada, even though it may be used for initial treatment.

For the 113 cases that were resistant to at least one drug, 84% were monoresistant. Eleven percent of resistant cases were multidrug-resistant (MDR) which is defined as resistance to at least isoniazid and rifampin. The remaining 5% of the resistant cases were poly-resistant. Cases monoresistant to isoniazid accounted for 67% of all reported resistance. For those diagnosed in 2006, no cases were reported to be extensively-drug resistant (XDR-TB).

Foreign-born cases accounted for 80% of the 113 resistance cases and 100% of the MDR-TB cases. Thirteen percent of the resistant cases were in the Canadian-born non-Aboriginal cases and five percent were in the Canadian-born Aboriginal cases (*Appendix I, Table 15*).

⁴ Extensively drug-resistant (XDR) TB is resistant to at least isoniazid and rifampin from among the first-line anti-TB drugs, plus resistance to any fluoroquinolone and to at least one of three injectable second-line drugs (capreomycin, kanamycin and amikacin). For additional information on drug resistance, please refer to Tuberculosis: Drug resistance in Canada, 2006 (www.phacaspc.gc.ca/publicat/tbdrc06/index.html) which reported drug susceptibility results for *Mycobacterium* isolates tested in 2006.

SECTION II - 2005 TREATMENT OUTCOMES

NATIONAL TRENDS

Treatment outcome data for new active and relapsed cases reported in the previous year are submitted to TBPC using a separate reporting form (*Appendix VII* – Reporting forms). For the 1642 cases reported in 2005, 1,468 cases had treatment outcomes reported to the CTBRS. For the outcomes that were reported, the majority of cases (83%) were reported as cured or as treatment completed without culture at the end of treatment (1,217 cases). Of the remaining cases for which treatment outcome was known, 123 (7%) died prior to completing treatment.

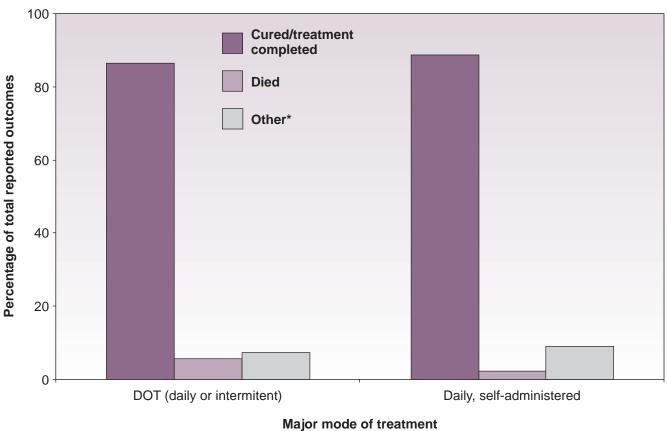
The majority of individuals were reported to have received treatment as per the *Canadian Tuberculosis Standards*, *6th edition*^{5.}. Drug regimen reporting was complete for 952 cases. Almost eighty percent of these cases received three or more anti-tuberculosis drugs (*Appendix I*, Table 25).

For 1,421 patients for whom mode of treatment was reported, 56% were on Directly Observed Therapy (DOT). An additional 38% self-administered their medications. Eighty-six percent of those patients on DOT and 88% who self-administered were reported to have been cured or to have completed treatment (Figure 16).

20

⁵ Long R, Ellis E, editors, *Canadian Tuberculosis Standards*, 6th ed. Ottawa: Public Health Agency of Canada and the Canadian Lung Association/Canadian Thoracic Society; 2007.

Figure 16 Treatment outcome status of tuberculosis cases by major mode of treatment – 2005



^{*} Other: absconded, transferred, treatment ongoing, unknown

SECTION III - MEASURING PROGRESS TOWARDS NATIONAL TARGETS

In 1997, the National Consensus Conference on Tuberculosis recommended that the Canadian goal of TB prevention and control should be to reduce the annual number of TB cases (new and relapsed) by five percent annually. The overall average rate of change of such cases between 1996 to 2006 was 2.6% (see Table E).

Table E

Average rate of change in the number of cases and in incidence rate for new and relapsed TB cases in Canada: 1996–2006

Damantin a vocan	Number of	Datas	Rate of c	hange (%)
Reporting year	reported cases	Rates —	Case	Rate
1996	1,877	6.3		
1997	1,994	6.7	↑ 6.2	^ 6.4
1998	1,810	6.0	↓ 9.2	↓ 10.4
1999	1,820	6.0	↑ 0.6	↓ o
2000	1,724	5.6	↓ 5.3	↓ 6.7
2001	1,773	5.7	↑2.8	↑ 1.8
2002	1,666	5.3	↓ 6.0	↓ 7.0
2003	1,631	5.1	↓ 2.1	↓ 3.8
2004	1,613	5.0	↓ 1.1	↓ 2.0
2005	1,642	5.1	↑1.8	↑ 2.0
2006	1,619	5.0	↓ 1.4	↓ 2.0
		Average rate of change	↓ 1.4	↓ 2.3

In 2006, the Canadian Tuberculosis Committee⁶ (CTC) reviewed this national goal in view of the targets set in the *Global Plan to Stop TB 2006–2015*⁷ to reduce the global burden of TB disease in 2015 by 50% relative to 1990 levels. The CTC recommended a target Canadian TB (new and relapsed) incidence rate of 3.6 per 100,000 population (or less) by 2015. This represents one half of the disease burden in Canada as compared to the 1990 incidence rate. Achieving this goal will require a 3.5 per cent annual reduction in the incidence rate between 2006 and 2015.

⁶ For information on the membership and terms of reference for the Canadian Tuberculosis Committee please see http://www.phac-aspc.gc.ca/tbpc-latb/ctc-ccla/index.html.

⁷ Stop TB Partnership and World Health Organization. *Global Plan to Stop TB 2006–2015*. Geneva, World Health Organization, 2006 (WHO/HTM/STB/2006.35).

The *Canadian Tuberculosis Standards*, 6th edition has set program performance standards for the ideal anti-tuberculous drug regimen and its delivery. These standards require that at a minimum treatment:

- convert sputum cultures to negative after 4 months of treatment;
- achieve re-treatment rates of less than 3% within 2 years following cessation of treatment;
- achieve acquired drug resistance rates of 0%;
- be cost-effective (since DOT is the optimal mode of drug delivery, intermittent regimens of 120 doses [9 months] or 95 doses [6 months] are recommended);
- be tolerated by the patient (< 5% of patients will discontinue or modify therapy because of adverse effects); and
- achieve at least a 90% cure (negative sputum culture at the end of treatment) or treatment completion (treatment completed but no sputum culture at the end of treatment) rate within 12 months of starting treatment for patients who did not die or transfer out during treatment.

The CTBRS contains data that can approximate measuring progress towards achieving some of these standards for the entire cohort of TB cases reported in Canada.

In 2005, after removing the patients who died or who transferred out of the region there were 1,217 patients who were deemed cured or completed treatment representing 82% of cases. There were 174 cases for whom an outcome result was not reported.

Between 2000 and 2005 there were 766 relapsed cases representing 8% of all the cases report during that period. Of these relapsed cases, 333 (43%) were known to have been previously diagnosed in Canada. The date of previous diagnosis date was reported for 277 (83%) cases, 44 (16%) of whom were diagnosed within 2 years of the previous episode. The rate of relapse within two years of cessation of treatment, for cases previously diagnosed in Canada was therefore extremely low, averaging less than one percent of all reported cases for the last five years of reporting (2000 – 2005).

REPORTING SECTION IV - INTERNATIONAL

outcome of these cases by major mode of treatment (e.g., DOTS or non-DOTS). The WHO global targets for TB include 70% detection of PHAC provides data to the WHO on an annual basis. This reporting focuses only on pulmonary smear positive cases and the treatment all pulmonary smear positive cases and of these cases an 85% cure or treatment completion rate. Table F provides the reported treatment outcome data for laboratory confirmed pulmonary cases in Canada between 1998 and 2005, inclusive. Laboratoryconfirmed cases include smear-positive cases plus any cases confirmed by additional laboratory methods.

Treatment outcome of laboratory confirmed pulmonary cases, Canada: 1998-20058

Table F

	19	1998	19	1999	2000	00	2001	01	2002	02	2003)3	2004	04	2005)5
Treatement outcome	DOTS	Non- DOTS	DOTS	Non- DOTS	DOTS	Non- DOTS	DOTS	Non- DOTS	DOTS	Non- DOTS	DOTS	Non- DOTS	DOTS	Non- DOTS	DOTS	Non- DOTS
Total cohort registered for treatment	185	245	222	164	234	150	264	194	206	141	202	168	251	168	243	131
Cured	89	72	92	20	107	72	78	57	84	6	55	13	46	15	40	3
Completed	89	66	127	55	85	53	140	86	66	107	123	127	159	134	172	106
Cured or completed (% of total)	157 (85%)	171 (70%)	203 (91%)	125 (76%)	192 (82%)	125 (83%)	218 (83%)	155 (80%)	183 (89%)	116 (82%)	178 (88%)	140 (83%)	205 (82%)	149 (89%)	212 (87%)	109 (83%)
Died	8	28	9	24	22	10	26	23	11	13	17	17	27	8	10	6
Failed	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Defaulted	1	3	5	3	9	3	6	5	4	9	3	3	3	2	5	3
Transferred	2	20	2	5	1	8	3	10	2	4	2	5	5	3	9	9
Treatment ongoing	3	2	4	3	8	2	3	1	1	0	0	1	7	2	9	1
Unknown	14	21	2	4	3	2	5	0	5	2	2	2	4	4	4	3

Numbers may differ from Global Tuberculosis Control, WHO Report 2007 (which reports 2005 case data and 2004 treatment outcome data) due to late reporting of cases to the Public Health Agency of Canada.

CONCLUSION

The total number of reported cases of TB in Canada has shown a general decrease over the past two decades. However, this decrease is mostly a reflection of a decreasing number of cases in the Canadian-born non-Aboriginal population. The number of cases in the Canadian-born Aboriginal and foreign-born populations has shown a minimal decrease. Generally, the TB incidence rate has been slowly declining among Canadian-born non-Aboriginal and foreign-born populations, (the latter due to a significant increase in the total foreign-born population in Canada). However, no significant TB incidence rate change has occurred in the Canadian born Aboriginal population. The relatively high rate in the Aboriginal population continues to be a major concern, especially with the upward shift in the past two years.

Pulmonary tuberculosis makes up the majority of the cases reported in Canada. The number of sputum smear positive cases, currently 51%, has decreased very little over the past ten years.

Determining the Canadian incidence rate of TB-HIV co-infection from this surveillance system is not yet possible. HIV status was reported for only 27% of cases, of which 14% were HIV seropositive. Moreover, this percentage is likely biased towards HIV testing in those with known risk factors for HIV infection. In the unlikely event that these were the only co-infected cases, the overall co-infection rate was 4%. The most recent report by the WHO has estimated HIV prevalence in incident TB cases in Canada in 2006 to be 6.2%. There are a number of important personal and public health reasons for screening for HIV in patients with TB and their contacts, as well as screening and prevention of TB in patients with HIV. Screening for HIV in TB cases and reporting of the results are essential activities for prevention and control of future TB cases in Canada.

Drug resistance has not yet emerged as a significant problem in Canada. Cases of MDR-TB represent less than 1% of the reported cases of drug resistance in this reporting system.

For the treatment outcome data received, the majority of TB cases were reported as cured or completed treatment. Analysis on the treatment outcome status of laboratory confirmed pulmonary cases indicates that 83% of DOTS and 87% of non-DOTS, (total 84%), were cured or had completed treatment which was very close to the WHO international target of 85%.

In keeping with the targets set in the *Global Plan to Stop TB 2006–2015*¹¹ to reduce the global burden of TB disease by 50%, the Canadian tuberculosis incidence rate would have to be reduced to 3.6 per 100,000 by 2015 . Achieving this incidence rate will require an average per annum decrease in the number of reported cases of 3.5% between 2006 and 2015. This will require a concerted effort on behalf of all working on TB prevention and control in Canada.

As the epidemiology of TB in Canada and the world evolves, the CTBRS and the annual report, *Tuberculosis in Canada*, will continue to undergo improvements in the quality and nature of the data reported.

⁹ Global tuberculosis control: surveillance, planning, financing, WHO report 2008. Geneva, World Health Organization (WHO/HTM/TB/2008.393).

¹⁰ Long R, Ellis E, editors, *Canadian Tuberculosis Standards*, 6th ed., Appendix G: Recommendations for the screening and prevention of tuberculosis in patients with human immunodeficiency virus (HIV) and the screening for HIV in tuberculosis patients and their contacts. Ottawa: Public Health Agency of Canada and the Canadian Lung Association/Canadian Thoracic Society; 2007.

¹¹Stop TB Partnership and World Health Organization. *Global Plan to Stop TB 2006–2015*. Geneva, World Health Organization, 2006 (WHO/HTM/STB/2006.35).

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Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 – Canada and provinces/territories: 1996-2006

Table 1A

1990-2000	90														
Year of		V CLVIVAD						Provi	Province/territory	tory					
diagnosis		CAINADA	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
1996	Cases	1,877	24	3	15	15	332	780	26	113	140	316	9	36	I
	Rate	6.3	4.3	2.2	1.6	2.0	4.6	7.0	9.8	11.1	5.0	8.2	19.1	53.4	I
1997	Cases	1,994	15	5	7	7	359	780	96	121	166	405	2	31	I
	Rate	6.7	2.7	3.7	0.8	6.0	4.9	6.9	8.4	11.9	5.9	10.3	6.3	45.9	ı
1998	Cases	1,810	8	2	18	6	290	742	116	86	158	329	2	38	1
	Rate	0.9	1.5	1.5	1.9	1.2	4.0	6.5	10.2	9.6	5.4	8.3	6.4	56.6	1
1999	Cases	1,820	12	2	15	15	314	869	132	116	149	328	1	23	15
	Rate	0.9	2.2	1.5	1.6	2.0	4.3	6.1	11.6	11.4	5.0	8.2	3.2	56.6	55.9
2000	Cases	1,724	10	2	3	10	318	200	86	104	133	286	3	10	47
	Rate	5.6	1.9	1.5	0.3	1.3	4.3	0.9	8.5	10.3	4.4	7.1	6.6	24.7	170.9
2001	Cases	1,773	19	3	8	10	261	669	115	114	116	380	0	8	40
	Rate	5.7	3.6	2.2	6.0	1.3	3.5	5.9	10.0	11.4	3.8	6.3	_	19.6	142.2
2002	Cases	1,666	6	1	6	11	288	716	86	86	128	286	0	4	27
	Rate	5.3	1.7	0.7	1.0	1.5	3.9	5.9	8.5	8.9	4.1	6.9	_	9.6	93.9
2003	Cases	1,631	7	3	9	12	257	663	127	91	110	305	1	12	7
	Rate	5.1	1.4	2.2	0.0	1.6	3.4	5.7	10.9	9.1	3.5	7.3	3.3	28.4	24.0
2004	Cases	1,613	7	1	8	10	219	200	144	70	109	299	4	10	32
	Rate	5.0	1.4	0.7	6.0	1.3	2.9	5.6	12.3	7.0	3.4	7.1	13.0	23.4	108.0
2005	Cases	1,642	6	1	7	9	255	643	114	139	146	266	3	8	45
	Rate	5.1	1.8	0.7	0.7	0.8	3.4	5.1	9.7	14.0	4.5	6.2	9.7	18.7	149.9
2006	Cases	1,619	12	0	10	2	227	640	134	87	131	319	3	9	48
	Rate	5.0	2.4	ı	1.1	0.3	3.0	5.0	11.4	8.8	3.9	7.4	9.6	14.2	157.9

Fable 1B

Reported

55.9 145.5 120.9 9.92 24.0 81.0 129.9 144.7 15 34 44 Nvt. new active tuberculosis cases and incidence rate per 100,000 – Canada and provinces/territories: 1996-2006 11.8 41.8 19.6 21.0 17 9.6 18.7 N.W.T. 24 32 6.3 6.4 0.0 0.0 13.0 9.7 9.6 $^{\circ}$ 3.2 $^{\circ}$ 9.9 0 0 4 12. 9.9 287 7.4 360 306 7.7 304 7.6 264 6.5 337 8.2 252 6.2 275 277 9.9 286 9.1 5.3 5.0 4.8 4.0 3.9 3.6 129 150 146 120 106 3.1 4.0 141 104 100 123 121 131 109 10.7 110 10.8 8.9 110 10.8 100 10.4 83 8.3 6.3 12.8 8.0 104 82 8.2 91 63 127 7.4 7.6 10.8 7.7 8.0 10.6 123 108 9.4 118 10.2 132 98 104 9.1 88 92 105 125 84 682 596 599 610 613 5.0 633 586 4.3 6.2 6.1 5.2 5.1 5.1 5.2 681 631 631 541 3.6 3.8 4.0 294 323 4.4 262 278 297 233 252 3.4 240 3.2 204 2.7 223 207 2.7 3.1 4.1 Que. 9 8.0 6.0 0.8 6 1.2 13 1.7 8 10 1.3 10 1.3 1.5 6 1.2 9 11 N.B. 6.0 1.0 1.2 1.3 16 12 N.S. 0.0 2.9 α 1.5 1.5 1.5 1.5 0.7 0.7 0.7 3 α $^{\circ}$ $^{\circ}$ 3.8 8.0 1.8 2.4 1.3 10 1.9 3.3 9 1.2 9.0 8 1.6 13 17 4 21 N.L. 1,765 1,540 1,470 1,468 1,663 909'1 1,623 1,574 1,492 1,433 CANADA 1,481 Cases Cases Cases Cases Cases Cases Cases Cases Cases Rate Year of diagnosis 1996 1998 2005 2006 1999 2000 2002 2003 2004 1997 2001

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

Table 1C

Nvt. Reported <u>relapsed</u> tuberculosis cases and incidence rate per 100,000 – Canada and provinces/territories: 1996-2006 N.W.T. 7.4 10.4 0.0 0 0 0.7 29 43 23 B.C. 11 0.4 16 12 4 \sim Province/territory 8.0 6.0 6 10 12 Man. 71 9.0 70 0.7 99 Ont. 0.5 36 22 34 Que. 5 0.7 $^{\circ}$ N.B. 0.2 α N.S. 0 0.0 0.7 0 P.E.I. 3 $^{\circ}$ Z.L. 9.0 0.7 177 197 153 CANADA Cases Cases Rate Rate Year of diagnosis 1996 1998 1997

2002	Cases	137	3	0	2	1	19	56	9	9	7	32	0	0	5
	Rate	0.4	9.0	0.0	0.2	0.1	0.3	0.5	0.5	9.0	0.2	0.8	0.0	0.0	17.4
2003	Cases	105	3	1	1	1	15	35	6	6	9	22	0	3	0
	Rate	0.3	9.0	0.7	0.1	0.1	0.2	0.3	0.8	6.0	0.2	0.5	0.0	7.1	0.0
2004	Cases	120	3	0	0	1	15	42	12	7	6	22	0	1	8
	Rate	0.4	9.0	0.0	0.0	0.1	0.2	0.3	1.0	0.7	0.3	0.5	0.0	2.3	27.0
2005	Cases	106	1	0	0	0	12	33	6	12	15	18	0	0	9
	Rate	0.3	0.2	0.0	0.0	0.0	0.2	0.3	0.8	1.2	0.5	0.4	0.0	0.0	20.0
2006	Cases	125	8	0	1	0	20	39	6	8	8	32	0	1	4
	Rate	0.4	9.0	0.0	0.1	0.0	0.3	0.3	0.8	0.8	0.2	0.7	0.0	2.4	13.2
	,		,		;										

21.3

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Rate

 $\mathcal{C}_{\mathbf{J}}$

151

Cases

2001

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10

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0

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39

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6.0

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0.5

Rate

18

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147

Cases

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4 0.4

10

0.0

14.8

0.0

0.3

9.0

8.0

0.5

0.1

0.2

0.0

0.2

0.5

Rate

0

33

0

23

8

6

9

0

8.9

0.0

0.7

0.6 69 0.6 70 70 0.6 59

0.3

0.2

0.0

0.5

Rate

158

Cases

1999

Note: Cases of which activity status is unknown are included in the total (Table 1A).

Table 2A

Reported new active and relapsed tubercul	new acti	ve and r	elapsed t	uberculo	sis cases	osis cases and incidence rate per 100,000 by age group –	dence rat	te per 10	0,000 by	age gro		Canada: 1996-2006	9-7006
Young								Age group	d				
rear or diagnosis		TOTAL	< 1	1 – 4	5 - 14	15 - 24	25 – 34	35 - 44	45 - 54	55 - 64	65 - 74	75 +	Age
1996	Cases	1,877	14	99	63	216	361	305	191	195	251	215	0
	Rate	6.3	3.7	4.2	1.6	5.4	7.6	6.1	5.0	7.7	12.0	14.4	I
1997	Cases	1,994	8	50	57	222	391	291	216	232	250	277	0
	Rate	6.7	2.2	3.2	1.4	5.5	8.4	5.7	5.5	0.6	11.9	17.9	I
1998	Cases	1,810	70	09	72	187	314	307	184	174	235	256	1
	Rate	0.9	5.8	3.9	1.8	4.6	7.0	5.9	4.5	9.9	11.0	16.0	ı
1999	Cases	1,820	32	55	61	204	339	254	193	173	244	265	0
	Rate	6.0	9.4	3.7	1.5	5.0	7.7	4.8	4.6	6.3	11.4	16.1	I
2000	Cases	1,724	11	20	44	202	316	278	208	160	204	239	1
	Rate	5.6	5.0	3.4	1.1	5.0	7.3	5.3	4.8	5.7	9.5	14.0	I
2001	Cases	1,773	11	33	70	180	322	290	208	184	219	255	1
	Rate	5.7	3.3	2.3	1.7	4.3	7.5	5.5	4.6	6.3	10.1	14.5	I
2002	Cases	1,666	10	42	45	210	312	263	201	161	199	217	9
	Rate	5.3	3.1	3.0	1.1	4.9	7.2	5.0	4.4	5.2	9.1	11.9	1
2003	Cases	1,631	7	34	41	198	332	277	206	153	178	203	2
	Rate	5.1	2.1	2.5	1.0	4.6	7.6	5.3	4.4	4.7	8.1	10.8	I
2004	Cases	1,613	9	33	45	198	324	272	198	167	177	193	0
	Rate	5.0	1.8	2.4	1.1	4.5	7.4	5.3	4.1	4.9	8.0	10.0	1
2005	Cases	1,642	10	38	71	254	279	278	212	144	168	188	0
	Rate	5.1	3.0	2.8	1.8	5.8	6.3	5.4	4.3	4.1	7.5	9.5	-
2006	Cases	1,619	10	45	50	252	250	281	196	154	165	216	0
	Rate	5.0	2.9	3.3	1.3	5.7	5.6	5.6	3.9	4.2	7.2	10.6	T

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – $\overline{\text{males}}$ – Canada: 1996-2006

Table 2B

								Age groun					
Year of diagnosis		TOTAL	1 >	1 - 4	5 - 14	15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 +	Age
1996	Cases	1,013	6	30	35	107	186	162	104	106	143	131	0
	Rate	6.9	4.6	3.7	1.7	5.2	7.8	6.5	5.5	8.5	14.9	23.6	ı
1997	Cases	1,062	9	27	25	94	195	161	118	131	141	164	0
	Rate	7.2	3.3	3.4	1.2	4.6	8.3	6.3	0.9	10.3	14.5	28.4	ı
1998	Cases	996	16	31	38	78	162	164	100	105	125	147	0
	Rate	6.5	9.1	4.0	1.8	3.7	7.1	6.3	4.9	8.0	12.6	24.6	1
1999	Cases	666	20	28	24	66	176	141	117	96	144	154	0
	Rate	9.9	11.5	3.7	1.1	4.7	6.7	5.4	5.6	7.1	14.4	24.9	1
2000	Cases	924	10	27	24	26	168	149	117	88	101	143	0
	Rate	6.1	5.8	3.6	1.1	4.5	7.7	9.6	5.4	6.3	10.0	22.3	1
2001	Cases	984	9	15	45	92	153	168	124	111	127	143	0
	Rate	6.4	3.5	2.1	2.1	4.2	7.0	6.3	5.6	7.7	12.5	21.5	I
2002	Cases	863	5	18	15	62	167	142	105	06	116	110	0
	Rate	5.6	3.0	2.5	0.7	4.3	7.6	5.4	4.6	5.9	11.3	15.9	ı
2003	Cases	894	3	21	14	102	162	161	127	86	105	113	0
	Rate	5.7	1.8	3.0	0.7	4.6	7.3	6.1	5.4	5.4	10.1	15.7	ı
2004	Cases	848	5	22	23	85	146	147	104	66	110	107	0
	Rate	5.4	2.9	3.1	1.1	3.8	9.9	5.7	4.4	5.9	10.4	14.4	ı
2005	Cases	606	9	20	33	128	142	154	124	83	62	122	0
	Rate	5.7	3.5	2.9	1.6	5.7	6.3	0.9	5.1	4.8	9.1	15.8	1
2006	Cases	864	9	23	24	133	114	147	116	85	88	128	0
	Rate	5.3	3.4	3.3	1.2	5.9	5.1	5.8	4.6	4.7	8.1	15.9	1

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – $\underline{\text{females}}$ – Canada: 1996-2006

								Age group	d				
Year of diagnosis		TOTAL	< 1	1 - 4	5 - 14	15 - 24	25 – 34	35 – 44	45 – 54	55 – 64	65 - 74	75 +	Age unknown
1996	Cases	864	5	36	28	109	175	143	87	68	108	84	0
	Rate	5.8	2.7	4.7	1.4	5.6	7.5	5.7	4.6	6.9	9.6	0.6	-
1997	Cases	933	2	23	32	128	196	130	86	101	109	114	0
	Rate	6.2	1.2	3.0	1.6	6.5	8.5	5.1	5.0	7.7	9.6	11.8	-
1998	Cases	843	4	29	34	109	152	143	84	69	110	109	0
	Rate	5.5	2.4	3.9	1.7	5.5	6.8	5.5	4.1	5.1	9.7	10.9	-
1999	Cases	821	12	27	37	105	163	113	9/	22	100	111	0
	Rate	5.3	7.3	3.7	1.9	2.2	7.5	4.3	3.6	5.6	8.8	10.7	1
2000	Cases	800	7	23	20	110	148	130	91	72	103	96	0
	Rate	5.2	4.2	3.2	1.0	5.4	6.9	4.9	4.2	5.1	9.1	0.6	1
2001	Cases	786	5	18	25	88	169	121	84	73	91	112	0
	Rate	5.0	3.1	2.6	1.3	4.3	7.9	4.6	3.7	4.9	8.0	10.2	1
2002	Cases	797	5	24	30	115	145	121	96	71	83	107	0
	Rate	5.1	3.1	3.5	1.5	5.5	6.8	4.6	4.2	4.5	7.2	9.5	ı
2003	Cases	735	4	13	27	96	170	116	79	67	73	06	0
	Rate	4.6	2.5	1.9	1.4	4.6	7.9	4.5	3.3	4.1	6.3	7.8	1
2004	Cases	765	1	11	22	113	178	125	94	89	67	98	0
	Rate	4.7	9.0	1.6	1.1	5.3	8.2	4.9	3.9	4.0	5.8	7.3	I
2005	Cases	733	4	18	38	126	137	124	88	61	71	99	0
	Rate	4.5	2.4	2.7	2.0	5.9	6.3	4.9	3.6	3.4	6.0	5.4	I
2006	Cases	755	4	22	26	119	136	134	80	69	77	88	0
	Rate	4.6	2.4	3.3	1.4	5.5	6.2	5.3	3.2	3.7	6.5	7.1	1

Table 2C

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by birthplace – Canada: 1996-2006 Table 3

Canadian- born Canadian- North American Status (register Indian Non-status Ind Metis Total Aboriginal Total Canadian-							Yea	Year of diagnosis	osis				
dian-	93		9661	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Status (Indian Non-standar) Metis Total Abc Total Car	North American Indian	Cases	218	232	205	255	174	213	173	206	206	219	230
Status (Indian Non-status) Inuit Metis Total Abc Total Car		Rate	1	ı	1	1	1	29.9	23.8	27.8	27.2	28.4	29.3
Non-sta Inuit Metis Total Abc Non-Abor	Status (registered)	Cases	218	212	191	247	167	199	165	204	202	213	223
Non-sta Inuit Metis Total Abo Non-Abor		Rate	34.6	32.8	29.0	36.6	24.2	28.3	23.0	27.9	26.4	27.4	28.2
Inuit Metis Total Abo Non-Abor	Non-status Indian	Cases		20	14	8	7	14	8	2	4	9	
Inuit Metis Total Abo Non-Abor		Rate	1	I	1	1	ı	I	I	ı	I	I	ı
Metis Total Abo Non-Abor		Cases	26	18	35	28	99	23	33	11	41	63	61
Metis Total Abo Non-Abor		Rate	45.5	30.9	58.7	45.9	91.5	111.4	67.8	22.1	80.4	120.7	114.3
Total Abo Non-Abor Total Car		Cases	51	32	39	31	67	46	35	30	21	35	29
Total Abo Non-Abor Total Car		Rate	ı	-	-	-	_	16.0	11.3	6.5	9.9	10.8	8.8
Non-Abor Total Car	riginal	Cases	295	282	279	314	627	315	241	747	268	317	320
Non-Abor' Total Can		Rate	24.8	23.2	22.5	25.1	20.5	29.5	22.2	22.3	23.8	27.6	27.4
Total Can	iginal	Cases	374	403	347	326	314	282	259	231	214	218	201
Total Can		Rate	1.6	1.7	1.5	1.4	1.3	1.2	1.1	1.0	6.0	6.0	0.8
	Total Canadian-born	Cases	699	685	626	640	273	265	500	478	482	535	521
		Rate	2.7	2.8	2.5	2.6	2.2	2.4	2.0	1.9	1.9	2.1	2.0
gn-	gh HIV	Cases	54	62	62	99	99	<i>LL</i>	06	58	87	63	104
born Prevalence	Prevalence (AFR-High)	Rate	1	_	_	_	-	48.8	53.5	48.1	48.1	49.3	52.4
Africa, Low HIV	w HIV	Cases	5	12	9	12	14	8	19	22	21	26	21
Prevalence	Prevalence (AFR-Low)	Rate	1	1	_	_	1	11.3	24.5	26.0	23.7	27.6	20.5
American	American Region - Latin	Cases	92	66	87	70	80	09	62	75	65	71	47
Countries (AMR)	American and Caribbean Countries (AMR)	Rate	-	-	_	_	1	8.8	8.8	10.3	8.7	9.4	6.0

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by birthplace - Canada: 1996-2006

							ı						
	Distant						Year	Year of diagnosis	osis				
	ритиріасс		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Foreign-	Established Market	Cases	109	124	115	115	26	101	92	92	7.1	26	53
born (cont'd)	Europe (EME-CEUR)	Rate	I	_	-	_	-	3.8	2.8	2.9	2.7	2.1	2.0
	Eastern Europe	Cases	15	28	33	32	30	23	36	23	26	29	17
	(EEUR)	Rate	-	-	_	_	_	0.6	13.2	7.9	8.6	9.1	5.1
	Eastern Mediterranean	Cases	147	119	104	113	117	107	119	110	115	123	121
	(EMR)	Rate	-	-	_	_	_	22.7	22.8	19.2	19.0	19.1	17.8
	South-East Asia	Cases	177	200	197	193	208	237	222	245	267	239	247
	(SEAR)	Rate	ı	I	I	I	I	47.6	41.0	41.8	43.3	36.8	35.6
	Western Pacific Region	Cases	553	573	208	513	477	456	456	457	448	389	404
	(WPR)	Rate	-	-	_	_	_	34.7	32.8	31.1	29.4	24.6	24.5
	Unknown	Cases	26	46	28	47	44	53	39	17	15	31	28
		Rate	_	-	-	_	-	1	_	-	_	_	ı
	Total foreign-born	Cases	1,178	1,280	1,160	1,161	1,133	1,122	1,119	1,110	1,115	1,057	1,042
		Rate	22.5	23.9	21.2	20.8	19.6	18.3	17.6	16.9	16.6	15.4	14.8
Unknown		Cases	30	29	24	19	18	54	47	43	16	50	56
		Rate	-	-	1	_	-	1	_	1	_	_	ı
TOTAL		Cases	1,877	1,994	1,810	1,820	1,724	1,773	1,666	1,631	1,613	1,642	1,619
		Rate	6.3	6.7	6.0	6.0	5.6	5.7	5.3	5.1	5.0	5.1	5.0

 Table 3
 Cont'd

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by main diagnostic site - Canada: 1996-2006

 Fable 4

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	91000						Year	Year of diagnosis	sis				
Main magnostic suc	וספרוכ פורפ		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Respiratory	Primary*	Cases	120	131	130	154	66	120	88	62	94	106	91
		Rate	0.4	0.4	0.4	0.5	0.3	0.4	0.3	0.2	0.3	0.3	0.3
	Pulmonary**	Cases	1,097	1,171	1,071	1,105	1,069	1,132	1,019	962	935	096	666
		Rate	3.7	3.9	3.6	3.6	3.5	3.6	3.2	3.0	2.9	3.0	3.1
	Other	Cases	69	75	63	62	64	52	57	64	86	117	66
	$\operatorname{respiratory}^{\scriptscriptstyle au}$	Rate	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3
Nonrespiratory	Miliary	Cases	40	50	30	25	27	15	17	20	30	24	22
		Rate	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1
	Meninges and	Cases	18	25	24	15	16	17	18	25	19	21	21
	CNS	Rate	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	Peripheral	Cases	241	268	276	244	258	235	242	249	251	246	238
	lymph node	Rate	0.8	6.0	6.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
	Other‡	Cases	270	259	189	189	162	180	194	193	185	168	149
		Rate	6.0	6.0	9.0	9.0	0.5	9.0	9.0	9.0	9.0	0.5	0.5
Unknown		Cases	22	15	27	26	29	22	31	39	1	0	0
		Rate	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Total cases		Cases	1,877	1,994	1,810	1,820	1,724	1,773	1,666	1,631	1,613	1,642	1,619
		Rate	6.3	6.7	0.9	0.9	5.6	5.7	5.3	5.1	5.0	5.1	5.0

* Primary includes primary respiratory tuberculosis and tuberculous pluerisy in primary progressive tuberculosis, (ICD-9 codes 010.0-010.9; ICD-10 A15.7 and A16.7).

Pulmonary includes tuberculosis of the lungs and conducting airways which includes tuberculous fibrosis of the lung, tuberculous bronchiectasis, tuberculous pneumonia, tuberculous pneumothorax, isolated tracheal or bronchial tuberculosis and tuberculous laryngitis; (ICD-9 codes 011-011.9, 012.2, 012.3; ICD-10 codes A15.0-A15.3, A15.5, A15.9, A16.0-A16.2, A16.4, A16.9).

Other Respiratory includes tuberculous pleurisy (non-primary); tuberculosis of: intrathoracic lymph nodes, mediastinum, nasopharynx, nose (septum), and sinus (any nasal) (ICD-9 codes: 012.0, 012.1 and 012.8; ICD-10 codes: A15.4, A15.6, A15.8, A16.3, A16.5, A16.8).

[‡] Other includes tuberculosis of intestines, peritoneum and mesenteric glands, bones and joints, genitourinary system, skin, eye, ear, thyroid, adrenal and spleen.

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group - Canada and provinces/territories: 2006

Δαο								Provi	Province/territory	torv					
group		CANADA	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
\ 	Cases	10	0	0	0	0	1	1	0	5	1	0	0	0	2
	Rate	2.9	0.0	0.0	0.0	0.0	1.3	0.7	0.0	42.1	2.3	0.0	0.0	0.0	284.5
1 – 4	Cases	45	0	0	0	0	9	6	7	14	5	2	0	0	2
	Rate	3.3	0.0	0.0	0.0	0.0	2.0	1.7	12.5	29.4	3.0	1.2	0.0	0.0	68.7
5 – 14	Cases	20	1	0	0	0	1	11	10	6	7	7	1	0	3
	Rate	1.3	1.8	0.0	0.0	0.0	0.1	0.7	6.3	6.9	1.6	1.4	25.2	0.0	45.1
15 – 24	Cases	252	3	0	1	0	45	94	19	21	10	88	1	1	19
	Rate	5.7	4.4	0.0	0.8	0.0	4.7	5.4	11.2	14.0	2.0	6.4	21.0	14.4	326.1
25 – 34	Cases	250	1	0	2	1	27	114	25	12	23	88	1	0	9
	Rate	5.6	1.6	0.0	1.7	1.0	2.6	6.5	16.1	8.6	4.4	9.9	26.4	0.0	116.5
35 – 44	Cases	281	2	0	1	0	40	120	26	9	17	09	0	0	6
	Rate	5.6	2.5	0.0	0.7	0.0	3.5	5.9	15.5	4.6	3.3	8.9	0.0	0.0	231.2
45 – 54	Cases	196	1	0	1	1	26	78	17	6	13	47	0	1	2
	Rate	3.9	1.2	0.0	0.7	0.8	2.1	4.1	8.6	6.2	2.5	6.9	0.0	17.6	71.8
55 - 64	Cases	154	0	0	1	0	17	09	16	9	16	36	0	0	2
	Rate	4.2	0.0	0.0	0.8	0.0	1.8	4.4	12.8	5.9	4.9	7.1	0.0	0.0	125.2
65 – 74	Cases	165	1	0	1	0	24	76	7	1	16	33	0	3	3
	Rate	7.2	2.6	0.0	1.4	0.0	4.1	8.8	0.6	1.4	8.5	10.6	0.0	222.2	443.8
75 +	Cases	216	3	0	3	0	40	77	7	4	23	28	0	1	0
	Rate	10.6	6.6	0.0	4.7	0.0	8.1	6.6	8.5	5.1	14.0	20.0	0.0	138.9	0.0
TOTAL	Cases	1,619	12	0	10	2	227	640	134	87	131	319	3	9	48
	Rate	5.0	2.4	0.0	1.1	0.3	3.0	5.0	11.4	8.8	3.9	7.4	9.6	14.2	157.9

Table 5A

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – $\frac{\text{males}}{\text{c}}$ – Canada and provinces/territories: 2006

Table 5B

אזוורג	א ובווור	provinces/ territorites: 2000													
Age		CANADA						Provi	Province/territory	tory					
group		CANADA	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
<1	Cases	9	0	0	0	0	0	1	0	3	1	0	0	0	1
	Rate	3.4	0.0	0.0	0.0	0.0	0.0	1.5	0.0	50.5	4.6	0.0	0.0	0.0	300.3
1 – 4	Cases	23	0	0	0	0	4	9	3	7	2	0	0	0	1
	Rate	3.3	0.0	0.0	0.0	0.0	2.6	2.2	10.5	28.6	2.4	0.0	0.0	0.0	66.7
5 – 14	Cases	24	0	0	0	0	0	9	5	4	3	3	1	0	2
	Rate	1.2	0.0	0.0	0.0	0.0	0.0	0.7	6.1	0.9	1.4	1.2	51.9	0.0	58.2
15 – 24	Cases	133	1	0	0	0	25	48	6	14	5	19	1	1	10
	Rate	5.9	2.9	0.0	0.0	0.0	5.1	5.4	10.4	18.0	1.9	6.3	39.7	28.3	340.7
25 – 34	Cases	114	0	0	2	0	11	51	16	9	12	12	1	0	3
	Rate	5.1	0.0	0.0	3.5	0.0	2.1	5.9	20.2	9.7	4.4	4.2	56.1	0.0	117.3
35 – 44	Cases	147	0	0	1	0	22	89	15	4	7	24	0	0	9
	Rate	5.8	0.0	0.0	1.4	0.0	3.8	9.9	17.7	6.1	2.6	7.2	0.0	0.0	291.3
45 – 54	Cases	116	1	0	1	0	14	45	12	9	9	30	0	0	1
	Rate	4.6	2.4	0.0	1.4	0.0	2.3	4.8	13.8	8.1	2.3	8.9	0.0	0.0	63.2
55 - 64	Cases	85	0	0	0	0	10	29	12	4	4	24	0	0	2
	Rate	4.7	0.0	0.0	0.0	0.0	2.2	4.3	19.3	7.9	2.4	9.6	0.0	0.0	269.9
65 – 74	Cases	88	0	0	1	0	11	40	3	1	11	16	0	3	2
	Rate	8.1	0.0	0.0	2.9	0.0	4.1	9.7	8.1	3.0	12.0	10.5	0.0	412.1	547.9
75 +	Cases	128	1	0	2	0	25	49	4	1	12	34	0	0	0
	Rate	15.9	8.3	0.0	8.1	0.0	13.6	15.8	12.6	3.2	18.0	28.3	0.0	0.0	0.0
TOTAL	Cases	864	3	0	7	0	122	343	62	50	63	162	3	4	28
	Rate	5.3	1.2	0.0	1.5	0.0	3.2	5.5	13.5	10.2	3.7	7.6	19.1	18.3	179.0

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – $\frac{females}{}$ – Canada and provinces/territories: 2006

,								Drow	Drovince /territory	forv					
Age		CANADA	N.L.	P.E.I.	N.S.	N.B.	Oue.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
\ 	Cases	4	0	0	0	0	1	0	0	2	0	0	0	0	1
	Rate	2.4	0.0	0.0	0.0	0.0	2.6	0.0	0.0	33.8	0.0	0.0	0.0	0.0	270.3
1 – 4	Cases	22	0	0	0	0	2	3	4	7	3	2	0	0	1
	Rate	3.3	0.0	0.0	0.0	0.0	1.4	1.1	14.6	30.3	3.7	2.5	0.0	0.0	70.9
5 – 14	Cases	26	1	0	0	0	1	5	5	5	4	4	0	0	1
	Rate	1.4	3.8	0.0	0.0	0.0	0.2	9.0	6.5	7.8	1.9	1.7	0.0	0.0	31.1
15 – 24	Cases	119	2	0	1	0	20	46	10	7	5	19	0	0	6
	Rate	5.5	0.9	0.0	1.6	0.0	4.2	5.4	12.1	6.7	2.0	9.9	0.0	0.0	311.3
25 – 34	Cases	136	1	0	0	1	16	63	6	9	11	26	0	0	3
	Rate	6.2	3.2	0.0	0.0	2.1	3.1	7.2	11.8	6.6	4.4	9.1	0.0	0.0	115.7
35 – 44	Cases	134	2	0	0	0	18	52	11	2	10	36	0	0	3
	Rate	5.3	4.9	0.0	0.0	0.0	3.2	5.1	13.4	3.1	3.9	10.6	0.0	0.0	163.8
45 – 54	Cases	80	0	0	0	1	12	33	5	3	7	17	0	1	1
	Rate	3.2	0.0	0.0	0.0	1.6	1.9	3.4	5.8	4.2	2.8	4.9	0.0	35.7	83.1
55 - 64	Cases	69	0	0	1	0	7	31	4	2	12	12	0	0	0
	Rate	3.7	0.0	0.0	1.7	0.0	1.5	4.5	6.3	3.9	7.5	4.7	0.0	0.0	0.0
65 – 74	Cases	77	1	0	0	0	13	36	4	0	5	17	0	0	1
	Rate	6.5	5.1	0.0	0.0	0.0	4.2	7.9	8.6	0.0	5.1	10.7	0.0	0.0	321.5
75 +	Cases	88	2	0	1	0	15	28	3	3	11	24	0	1	0
	Rate	7.1	10.9	0.0	2.5	0.0	4.8	5.9	5.9	6.4	11.3	14.1	0.0	274.7	0.0
TOTAL	Cases	755	6	0	3	2	105	297	55	37	89	157	0	2	20
	Rate	4.6	3.5	0.0	9.0	0.5	2.7	4.6	9.3	7.4	4.1	7.2	0.0	9.7	135.5

Table 5C

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by birthplace - Canada and provinces/territories: 2006 Table 6

Canadian- John Indian Cases 223 0.0	TILL														
Mainthead		Divthuloco		AUVINA					Provi	nce/terr	itory				
North American Indian Cases 233 0 0 0 0 4 8 6 54 15 46 North American Indian Rate 22,3 0 0 0 0 0 5.3 46 85.5 51.3 13.7 32.1 3 Status (registered) Cases 223 0 0 0 0 0 4.5 75.6 42.3 13.6 35.8 3 Non-status Indian Cases 28.2 0.0 0.0 0.0 0 4.5 75.6 42.3 13.6 35.8 3 Inuit Cases 6.1 5 -		Dirthplace		CANADA	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	North
Cases 230 0 0 0 9 4 8 96 54 15 46 Rate 29.3 0.0 0.0 0.0 0.0 5.3 4.6 85.5 51.3 13.7 32.1 3 Cases 223 0.0 0.0 0.0 0.0 0.0 4.5 5.4 85.5 51.3 13.7 32.1 3 Rate 223 0.0 0.0 0.0 0.0 4.5 73.6 42.3 13.6 35.8 2.7 Cases 7 0.0	١.	Aboriginal													
Rate 29.3 0.0 0.0 0.0 5.3 4.6 85.5 51.3 13.7 32.1 32.1 Cases 223 0.0 0.0 0.0 0.0 4.5 73.6 74.3 13.6 35.1 32.1 Cases 223 0.0 0.0 0.0 0.0 4.5 73.6 42.3 13.6 35.8 2.1 Cases 7 0.0		North American Indian	Cases	230	0	0	0	0	4	8	96	54		46	7
Cases 223 0 0 0 0 45 35 34 14 45 Rate 2822 0.0 0.0 0.0 0.0 4.5 73.6 42.3 13.6 35.8 2 Cases 7 0 0 0 0 0 4.5 73.6 42.3 13.6 35.8 2 Rate <			Rate	29.3	0.0	0.0	0.0	0.0		4.6	85.5	51.3	13.7	32.1	33.2
Rate 28.2 0.0 0.0 0.0 0.0 4.5 73.6 4.2 13.6 35.8 Cases 7 0 0 0 4 0 1 1 1 Rate -		Status (registered)	Cases	223	0	0	0	0	0	8	95	54	14	45	7
Cases 7 0 0 4 0 1 0 1 <td></td> <td>Indian</td> <td>Rate</td> <td>28.2</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td></td> <td>73.6</td> <td>42.3</td> <td>13.6</td> <td>35.8</td> <td>27.1</td>		Indian	Rate	28.2	0.0	0.0	0.0	0.0	0.0		73.6	42.3	13.6	35.8	27.1
Rate -		Non-status Indian	Cases	7	0	0	0	0	4	0	1	0	1	1	0
Cases 61 5 0 0 7 0 <td></td> <td></td> <td>Rate</td> <td>-</td> <td>_</td> <td>-</td> <td>-</td> <td>_</td> <td>_</td> <td>-</td> <td>1</td> <td>1</td> <td>-</td> <td>_</td> <td>-</td>			Rate	-	_	-	-	_	_	-	1	1	-	_	-
Rate 114.3 97.6 0.0 63.5 0.0 63.5 0.0 0		Inuit	Cases	61	5	0	0	0	7	0	0	0	0	0	49
Cases 29 0 <td></td> <td></td> <td>Rate</td> <td>114.3</td> <td>97.6</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>153.7</td>			Rate	114.3	97.6	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	153.7
Rate 8.8 0.0 <td></td> <td>Metis</td> <td>Cases</td> <td>29</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>23</td> <td>9</td> <td>0</td> <td>0</td>		Metis	Cases	29	0	0	0	0	0	0	0	23	9	0	0
Cases 320 5 0 0 0 11 8 96 77 21 46 77 48 96 77 21 46 78 48 96 77 11.2 23.8 96 78 48 49.7 11.2 23.8 96 78 42 49.7 11.2 23.8 96 78 42 44 49.7 11.2 23.8 96 77 42 44 48 13 48 48 48 76 11.3 60.5 11.3 60.5 11.3 60.5 11.3 60.5 11.3 60.5 11.3 60.5 11.3 60.5 11.3 60.5 11.3 44 7 11.4 11.3 44 7 11.4 </td <td></td> <td></td> <td>Rate</td> <td>8.8</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>46.5</td> <td>7.9</td> <td>0.0</td> <td>0.0</td>			Rate	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.5	7.9	0.0	0.0
Rate 27.4 22.8 0.0 0.0 0.0 10.5 3.5 54.4 49.7 11.2 23.8 9 Cases 201 6 0 5 1 73 42 14 4 18 37 48 Rate 0.8 1.3 0.6 0.1 1.1 0.5 1.7 0.5 0.7 1.3 83 83 1.3 1.3 1.3 0.0 0.0 0.0 0.0 1.0 8.1 1.7 0.5 1.7 0.7 1.3 0.7 1.3 0.7 1.3 0.7 1.3 0.7 1.3 1.3 0.7 1.3 0.7 1.4 2.7 5 1.4 2.7 5 2 2 2 2 2 1.4		Total Aboriginal	Cases	320	5	0	0	0	11	8	96	77	21	46	26
Cases 201 6 0 5 1 73 42 14 4 18 37 37 Rate 0.8 1.3 0.0 0.0 0.0 1.1 0.5 1.7 0.5 0.7 1.3 0.7 1.3 0.0 1.3 0.0 1.3 0.0 1.3 0.0 1.0 0			Rate	27.4	22.8	0.0	0.0	0.0	10.5	3.5	54.4	49.7	11.2	23.8	6.7
Rate 0.8 1.3 0.0 0.6 0.1 1.1 0.5 1.7 0.5 1.7 0.5 1.7 0.5 1.3 0.6 1.3 0.6 1.1 0.5 1.1 0.5 1.1 0.5 1.1 0.6 1.1 0.6 1.1 0.6 1.0 0.6 1.1 0.6 1.1 0.6 1.1 0.6 1.1 0.1 <td></td> <td>Non-Aboriginal</td> <td>Cases</td> <td>201</td> <td>9</td> <td>0</td> <td>5</td> <td>1</td> <td>73</td> <td>42</td> <td>14</td> <td>4</td> <td>18</td> <td>37</td> <td>1</td>		Non-Aboriginal	Cases	201	9	0	5	1	73	42	14	4	18	37	1
Rate 2.0 0.0 0.0 0.1 1.3 0.0 1.0 8.7 1.4 3.9 8.3 Rate 2.0 0.0 0.0 0.1 1.3 0.0 10.9 8.7 1.4 2.7 5 Rate 2.0 0.0 0.0 70.4 96.0 115.1 43.1 113.2 32.8 44.9 19.6 Cases 2.1 0.0 0.0 0.0 0.0 0.0 11.0 25.5 106.4 0.0 40.8 55.0 Rate 6.0 0.0 0.0 0.0 0.0 11.0 25.5 106.4 0.0 40.8 55.0 Rate 6.0 0.0			Rate	0.8	1.3	0.0	9.0	0.1	1.1	0.5	1.7	0.5	0.7	1.3	2.6
Rate 2.0 0.0 0.1 1.3 0.6 10.9 8.7 1.4 2.7 5 Cases 104 0 0 1 1 33 44 7 1 11 6 Rate 52.4 0.0 0.0 70.4 96.0 115.1 43.1 113.2 32.8 44.9 19.6 Cases 21 0 0 0 0 0 0 25.5 106.4 0.0 40.8 55.0 Rate 6.0 0 0 0 0 0 40.8 55.0 2 Rate 6.0 0 0 0 0 0 3 8 8 8		Total Canadian-born	Cases	521	11	0	5	1	84	20	110	81	39	83	57
Cases 104 0 0 1 3 44 7 1 1 1 6 Rate 52.4 0.0 0.0 70.4 96.0 115.1 43.1 113.2 32.8 44.9 19.6 Cases 21 0 0 0 0 0 0 25.5 106.4 0.0 40.8 55.0 2 Rate 6.0 0 0 0 0 11.0 25.5 106.4 0 40.8 55.0 2 Rate 6.0 0 0 0 0 0 3 8 8 8			Rate	2.0	2.2	0.0	9.0	0.1	1.3	9.0	10.9	8.7	1.4	2.7	59.0
Rate 52.4 0.0 70.4 96.0 115.1 43.1 113.2 32.8 44.9 19.6 Cases 21 0 0 0 0 6 9 2 0 2		Africa, High HIV	Cases	104	0	0	1	1	33	44	7	1	11	9	0
Cases 21 0 0 0 6 6 9 2 0 2 <td></td> <td>Prevalence (AFR-High)</td> <td>Rate</td> <td>52.4</td> <td>0.0</td> <td>0.0</td> <td>70.4</td> <td>96.0</td> <td>115.1</td> <td>43.1</td> <td>113.2</td> <td>32.8</td> <td>44.9</td> <td>19.6</td> <td>0.0</td>		Prevalence (AFR-High)	Rate	52.4	0.0	0.0	70.4	96.0	115.1	43.1	113.2	32.8	44.9	19.6	0.0
Rate 20.5 0.0 0.0 0.0 11.0 25.5 106.4 0.0 40.8 55.0 Rate 6.0 0.0 0.0 0.0 11.1 3.3 4.7 0.0 6.9 16.0		Africa, Low HIV	Cases	21	0	0	0	0	9	6	2	0	2	2	0
Cases 47 0 0 0 19 16 16 1 0 3 8 8 Rate 6.0 0.0 0.0 0.0 11.1 3.3 4.7 0.0 6.9 16.0		Prevalence (AFR-Low)	Rate	20.5	0.0	0.0	0.0	0.0	11.0	25.5	106.4	0.0	40.8	55.0	0.0
Rate 6.0 0.0 0.0 0.0 0.0 11.1 3.3 4.7 0.0 6.9 16.0		American Region - Latin	Cases	47	0	0	0	0	19	16	1	0	3	8	0
		American and Caribbean Countries (AMR)	Rate	0.9	0.0	0.0	0.0	0.0	11.1	3.3	4.7	0.0	6.9	16.0	0.0

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by birthplace - Canada and provinces/territories: 2006

province	provinces/ territorites, 2000													
	D:41-1000		2 1 2 1 2 2					Provi	Province/territory	itory				
	birtiipiace		CANADA	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	North
Foreign-	Established Market	Cases	53	0	0	1	0	14	24	2	0	3	6	0
born (cont'd)	Europe (EME-CEUR)	Rate	2.0	0.0	0.0	2.9	0.0	4.2	1.7	2.9	0.0	1.3	1.9	0.0
	Eastern Europe	Cases	17	0	0	0	0	1	13	0	0	0	3	0
	(EEUR)	Rate	5.1	0.0	0.0	0.0	0.0	1.5	9.9	0.0	0.0	0.0	9.3	0.0
	Eastern Mediterranean	Cases	121	0	0	1	0	15	72	2	0	12	19	0
	(EMR)	Rate	17.8	0.0	0.0	12.3	0.0	8.6	17.7	28.5	0.0	27.6	34.3	0.0
	South-East Asia	Cases	247	1	0	0	0	18	157	1	3	18	49	0
	(SEAR)	Rate	35.6	88.7	0.0	0.0	0.0	37.9	35.3	10.3	104.1	39.7	35.2	0.0
	Western Pacific Region	Cases	404	0	0	1	0	30	184	6	2	43	135	0
	(WPR)	Rate	24.5	0.0	0.0	13.7	0.0	25.2	23.3	20.1	15.5	27.5	26.5	0.0
	Unknown	Cases	28	0	0	0	0	7	21	0	0	0	0	0
		Rate	ı	ı	ı	-	ı	ı	ı	-	1	-	-	-
	Total foreign-born	Cases	1,042	1	0	4	1	143	540	24	9	92	231	0
		Rate	14.8	7.3	0.0	6.7	3.0	14.7	14.0	14.1	8.6	15.9	18.0	0.0
Unknown		Cases	26	0	0	1	0	0	50	0	0	0	5	0
		Rate	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı	ı
TOTAL		Cases	1,619	12	0	10	2	227	640	134	87	131	319	57
		Rate	5.0	2.4	0.0	1.1	0.3	3.0	5.0	11.4	8.8	3.9	7.4	54.8

Note: Rates with small case numbers may be unstable.

North includes Northwest Territories, Nunavut and Yukon Territory.

 Table 6
 Cont'd

Fable 7

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by main diagnostic site – Canada and provinces/territories: 2006

									Provi	Province/territory	itorv					
Main d	Main diagnostic site		CANADA	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
Respira-	Primary*	Cases	91	3	0	0	1	2	16	17	28	14	5	1	0	4
tory		Rate	0.3	9.0	0.0	0.0	0.1	0.0	0.1	1.4	2.8	0.4	0.1	3.2	0.0	13.2
	Pulmonary**	Cases	666	4	0	7	1	156	391	62	40	29	209	2	2	41
		Rate	3.1	0.8	0.0	0.7	0.1	2.0	3.1	6.7	4.1	2.0	4.8	6.4	4.7	134.9
	Other	Cases	66	2	0	1	0	10	30	14	6	9	25	0	0	2
	$\operatorname{respiratory}^{\scriptscriptstyle au}$	Rate	0.3	0.4	0.0	0.1	0.0	0.1	0.2	1.2	6.0	0.2	9.0	0.0	0.0	9.9
Non-	Miliary	Cases	22	1	0	0	0	4	7	8	1	9	0	0	0	0
respira- torv		Rate	0.1	0.2	0.0	0.0	0.0	0.1	0.1	0.3	0.1	0.2	0.0	0.0	0.0	0.0
	Meninges and	Cases	21	0	0	1	0	1	12	2	0	1	3	0	0	1
	CNS	Rate	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.2	0.0	0.0	0.1	0.0	0.0	3.3
	Peripheral	Cases	238	0	0	0	0	37	113	12	3	21	52	0	0	0
	lymph node	Rate	0.7	0.0	0.0	0.0	0.0	0.5	6.0	1.0	0.3	9.0	1.2	0.0	0.0	0.0
	Other‡	Cases	149	2	0	1	0	17	1.7	7	9	16	25	0	4	0
		Rate	0.5	0.4	0.0	0.1	0.0	0.2	9.0	9.0	9.0	0.5	9.0	0.0	9.4	0.0
Unknown		Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Rate	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	0.0
TOTAL		Cases	1,619	12	0	10	2	227	640	134	87	131	319	3	9	48
		Rate	5.0	2.4	0.0	1.1	0.3	3.0	5.0	11.4	8.8	3.9	7.4	9.6	14.2	157.9

* Primary includes primary respiratory tuberculosis and tuberculous pluerisy in primary progressive tuberculosis, (ICD-9 codes 010.0-010.9; ICD-10 A15.7 and A16.7).

Pulmonary includes tuberculosis of the lungs and conducting airways which includes tuberculous fibrosis of the lung, tuberculous bronchiectasis, tuberculous pneumonia, tuberculous pneumothorax, isolated tracheal or bronchial tuberculosis and tuberculous laryngitis; (ICD-9 codes 011-011.9, 012.2, 012.3; ICD-10 codes A15.0-A15.3, A15.5, A15.9, A16.0-A16.2, A16.4, A16.9). Other Respiratory includes tuberculous pleurisy (non-primary); tuberculosis of: intrathoracic lymph nodes, mediastinum, nasopharynx, nose (septum), and sinus (any nasal) (ICD-9 codes: 012.0, 012.1 and 012.8; ICD-10 codes: A15.4, A15.6, A15.8, A16.3, A16.5, A16.8). † Other includes tuberculosis of intestines, peritoneum and mesenteric glands, bones and joints, genitourinary system, skin, eye, ear, thyroid, adrenal and spleen.

Table 8

Reported	Reported new active and relapsed tubercul	relapsed	tubercu	iosis cases by birtuplace,	SES DY E	ardin m		ser ann age	dnois a	Canada				
-	يتواميا المرابعة		IVLOT						Age group	dn				
1	ыгиріасе		IOIAL	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75 +	Unknown
Canadian-	Aboriginal													
born	North American	Male	122	2	11	6	24	17	25	11	13	9	4	0
	Indian	Female	108	2	10	6	16	20	20	11	8	3	6	0
		Total	230	4	21	18	40	37	45	22	21	6	13	0
	Status	Male	119	2	10	6	24	17	24	11	12	9	4	0
	(registered) Indian	Female	104	2	10	6	15	19	20	10	7	3	6	0
		Total	223	4	20	18	39	36	44	21	19	6	13	0
	Non-status	Male	3	0	1	0	0	0	1	0	1	0	0	0
	Indian	Female	4	0	0	0	1	1	0	1	1	0	0	0
		Total	7	0	1	0	1	1	1	1	2	0	0	0
	Metis	Male	17	1	1	2	5	2	0	4	1	1	0	0
		Female	12	0	2	2	2	1	2	2	1	0	0	0
		Total	29	1	3	4	7	3	2	6	2	1	0	0
	Inuit	Male	32	1	2	2	11	3	9	2	2	3	0	0
		Female	29	2	1	3	13	3	4	1	1	1	0	0
		Total	61	3	3	5	24	9	10	3	3	4	0	0
	Total Aboriginal	Male	171	4	14	13	40	22	31	17	16	10	4	0
		Female	149	4	13	14	31	24	26	14	10	4	6	0
		Total	320	8	27	27	71	46	57	31	26	14	13	0
	Non-Aboriginal	Male	128	2	5	5	9	7	17	26	21	15	24	0
		Female	73	0	4	2	7	7	8	7	6	11	18	0
		Total	201	2	6	7	13	14	25	33	30	26	42	0
	Total Canadian-	Male	299	9	19	18	46	29	48	43	37	25	28	0
	born	Female	222	4	17	16	38	31	34	21	19	15	27	0
		Total	521	10	36	34	84	09	82	64	56	40	55	0

active and relansed tuberculosis cases by birthplace, sex and Table 8 Cont'd

Reported	Reported new active and relapsed tubercul	relapsed	tubercul		ses by k	osis cases by birthplace,		sex and ag	age group –		Canada: 2006	90			
	Rirthulsco		TOTAL						Age group	dn					
	on emphace		1017	< 1	1-4	5–14	15-24	25-34	35-44	45-54	55-64	65-74	75 +	Unknown	
Foreign-	Africa, High HIV	Male	51	0	0	1	12	16	16	4	1	0	1	0	
born	Prevalence (AFR-High)	Female	53	0	1	5	16	15	7	4	3	2	0	0	
		Total	104	0	1	9	28	31	23	8	4	2	1	0	
	Africa, Low HIV	Male	13	0	1	0	4	4	2	1	1	0	0	0	
	Prevalence (AFR-Low)	Female	8	0	1	0	2	3	1	0	0	0	1	0	
		Total	21	0	2	0	6	7	3	1	1	0	1	0	
	American Region -	Male	20	0	0	0	2	2	4	9	3	1	2	0	
	Latin American and Caribbean	Female	27	0	1	1	4	5	4	7	2	3	0	0	
	Countries (AMR)	Total	47	0	1	1	9	7	8	13	5	4	2	0	
	Established Market	Male	30	0	0	0	2	1	3	5	0	6	10	0	
	Economies and Central Europe	Female	23	0	0	0	0	0	4	0	4	7	8	0	
	(EME-CEUR)	Total	53	0	0	0	2	1	7	5	4	16	18	0	
	Eastern Europe	Male	8	0	0	0	3	1	0	0	1	0	3	0	
	(EEUR)	Female	6	0	0	0	2	4	0	1	1	1	0	0	
		Total	17	0	0	0	5	5	0	1	2	1	3	0	
	Eastern	Male	62	0	2	2	8	15	11	7	5	5	7	0	
	Mediterranean (EMR)	Female	29	0	0	0	15	10	11	5	5	9	7	0	
		Total	121	0	2	2	23	25	22	12	10	11	14	0	
	South-East Asia	Male	135	0	0	0	31	27	25	12	15	12	13	0	
	(SEAR)	Female	112	0	1	3	15	27	15	6	14	15	13	0	
		Total	247	0	1	3	46	54	40	21	29	27	26	0	
	Western Pacific	Male	206	0	0	3	22	17	30	32	21	29	52	0	
	Region (WPR)	Female	198	0	0	1	24	34	50	25	17	22	25	0	
		Total	404	0	0	4	46	51	80	57	38	51	77	0	

Reported new active and relapsed tuberculosis cases by birthplace, sex and age group - Canada: 2006
 Table 8
 Cont'd

	Distanton		IVLOT						Age group	dr				
Q	irtiipiace		TO I VI	< 1	1-4	5–14	15-24	25-34	35-44	45-54	55-64	65-74	75 +	Unknown
Foreign-	Unknown	Male	15	0	0	0	0	2	4	2	0	3	4	0
born (cont'd)		Female	13	0	0	0	1	2	5	2	0	0	3	0
		Total	28	0	0	0	I	4	6	4	0	8	7	0
	Total foreign-	Male	540	0	3	9	84	85	66	69	47	69	92	0
	born	Female	502	0	4	10	64	100	46	53	94	99	57	0
		Total	1,042	0	7	16	163	185	192	122	66	115	149	0
Unknown		Male	25	0	1	0	8	0	4	4	I	4	8	0
		Female	31	0	1	0	2	5	3	9	4	9	4	0
		Total	26	0	2	0	2	5	7	10	5	10	12	0
TOTAL		Male	864	9	23	24	133	114	147	116	85	88	128	0
		Female	755	4	22	26	119	136	134	80	69	77	88	0
		Total	1,619	10	45	50	252	250	281	196	154	165	216	0

Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group and main diagnostic site – Canada: 2006

Table 9

						Main diagnostic site	nostic site			
Age groun		TOTAL		Respiratory			Nonrespiratory	iratory		
Jan San San			Primary	Pulmonary	Other respiratory	Miliary	CNS	Lymph	Other	Unknown
< 1	Cases	10	7	3	0	0	0	0	0	0
	Rate	2.9	2.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
1 – 4	Cases	45	30	10	1	0	1	1	2	0
	Rate	3.3	2.2	0.7	0.1	0.0	0.1	0.1	0.1	0.0
5 – 14	Cases	20	26	11	3	1	0	7	2	0
	Rate	1.3	0.7	0.3	0.1	0.0	0.0	0.2	0.1	0.0
15 – 24	Cases	252	10	175	12	3	3	34	15	0
	Rate	5.7	0.2	3.9	0.3	0.1	0.1	0.8	0.3	0.0
25 - 34	Cases	250	5	133	21	3	4	58	26	0
	Rate	5.6	0.1	3.0	0.5	0.1	0.1	1.3	0.6	0.0
35 – 44	Cases	281	4	167	22	1	5	50	32	0
	Rate	5.6	0.1	3.3	0.4	0.0	0.1	1.0	0.6	0.0
45 – 54	Cases	196	4	127	10	9	4	24	21	0
	Rate	3.9	0.1	2.5	0.2	0.1	0.1	0.5	0.4	0.0
55 – 64	Cases	154	1	103	6	3	2	20	16	0
	Rate	4.2	0.0	2.8	0.2	0.1	0.1	0.5	0.4	0.0
65 – 74	Cases	165	2	112	5	0	1	27	18	0
	Rate	7.2	0.1	4.9	0.2	0.0	0.0	1.2	0.8	0.0
75 +	Cases	216	2	158	16	5	1	17	17	0
	Rate	10.6	0.1	7.7	0.8	0.2	0.0	0.8	0.8	0.0
Unknown	Cases	0	0	0	0	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	Cases	1,619	91	666	66	22	21	238	149	0
	Rate	5.0	0.3	3.1	0.3	0.1	0.1	0.7	0.5	0.0

Table 10

Reported new active and relapsed tuberculosis cases by birthplace and main diagnostic site - Canada: 2006

		Unknown		0	0	0	0	0	ı	0	ı	0	0	0	0	0	0
		Other‡ u		17	15	2	3	1	21	20	41	12	1	2	īC	1	11
	ratory	Lymph		10	6	1	1	0	11	14	25	19	4	18	ιC	3	14
c site	Nonrespiratory	CNS		7	7	0	0	1	3	4	7	3	0	0	1	0	3
Main diagnostic site		Miliary		ιC	īΟ	0	2	1	œ	1	6	1	0	1	7	2	0
Ma		Other respiratory [†]		25	23	2	3	2	30	14	44	2	0	1	2	1	5
	Respiratory	Pulmonary**		131	129	2	11	49	191	140	331	55	14	24	37	10	85
		Res Primary* Pulmo		40	40	0	6	7	56	8	64	7	2	1	1	0	3
	TOTAL			230	223	7	29	61	320	201	521	104	21	47	53	17	121
	Birthplace		Aboriginal	North American Indian	Status (registered) Indian	Non-status Indian	Metis	Inuit	Total Aboriginal	Non-Aboriginal	Total Canadian-born	Africa, High HIV Prevalence (AFR-High)	Africa, Low HIV Prevalence (AFR-Low)	American Region - Latin American and Caribbean Countries (AMR)	Established Market Economies and Central Europe (EME-CEUR)	Eastern Europe (EEUR)	Eastern Mediterranean (EMR)
			Canadian-	born								Foreign- born					

Reported new active and relapsed tuberculosis cases by birthplace and main diagnostic site – Canada: 2006 Table 10 Cont'd

					Má	Main diagnostic site	ic site			
	Birthplace	TOTAL		Respiratory			Nonrespiratory	oiratory		
	·		Primary*	Pulmonary**	Other respiratory [†]	Miliary	CNS	Lymph	Other‡	Unknown
Foreign-	South-East Asia (SEAR)	247	5	147	14	3	3	42	33	0
born $(cont'd)$	Western Pacific Region (WPR)	404	2	242	20	4	4	06	37	0
	Unknown	28	1	13	1	0	0	11	2	0
	Total foreign-born	1,042	27	627	51	13	14	206	104	1
Unknown		26	0	41	4	0	0	7	4	0
TOTAL		1,619	91	666	66	22	21	238	149	0

* Primary includes primary respiratory tuberculosis and tuberculous pluerisy in primary progressive tuberculosis, (ICD-9 codes 010.0-010.9; ICD-10 A15.7 and A16.7).

tuberculous pneumonia, tuberculous pneumothorax, isolated tracheal or bronchial tuberculosis and tuberculous laryngitis; (ICD-9 codes 011-011.9, 012.2, ** Pulmonary includes tuberculosis of the lungs and conducting airways which includes tuberculous fibrosis of the lung, tuberculous bronchiectasis, 012.3; ICD-10 codes A15.0-A15.3, A15.5, A15.9, A16.0-A16.2, A16.4, A16.9).

⁺ Other Respiratory includes tuberculous pleurisy (non-primary); tuberculosis of: intrathoracic lymph nodes, mediastinum, nasopharynx, nose (septum), and sinus (any nasal) (ICD-9 codes: 012.0, 012.1 and 012.8; ICD-10 codes: A15.4, A15.6, A15.8; A16.3, A16.5, A16.8).

‡ Other includes tuberculosis of intestines, peritoneum and mesenteric glands, bones and joints, genitourinary system, skin, eye, ear, thyroid, adrenal and

Table 11

Canadian-born Activity status Activity status Canadian-born Aboriginal 230 211 19 0 Status (registered) Indian 223 204 19 0 Non-status indian 223 204 19 0 Non-status indian 223 204 19 0 India Metis 29 203 5 0 Non-status indian 320 203 27 0 0 Non-status indian 201 173 21 0 0 Non-shoriginal 201 173 21 7 0 Non-shoriginal 201 173 21 0 0 Non-shoriginal 201 173 21 0 0 0 Africa, Low HVI Prevalence 21 19 2 0 0 0 0 Africa, Low HVI Prevalence 21 19 4 1 1 1 1 American Regi	Reported ne	Reported new active and relapsed tubercu		losis cases by birthplace and activity status - Canada: 2006	us – Canada: 2006	
North American Indian American Region American Region American Region American Region Latin American Latin American Region Latin American Latin American		Disthaloco	INTOT		Activity status	
no-born Moriginal Aboriginal 230 211 19 Control American Indian 230 211 19 Control American Indian 223 204 19 Control American Indian 223 204 19 Control American Indian 23 26 3 Control American Indian 27 0 0 3 Control American Indian 27 0 23 27 0 27 27 0 27 0 27 0 27		bittipiace	10171	New active cases	Relapsed cases	Unknown status
North American Indian 230 211 19 Status (registered) Indian 223 204 19 Non-status Indian 7 7 0 Inuit 61 56 3 Non-Aborignal 201 173 21 Africa, High HV Prevalence 104 92 6 Africa, Low HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 21 16 4 Africa, Low HIV Prevalence 21 1 2 Countries (AMR) 12 48 4 Established Market Economics 23 2 2	Canadian-born	Aboriginal				
Status (registered) Indian 223 204 19 Non-status Indian 7 7 0 Metis 29 26 3 Inuit 61 56 3 Total Aboriginal 320 293 27 Non-Aboriginal 201 173 21 Arria, High HIV Prevalence 104 92 6 Africa, High HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 21 19 2 American Region - Latin 47 45 4 American Region - Latin 47 45 4 American Region Europe (ELIR) 17 14 1 Esteriblished Market Economics 53 48 4 Esteriblished Market Economics 53 48 4 Esteriblished Market Economics 53 22 1 Esteriblished Market Economics 53 22 1		North American Indian	230	211	19	0
Metis 7 7 0 Metis 29 26 3 Inuit 61 56 3 Inuit 61 56 5 Invial-Moriginal 320 293 27 Non-Aboriginal 201 173 21 Non-Aboriginal 201 466 48 Non-Aboriginal 201 173 21 Africa, High HIV Prevalence 104 92 6 (ARE-Low) Africa, Low HIV Prevalence 21 19 2 (ARE-Low) American Region - Latin 47 48 4 American and Carribbean 47 48 4 7 Countries (AMR) 17 14 1 1 Established Market Economics 53 48 4 7 Established Market Economics 53 48 4 1 Eastern Europe (EME-CEUR) 121 14 1 1 Eastern Europe (EME-CEUR) 404		Status (registered) Indian	223	204	19	0
Metis 29 26 3 Inuit 61 56 5 Total Aboriginal 320 293 27 Non-Aboriginal 201 173 21 Africa, Lugh 104 92 6 Africa, Lugh 446 92 6 Africa, Low HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 21 4 4 American Region - Latin 47 48 4 American Region - Latin 47 1 1 Established Market Economics 5 48 4 and Central Europe (EEUR) 17 114 11 Established Market Economics 247 214 11 South-East Asia (SEAR)		Non-status Indian	7	7	0	0
Inuit 61 56 5 Total Aboriginal 320 293 27 Non-Aboriginal 201 173 21 -born Africa, High HIV Prevalence 104 92 6 Africa, High HIV Prevalence 21 19 2 Africa, High HIV Prevalence 21 6 6 American Region - Latin 47 45 0 Stabilished Market Economies 53 48 4 Established Market Economies 53 48 4 Estern Europe (EME-CEUR) 17 14 1 Eastern Mediterranean (EMR) 121 14 1 Western Pacific Region (WPR) 247 24		Metis	29	26	3	0
Total Aboriginal 320 293 27 Non-Aboriginal 201 173 21 -born Africa, High HIV Prevalence 104 92 6 -born Africa, Low HIV Prevalence 21 19 6 Africa, Low HIV Prevalence 21 19 6 Africa, Low HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 47 45 0 Countries (AMR) 47 48 4 Established Market Economies 53 48 4 Eastern Europe (EEUR) 17 14 1 Eastern Europe (EEUR) 121 108 7 Bastern Mediterranean (EMR) 247 214 13 Western Pacific Region (WPR) 404 353 37 1 Unknown 26 22 5 VAL 1,642 919		Inuit	61	56	5	0
Non-Aboriginal 201 173 21 -born Africa, High HIV Prevalence 104 92 6 -born Africa, High HIV Prevalence 21 92 6 Africa, Low HIV Prevalence 21 19 2 Africa, Low HIV Prevalence 21 9 2 Africa, Low HIV Prevalence 47 45 0 Africa, Low HIV Prevalence 47 45 0 Africa, Low HIV Prevalence 47 45 0 Countries Cantral Europe (EME-CEUR) 53 4 4 Established Market Economies 53 4 5 Eastern Europe (EME-CEUR) 17 14 1 Eastern Mediterranean (EMR) 121 108 7 South-East Asia (SEAR) 247 214 13 Western Pacific Region (WPR) 404 353 1 Unknown 28 26 2 Unknown 56 48 5 Art 1,4133 1125		Total Aboriginal	320	293	27	0
Form Africa, High HIV Prevalence (AFR-High) 521 466 48 466 48 466 48 48 48 48 45 6 48 47 47 48 47 48 48 48 48 44 47 48 48 44 44 44 44 44 44 44 44 44 44 44 44 404 353 37 11 44		Non-Aboriginal	201	173	2.1	7
-born (AFR-High) Africa, High HIV Prevalence (AFR-Ligh) 104 92 6 Africa, Low HIV Prevalence (AFR-Low) 21 19 2 American Region - Latin American and Caribbean Countries (AMR) 47 45 0 Established Market Economies and Central Europe (EME-CEUR) 53 48 4 1 Established Market Economies and Central Europe (EME-CEUR) 17 14 1 1 Eastern Europe (EEUR) 17 14 1 2 Eastern Mediterranean (EMR) 247 214 13 2 Western Pacific Region (WPR) 404 353 37 1 Unknown 28 26 2 5 Unknown 56 48 5 5 And 7 919 72 5 And 7 919 72 5 And 7 6 48 5 6 And 7 6 48 5 6 And 7		Total Canadian-born	521	466	48	7
Africa, Low HIV Prevalence (AFR-Low) 21 19 2 American Region - Latin American and Caribbean Countries (AMR) 47 45 0 Established Market Economics and Central Europe (EME-CEUR) 17 14 1 Established Market Economics and Central Europe (EME-CEUR) 17 14 1 Established Market Economics and Central Europe (EME-CEUR) 17 14 1 Eastern Europe (EEUR) 121 108 7 1 Eastern Mediterranean (EMR) 247 214 13 2 South-East Asia (SEAR) 247 214 13 1 Western Pacific Region (WPR) 404 353 2 2 Unknown 28 26 2 2 Unknown 1,042 919 72 5 wn 56 48 5 6 Annal American (EMR) 1,619 1,433 125 6	Foreign-born	Africa, High HIV Prevalence (AFR-High)	104	92	9	9
American Region - Latin American and Caribbean Countries (AMR) 47 48 0 Established Market Economies and Central Europe (EME-CEUR) 17 14 1 Eastern Europe (EEUR) 121 108 7 Eastern Mediterranean (EMR) 121 108 7 South-East Asia (SEAR) 247 214 13 Western Pacific Region (WPR) 404 353 37 Unknown 28 26 2 Unknown 56 48 5 Van 56 48 5 Ann 1,619 1,433 125		Africa, Low HIV Prevalence (AFR-Low)	21	19	2	0
Established Market Economies and Central Europe (EME-CEUR) 53 48 4 Eastern Europe (EUR) 17 14 1 Eastern Europe (EUR) 121 108 7 Eastern Mediterranean (EMR) 247 214 13 South-East Asia (SEAR) 404 353 37 Western Pacific Region (WPR) 404 353 37 Unknown 28 26 2 Unknown 56 48 5 wn 56 48 5 wn 56 1,433 125		American Region - Latin American and Caribbean Countries (AMR)	47	45	0	2
Eastern Europe (EEUR) 17 1 Eastern Mediterranean (EMR) 121 7 7 South-East Asia (SEAR) 247 214 13 7 Western Pacific Region (WPR) 404 353 37 7 Unknown 28 2 2 Votal foreign-born 1,042 919 72 wn 56 48 5 5 Nn 56 48 5 72 1,619 1,433 125 72		Established Market Economies and Central Europe (EME-CEUR)	53	48	4	1
Eastern Mediterranean (EMR) 121 108 7 South-East Asia (SEAR) 247 13 13 Western Pacific Region (WPR) 404 353 37 Unknown 28 26 2 Total foreign-born 1,042 919 72 wn 56 48 5 1,619 1,433 125		Eastern Europe (EEUR)	17	14	1	2
South–East Asia (SEAR) 247 13 13 Western Pacific Region (WPR) 404 353 37 Unknown 28 26 2 Total foreign-born 1,042 919 72 wn 56 48 5 1,619 1,433 125		Eastern Mediterranean (EMR)	121	108	7	9
Western Pacific Region (WPR) 404 353 37 Unknown 28 26 2 Total foreign-born 1,042 919 72 wn 56 48 5 1,619 1,433 125		South-East Asia (SEAR)	247	214	13	20
Unknown 28 26 2 Total foreign-born 1,042 919 72 5 wn 56 48 5 6 1,619 1,433 125 6		Western Pacific Region (WPR)	404	353	37	14
Total foreign-born 1,042 919 72 Wn 56 48 5 1,619 1,433 125		Unknown	28	26	2	0
wn 56 48 5 5 1,619 1,433 125		Total foreign-born	1,042	919	72	51
1,619 1,433 125	Unknown		26	48	5	3
	TOTAL		1,619	1,433	125	61

Reported new active and relapsed tuberculosis cases by bacterial status - Canada and provinces/territories: 2006 Table 12

T T					- 1		- 1					- 1		
Description of the state of	CANIADA						Provi	Province/territory	itory					
bacterial status	CANADA	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
1. Culture positive														
a. Microscopy positive	589	5	0	5	2	74	246	53	24	34	131	1	2	12
b. Microscopy negative	638	9	0	3	0	88	224	62	29	63	134	1	2	26
c. Microscopy unknown	88	1	0	0	0	43	32	0	0	4	8	0	0	0
Total	1,315	12	0	8	2	205	502	115	53	101	273	2	4	38
2. Culture negative														
a. Microscopy positive	13	0	0	0	0	1	5	0	1	1	4	0	1	0
b. Microscopy negative	87	0	0	1	0	10	23	14	5	0	27	0	0	7
c. Microscopy unknown	5	0	0	0	0	1	3	0	0	0	1	0	0	0
Total	105	0	0	1	0	12	31	14	9	1	32	0	1	7
3. Culture unknown														
a. Microscopy positive	20	0	0	0	0	4	12	3	1	0	0	0	0	0
b. Microscopy negative	17	0	0	0	0	2	12	2	0	0	1	0	0	0
c. Microscopy unknown	162	0	0	1	0	4	83	0	27	29	13	1	1	3
Total	199	0	0	1	0	10	107	5	28	29	14	1	1	3
TOTAL	1,619	12	0	10	2	227	640	134	87	131	319	3	9	48

Table 13 Reported new active and relapsed tuberculosis cases by bacterial status and birthplace – Canada: 2006	relapsed tuberculosi	s cases by bacterial	status and birthpla	ce – Canada: 2006	
•	1		Birthplace	olace	
Bacterial status	TOTAL	Canadian-born Aboriginal	Canadian-born non-Aboriginal	Foreign-born	Unknown birthplace
1. Culture positive					
a. Microscopy positive	589	108	82	382	17
b. Microscopy negative	638	138	63	416	21
c. Microscopy unknown	88	9	15	62	5
Total	1,315	252	160	098	43
2. Culture negative					
a. Microscopy positive	13	2	1	10	
b. Microscopy negative	87	28	10	48	1
c. Microscopy unknown	ıc	0		5	
Total	105	30	11	63	1
3. Culture unknown					
a. Microscopy positive	20	1	4	13	2
b. Microscopy negative	17	2	1	13	1
c. Microscopy unknown	162	35	25	93	6
Total	199	38	30	119	12
TOTAL	1,619	320	201	1,042	56

Reported new active and relapsed tuberculosis cases by bacterial status and main diagnostic site - Canada: 2006 Table 14

*					Main diagnostic site	nostic site			
Bacterial status	TOTAL		Respiratory			Nonrespiratory	iratory		
		Primary	Pulmonary	Other respiratory	Miliary	CNS	Lymph	Other	Unknown
1. Culture positive									
a. Microscopy positive	289	11	447	20	8	3	49	36	0
b. Microscopy negative	638	25	393	45	11	6	56	09	0
c. Microscopy unknown	88	0	68	8	2	2	25	12	0
Total	1,315	36	648	73	21	14	184	108	0
2. Culture negative									
a. Microscopy positive	13	2	2	0	0	0	2	1	0
b. Microscopy negative	87	16	88	16	1	2	10	4	0
c. Microscopy unknown	5	0	8	0	0	0	2	0	0
Total	105	18	46	16	1	2	11	5	0
3. Culture unknown									
a. Microscopy positive	20	1	12	0	0	1	4	2	0
b. Microscopy negative	17	2	7	0	0	0	2	3	0
c. Microscopy unknown	162	34	52	10	0	4	28	31	0
Total	199	37	74	10	0	5	3.7	36	0
TOTAL	1,619	91	666	66	22	21	238	149	0

Fable 15

Pattern of reported drug resistance to first-line anti-tuberculosis drugs at time of reporting by birthplace - Canada: 2006

Unknown ^ $^{\circ}$ Foreign-born Origin Non-Aboriginal Canadian-born Aboriginal 1,315 1,135 **TOTAL** Resistance to one or more drugs Multi-drug resistance (MDR-TB) Resistance pattern unknown Drug pattern **Total monoresistance** Total other patterns INH & EMB & RMP & PZA Total positive culture Total MDR-TB INH & RMP & EMB INH & RMP & PZA Monoresistance Other patterns No resistance INH & EMB INH & RMP RMP EMB INH PZA

information on drug resistance, please refer to Tuberculosis: Drug resistance in Canada, 2006 (www.phac-aspc.gc.ca/publicat/tbdrc06/index.html) which reported drug susceptibility results for Mycobacterium isolates tested in 2005. NOTE: As of 2005, streptomycin was considered a second-line TB antibiotic in Canada, even though it may be used for initial treatment. For additional

Table 16

1	1					1				1				
	KUKINKU						Provi	Province/territory	tory					
Case Imaing	CANADA	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
Immigration	69	0	0	0	0	0	42	1	0	9	20	0	0	0
Symptoms/incidental findings	1,218	8	0	6	2	165	497	88	53	104	264	1	9	21
Contact investigation	150	4	0	0	0	7	15	40	30	15	14	2	0	23
Post-mortem	15	0	0	0	0	4	1	2	1	1	9	0	0	0
Screening	09	0	0	1	0	10	29	1	3	2	11	0	0	3
Other	48	0	0	0	0	28	13	0	0	3	3	0	0	1
Unknown	59	0	0	0	0	13	43	2	0	0	1	0	0	0
TOTAL	1,619	12	0	10	2	227	640	134	87	131	319	3	9	48

Table 17

Reported new active and relapsed tuberculosis cases by method of detection and birthplace - Canada: 2006

Non-status Indian					Birthplace			
Case finding TOTAL Status (registered) Indian Non-status Indian Metis (registered) Indian ation 69 0 0 0 ms/incidental findings 1,218 137 6 0 ortem 15 2 0 0 0 r-investigation 150 3 1 1 0 ng 60 3 1 0 <th></th> <th></th> <th></th> <th>Canadian-born</th> <th></th> <th></th> <th></th> <th></th>				Canadian-born				
ation 69 0 0 oms/incidental findings 1,218 137 6 ortem 15 2 6 investigation 150 79 0 ng 60 3 1 ng 48 0 0 nm 59 2 0 1,619 203 7		Status (registered) Indian		Metis	Inuit	Non- Aboriginal	Foreign- born	Unknown birthplace
ons/incidental findings 1,218 137 6 ortem 15 2 0 -investigation 150 79 0 ng 60 3 1 vn 59 2 0 vn 1619 223 7				0	0	0	69	0
ortem 15 2 0 0 1-investigation 150 79 0 0 1 150				21	7.2	153	842	32
-investigation 150 79 0 ng 60 3 1 s 48 0 0 vn 59 2 0 1619 233 7				1	0	5	4	3
ng 60 3 1 48 0 0 0 An 59 2 0				9	30	12	21	2
An 59 2 0 1 1619 223 7			1	1	3	7	41	4
An 59 2 0 1 1 619 223 7				0	1	22	22	3
1 619 233 7				0	0	2	43	12
, , , , , , , , , , , , , , , , , , , ,	1,6	19 223		29	61	201	1,042	56

Fable 18

	Unk.	9	1	3	9	1	2	12	26	21	26
	2006	21	3	4	1	2	16	34	31	0	31
	2005	16	4	2	0	2	17	23	23	1	23
	2004	16	7	0	0	1	6	18	18	0	18
	2003	ιC	4	0	0	1	7	22	20	1	20
	2002	3	0	3	0	1	12	15	17	1	17
	2001	10	0	0	0	2	7	14	23	0	23
ival	2000	2	1	0	0	0	4	15	10	1	10
r of arr	1999	0	1	1	3	0	3	9	12	0	12
Yea	1998	0	0	0	0	0	4	5	6	0	6
	1997	3	1	7	1	0	9	2	6	0	6
	1996	2	1	0	0	1	3	5	13	1	13
	1995	1	0	0	0	0	2	8	10	0	10
	1985- 1994	10	3	20	5	3	24	44	123	0	123
	1975- 1984	1	0	8	2	1	4	15	38	1	38
	1965- 1974	7	0	3	11	0	1	6	17	1	11
	<pre> < 1964</pre>	1	0	1	24	2	0	0	5	0	5
	TOTAL	104	21	47	53	17	121	247	404	28	1,042
Birthnlace	(WHO region)	Africa, High HIV Prevalence (AFR-High)	Africa, Low HIV Prevalence (AFR-Low)	American Region - Latin American and Caribbean Countries (AMR)	Established Market Economies and Central Europe (EME-CEUR)	Eastern Europe (EEUR)	Eastern Mediterranean (EMR)	South-East Asia (SEAR)	Western Pacific Region (WPR)	Unknown	TOTAL
	Year of arrival	TOTAL \$\leq\$ 1965- \frac{1975-}{1964} \frac{1975-}{1984} \frac{1998}{1994} \frac{1995}{1994} \frac{1995}{1994} \frac{1997}{1994} \frac{1999}{1994} \frac{1999}{2000} \frac{20001}{2000} \frac{2000}{2000} \frac{2000} \frac{2000}{20	Year of arrival TOTAL \$\leq\$ 1965- \frac{1975-}{1974} \frac{1985-}{1994} \frac{1995}{1994} \frac{1996}{1994} \frac{1996}{1997} \frac{1998}{1994} \frac{1999}{2000} \frac{1999}{2000} \frac{2000}{2001} \frac{2000}{2000} \frac{2000}{2001} \frac{2002}{2003} \frac{2004}{2005} \frac{2006}{2006} \frac{101}{2001} \frac{101}{2002} \frac{1001}{2001} \frac{101}{2002} \frac{101}{2002} \frac{1001}{2004} \frac{101}{2005} \frac{1001}{2006} \frac{101}{2001} \frac{101}{2002} \frac{1001}{2001} \frac{101}{2002} \frac{1001}{2004} \frac{1000}{2004} \frac{10000}{2004} \frac{1000}{2004} \frac{1000}{2004} \frac{10000}{2004} \frac{10000}{2004} 1000	TOTAL \$\leq\$ 1965- 1975- 1985- 1994 1994 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	TOTAL S 1965- 1975- 1985- 1994 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 Unlike	TOTAL S 1965 1975 1985 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 University	TOTAL	TOTAL	TOTAL 1965 1975 1985 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 University	TOTAL S 1965 1974 1984 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 University	TOTAL S 1965 1975 1985 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 University

Table 19

Reported new active and relapsed foreign-born tuberculosis cases by immigration status – Canada and provinces/ territories: 2006

ortoto moitomoimmi	CANADA						Provi	Province/territory	itory					
mmgrauon status	CANADA	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
Canadian citizen/ permanent resident	622	0	0	1	0	0	312	21	4	85	199	0	0	0
Refugee claimant	36	0	0	0	0	0	32	0	1	1	2	0	0	0
Other temporary resident (visitor, student, foreign nationals without status in Canada)	24	0	0	0	0	0	0	0	1	4	19	0	0	0
Other	38	0	0	2	1	0	30	2	0	1	2	0	0	0
Unknown	322	1	0	1	0	143	166	1	0	1	6	0	0	0
TOTAL	1,042	1	0	4	1	143	540	24	9	92	231	0	0	0

Table 20

Reported relapsed tuberculosis cases by length of inactive interval - Canada and provinces/territories: 2006

N.L. N.L. N.L. N.L. Canada N.L.	P.E.I. 0 0	N.S.	2									
22 25 5 Try		0	N. B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
22 5 5			0	0	0	0	0	0	0	0	0	0
rs 10		0	0	4	0	9	2	1	8	0	0	1
10	0 (0	0	0	0	0	1	1	3	0	0	0
	0 (0	0	3	0	0	2	1	3	0	1	0
20+ years 41 2	0 7	1	0	10	0	2	3	4	16	0	0	3
Unknown 47 1	0 1	0	0	3	39	1	0	1	2	0	0	0
TOTAL 125 3	3 0	1	0	20	39	6	8	8	32	0	1	4

Table 21

 $\overline{}$ Ž, Reported new active and relapsed tuberculosis cases who died, by cause of death - Canada and provinces/territories: 2006 N.W.T. Y.T. B.C. Alta. Ŋ ∞ α α α Sask. Province/territory d **N** Man. $\mathcal{C}_{\mathbf{J}}$ \sim Ont. α d $^{\prime\prime}$ Que. N.B. $\overline{}$ _ I N.S. P.E.I. α Z.L 2.7 3.0 2.0 9.0 6.9 7.5 1.3 3.3 0.2 total cases Percent of reported for year CANADA Š. TB did not contribute to death but was an incidental finding TB did not contribute to death but was an incidental finding Cases reported in 2006 who was not the underlying cause was not the underlying cause Update on 2005 cases who TB contributed to death but TB contributed to death but TB was the cause of death TB was the cause of death died before or during Cause of death died in 2006** treatment* Unknown Unknown TOTAL TOTAL

* Updates include results from both case and outcome reports.

^{**} Includes results from case reports only.

Table 22

Reported new active and relapsed tuberculosis cases who died, by age group and sex – Canada and provinces/territories: 2006

) o	IVLOT					Age group	roup				
YAC	10171	< 1	1 – 4	5 – 14	15 - 24	25 – 34	35 - 44	45 - 54	55 - 64	65 – 74	75 +
Update on 2005 cases who died before or during treatment*											
Male	80	0	1	0	2	1	7	14	6	15	31
Female	43	0	0	0	1	1	5	5	8	6	14
TOTAL	123	0	1	0	3	2	12	19	17	24	45
Cases reported in 2006 who died in 2006**											
Male	89	0	0	0	2	0	4	6	8	14	31
Female	43	0	0	1	0	2	2	4	4	6	21
TOTAL	111	0	0	1	2	2	9	13	12	23	52

 $^{^{\}ast}$ Updates include results from both case and outcome reports. ** Includes results from case reports only.

Table 23

Reported new active and relapsed tuberculosis cases by HIV status - Canada and provinces/territories: 2006

Onto A VIII	KUKINKU						Provi	Province/territory	itory					
HIV Status	CANADA	N.L.	N.L. P.E.I.	N.S.	N.S. N.B.	Que.	Ont.	Man.	Man. Sask.	Alta.	B.C.	Y.T.	Y.T. N.W.T.	Nvt.
Positive	62	0	0	1	0	3	22	9	0	7	23	0	0	0
Negative	379	2	0	2	2	46	2	25	0	91	161	2	4	42
Unknown	1,178	10	0	7	0	178	616	103	87	33	135	1	2	9
TOTAL	1,619	12	0	10	2	227	640	134	87	131	319	3	9	48

Table 24

Treatment outcome status – Canada and provinces/territories: 2005

		(Treatmen	Treatment outcome			
	TOTAL	Cure	Treatment completed without culture	Death during treatment	Trans- ferred	Absconded	Treatment ongoing	Other	Unknown
CANADA	1,642	86	1,119	123	40	32	36	20	174
Province/territory									
Newfoundland and Labrador	6	2	4	1	0	0	0	2	0
Prince Edward Island	1	0	0	0	0	0	1	0	0
Nova Scotia	7	2	4	1	0	0	0	0	0
New Brunswick	9	1	4	0	0	0	0	0	1
Quebec	255	11	62	17	5	4	0	2	154
Ontario	643	0	514	51	16	6	27	8	18
Manitoba	114	3	94	7	4	1	2	3	0
Saskatchewan	139	0	126	4	0	6	0	0	0
Alberta	146	33	96	11	4	0	1	1	0
British Columbia	266	15	193	29	11	6	4	4	1
Yukon	3	0	3	0	0	0	0	0	0
Northwest Territories	8	4	3	1	0	0	0	0	0
Nunavut	45	27	16	1	0	0	1	0	0

Table 25
Treatment outcome status by treatment regimen – Canada: 2005

					Treatment outcome	toutcome			
Treatment regimen	TOTAL	Cure	Treatment completed without culture	Death during treatment	Trans- ferred	Absconded	Treatment	Other	Unknown
TOTAL	1,642	86	1,119	123	40	32	36	20	174
INH (isoniazid)	9	0	7.	0	0	0	0	0	1
RMP other drug(s)	4	1	0	0	0	0	1	0	2
EMB & other drug(s)	9	0	3	0	0	0	2	1	0
Others	2	0	1	1	0	0	0	0	0
INH&RMP	146	2	120	5	2	8	9	1	2
INH & RMP & other drug(s)	3	1	1	1	0	0	0	0	0
INH & RMP & EMB	46	1	39	1	0	1	1	1	2
INH & RMP & EMB & other drug(s)	12	0	12	0	0	0	0	0	0
INH & RMP& PZA	103	13	74	9	1	2	1	5	1
INH & RMP& PZA & other drug(s)	49	11	35	2	0	0	0	1	0
INH & RMP & EMB & PZA	472	48	366	22	14	11	9	0	5
INH & RMP & EMB & PZA & other drug(s)	31	9	20	3	0	1	0	1	0
INH & EMB	2	0	2	0	0	0	0	0	0
INH & EMB & other drug(s)	2	0	2	0	0	0	0	0	0
INH & PZA & other drug(s)	1	0	0	0	0	0	1	0	0
INH & PZA & EMB	10	0	8	0	1	0	0	1	0
INH & PZA & EMB & other drug(s)	5	2	2	1	0	0	0	0	0
PZA & EMB & other drug(s)	2	0	2	0	0	0	0	0	0
RMP & EMB	4	0	4	0	0	0	0	0	0
RMP & EMB & other drug(s)	8	0	7	0	0	0	0	1	0
RMP & PZA	1	0	0	0	0	0	0	0	1
RMP & PZA & other drug(s)	1	0	1	0	0	0	0	0	0

 Table 25
 Cont'd

Treatment outcome status by treatment regimen - Canada: 2005

					Treatment outcome	outcome			
Treatment regimen	TOTAL	Cure	Treatment completed without culture	Death during treatment	Trans- ferred	Absconded Treatment ongoing	Treatment ongoing	Other	Unknown
RMP & PZA & EMB	4	1	3	0	0	0	0	0	0
RMP & PZA & EMB & other drug(s)	4	1	2	0	0	0	0	1	0
None prescribed	28	0	0	20	5	2	1	0	0
Unknown	069	11	410	61	17	7	17	7	160

Table 26

Treatment outcome status by major mode of treatment - Canada: 2005

					Treatment outcome	outcome			
Major mode of treatment	TOTAL	Cure	Treatment completed without culture	Death during treatment	Transferred Absconded	Absconded	Treatment ongoing	Other	Unknown
DOT (daily/intermittent)	800	74	616	43	17	10	25	6	9
Daily – self administered	547	23	461	12	16	17	6	9	3
Other	74	1	30	37	1	1	0	4	0
Unknown	221	0	12	31	9	4	2	1	165
TOTAL	1,642	86	1,119	123	40	32	36	20	174

Table 27

Treatment outcome status by compliance	status by co		itimate – Ca	estimate – Canada: 2005					
					Treatment outcome	outcome			
Compliance estimate	TOTAL	Cure	Treatment completed without culture	Death during treatment	Transferred Absconded	Absconded	Treatment ongoing	Other	Unknown
< 50%	17	0	4	7	1	4	0	1	0
50–79%	55	2	21	8	3	16	1	4	0
> 80%	1,188	95	1,000	48	20	4	10	9	2
Unknown	382	1	94	09	16	8	25	9	172
TOTAL	1,642	86	1,119	123	40	32	36	20	174

APPENDIX II TECHNICAL NOTES

CONCEPTS, METHODS AND DATA QUALITY

The following information describes the strengths and limitations of the data in this report and how these data can be effectively used and interpreted. This information may be of particular importance when making comparisons with data from previous *TB* in *Canada* reports or other sources of *TB* information.

Data sources

The Canadian Tuberculosis Reporting System (CTBRS) is maintained by Tuberculosis Prevention and Control (TBPC), Public Health Agency of Canada. This surveillance system is derived from records of provincial/territorial tuberculosis registries that capture information on every new active and relapsed case of tuberculosis and on the treatment outcome for these cases.

All provinces/territories voluntarily submit their case and outcome data to TBPC. Case data for four of the thirteen provinces/territories are submitted electronically (Alberta, Ontario, Quebec and Saskatchewan). The remaining provinces/territories submit paper reporting forms (See Appendix VII). Outcome data are submitted electronically from Alberta, Saskatchewan and Ontario. Quebec submits aggregated outcome data. The remaining provinces submit outcome results on paper forms.

Reference period

The information contained in this report reflects the number of new and relapsed cases diagnosed between January 1, 2006 to December 31, 2006. Outcomes are reported on patients diagnosed between January 1, 2005 to December 31, 2005. Tables 1 through 4 present historical counts and rates for the years 1996 to 2006 inclusive. The data in this report reflects the data submitted to the Public Health Agency of Canada as of October 15, 2008. Updates because of late reporting will be reflected in the 2007 report.

Data quality and validation

Prior to the analysis and publication, all data are reviewed for errors, inconsistencies and incomplete reporting. Follow-up is done with the reporting jurisdictions identifying any concerns or problems with the reported data. Previously reported data are also subject to revision in the event of late reporting or when revised information from the provinces/territories is received. Revisions are disseminated in subsequent reports.

Prior to the publication of *TB* in *Canada*, a pre-release containing selected tables is produced. The pre-release is sent to the provinces/territories for verification and is subsequently posted to the Public Health Agency of Canada website, http://www.phac-aspc.gc.ca/tbpc-latb/index.html.

Data accuracy

The methods used to collect and analyze the data in this report have been designed to minimize error. However, surveillance data are subject to certain types of error (e.g., coverage, measurement and processing error).

The accuracy of the data (including completeness and coverage of the population of interest) is partially a function of timely reporting/updates to TBPC from the provinces/territories. Some degree of lag does occur (i.e., reporting delay), almost exclusively affecting preliminary data and rarely the final data.

In general, the majority of data elements for case and outcome reports submitted to TBPC are complete. Reporting is less complete for some of the data elements introduced in 1997 such as HIV status. Historically, Ontario and Quebec have not had the capacity to report individual treatment outcomes. Prior to 2005 both Ontario and Quebec submitted outcome data in aggregated form only. In 2005 Ontario began submitting individual outcome data but Quebec continues to submit only aggregated outcome data.

Provinces/territories do not always report outcomes for all cases. However reporting is improving and the percentage of outcomes reported in 2006 for 2005 cases was 89% of all cases. Ongoing work with the provinces/territories will ensure that the data reported in the *TB in Canada* reports correspond with those reported at the provincial/territorial level.

The data reported may be subject to coding, reporting and processing errors that cannot be detected and are not corrected at the source. Not all provinces/territories use ICD 9 or ICD 10 coding systems for disease, which are used to classify patients according to the main diagnostic site (see Table 4). Efforts are made to work with those provinces/territories using alternate coding systems to ensure that diagnostic reporting is as accurate as possible.

Rates

Rates are expressed as the number of cases reported each calendar year per 100,000 population. The denominators used to calculate rates for total Canadian, provincial/territorial, total Canadian-born Aboriginal, Inuit and Métis were derived from official and custom census products from Statistics Canada, Demography Division. ¹²

The rates presented for the total Aboriginal population including Métis, Inuit and North American Indian (combining Status (registered) Indian and non-Status Indian counts) were derived from the 2001 Census data published in the *Projections of the Aboriginal populations, Canada, provinces and territories, 2001 to 2017.* ¹³

Current and historical incidence rates for the Status (registered) Indian population are based on population estimates from Indian Affairs and Northern Affairs Canada. These estimates are considered a more accurate reflection of the true counts of the Status Indian population. However, using different sources does introduce possibility of conflicting numbers. As a result, caution should be observed when drawing comparative conclusions between the Status (registered) Indian and other origin groups.

¹² Statistics Canada, Demography Division, Demographic, Estimates Section, Population estimates 0-90+, July, Canada – Provinces/Territories 1971-2005, updated February, 2008.

¹³ Projections of the Aboriginal populations, Canada, provinces and territories 2001 to 2017 Demography Division, Statistics Canada Catalogue No. 91-547-XIE.

¹⁴ INAC, Registered Indian Population by Sex and Residence 2005. Available at: http://www.ainc-inac.gc.ca/pr/sts/rip/rip05 e.pdf.

Prior to 2003, in the annual *Tuberculosis In Canada* reports, the case counts for Métis and non-Status Indians were combined into one aggregated number and as populations counts were not available, incidence rates were not calculated. In 2003 population estimates for Métis were produced by Statistics Canada, Demography Division, enabling the reporting of rates for this population. Starting in 2003, case counts for Métis were separated from those for non-Status counts and rates for the Métis were reported – accurate population counts for the non-Status Indian are not available and so incidence rates are not able to be calculated. Some jurisdictions have not been able to distinguish non-Status from Métis cases due to constraints with their TB program's reporting system. National rates for the Métis may be over inflated and need to be interpreted cautiously. It is hoped that in working with the jurisdictions these number will become more accurate in future reports.

Incidence rates in the foreign-born population from 2001 forward are based on population estimates from the Canadian census, a Statistics Canada, Demography Division customized product.

Incidence rates in the foreign-born population are presented according to the eight Stop-TB /WHO TB Epidemiological Regions described in the *Actions for Life: Towards a World Free of Tuberculosis: The Global Plan to Stop TB, 2006 – 2015.* The eight TB epidemiological regions include: the Established Market Economies (EME) and the Central European countries (CEUR); African countries with high HIV prevalence (AFR High HIV); African countries with low HIV prevalence (AFR Low HIV); the American Region (AMR) – Latin America Countries (LAC); Eastern Europe Region (EEUR); Eastern Mediterranean Region (EMR); South-East Asia Region (SEAR); and the Western Pacific Region (WP). Because EME and CEUR have similarly high per capita income level and low tuberculosis incidence rates the results for these two regions are combined.

Population denominators for the Canadian-born non-Aboriginal population are derived using the following formula:

Canadian-born non-Aboriginal

=

Total Canadian Population (Statistics Canada) – Foreign Born (Statistics Canada) – Total Aboriginal persons (Statistics Canada)

Finally, the historical rates, presented in this and subsequent reports are updated periodically as new estimates become available, which may explain inconsistencies between rates in this report and in previous *TB* in *Canada* reports.

Deaths

Starting in 2005, the tabulation of the total number of deaths will include cases that were diagnosed in the previous calendar year but who died at any time during their treatment. Prior to 2005 only deaths that occurred within the calendar year of the current report were counted and thus may not have included cases that died while still on treatment into the following calendar year. This enhanced method for determining the number of deaths will more accurately reflect the actual deaths.

Privacy and confidentiality

Tables reporting on provincial/territorial case counts and rates have been expanded to report on each province and territory as opposed to aggregate data for the four Atlantic provinces and three territories. However, to avoid any potential issues with confidentiality and privacy, tables where population counts become too small may be collapsed in regions (e.g. for the three territories into "North"). In general, data will be suppressed in all instances where population denominators fall below 40.

VARIABLES MEASURED

The statistical data presented in this report refer to cases and rates of new active or relapsed tuberculosis and treatment outcomes.

Case definitions in effect in 2005

I TB case definition in the Canadian Tuberculosis Reporting System (CTBRS)

a. Cases with *Mycobacterium tuberculosis* complex (i.e. *M. tuberculosis* [including subspecies *M. canetti*], *M. bovis* [excluding BCG strain], *M. africanum*, *M.caprae*, *M.microti* or *M. pinnipedii*) 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 traveling with or without a visa, stopping in Canada en route.

III New and relapsed (reactivated) cases of tuberculosis¹⁵

- a. **New case:** no documented evidence or history of previously active tuberculosis.
- b. **Relapsed** (**reactivated**) **case**: documented evidence or history of previously active tuberculosis which became inactive.

c. Inactive tuberculosis:

i Cultures for *M. tuberculosis* negative for at least 6 months

OR

ii In the absence of cultures, chest (or other) x-rays, stable for a minimum of 6 months.

¹⁵ As of 2008, the CTBRS classifies all cases as new or re-treatment cases; see Canadian Tuberculosis Standards, 6th ed., Appendix C for complete definitions

IV Treatment outcomes

Cure – Negative culture at completion of treatment.

Treatment completed – Patient who has completed treatment without culture at the end of treatment.

Died - Death during treatment

- a. TB was the cause of death;
- b. TB contributed to death but was not the underlying cause; or
- c. TB did not contribute to death.

Transfer – Patient transferred to new jurisdiction and the outcome of treatment is unknown.

Failure – Culture positive at five months or more

Absconded – Patient was lost to follow-up before completion of 80% of doses, eight months after treatment started

Treatment ongoing – Treatment is ongoing at the time of the treatment outcome report

Other

Unknown

Diagnostic classification

The diagnostic classification of tuberculosis (TB) in Canada is based upon the International Classification of Diseases, 9th and 10th Editions. For each case of TB, up to five individual diagnoses are captured for reporting purposes. The main diagnostic sites were divided into two broad categories: respiratory and non-respiratory. Respiratory is further subdivided into primary, pulmonary and other respiratory.

Primary includes primary respiratory tuberculosis and tuberculous pleurisy in primary progressive tuberculosis (ICD-9 codes 010.0-010.9; ICD-10 A15.7 and A16.7).

Pulmonary includes tuberculosis of the lungs and conducting airways: tuberculous fibrosis of the lung, tuberculous bronchiectasis, tuberculous pneumonia, tuberculous pneumothorax, isolated tracheal or bronchial tuberculosis and tuberculous laryngitis (ICD-9 codes 011-011.9, 012.2, 012.3; ICD-10 codes A15.0-A15.3, A15.5, A15.9, A16.0-A16.2, A16.4, A16.9).

Other Respiratory includes tuberculous pleurisy (non-primary); tuberculosis of: intrathoracic lymph nodes, mediastinum, nasopharynx, nose (septum), and sinus (any nasal) (ICD-9 codes: 012.0, 012.1 and 012.8; ICD-10 codes: A15.4, A15.6, A15.8, A16.3, A16.5, A16.8).

Nonrespiratory tuberculosis includes miliary, central nervous system, lymph and other sites.

The table below summarizes the codes used by ICD system for each of the diagnostic categories.

Table G

ICD9 and ICD10 codes by diagnostic classification

ICD System	Primary	Pulmonary	Other Respiratory	Miliary	CNS	Peripheral Lymph Nodes	Other
ICD 9	010, 010.0, 010.1, 010.8, 010.9	011, 011.0, 011.1, 011.2, 011.3, 011.4, 011.5, 011.6, 011.7, 011.8, 011.9, 012.2, 012.3	012, 012.0, 012.1, 012.8	018, 018.0, 018.8, 018.9	013, 013.0, 013.1, 013.8, 013.9	017.2	all other ICD9 codes
ICD 10	A15.7, A16.7	A15, A15.0, A15.1, A15.2, A15.3, A15.5, A15.9, A16.0, A16.1, A16.2, A16.4, A16.9	A15.4, A15.6, A15.8, A16.3, A16.5, A16.8	A19, A19.0, A19.1, A19.2, A19.8, A19.9	A17, A17.0, A17.1, A17.8, A17.9	A18.2	all other ICD10 codes including

Cases are reported based on the following hierarchy:

- 1. primary respiratory TB;
- 2. pulmonary;
- 3. other respiratory TB;
- 4. miliary/disseminated;
- 5. meninges/central nervous system;
- 6. peripheral lymph node; and
- 7. other sites (includes tuberculosis of intestines, peritoneum and mesenteric glands, bones and joints, genitourinary system, skin, eye, ear, thyroid, adrenal and spleen).

For cases with multiple diagnostic sites, the placement of the case into a disease group is determined using the hierarchy above. As an example, a case may have been diagnosed with TB of the *peripheral lymph nodes* (*scrofula, scrofulous abscess, tuberculous adenitis*) (ICD-9 17.2) and *tuberculosis of lung, infiltrative* (ICD-9 11.0). Because pulmonary TB is above peripheral lymph TB in the hierarchy, this case would be classified as pulmonary TB.

CODE TABLE LISTING BY ICD-9 CODE FOR DIAGNOSIS

010 Primary Tuberculosis

- 010.0 Primary tuberculous complex
- 010.1 Tuberculous pleurisy in primary progressive tuberculosis

This disease state is characterized by pleuritis and pleural effusion, usually in an adolescent or young adult, but possibly in any age group, due to recent (within the preceding 24 months) infection with *Mycobacterium tuberculosis* complex. If another site of tuberculosis disease, such as CNS or disseminated/miliary disease, is believed to have occurred as a consequence of recent infection (within the preceding 24 months), it ought to be referred to as primary CNS (etc.) disease.

010.8 Other primary progressive tuberculosis (excl. tuberculous erythema nodosum {017.1})

This is usually, but not always, in a child, and is due to infection within the preceding 24 months with *Mycobacterium tuberculosis* complex. It includes pulmonary (lung parenchyma) tuberculosis, as well as tuberculosis of the intrathoracic lymph nodes, larynx, trachea, bronchus, or nasopharyngeal sinuses

010.9 Unspecified

Pulmonary Tuberculosis (with associated silicosis use code 502)

- 011.0 Tuberculosis of lung, infiltrative
- 011.1 Tuberculosis of lung, nodular
- 011.2 Tuberculosis of lung with cavitation
- 011.3 Tuberculosis of bronchus (excl. isolated bronchial TB {012.2})
- 011.4 Tuberculous fibrosis of lung
- 011.5 Tuberculous bronchiectasis
- 011.6 Tuberculous pneumonia (any form)
- 011.7 Tuberculous pneumothorax
- 011.8 Other pulmonary tuberculosis
- 011.9 Unspecified (respiratory tuberculosis NOS, tuberculosis of lung NOS)

Other Respiratory Tuberculosis (excl. respiratory tuberculosis, unspecified **{011.9}**)

- 012.0 Tuberculous pleurisy
- 012.1 Tuberculosis of intrathoracic lymph nodes
- 012.2 Isolated tracheal or bronchial tuberculosis
- 012.3 Tuberculous laryngitis
- Other (incl. tuberculosis of: mediastinum, nasopharynx, nose (septum), sinus (any nasal)

013 Tuberculosis of Meninges and Central Nervous System

- 013.0 Tuberculous meningitis (320.4) (excl. tuberculoma of meninges {013.1})
- 013.1 Tuberculoma of meninges (349.2)
- Other (tuberculoma/tuberculosis of brain {348.8}, tuberculous abscess of brain {324.0}, tuberculous myelitis {323.4})
- 013.9 Unspecified (tuberculosis of central nervous system NOS)

014 Tuberculosis of Intestines, Peritoneum and Mesenteric Glands

Tuberculosis of: anus, intestine (large, small), rectum, retroperitoneal (lymph nodes) Tuberculous: ascites, enteritis, peritonitis (567.0)

015 Tuberculosis of Bones and Joints

Incl. tuberculous: arthritis (711.4), necrosis of bone (730.8), osteitis (730.8), osteomyelitis (730.8), synovitis (727.01), tenosynovitis (727.01).

- 015.0 Vertebral column
 - Pott's: curvature (737.4), disease (730.4) Kyphosis (737.4), spondylitis (720.8)
- 015.1 Hip
- 015.2 Knee
- Other bone (tuberculous dactylitis, mastoiditis {383.1})
- 015.8 Other joint
- 015.9 Unspecified

016 Tuberculosis of Genitourinary System

- 016.0 Kidney (tuberculous pyelitis {590.8}, tuberculous pyelonephritis {590.8})
- Other urinary organs (tuberculosis of bladder {595.4}, tuberculosis of ureter {593.8})
- 016.2 Epididymis (604.9)
- Other male genital organs (tuberculosis of: prostate {601.4}, seminal vesicle {608.8}, testis {608.8})
- 016.4 Female genital organs (tuberculous: oophoritis {614.2}, salpingitis {614.2})
- 016.9 Unspecified

017 Tuberculosis of Other Organs

- 017.0 Skin and subcutaneous cellular tissue
 - Lupus: NOS, exedens, vulgaris, Scrofuloderma

(excl. lupus erythrematosus {695.4}, disseminated {710.0})

Tuberculosis: colliquativa, cutis, lichenoides, papulonecrotica, verrucosa cutis

017.1 Erythema nodosum with hpersensitivity reaction in tuberculosis

Bazin's disease, Tuberculosis indurativa

Erythema: induratum, nodosum (tuberculous)

Excl. erythema nodosum NOS (695.2)

- 017.2 Peripheral lymph nodes (scrofula, scrofulous abscess, tuberculous adenitis)
- 017.3 Eye

Tuberculous: chorioretinitis, disseminated (363.1), episcleritis (379.0), interstitial keratitis (370.5), iridocyclitis (chronic) (364.1),

keratoconjunctivitis (phlyctenular) (370.3)

017.4 Ear

Tuberculosis of ear (382.3), otitis media (382.3) (excl. Tuberculous mastoiditis $\{015.7\}$)

- 017.5 Thyroid gland
- 017.6 Adrenal glands (255.4), Addison's disease (tuberculous)
- 017.7 Spleen
- 017.8 Other

Tuberculosis of: endocardium [any valve] (424.-), oesophagus (530.1), myocardium (422.0), pericardium (420.0)

018 Miliary Tuberculosis

Incl.: tuberculosis: disseminated, generalized, miliary (whether of a single specified site, multiple sites or unspecified site), polyserositis

- 018.0 Acute
- 018.8 Other
- 018.9 Unspecified

137 Late Effects of Tuberculosis

- 137.0 Late effects of respiratory or unspecified tuberculosis
- 137.1 Late effects of central nervous system tuberculosis
- 137.2 Late effects of genitourinary tuberculosis
- 137.3 Late effects of tuberculosis of bones and joints
- 137.4 Late effects of tuberculosis of other specified organs

Pneumoconiosis due to other silica or silicates (see Pulmonary Tuberculosis {011})

Pneumoconiosis due to talc Silicotic fibrosis (massive) of lung Silicosis (simple) (complicated)

CODE TABLE LISTING BY ICD-10 CA CODE FOR DIAGNOSIS

Source: ICD-10 CA/CCI Tabular List - CIHI, 2003

A15 Respiratory tuberculosis, bacteriologically and histologically confirmed

Includes: infections due to Mycobacterium tuberculosis and Mycobacterium bovis

Excludes: congenital tuberculosis (P37.0)

pneumoconiosis associated with tuberculosis (J65)

sequelae of tuberculosis (B90-)

silicotuberculosis (J65)

A15.0 Tuberculous of lung, confirmed by sputum microscopy with or without culture *Includes*:

Tuberculous:

bronchiectasis

fibrosis of lung

pneumonia

pneumothorax

A15.1 Tuberculosis of lung, confirmed by culture only

Includes: Conditions listed in A15.0, confirmed by culture only

A15.2 Tuberculosis of lung, confirmed histologically

Includes: Conditions listed in A15.0, confirmed histologically

A15.3 Tuberculosis of lung, confirmed by unspecified means

Includes: Conditions listed in A15.0, confirmed but unspecified whether

bacteriologically or histologically

A15.4 Tuberculosis of intrathoracic lymph nodes, confirmed bacteriologically and histologically

Includes:

Tuberculosis of lymph nodes:

hilar

mediastinal

tracheobronchial

Excludes: specified as primary (A15.7)

A15.5 Tuberculosis of larynx, trachea and bronchus confirmed bacteriologically and histologically

Includes:

Tuberculosis of:

bronchus

glottis

larynx

trachea

A15.6 Tuberculosis pleurisy, confirmed bacteriologically and histologically *Includes*:

This disease state is characterized by pleuritis and pleural effusion, usually in an adolescent or young adult, but possibly in any age group, due to recent (within the preceding 24 months) infection with *Mycobacterium tuberculosis* complex. If another site of tuberculosis disease, such as CNS or disseminated/miliary disease, is believed to have occurred as a consequence of recent infection (within the preceding 24 months), it ought to be referred to as primary CNS (etc.) disease.

- A15.7 Primary respiratory tuberculosis, confirmed bacteriologically and histologically This is usually, but not always, in a child, and is due to infection within the preceding 24 months with *Mycobacterium tuberculosis* complex. It includes pulmonary (lung parenchyma) tuberculosis, as well as tuberculosis of the intrathoracic lymph nodes, larynx, trachea, bronchus, or nasopharyngeal sinuses.
- A15.8 Other respiratory tuberculosis, confirmed bacteriologically and histologically

Includes: Mediastinal tuberculosis

Nasopharyngeal tuberculosis

Tuberculosis of:

nose

sinus [any nasal]

- A15.9 Respiratory tuberculosis, unspecified, confirmed bacteriologically and histologically
- A16 Respiratory tuberculosis, not confirmed bacteriologically or histologically
- A16.0 Tuberculosis of lung, bacteriologically and histologically negative *Includes*:

Tuberculous:

bronchiectasis fibrosis of lung pneumonia pneumothorax

- A16.1 Tuberculosis of lung, bacteriological and histological examination not done

 Includes: Conditions listed in A16.0, bacteriological and histological examination not done

 Tuberculosis of lung, bacteriological and histological examination not done.
- A16.2 Tuberculosis of lung, without mention of bacteriological or histological confirmation Tuberculosis of lung

Tuberculous:

bronchiectasis fibrosis of lung pneumonia pneumothorax

NOS (without mention of bacteriological or histological confirmation)

A16.3 Tuberculosis of intrathoracic lymph nodes, without mention of bacteriological or histological confirmation

Includes:

Tuberculosis of lymph nodes:

hilar
intrathoracic
mediastinal
tracheobronchial

NOS (without mention of bacteriological or histological confirmation)

Excludes: when specified as primary (A16.7)

A16.4 Tuberculosis of larynx, trachea and bronchus, without mention of bacteriological or histological confirmation

Includes:

Tuberculosis of:

bronchus
glottis
larynx
trachea

NOS (without mention of bacteriological or histological confirmation)

A16.5 Tuberculous pleurisy, without mention of bacteriological or histological confirmation

This disease state is characterized by pleuritis and pleural effusion, usually in an adolescent or young adult, but possibly in any age group, due to recent (within the preceding 24 months) infection with *Mycobacterium tuberculosis* complex. If another site of tuberculosis disease, such as CNS or disseminated/miliary disease, is believed to have occurred as a consequence of recent infection (within the preceding 24 months), it ought to be referred to as primary CNS (etc) disease. *Excludes*: Primary respiratory tuberculosis, without mention of bacteriological or histological confirmation (A16.7)

A16.7 Primary respiratory tuberculosis without mention of bacteriological or histological confirmation

This is usually, but not always, in a child, and is due to infection within the preceding 24 months with *Mycobacterium tuberculosis* complex. It includes pulmonary (lung parenchyma) tuberculosis, as well as tuberculosis of the intrathoracic lymph nodes, larynx, trachea, bronchus, or nasopharyngeal sinuses. *Excludes*: Tuberculous pleurisy, without mention of bacteriological or histological confirmation (A16.5)

A16.8 Other respiratory tuberculosis, without mention of bacteriological or histological confirmation

Mediastinal tuberculosis
Nasopharyngeal tuberculosis

Tuberculosis of:

Nose

sinus [any part]

NOS (without mention of bacteriological or histological confirmation)

A16.9 Respiratory tuberculosis unspecified, without mention of bacteriological or

histological confirmation

Includes: Respiratory tuberculosis NOS

Tuberculosis NOS

A17 Tuberculosis of nervous system

A17.0 Tuberculous meningitis (G01)

Includes: Tuberculosis of meninges (cerebral) (spinal)

Tuberculous leptomeningitis

A17.1 Meningeal tuberculoma (G07)

Includes: Tuberculoma of meninges

A17.8 Other tuberculosis of nervous system

Includes:

Tuberculoma of:

brain (G07)

spinal cord (G07)

Tuberculosis of:

brain (G07)

spinal cord (G07)

Tuberculous:

abscess of brain (G07)

meningoencephalitis (G05.0)

myelitis (G05.0*)

polyneuropathy (G63.0*)

A17.9 Tuberculosis of nervous system, unspecified (G99.8)

A18 Tuberculosis of other organs

A18.0 Tuberculosis of bones and joints

Includes:

Tuberculosis of:

hip (M01.1)

knee (M01.1)

vertebral column (M49.0)

Tuberculous:

arthritis (M01.1)

mastoiditis (H75.0)

necrosis of bone (M90.0)

osteitis (M90.0)

osteomyelitis (M90.0)

synovitis (M68.0)

tenosynovitis (M68.0)

```
Tuberculosis of genitourinary system
A18.1
         Includes:
                   Tuberculosis of:
                        bladder (N33.0)
                        cervix (N74.0)
                        kidney (N29.1)
                        male genital organs (N51.-)
                        ureter<sup>†</sup> (N29.1)
                        Tuberculous female pelvic inflammatory disease (N74.1)
        Tuberculous peripheral lymphadenopathy
A18.2
        Includes: Tuberculous adenitis
         Excludes:
                   Tuberculosis of lymph nodes:
                        intrathoracic (A15.4, A16.3)
                        mesenteric and retroperitoneal (A18.3)
                        Tuberculous tracheobronchial adenopathy (A15.4, A16.3)
        Tuberculosis of intestines, peritoneum and mesenteric lymph nodes
A18.3
        Includes:
                   Tuberculosis (of):
                        anus and rectum (K93.0)
                        intestine (large) (small) (K93.0)
                        retroperitoneal (lymph nodes)
                   Tuberculous:
                        ascites
                        enteritis (K93.0)
                        peritonitis (K67.3)
A18.4
        Tuberculosis of skin and subcutaneous tissue
        Includes: Erythema induratum, tuberculous
                   Lupus:
                        exedens
                        vulgaris:
                                NOS
                                of eyelid (H03.1)
                   Scrofuloderma
        Excludes: lupus erythematosus (L93.-)
```

systemic (M32.-)

A18.5 Tuberculosis of eye

Includes:

Tuberculous:

chorioretinitis (H32.0) episcleritis (H19.0)

interstitial keratitis (H19.2)

iridocyclitis (H22.0)

keratoconjunctivitis (interstitial) (phlyctenular) (H19.2)

Excludes: lupus vulgaris of eyelid (A18.4)

A18.6 Tuberculosis of ear

Includes: Tuberculosis otitis media (H67.0) *Excludes:* Tuberculous mastoiditis (A18.0)

A18.7 Tuberculosis of adrenal glands (E35.1)

Includes: Addison's disease, tuberculous

A18.8 Tuberculosis of other specified organs

Includes:

Tuberculosis of:

endocardium (I39.8) myocardium (I41.0) oesophagus (K23.0) pericardium (I32.0) thyroid gland (E35.0)

Tuberculous cerebral arteritis (I68.1)

A19 Miliary Tuberculosis

Includes:

Tuberculosis:

disseminated generalized

Tuberculous polyserositits

- A19.0 Acute miliary tuberculosis of a single specified site
- A19.1 Acute miliary tuberculosis of multiple sites
- A19.2 Acute miliary tuberculosis, unspecified
- A19.8 Other miliary tuberculosis
- A19.9 Miliary Tuberculosis, unspecified

APPENDIX III POPULATION ESTIMATES: 2006

Population estimates by gender and age group, Canada and provinces/territories: 2006

Male														
	CANADA	N.L.	P.E.I.	N.S.	N.B.	Оше.	Ont.	Man.	Sask.	Alta.	B.C.	Y.T.	N.W.T.	Nvt.
< 1	176,414	2,299	665	4,370	3,446	40,164	68,582	7,140	5,943	21,958	20,985	159	370	333
1 – 4	701,612	9,476	2,642	17,689	14,194	154,271	277,007	28,443	24,449	84,444	85,572	673	1,252	1,500
5 – 14	2,015,893	28,471	8,941	53,176	42,789	442,108	812,518	81,607	67,166	220,355	249,785	1,927	3,615	3,435
15 - 24	2,269,938	34,003	9,926	64,346	51,068	494,753	880,957	86,601	77,574	259,941	301,779	2,519	3,536	2,935
25 - 34	2,253,902	30,310	8,157	56,755	48,519	532,888	870,509	79,386	61,569	270,268	287,455	1,781	3,748	2,557
35 - 44	2,546,009	38,281	9,345	70,262	56,589	586,432	1,025,269	84,845	65,065	268,535	333,343	2,504	3,479	2,060
45 - 54	2,509,765	42,431	10,297	73,525	60,177	612,344	945,073	86,894	73,815	259,367	338,509	2,878	2,873	1,582
55 - 64	1,809,682	33,758	8,603	58,375	46,858	460,306	670,021	62,023	50,430	163,276	251,303	2,072	1,916	741
65 - 74	1,083,607	18,947	5,137	34,300	26,630	270,417	411,752	36,863	33,149	91,405	153,043	871	728	365
75 +	803,901	12,027	3,453	24,589	19,248	183,623	310,201	31,625	31,289	66,735	120,291	331	356	133
TOTAL	16,170,723	250,003	67,166	457,387	369,518	3,777,306	6,271,889	585,427	490,449	1,706,284	2,142,065	15,715	21,873	15,641
Female	ıle													
\ 1 \	168,230	2,143	652	4,073	3,343	38,191	64,982	6,918	5,922	21,000	20,156	161	319	370
1 - 4	669,514	9,207	2,860	16,986	13,722	147,166	263,894	27,408	23,094	80,901	80,892	620	1,354	1,410
5 – 14	1,919,847	26,660	8,148	51,546	40,505	420,449	779,657	77,127	63,770	208,201	235,208	2,038	3,324	3,214
15 - 24	2,163,960	33,429	096'6	61,482	47,798	471,733	844,237	82,719	72,481	243,911	287,683	2,250	3,386	2,891
25 - 34	2,209,655	31,685	8,825	59,270	47,875	510,974	870,351	75,954	60,427	249,722	286,748	2,009	3,222	2,593
35 - 44	2,516,210	40,734	689'6	71,277	56,932	564,680	1,024,345	82,395	65,318	254,402	338,198	2,751	3,657	1,832
45 – 54	2,535,117	43,299	10,741	76,090	61,268	618,929	962,808	85,815	72,073	251,726	345,473	2,893	2,798	1,204
55 - 64	1,861,124	34,664	8,805	29,809	47,589	480,544	695,828	63,335	50,804	160,252	255,490	1,665	1,482	857
65 – 74	1,192,459	19,741	5,489	37,750	29,206	309,652	456,284	40,776	36,299	97,209	158,422	869	622	311
75 +	1,242,643	18,375	5,695	39,380	31,469	311,409	471,053	50,618	46,883	96,992	169,920	411	364	77
TOTAL	16,478,759	259,937	70,861	477,663	379,707	3,873,727	6,433,439	293,065	497,071	1,664,316	2,178,190	15,496	20,528	14,759
TOTAL	T													
< 1	344,644	4,442	1,317	8,443	6,789	78,355	133,564	14,058	11,865	42,958	41,141	320	689	703
1 – 4	1,371,126	18,683	5,502	34,675	27,916	301,437	540,901	55,851	47,543	165,345	166,464	1,293	2,606	2,910
5 – 14	3,935,740	55,131	17,089	104,722	83,294	862,557	1,592,175	158,734	130,936	428,556	484,993	3,965	6,639	6,649
15 - 24	4,433,898	67,432	19,886	125,828	98,866	966,486	1,725,194	169,320	150,055	503,852	589,462	4,769	6,922	5,826
25 – 34	4,463,557	61,995	16,982	116,025	96,394	1,043,862	1,740,860	155,340	121,996	519,990	574,203	3,790	6,970	5,150
35 - 44	5,062,219	79,015	19,034	141,539	113,521	1,151,112	2,049,614	167,240	130,383	522,937	671,541	5,255	7,136	3,892
45 - 54	5,044,882	85,730	21,038	149,615	121,445	1,231,273	1,907,881	172,709	145,888	511,093	683,982	5,771	5,671	2,786
55 - 64	3,670,806	68,422	17,408	118,184	94,447	940,850	1,365,849	125,358	101,234	323,528	506,793	3,737	3,398	1,598
65 - 74	2,276,066	38,688	10,626	72,050	55,836	580,069	868,036	77,639	69,448	188,614	311,465	1,569	1,350	929
75 +	2,046,544	30,402	9,145	696'89	50,717	495,032	781,254	82,243	78,172	163,727	290,211	742	720	210
TOTAL	32,649,482	509,940	138,027	935,050	749,225	7,651,033	12,705,328	1,178,492	987,520	3,370,600	4,320,255	31,211	42,401	30,400

Population estimates by Canadian-born origin and foreign-born birth place – Canada and provinces/territories: 2006

30,400

42,401

104,012

4,320,255

3,370,600

987,520

1,178,492

12,705,328

749,225 7,651,033

935,050

138,027

509,940

Total population $\hat{}$

pr	OV	ince	S/ L	err	πο	rie	s: ₂	200	<i>)</i> 6											
Nvt.		121			26,724	42	26,887	2,959	29,846		27	6	46	10	19	321	15	107	554	
N.W.T.		13,791	17,506		4,962	4,270	23,023	16,182	39,205		140	58	145	157	137	1,569	115	875	3,196	
Y.T.		7,180	8,285		204	617	8,001	19,563	27,564		85	14	158	91	43	2,609	139	508	3,647	
North#		21,092	25,791		31,890	4,929	57,911	38,704	96,615		252	81	349	258	199	4,499	269	1,490	7,397	
B.C.		143,467	125,859		626	48,520	192,966	2,843,713	3,036,679		30,643	3,634	49,849	32,158	55,448	462,421	139,191	510,232	1,283,576	
Alta.		109,516	103,181		1,249	75,906	186,671	2,607,078	2,793,749		24,526	4,906	43,303	23,014	43,481	235,668	45,359	156,594	576,851	
Sask.		105,255	127,567		269	49,503	155,027	771,397	926,424		3,051	781	3,798	3,326	4,595	29,782	2,882	12,881	61,096	
Man.		112,254	129,083		415	63,764	176,433	831,518	1,007,951		6,184	1,880	21,374	11,141	7,017	68,459	9,741	44,745	170,541	
Ont.		174,493	175,940		1,796	54,620	230,909	8,610,184	8,841,093		101,994	35,336	481,538	195,850	405,923	1,411,065	444,369	788,160	3,864,235	
Que.		680'92	71,621		11,030	17,219	104,338	6,575,044	6,679,382		28,660	54,683	171,641	65,173	152,663	332,072	47,483	119,276	971,651	
N.B.		14,464	33,089		177	4,691	19,332	696,526	715,858		1,042	627	1,784	521	1,984	21,957	1,345	4,107	33,367	
N.S.		16,550			432	3,405	20,387	854,587	874,974		1,420	488	3,515	1,468	8,129	35,048	2,683	7,325	920'09	
P.E.I.		1,495			31	250	1,776	130,428	132,204		88	49	276	94	389	4,214	124	589	5,823	
N.L.		10,614			5,121	6,148	21,883	474,264	496,147		522	155	689	519	1,135	7,613	1,128	2,082	13,793	
CANADA		785,289	792,130	ı	53,389	328,955	1,167,633	24,433,443	25,601,076		198,382	102,620	990'822	333,522	680,963	2,612,798	694,574	1,647,481	7,048,406	
	Canadian-born	North American Indian	Status Indian*	Non-status**	Inuit	Metis	Total Aboriginal	Non-Aboriginal‡	Total Canadian-born	Foreigh-born^	AFR High	AFR Low	AMR	EEUR	EMR	EME + CEUR	SEAR	WPR	Total foreign-born	

^{*} Source: Registered Indian Population, Household and Family Projections 2004-2029, INAC, 2007.

^{**} No accurate population counts for non-Status Indian available.

Source: Statistics Canada: Projections of the Aboriginal populations, Canada, provinces and territories 2001 to 2017 Demography Division, Statistics Canada Catalogue No. 91-547-XIE.

[:] Calculated: Non-Aboriginal = Total population - Total Aboriginal - Total Foreign-born.

Source: Statistics Canada: Demography Division, Custom Product.

Source: Statistics Canada, Demography Division, Demographic, Estimates Section, Population estimates 0-90+ July Canada - Provinces 1971-2005, updated Feburary 2008.

^{*} North includes Yukon, Northwest Territories, and Nuna

APPENDIX IV WHO ESTIMATED INCIDENCE OF TB, 22 HIGH-BURDEN COUNTRIES: 2006

			NUMBER E	STIMATED		CUMULATIVE
COMPARING	POPULATION	ALL C	ASES	SMEAR-POS	TTIVE CASES	INCIDENCE (%) (REGIONAL
COUNTRY	(1000s)	NUMBER (1000s)	RATE PER 100,000	NUMBER (1000s)	RATE PER 100,000	PROPORTION OF GLOBAL TOTAL)
1 India	1,151,751	1,933	168	867	75	21.1
2 China	1,320,864	1,311	99	590	45	35.4
3 Indonesia	228,864	534	234	240	105	41.3
4 South Africa	48,282	454	940	184	382	46.2
5 Nigeria	144,720	450	311	198	137	51.1
6 Bangladesh	155,991	351	225	158	101	55.0
7 Ethiopia	81,021	306	378	136	168	58.3
8 Pakistan	160,943	292	181	131	82	61.5
9 Philippines	86,264	248	287	111	129	64.2
10 DR Congo	60,644	237	392	105	173	66.8
11 Russian Federation	143,221	153	107	68	48	68.5
12 Viet Nam	86,206	149	173	66	77	70.1
13 Kenya	36,553	141	384	56	153	71.6
14 UR Tanzania	39,459	123	312	53	135	73.0
15 Uganda	29,899	106	355	46	154	74.1
16 Brazil	189,323	94	50	59	31	75.1
17 Mozambique	20,971	93	443	39	186	76.2
18 Thailand	63,444	90	142	40	62	77.1
19 Myanmar	48,379	83	171	37	76	78.0
20 Zimbabwe	13,228	74	557	30	227	78.9
21 Cambodia	14,197	71	500	31	220	79.6
22 Afghanistan	26,088	42	161	19	73	80.1
Total, high-burden countries	4,150,313	7,334	177	3,265	79	80.1
Africa	773,792	2,808	363	1,203	155	30.7
Americas	899,388	331	37	165	18	3.6
East Mediterranean	544,173	570	105	256	47	6.2
Europe	887,455	433	49	194	22	4.7
South East Asia	1,721,049	3,100	180	1,391	81	33.9
Western Pacific	1,764,231	1,915	109	860	49	20.9
Global total	6,590,088	9,157	139	4,068	62	100.0

Source: $Global\ tuberculosis\ control$: surveillance, planning, financing, $WHO\ report\ 2008$. Geneva, World Health Organization (WHO/HTM/TB/2008.393).

APPENDIX V STOP-TB PARTNERSHIP TB EPIDEMIOLOGICAL REGIONS AND MEMBER COUNTRIES¹⁶

Africa, High HIV Prevalence (AFR-High)

Burundi

Cameroon

Central African Republic

Congo

Côte d'Ivoire

Democratic Republic of Congo

Ethiopia Gabon

Kenya

Malawi

Mozambique

Namibia

Nigeria

Lesotho

Rwanda South Africa

Swaziland

Uganda

United Republic of Tanzania

Zambia Zimbabwe

Africa, Low HIV Prevalence (AFR-Low)

Algeria

Angola

Benin

Burkina Faso

Cape Verde

Chad

Comoros

Equatorial Guinea

Eritrea

Gambia

Ghana

Guinea

Guinea-Bissau

Liberia

Madagascar

Mali

Mauritania

Mauritius

Niger

Sao Tome & Principe

Senegal

Seychelles

Sierra Leone

Togo

¹⁶ Stop TB Partnership and World Health Organization. Global Plan to Stop TB 2006-2015. Geneva, World Health Organization, 2006 (WHO/HTM/STB/2006.35).

Anguilla Guyana Antigua & Barbuda Haiti

Argentina Honduras
Bahamas Jamaica
Barbados Mexico
Belize Montserrat

Bermuda Netherlands Antillies

Bolivia Nicaragua
Brazil Panama
British Virgin Islands Paraguay
Cayman Islands Peru
Chile Puerto Rico

Colombia Saint Kitts and Nevis

Costa Rica Saint Lucia

Cuba St Vincent and the Grenadines

Dominica Suriname

Dominican Republic Trinidad and Tobago
Ecuador Turks & Caicos Islands

El Salvador Uruguay

Grenada US Virgin Islands

Guatemala Venezuela

Eastern Europe (EEUR)

Armenia Azerbaijan Belarus Bulgaria

Estonia Georgia

Kazakhstan Kyrgyzstan

Latvia Lithuania

Republic of Moldova

Romania

Russian Federation

Tajikistan Turkey Turkmenistan

Ukraine

Uzbekistan

Eastern Mediterranean (EMR)

Afghanistan

Bahrain

Djibouti

Egypt

Islamic Republic of Iran

Iraq Jordan Kuwait Lebanon

Libyan Arab Jamahiriya

Morocco Oman Pakistan Qatar

Saudi Arabia Somalia Sudan

Syrian Arab Republic

Tunisia

United Arab Emirates West Bank & Gaza Strip

Yemen

Established Market Economies (EME)

Andorra Australia Austria

Belgium Canada Czech Republic

Denmark
Finland
France
Germany
Greece
Iceland

Japan

Luxembourg

Malta Monaco

Netherlands New Zealand Norway

Portugal
San Marino
Singapore
Spain
Sweden

Switzerland United Kingdom

USA

Central Europe (CEUR)

Albania

Ireland

Israel

Italy

Bosnia and Herzegovina

Croatia

Cyprus

Hungary

Poland

Serbia and Montenegro

Slovakia

Slovenia

The Former Yugoslav Republic of Macedonia

South-East Asia (SEAR)

Bangladesh

Bhutan

Democratic People's Republic of Korea

India

Indonesia

Maldives Myanmar

Nepal

Sri Lanka

Thailand

Timor-Leste

Western Pacific (WPR)

American Samoa Nauru

Brunei Darussalam New Caledonia

Cambodia Niue

China Northern Mariana Islands

China, Hong Kong SAR Palau

China, Macao SAR Papua New Guinea

Cook Islands Philippines

Fiji Republic of Korea

French Polynesia Samoa

Guam Solomon Islands

Kiribati Tokelau
Lao People's Democratic Republic Tonga
Malaysia Tuvalu
Marshall Islands Vanuatu
Micronesia Viet Nam

Mongolia Wallis & Futuna Islands

APPENDIX VI WHO REPORTING FORM FOR 2006 CASES AND 2005 OUTCOMES

WHO TB data collection form for strategies and notifications in 2004, treatment outcomes of cases registered in 2003, and financial information for fiscal years 2004-2006. 1. Identification (please update as necessary) A Country B Date National TB control programme manager or equivalent Person filling out this form (if different from name at left) C Name D Functional Title F Address F Telephone G Fax Please send your completed form to your local/regional WHO office. This form allows WHO to collect data from >200 diverse countries. It is NOT a recommended data collection format for national programmes. (See WHO documents for such recommendations/guidelines: www.who.int/tb/publications). Page 1 of 10 WHO TB data collection form for strategies and notifications in 2004, treatment outcomes of cases registered in 2003, and financial information for fiscal years 2004-2006. 2. Components of TB control in 2004 Responses for questions A-C: Circle/enter one (No or Yes; No or Some or All). A Did you have a national TB control manual (or guidelines for TB diagnosis and treatment) in 2004? (If Yes, please provide a copy to WHO, if you have not already done so.) Nο Yes B Do you have any guidelines on TB management for medical practitioners working outside the public health clinics? Nο Yes C Were the following institutions notifying cases to you, directly or indirectly, in 2004? Private hospitals/clinics No Some All Public hospitals No Some All Military No Some All Private practitioners No Some All Prisons No Some All No Some ΑII Coverage. Responses for questions D, E: absolute numbers; Question F: percentage. D How many TB basic management units were there in 2004? E How many of these units (2.D) were considered as "DOTS" units at the end of 2004? F What proportion of the country's population was attributed to basic management units defined as DOTS units in your country in 2004?

(Note: Only this rough administrative apportioning is needed. It may not equate with true "access" to DOTS. If you have additional information on "access" to DOTS, you may share these data under Remarks: in addition to answering this question. If a unit became a DOTS unit in October of 2004, then use only 1/4 of its population in your calculation in July, then use 1/2 of its population, etc. Technical components of DOTS in 2004

Technical components of DOTS in 2004

Technical components of DOTS in 2004

Technical components of DOTS in 2004 DOTS units Non-DOTS units G Was sputum microscopy routinely used to diagnosis suspected pulmonary cases? No Some All No Some All $\rm H$ Was standardized, short-course chemotherapy (less than 9 months) used routinely to treat sputum smear-positive cases? No Some Was direct observation of treatment used routinely -- at least during the initial phase (2-3 months) of treatment? No Some All No Some All $\label{eq:local_positive} \begin{picture}(20,20) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){1$ No Some All No Some ΑII Page 2 of 10

WHO TB data collection form for strategies and notifications in 2004, treatment outcomes of cases registered in 2003, and financial information for fiscal years 2004	-2006.								
3(A). Drug resistance in 2004									
Response for question A-E: enter a number.									
A How many laboratory-confirmed cases of MDR* were identified among TB patients diagnosed in 2004?									
B How many patients registered as NEW in 2004 received DST* at start of treatment?									
C How many of these patients (3.B) were identified as MDR cases based on DST at start of treatment?									
D How many patients registered as RETREATMENT in 2004 received DST at start of treatment?									
E How many of these patients (3.D) were identified as MDR TB?									
Note: MDR = multidrug resistance. DST = drug sensitivity testing.									
3(B). HIV-related activities among TB patients									
Responses for questions G-K: enter a number. For questions F and L, type or circle one response.									
F Did you implement (even if only in part of your country) a national policy of offering HIV testing and counseling to all TB patients in 2004?	No Yes Partially								
G How many "basic administrative units" (out of those defined in question 2D) had TB diagnostic or treatment facilities that routinely offered HIV testing and counseling to all TB patients in 2004?									
<u> </u>									
H How many TB patients were tested for HIV in 2003? (If none, skip to question I)									
How many TB patients tested HIV <u>positive</u> in <u>2003</u> ?									
J How many HIV positive TB patients were given co-trimoxazole preventive therapy in 2003?									
How many HIV positive TB patients were started on (or continued on) antiretroviral therapy during their TB treatment in 2003? (Only those patients treated during 2003 should be reported here.)									
Do you have a national system for HIV surveillance among TB patients? If yes, please provide, under "Remarks", the most recent results, including year and methodology used (e.g., sentinel surveillance, 100% sampling of TB patients in selected metropolitan TB clinics)									
used (e.g., sentinel surveillance, 100% sampling of TB patients in selected metropolitan TB clinics) NO Yes									
	Page 3 of 10								
WHO TB data collection form for strategies and notifications in 2004, treatment outcomes of cases registered in 2003, and financial information for fiscal ye	pars 2004-2006.								
4. TB Notifications for 2004 (absolute numbers)									
REMINDER: This form allows WHO to collect data from >200 diverse countries. It is NOT a recommended data collection format for national programmes. (See WHO docum	ents for such								
recommendations/guidelines.).									
A Number of TB cases in 2004									
	management units, not individual TS* unit, then all cases from that unit ses.								
B New pulmonary smear-positive									
C New pulmonary smear-negative									
D New pulmonary smear-unknown									
E New extra-pulmonary									
F Other NEW cases not in lines B-E									
G Relapse pulmonary									
H Treatment after Failure (pulmonary)									
Treatment after Default (pulmonary)									
J Other RETREATMENT cases not in lines G-I. Please specify w	what these cases are, under								
K Other, not in lines B-J (i.e., history unknown)									

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L New pulmonary lab-confirmed cases

Lab-confirmed includes smear-positive cases plus any cases confirmed by additional laboratory methods.

WHO TB data collection form for strategies and notifications in 2004, treatment outcomes of cases registered in 2003, and financial information for fiscal years 2004-2006.

5. Notifications for 2004, continued (absolute numbers):

Age and sex of new pulmonary smear-positive TB cases

DO	TS	0-14	15-24	25-34	35-44	45-54	55-64	65+
Α	Male							
В	Female							
No	n-DOTS							
С	Male							
D	Female							

If totals do not correpond to page 4, please explain in 'Remarks.'

If data are based on less than a full year's data, please note this in 'Remarks.'

If you have data by age and sex that do not fit this framework (e.g., different age groups or data based on all new cases, not just smear-positive), then you can provide the data that you have on the "Remarks" page.

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WHO TB data collection form for strategies and notifications in 2004, treatment outcomes of cases registered in 2003, and financial information for fiscal years 2004-2006.

6. Treatment outcomes for cases registered in 2003 (absolute numbers)

			DOTS		non-DOTS
	New		Retreatment (pulmonary))	New
	Pulmonary smear- positive	Relapse	Treat-after- Failure	Treat-after- Default	Pulmonary smear- positive
Z Cases included in cohort	and patified to WILIO last year place		a ar indicate pand to undete	W/HO database under 'Den	analist'
If line Z different from the number of case	ses notified to WHO last year, plea	se piease explain reason	s, or indicate need to update	WHO database, under Ker	narks.
A Cured					
B Completed					
C Died					
D Failed					
E Defaulted					
F Transferred out *					
If sum of lines A-F does not equal line Z, please explain under 'Remarks'.					

Notes

If culture is routinely available throughout the country, then you should instead use these columns to report outcomes of the cohort of laboratory-confirmed cases, where the outcome is determined by the best laboratory evidence available for each case. Indicate this in Remarks.

If treatment outcomes for retreatment cases are compiled together and cannot be separated, then please provide these outcome results under 'Remarks'.

If non-DOTS treatment outcomes are available but not for new smear-positive cases specifically, please provide what data are available and make a note about the types of cases included.

* "Transferred out" means transferred out and not evaluated. It is s sub-set of transfer patients for whom the outcome was not evaluated.

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WMO TB data collection form for stra								
	tegies and notification	ons in 2004, treatment or	stcomes of cases registered in	n 2003, and financial info	ormation for fiscal years 20	004-2006.		
FISCAL YEAR 2005	7. Financi	al information - bud	get data					
(your fiscal year starting during the calendar year 2005) 1. Beginning of your fiscal year 2005 (day, month, year)		7						
2. Expected number of new smear-positive patients to be treated in 2005		3. Expected no 2005	imber of new smear-ne	gative/extra-pulmon	ary patients to be tre	ated in	7	
							_	
Please give amounts for budget, funding, and gap in ABSOLUTE US dollars	BUDGET	EXPECTED Fund	ng Your data from last y	ear (if any) appear he	ore. Please update as		_	
4. TB drugs: first-line	REQUIRED*	Governmen	Loans	GFATIII	Other Grants	GAP ^t	7	
5. TB drugs: second-line (for MDR-TB) 6. Staff working exclusively for TB control (central unit staff and subnational								
TB coordinators) 7. Initiatives to increase case detection and cure rates		1					=	
8. TB/HIV collaborative activities								
 Buildings, vehicles, equipment (lab / office equip. etc.) All other budget lines for TB (e.g., training, fuel for supervision, supplies, 		-					-	
recording and reporting) 11. TOTAL							<u> </u>	
FISCAL YEAR 2006		Ded color led	cates that your number		alamba di sasala Pilan			
(your fiscal year starting during the calendar year 2006) 1. Beginning of your fiscal year 2006 (day, month, year)		Red Color Indi	cates that your number	s do not add up to c	alculated totals. Fied	ise re-crieck.		
2. Expected number of new smear-positive patients to be treated in 2006		3. Expected no 2006	imber of new smear neg	gative/extra-pulmon	ary patients to be tre	ated in		
Please give amounts for budget, funding, and gap			EXPECTED	Funding (if availab	le)			
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7. Initiatives to increase case detection and cure rates 8. TB/HIV collaborative activities		11					_	
9. Buildings, vehicles, equipment (lab / office equip. etc.)		1						
 All other budget lines for TB (e.g., training, fuel for supervision, supplies, recording and reporting) 							_	
11. TOTAL							_	
PLEASE SEE EXPLANATORY NOTES ON PAGE 9. Contact the following p Pilar Ramon-Pardo, ramonpp@paho.org (for AMRO); Katherine Floyd, floydk@who.li	eople for assis nt (for EURO, SE	tance if required: ARO, WPRO); Andre	a Pantoja, pantojaa@wh	o.int (for AFR, EMRC	D).			
							Page 7 of 10	
WHO TB data collection form for strategies :	and notifications	n 2004, treatment ou	tcomes of cases register	ed in 2003, and finan	cial information for fisc	al years 2004-2006.		
	_	formation - utiliz	ation of health servi					
 Typical number of visits to a health facility required for one net positive patient after diagnosis is made 	w smear-		15. Estimated	I percentage of p	ew smear negativ	e/extra-pulmonary		
			patient	s that are hospita	alized		,	
13. Typical number of visits to a health facility required for a new s negative/extra-pulmonary patient after diagnosis is made	smear		16. Estimated	s that are hospita	ilized	smear-positive patients	, o	
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WHO TB data collection form for strategies and notifications in 2004, treatment outcomes of cases registered in 2003, and financial information for fiscal years 2004-2006.

9. Explanations for financial information

Please remember that funding for TB control can only be improved if some attempt to describe the financial situation is made, even if data availability is limited. If the central NTP office has no information on the exact amounts that peripheral governments mak available for TB control. Celesse the type describes the control observed to the service of the control observed to the service of the control observed to the control observed

For all questions, please indicate "NA" or 'not applicable" if the intervention asked for (e.g., hospitalization) is not used in your country, and indicate "DK" or "Don't know" if you do not have the information required to answer the question. Please do not leave any facility hour.

1	The date of the beginning of your fiscal year (between 1 January and 31 December of the year indicated)
2	The number of patients you expect to detect and treat new smear-positive cases in all areas (DOTS and non-DOTS). It does NOT mean the total estimated number of cases in your country.
3	The number of patients that you expect to detect and treat new smear-negative and extra-pulmonary cases in all areas (DOTS and non-DOTS). It does NOT mean the total estimated number of cases in your country.
4	Budget for anti-TB drugs, excluding drugs to treat multi-drug resistant (MDR) TB. If drugs are provided by the Global Drug Facility (GDF), please include an estimate of the value of these drugs.
5	Budget for anti-TB drugs for multi-drug resistant (MDR) TB only, including drugs procured through the Green Light Committee (GLC).
	Staff cost for staff working ONLY on TB activities at central and peripheral levels (for example provincial TB coordinators, district TB coordinators, etc). Do NOT include, for example, primary health care nurses working on several diseases, including TB. The total per category can be estimated as the average annual salary for each staff category x number of staff in that category. Please report the total for ALL categories.
	Refers to activities that aim to increase case detection and cure rates in areas where DOTS is already being implemented (i.e., activities to expand DOTS coverage to new geographic areas should NOT be included). Possible examples are social mobilization campaigns, activities to engage the private sector (for example PPM-DOTS projects), incentives/enablers for providers or patients, community TB care, strengthening of diagnostic services and supervision, etc. Include any staff not already covered in number 6.
	Activities involving collaboration between TB and HIV programmes alined at reducing the impact of HIV-related TB. These include TBHIV coordinating bodies, join TBHIV training and planning, HIV testing for TB patients, HIV surveillance among TB patients, TB screening for people living with HIV AIDS, isonizating preventive therapy, join TBHIV internalized accidencionsmurrication, antiretroviral travatement for TB patients, etc. Does NOT include staff dedicated to TB and partially managing TBHIV activities already accounted for under number 6. For clarifications, please see the WHO TBHIV interim policy or the Monitoring and Evaluation guide.
9	Refers to all equipment, such as vehicles, microscopes, office equipment, etc. It does NOT refer to consumables (such as laboratory supplies), nor to investments related to and already accounted for in numbers 7 and 8.
	The average number of visits per smear-positive patient to any health facility during TB treatment, for example for observed treatment, collection of drugs, smear monitoring, etc. after the patient has been diagnosed with TB, in view of your treatment guidelines. For example, if directly observed treatment is provided daily in the intensive phase at clinics and, in the continuation phase 4 visits are required (one per month for collection of drugs), the total would be 8014-64
13	The average number of visits per smear-negative and extra-pulmonary TB patient to any health facility during TB treatment, for example for DOT, collection of drugs, smear monitoring, etc. after the patient has been diagnosed with TB, in view of you treatment guidelines.
	The approximate percentage of smear-positive patients hospitalised for TB treatment (for any duration of stay), in view of your treatment guidelines. For example, if your policy is to admit all TB patients for 2 months, the figure will be 100%, if unsure, pleases give a range.
15	The approximate percentage of smear negative or extra-pulmonary patients hospitalised for TB treatment (for any duration of stay), in view of your treatment guidelines. If unsure, please give a range.
16	If a smear-positive patient is hospitalized for TB treatment, the average number of days he/she spends in hospital.
17	If a smear-negative or extra-pulmonary patient is hospitalized for TB treatment, the average number of days he/she spends in hospital. Include sanatoria beds if these exist.
18	Estimated number of beds in TB hospitals and in TB wards of other hospitals.
19-24	See explanations for items 4-9. above.
а	The total budget required should be in line with your annual plan of activity. Indicate the total amount required to carry out all activities and NOT the amount you expect to receive.
b	Include funding from both the central and peripheral government sources (provinces, districts, etc.).
С	All loans for TB or amount for TB in an overall health sector-wide loan.
d	Grants awarded by the Global Fund to Fight AIDS, Tuberculosis and Malaria (GFATM). The amount for the relevant fiscal year only and NOT the total amount of the grant.
е	All grants, excluding GFATM grants. The amount should be for the relevant fiscal year and not the total amount of the grant.
f	The amount in this column should equal the "Total budget required" column MINUS the total of all expected funding columns (i.e. government, loans, grants excluding GFATM, GFATM grants, other).
g	During your last fiscal year, the funds that were actually received and spent. The total in this column should equal h+i+i+k.

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WHO TB data collection form for strategies and notifications in 2004, treatment outcomes of cases registered in 2003, and financial information for fiscal years 2004-2006.

8. Remarks
Remarks may include: information on completeness of data, explanations for inconsistencies in data, more detailed data, revision of data reported in previous years, and further explanation of financial data.

Thank you for completing the WHO annual data collection form. Please return to your local/regional WHO office.

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APPENDIX VII CANADA - CASE AND TREATMENT OUTCOME REPORTING FORMS

Active Tuberculosis Case Report Form – New and Relapsed Cases

Province/Territory/Patie	nt ID			
1. Reporting province/	2. Register case number	3. Unique identifier	4. Date of birth	5. Sex Day Male Femali
territory			Monut	1 1 2
6. Usual residence City.	Town/Village			Postal code
	nty and Health Unit			
	Lives on First Nation's reserve mo	st of the time? 1 Ves 2 No 8	N/A 9 Unknown	
Origin				
7. Canadian born?		6 Foreign-born Country of	birth	
1 Status Indian (Re	gistered) 2 Mens	Date of arrival in Canada	ear Month Day	
3 Inuit 4 Oth	er Aboriginal (specify)	Immigration status at time of diagnosis		
E Canadian born		1 Canadian citizen/Landed immigra	nt 5 Work vis	a 6 Student visa
non-Aboriginal	Country of birth of mother	Convention		
Under age 157	Country of birth of father	2 Refugee P 2 Refugee cl		
Diagnosis	Differ of famer		- Johnson	
8. Date of diagnosis	ICD 9	7.5 4 3 3 7 7 1 9 6 7 3	15 V 11 15 16	illem to a real
Year Month Day				
	ICD 10	لتسالبا • لسلبالثا • ات	<u> </u>	الما • السلمان
9. Chest X-Ray	Normal 2 Abnormal	Not done 9 Unknown	If abnormal 🖨 1 🔲 Cav	itary 2 Non-cavitary
Bacterial Status		12052000		
10. Microscopy Sputum Brenchial	Wash GI Wash Note Biopsy Urine	CSF Other Sputum	Frenchial Wish GI Wash Node Blippsy	Urine CSF Other
Negative	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Negative	1000 00000	
Positive Not done		Positive Not done		
Unknown		Unknown —		
Not Applicable		Not Applicable		
12. Case Criteria	Culture positive 2	Clinical diagnosis		
13. If initial positive cult	ure – Antibiotic resistance	?		
1st fine		2 nd line	Result	8 Other (specify)
DRUG Result Susceptible Resistant Not o	tune Unknown DRUG Suse	Result DRUG :	arscept ble Resistant. Not dene. Unknown	
1 INR	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 Ethionamide		
2 EMB		Company Compan		
4 PZA 🗆 🗆 🗆	4 Offoxacin C	8 Other		9 Unknown
14. Genotyping results?	1 Yes 2 No 9	Unknown MIRU		1 Yes 2 No
Treatment Details		N. A		
15. Date treatment start	16. Initial drugs pres	cribed (check all that apply) 2nd line	6 No	drugs prescribed
	TO DIG A TO DATE	1 Streptomycin 4 C Offoxacin	7 - Rifabutin 8 Ot	her (specify)
Year Month Da	3 - EMB 5 - PZA	2 Kanamyoin 5 Ethionamide		
		о зароступт о таз		known
17. Death before or duri	ng treatment?	Mante Des	1 TB was the cause	
		of death Year Month Day	2 TB contributed bu	t was not the cause of death
1 Yes 2 No	9 Unknown If yes, date of		3 TR did not contain	uto to death
1 Yes 2 No	. 🗀		3 TB did not contrib	rute to death
1 Yes 2 No	g/Risk Factors	Previous tianno		rufe to death
1 Yes 2 No	g/Risk Factors	Previous thagno	sis occured in:	rule to death
1 Yes 2 No TB History/Case Finding 18. First episode of TB of the control of th	g/Risk Factors disease? If no: Year of previous diagnos	is i Canada	sis occured in:	rule to death
TB History/Case Finding 18. First episode of TB of the Previous treatment with (check	g/Risk Factors disease? If no: Year of previous diagnos all antibiotics used):	20. Risk factors	sis occured in:	aufe to death
TB History/Case Finding 18. First episode of TB of the Previous treatment with (check	g/Risk Factors disease? If no: Year of previous diagnos	20. Risk factors HIV 1 Positive 2 Negative	sis occured in: 2 Other country:	
TB History/Case Finding 18. First episode of TB of the Previous treatment with (check to the check to the ch	a/Risk Factors disease? If no: Year of previous diagnos all antibiotics used): line 4 RMP 5 PZA	20. Risk factors	sis occured in:	3 Test refused
TE History/Case Finding 18. First episode of TB of the street of TB of	S/Risk Factors (isease? If ne: Year of previous diagnos all antibiotics used): line 4 RMP 5 PZA	20. Risk factors HIV 1 Positive 2 Negative If positive, date of 151 positive fest If negative, date of most recent test	Sis occured in: 2 Other country: Year Month Day	3 Test refused 4 Test not offered 5 Unknown
TB History/Case Finding 18. First episode of TB of 1 Yes 2 No Previous treatment with (check 1st 1 NH 3 EMB 1 Streptomycin 4 2 Kanamycin 5 1	J/Risk Factors disease? If no: Year of previous diagnos all antibiotics used): line 4 RMP 5 PZA	20. Risk factors HIV 1 Positive 2 Negative If positive date of 1st positive test If negative, date of most recent test Known or suspected substance abuse	2 Other country: Year Month Day	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown
TB History/Case Finding 18. First episode of TB of the Previous treatment with (check to the previous treatment with the previous treatment w	### STANDARD	20. Risk factors HIV 1 Positive 2 Negative If positive, date of 1st positive test If negative, date of most recent test Known or suspected substance abuse Transplant related immunosuppression	Year Month Day 1 Yes 2 1 Yes 2	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown No 9 Unknown
TB History/Case Finding 18. First episode of TB of the Previous treatment with (check to the previous treatment t	### STANDARD	20. Risk factors HIV 1 Positive 2 Negative If positive date of 1st positive test If negative, date of most recent test Known or suspected substance abuse	Year Month Day 1 Yes 2 1 1 Yes 2 1 1 Yes 2	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown No 9 Unknown
TB History/Case Finding 18. First episode of TB of the previous treatment with (chack the previous treatment the previous treatment to the previous treatment with (chack the previous treatment the previ	### STANDARD	20. Risk factors HIV 1 Positive 2 Negative If positive, date of 1st positive fest If negative, date of most recent test Known or suspected substance abuse Transplant related immunosuppression Silicosis End-stage renal disease Contact with person with active TB in past	Year Month Day 1 Yes 2 1 1 Yes 2 1 1 Yes 2 1 1 Yes 2 1	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown
TB History/Case Finding 18. First episode of TB of the pisode of TB of TB of the pisode of TB of the piso	### STANDARD	20. Risk factors HIV 1 Positive 2 Negative If positive, date of 1st positive fest If negative, date of most recent test Known or suspected substance abuse Transplant related immunosuppression Silicosis End-stage renal disease Contact with person with active TB in past 2 years Previous abnormal chest x-ray	year Month Day 1 Yes 2 1	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown
TE History/Case Findin 18. First episode of TB of the pisode of TB of	### STANDARD	20. Risk factors HIV 1 Positive 2 Negative If positive, date of 1st positive lest If negative, date of most recent test Known or suspected substance abuse Transplant related immunosuppression Silicosus End-stage repal disease Contact with person with active TB in past 2 years Previous abnormal chest x-ray (fibronodular disease)	Year Month Day	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown
TE History/Case Finding 18. First episode of TB of the provious treatment with (check.) 1	g/Risk Factors (isease? If no: Year of previous diagnos all antibiotics used): line 4 RMP 5 PZA Fina Ofloxacin 7 Rifabutin Ethionamide 8 Other PAS incidental finding Contact investigation Cocupational	20. Risk factors HIV 1 Positive 2 Negative If positive, date of 1st positive fest If negative, date of most recent test Known or suspected substance abuse Transplant related immunosuppression Silicosis End-stage renal disease Contact with person with active TB in past 2 years Previous abnormal chest x-ray (fibronodular disease) Diabetes mellitus type 1 or 2 Long-term (> 1 month) corricosteroid use	Year Month Day	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown
TB History/Case Finding 18. First episode of TB of 1 Yes 2 No 1 Previous treatment with (check. 191 1 INH 3 EMB 1 Streptomycin 4 2 Kanamycin 5 3 Gapreomycin 6 B 8 Other (specify) 9 Unknown 19. Case finding 1 with site of disease 3 Post-morten 5 Immigration medical surveillance 1 Initial immigration on	g/Risk Factors disease? If no: Year of previous diagnos all antibiotics used): line 4 RMP 5 PZA Fine Ofloxacin 7 Rifabutin Ethionamide B Other PAS 2 Incidental finding 4 Contact 4 Contact 6 Occupational 7 Corporational 8 Corporational 9 Corporation	20. Risk factors HIV 1 Positive 2 Negative If positive, date of 1st positive lest If negative, date of most recent test Known or suspected substance abuse Transplant related immunosuppression Silicosus End-stage repal disease Contact with person with active TB in past 2 years Previous abnormal chest x-ray (fibronodular disease) Diabetes mellitus type 1 or 2 Long-term (≥ 1 month) conticosteroid use (predinsone ≥ 15 mg/day or equivalent)	Year Month Day	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown
TE History/Case Finding 18. First episode of TB of the Previous treatment with (check.) 1 Yes 2 No Previous treatment with (check.) 1 INH 3 EMB 1 Streptomycin 4 2 Kanamycin 5 3 3 Capreomycin 6 8 8 Other (specify) 9 Unknown 19. Case finding 1 with site of disease 3 Post-mortem 5 Immigration medical survillance intital immigration mean done outside controlled in the public limits on the previous survillance intital immigration mean done outside controlled in the public limits in the office of the public limits in the office of the public limits in the office of the public limits in the p	g/Risk Factors fisease? If no: Year of previous diagnos all antibiotics used): line 4 RMP 5 PZA fine Official 7 Rifabutin Ethionamide 8 Other PAS incediate investigation Comfact investigation Compational screening anada Other screening	20. Risk factors HIV 1 Positive 2 Negative If positive, date of 1st positive lest If negative, date of most recent test Known or suspected substance abuse Transplant related immunosuppression Silicosis End-stage renal disease Contact with person with active TB in past 2 years Previous abnormal chest x-ray (fibronodular disease) Diabetes mellitus type 1 or 2 Long-term (≥ 1 month) conticosteroid use (prednisone ≥ 15 mg/day or equivalent) Lives in correctional setting at time of diagn Homeless	Year	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown
TE History/Case Findin 18. First episode of TB of the street of the str	### Sectors ### Sear of previous diagnos ### antibiotics used): ### ### ### ### ### ### ### ### ### ##	20. Risk factors HIV 1 Positive 2 Negative If positive, date of 1st positive test If negative, date of most recent test Known or suspected substance abuse Transplant related immunosuppression Silicosis End-stage renal disease Contact with person with active TB in past 2 years Provious abnormal chest x-ray (fibronodular disease) Diabetes mellitus type 1 or 2 Long-term (= 1 month) conticosteroid use (predmisore > 15 myday or equivalent) Lives in correctional setting at time of diagn	Year	3 Test refused 4 Test not offered 5 Unknown No 9 Unknown

Treatment Outcome of a New Active or Relapsed Tuberculosis Case

FFECTIVE DECEMBER 2006	To the target the same of	1 6 6 4 6	hak.	WHEN COMPLETE
1. Reporting province/ territory 2. Register case number	3. Unique identifier	4. Date of I		5. Sex Male Female
6. If transfer from diagnosing province/territory, please state treating province/territory	7. Register case number (if different from 2 above)			ove)
O. Date of diagnosis Year Month Day	10. Date treatment started Year Month Da	11. Last day of treatment Year Month Day		
2. Initial drugs prescribed (list all that apply) 1st line 1 INH 3 EMB 4 RMP 5 6 No drugs prescribed 8 Other (specify)	PZA 2 Kanamycin 4	Capreomycin	5 Ethionamide 6 PAS	8 Other
	PZA 4 Transferred to new jur (specify new jurisdiction in the second in	e at completion of tr - without culture at a g treatment ath mith Day isdiction - outcome on) recurrent positive or	eatment* end of treatment* 1 TB was the 2 TB contributhe underly	contribute to death
	PZA 1 DOT (Directly Observe 2 Daily, self-administere 8 Other (specify) 9 Unknown her 17. Adherence estimal	atment: d Therapy)	Modified Standard Enhanced	

APPENDIX VIII THE CANADIAN TUBERCULOSIS COMMITTEE 2008

PROVINCIAL/TERRITORIAL TB CONTROL PROGRAM REPRESENTATIVES

Alberta British Columbia Manitoba
Dr. Geetika Verma Dr. Kevin Elwood Dr. Joel Kettner

New Brunswick Newfoundland and Labrador Nova Scotia

Ms. Eileen McQuade Ms. Marion Yetman Ms. Dee Mombourquette

Northwest Territories Nunavut Ontario

Ms. Cheryl Case Ms. Elaine Randell Dr. George Samuel

Prince Edward IslandQuébec (Chair)SaskatchewanDr. Heather MorrisonDr. Paul RivestMs. Diane McDougall

Yukon

Ms. Cathy Stannard

ASSOCIATION OF MEDICAL MICROBIOLOGY AND INFECTIOUS DISEASE CANADA

Dr. Wendy Wobeser

CANADIAN LUNG ASSOCIATION/STOP TB CANADA

Ms. Debbie Smith

CANADIAN THORACIC SOCIETY

Dr. Heather Ward

CANADIAN PUBLIC HEALTH LABORATORY NETWORK

Dr. Fran Jamieson

CITIZENSHIP AND IMMIGRATION CANADA

Dr. Lise Scott

CORRECTIONAL SERVICE CANADA

Ms. Teresa Garrahan

FIRST NATIONS AND INUIT HEALTH BRANCH, HEALTH CANADA

Dr. Lilian Yuan

NATIONAL REFERENCE CENTRE FOR MYCOBACTERIOLOGY, NATIONAL MICROBIOLOGY LABORATORY, PUBLIC HEALTH AGENCY OF CANADA

Ms. Joyce Wolfe

TUBERCULOSIS PREVENTION AND CONTROL, PUBLIC HEALTH AGENCY OF CANADA

Dr. Edward Ellis