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# TUBERCULOSIS IN CANADA

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# 2000

PRE-RELEASE

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**TUBERCULOSIS**

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## INTRODUCTION

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To facilitate an earlier release of key national tuberculosis (TB) data, the following tables have been extracted from the Canadian Tuberculosis Reporting System (CTBRS) for the year 2000. Data included in this pre-release report should be considered provisional until publication of the full report *Tuberculosis in Canada 2000* (in press).

## HIGHLIGHTS

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In 2000, 1,694 cases (5.5 per 100,000) of new active and relapsed TB were reported to the CTBRS. The highest rate of 61.1 per 100,000 was reported in the North region (Yukon Territory, Northwest Territories and Nunavut). TB incidence was lowest in the Atlantic region (Nova Scotia, New Brunswick, Prince Edward Island, Newfoundland and Labrador: 1 per 100,000). The three most populous provinces (Ontario, Quebec and British Columbia), which collectively make up 75% of Canada's population, accounted for 75% of the total number of reported cases (Table 1).

By age group, individuals between the ages of 25 and 34 years made up the largest number of reported cases, accounting for 18% of the total. However, the corresponding case rate of 7.0 per 100,000 for this age group was surpassed by the age-specific rates of 9.3 and 14.2 per 100,000 for those in the older age groups of 65 to 74 years and greater than 74 years, respectively (Table 2).

TB incidence continues to be highest among the foreign-born population. In 2000, TB in foreign-born individuals accounted for 65% of all reported cases in Canada. Canadian-born non-Aboriginal and Canadian-born Aboriginal cases made up 18% and 15%, respectively, of the remaining cases. Birthplace was unknown for 1% of cases (Table 3).

Respiratory TB was the most frequently reported main diagnostic site, representing 67% of reported cases in 2000 (Table 4). Diagnostic site varied by birthplace. TB of the peripheral lymph nodes was the second most commonly reported diagnostic site (15%), with 38% of these cases occurring in foreign-born individuals who originated in the World Health Organization (WHO) Western Pacific Region. Primary TB accounted for 6% of reported cases and was more common among Canadian-born Aboriginals (Table 5).

**Table 1**

**Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 – Canada and provinces/territories: 1990-2000**

Year of diagnosis		CANADA	Province/territory							
			Atlantic	Que.	Ont.	Man.	Sask.	Alta.	B.C.	North
1990	Cases	<b>1,997</b>	86	412	730	92	223	156	265	33
	Rate	<b>7.2</b>	3.6	5.9	7.1	8.3	22.1	6.1	8.0	37.8
1991	Cases	<b>2,018</b>	81	400	769	101	184	173	280	30
	Rate	<b>7.2</b>	3.4	5.6	7.3	9.1	18.3	6.7	8.3	33.2
1992	Cases	<b>2,108</b>	68	424	822	86	133	222	323	30
	Rate	<b>7.4</b>	2.8	5.9	7.7	7.7	13.2	8.4	9.3	32.3
1993	Cases	<b>2,012</b>	99	352	769	108	153	156	337	38
	Rate	<b>7.0</b>	4.1	4.9	7.1	9.6	15.1	5.8	9.4	40.4
1994	Cases	<b>2,074</b>	42	361	831	116	147	178	324	75
	Rate	<b>7.1</b>	1.7	5.0	7.6	10.3	14.5	6.6	8.8	79.4
1995	Cases	<b>1,931</b>	34	380	766	108	155	126	308	54
	Rate	<b>6.5</b>	1.4	5.2	6.9	9.5	15.3	4.6	8.2	56.2
1996	Cases	<b>1,868</b>	57	332	771	97	113	140	316	42
	Rate	<b>6.3</b>	2.4	4.6	6.9	8.6	11.1	5.0	8.1	42.2
1997	Cases	<b>1,976</b>	34	360	761	96	121	166	405	33
	Rate	<b>6.6</b>	1.4	4.9	6.8	8.4	11.8	5.8	10.2	33.0
1998	Cases	<b>1,791</b>	37	289	724	116	98	158	329	40
	Rate	<b>5.9</b>	1.6	3.9	6.3	10.1	9.5	5.4	8.2	39.9
1999	Cases	<b>1,806</b>	44	314	684	132	116	149	328	39
	Rate	<b>5.9</b>	1.9	4.3	5.9	11.5	11.3	5.0	8.1	39.2
2000	Cases	<b>1,694</b>	25	318	670	98	104	133	285	61
	Rate	<b>5.5</b>	1.0	4.3	5.7	8.5	10.1	4.4	7.0	61.1

Data for 2000 are provisional until publication of the 'Tuberculosis in Canada - 2000' Annual Report.

**Table 2****Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by age group – Canada: 1990-2000**

Year of diagnosis		TOTAL	Age group										
			< 1	1 – 4	5 – 14	15 – 24	25 – 34	35 – 44	45 – 54	55 – 64	65 – 74	75 +	Age unk.
1990	Cases	<b>1,997</b>	44	91	66	208	400	240	181	244	280	243	-
	Rate	<b>7.2</b>	11.0	5.9	1.7	5.1	7.8	5.5	6.2	10.1	15.0	19.4	-
1991	Cases	<b>2,018</b>	48	71	60	227	399	282	188	223	279	240	1
	Rate	<b>7.2</b>	11.9	4.6	1.6	5.6	7.8	6.3	6.2	9.2	14.5	18.6	-
1992	Cases	<b>2,108</b>	25	83	85	242	405	286	191	224	276	290	1
	Rate	<b>7.4</b>	6.2	5.3	2.2	6.0	7.9	6.2	6.0	9.2	14.0	21.8	-
1993	Cases	<b>2,012</b>	26	69	108	234	386	270	210	214	257	237	1
	Rate	<b>7.0</b>	6.6	4.3	2.7	5.8	7.6	5.7	6.2	8.7	12.7	17.3	-
1994	Cases	<b>2,074</b>	20	72	98	274	411	261	224	212	271	231	-
	Rate	<b>7.1</b>	5.2	4.5	2.5	6.8	8.2	5.4	6.4	8.5	13.2	16.4	-
1995	Cases	<b>1,931</b>	27	64	85	229	325	314	201	209	251	225	1
	Rate	<b>6.5</b>	7.1	4.0	2.1	5.7	6.6	6.4	5.5	8.3	12.0	15.3	-
1996	Cases	<b>1,868</b>	11	68	63	214	356	304	191	193	250	218	-
	Rate	<b>6.3</b>	2.9	4.3	1.6	5.3	7.5	6.1	5.0	7.6	12.0	14.6	-
1997	Cases	<b>1,976</b>	9	50	58	214	385	292	216	227	246	279	-
	Rate	<b>6.6</b>	2.5	3.2	1.4	5.3	8.2	5.7	5.5	8.8	11.7	18.0	-
1998	Cases	<b>1,791</b>	19	61	71	186	307	302	180	171	235	259	-
	Rate	<b>5.9</b>	3.6	4.0	1.7	4.5	6.7	5.8	4.4	6.4	11.0	16.1	-
1999	Cases	<b>1,806</b>	27	59	63	200	329	260	187	181	236	264	-
	Rate	<b>5.9</b>	7.9	4.0	1.5	4.8	7.4	4.9	4.4	6.6	11.1	15.9	-
2000	Cases	<b>1,694</b>	10	56	42	206	308	277	203	150	199	243	-
	Rate	<b>5.5</b>	2.9	3.5	1.0	5.0	7.0	5.2	4.7	5.3	9.3	14.2	-

Data for 2000 are provisional until publication of the 'Tuberculosis in Canada - 2000' Annual Report.

**Table 3**

**Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by birthplace - Canada and provinces/territories: 2000**

Birthplace			CANADA	Province/territory								
				Atlantic	Que.	Ont.	Man.	Sask.	Alta.	B.C.	North	
Canadian-born	Aboriginal											
	Status Indian	Cases	168	-	-	12	38	63	20	24	11	
		Rate	29.7	-	-	10.4	44.2	79.2	24.8	23.2	55.8	
	Non-Status Indian/Métis	Cases	36	-	3	-	4	16	7	6	-	
		Rate	5.6	-	2.8	-	6.8	38.7	6.5	6.0	-	
	Inuit	Cases	57	1	8	-	-	-	-	-	48	
		Rate	91.5	10.8	74.8	-	-	-	-	-	170.2	
	Total	Cases	261	1	11	12	42	79	27	30	59	
		Rate	20.5	1.6	6.2	3.8	28.9	65.1	14.1	14.6	109.3	
	Non-Aboriginal	Cases	307	19	120	66	24	14	20	43	1	
		Rate	1.3	0.9	1.9	0.8	2.8	1.6	0.8	1.5	2.6	
	Total	Cases	568	20	131	78	66	93	47	73	60	
		Rate	2.2	0.9	2.0	0.9	6.5	9.5	1.8	2.4	64.7	
	Foreign-born (WHO region)	Africa	Cases	82	2	30	36	4	-	6	4	-
Rate			46.4	65.4	122.8	37.7	92.9	-	43.6	11.9	-	
Americas		Cases	85	-	42	30	3	1	4	5	-	
		Rate	9.2	-	33.1	6.0	13.2	11.4	5.5	2.8	-	
East Mediterranean		Cases	115	1	22	78	1	-	7	6	-	
		Rate	32.5	16.2	44.9	40.9	11.6	-	25.4	8.9	-	
Europe		Cases	110	-	23	57	2	6	5	17	-	
		Rate	4.2	-	6.6	4.0	3.1	25.1	2.4	3.4	-	
South East Asia		Cases	205	1	23	114	1	1	12	53	-	
		Rate	53.5	15.8	44.1	54.8	10.6	27.9	40.2	72.6	-	
Western Pacific		Cases	468	1	45	235	20	3	52	111	1	
		Rate	39.7	5.1	27.9	36.7	69.2	27.1	56.6	49.4	68.6	

...cont'd

**Table 3** *Cont'd*

**Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by birthplace - Canada and provinces/territories: 2000**

Birthplace			CANADA	Province/territory							
				Atlantic	Que.	Ont.	Man.	Sask.	Alta.	B.C.	North
Foreign-born (WHO region)	Unknown region	Cases	37	-	-	20	1	-	-	16	-
		Rate	-	-	-	-	-	-	-	-	-
	Total	Cases	1,102	5	185	570	32	11	86	212	1
		Rate	19.5	5.4	24.2	18.6	23.1	21.0	19.6	19.7	14.4
Unknown birthplace		Cases	24	-	2	22	-	-	-	-	-
		Rate	-	-	-	-	-	-	-	-	-
TOTAL		Cases	1,694	25	318	670	98	104	133	285	61
		Rate	5.5	1.0	4.3	5.7	8.5	10.1	4.4	7.0	61.1

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**Table 4**

**Reported new active and relapsed tuberculosis cases and incidence rate per 100,000 by main diagnostic site – Canada: 1990-2000**

Main diagnostic site		Year of diagnosis										
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Primary	Cases	230	206	193	189	152	163	120	131	130	155	101
	Rate	0.8	0.7	0.7	0.7	0.5	0.6	0.4	0.4	0.4	0.5	0.3
Miliary/disseminated	Cases	67	43	60	58	65	48	57	73	41	38	40
	Rate	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
Respiratory (pulm/other resp)*	Cases	1,183	1,217	1,351	1,260	1,325	1,244	1,155	1,230	1,150	1,171	1,138
	Rate	4.3	4.3	4.7	4.4	4.5	4.2	3.9	4.1	3.8	3.8	3.7
Meninges and CNS	Cases	17	15	17	19	18	22	19	25	24	15	15
	Rate	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
Peripheral lymph node	Cases	223	223	259	281	301	249	242	266	271	239	254
	Rate	0.8	0.8	0.9	1.0	1.0	0.8	0.8	0.9	0.9	0.8	0.8
Other sites*	Cases	220	242	220	202	206	199	263	248	165	180	144
	Rate	0.8	0.9	0.8	0.7	0.7	0.7	0.9	0.8	0.5	0.6	0.5
Unknown	Cases	57	72	8	3	7	6	12	3	10	8	2
	Rate	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL</b>	<b>Cases</b>	<b>1,997</b>	<b>2,018</b>	<b>2,108</b>	<b>2,012</b>	<b>2,074</b>	<b>1,931</b>	<b>1,868</b>	<b>1,976</b>	<b>1,791</b>	<b>1,806</b>	<b>1,694</b>
	<b>Rate</b>	<b>7.2</b>	<b>7.2</b>	<b>7.4</b>	<b>7.0</b>	<b>7.1</b>	<b>6.5</b>	<b>6.3</b>	<b>6.6</b>	<b>5.9</b>	<b>5.9</b>	<b>5.5</b>

\* Respiratory includes pulmonary (with or without silicosis), pleurisy and other respiratory.

Other sites includes abdominal, bones and joints, genitourinary and other non-respiratory.

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**Table 5****Reported new active and relapsed tuberculosis cases by birthplace and main diagnostic site – Canada: 2000**

Birthplace		TOTAL	Main diagnostic site						
			Primary	Miliary/ disseminated	Respiratory (pulm/ other resp)*	Meninges and CNS	Peripheral lymph node	Other sites*	Unknown
Canadian-born	Aboriginal								
	Status Indian	168	37	6	94	4	13	14	-
	Non-Status Indian/Métis	36	6	-	25	-	3	2	-
	Inuit	57	13	-	41	-	1	2	-
	<b>Total</b>	<b>261</b>	<b>56</b>	<b>6</b>	<b>160</b>	<b>4</b>	<b>17</b>	<b>18</b>	<b>-</b>
	Non-Aboriginal	307	16	9	235	3	24	20	-
	<b>Total</b>	<b>568</b>	<b>72</b>	<b>15</b>	<b>395</b>	<b>7</b>	<b>41</b>	<b>38</b>	<b>-</b>
Foreign-born (WHO region)	Africa	82	1	5	52	1	17	5	1
	Americas	85	4	2	57	1	15	6	-
	East Mediterranean	115	4	1	68	2	26	14	-
	Europe	110	6	3	83	1	7	10	-
	South East Asia	205	-	6	132	1	44	22	-
	Western Pacific	468	7	6	318	1	97	39	-
	Unknown region	37	3	2	21	1	3	6	1
	<b>Total</b>	<b>1,102</b>	<b>25</b>	<b>25</b>	<b>731</b>	<b>8</b>	<b>209</b>	<b>102</b>	<b>2</b>
Unknown birthplace		24	4	-	12	-	4	4	-
<b>TOTAL</b>		<b>1,694</b>	<b>101</b>	<b>40</b>	<b>1,138</b>	<b>15</b>	<b>254</b>	<b>144</b>	<b>2</b>

\* Respiratory includes pulmonary (with or without silicosis), pleurisy and other respiratory.

Other sites includes abdominal, bones and joints, genitourinary and other non-respiratory.

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