



DOMINION BUREAU OF STATISTICS

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TUBERCULOSIS TRENDS, 1959

Indicators depicting the downward trend of tuberculosis in 1959 have revealed the continuation of a similar course begun some years previously. Some of these indicators are first admissions to tuberculosis institutions, notifications of new active cases of tuberculosis, deaths caused by tuberculosis, and length of stay in hospital of tuberculosis patients. The rate of all first admissions (tuberculous and non-tuberculous) to tuberculosis institutions had remained comparatively stable from 1950 to 1957. Since 1957 the rate has dropped 22 per cent to 61 per 100,000 population. Tuberculous first admission rates in 1959 have diminished to 42, or 26 per cent lower than in 1957 and almost 40 per cent less than in 1950. The downward trend in the notification rate is even more pronounced, reaching 37 in 1959, some 56 per cent lower than the 1950 rate and 20 per cent below the 1957 rate. The indicator which has shown the most remarkable change since 1950 is the rate of deaths caused by tuberculosis. This rate has declined by 79 per

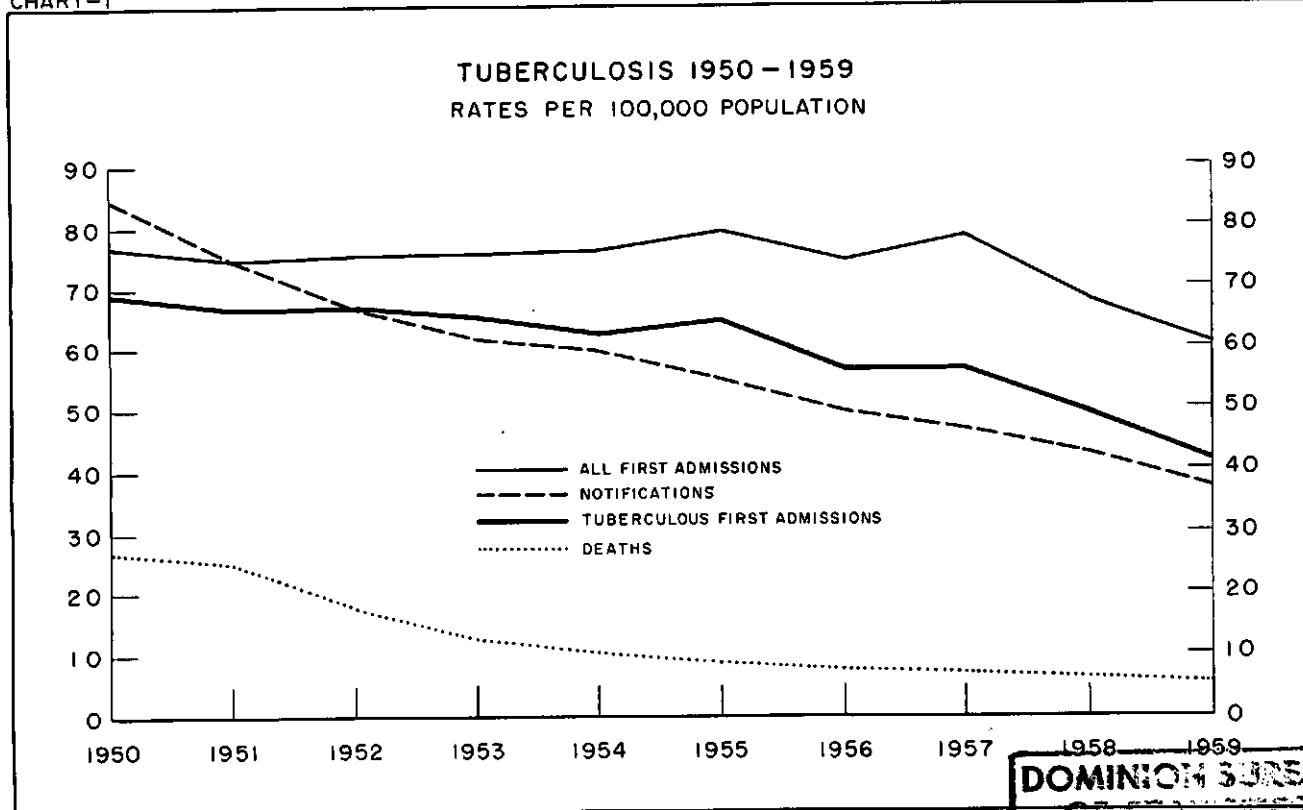
cent since 1950, and in 1959 was 5.5 per 100,000 population.

Tuberculosis age-sex specific death rate trends continue downward, as illustrated in Chart 2. While the number of deaths is decreasing, a gradual proportional shift to the older ages is apparent. This is especially true in the male distribution.

Average (arithmetic mean) length of stay in hospital for tuberculous patients has become shorter each year since 1954. Average hospital stay for all tuberculous patients who left the hospital alive declined by 87 days or 23 per cent between 1954 and 1959. The median length of stay in hospital for all tuberculous discharged patients declined 61 days or almost 21 per cent in this period. The median is not unduly influenced by long-term patients who leave the hospital and is perhaps a better guide than the arithmetic mean.

The Canadian death rate from tuberculosis is lower than the rates in many other countries.

CHART-1



Prepared in the Health and Welfare Division

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TABLE 1. Notifications,¹ All First Admissions, Tuberculous First Admissions, and Deaths, 1950-59

Year	Canada	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon	N.W.T.
Number													
Notifications													
1950	11,582	624	86	282	763	4,897	1,431	603	587	512	1,327	..	..
1951	10,398	642	162	192	717	4,203	1,291	502	451	574	1,662	..	..
1952	9,537	511	120	177	437	4,187	1,287	550	458	399	1,411	..	..
1953	9,141	467	63	151	402	4,094	1,412	511	576	403	1,062	..	..
1954	9,122	491	98	146	357	4,196	1,363	437	560	394	1,080	..	..
1955	8,567	408	58	84	325	3,903	1,514	332	449	462	983	29	..
1956	7,930	385	44	112	375	3,512	1,334	376	355	500	930	7	..
1957	7,662	339	37	272	358	3,135	1,215	357	244	565	927	13	..
1958	7,215	273	53	264	436	2,912	1,274	331	307	525	821	13	..
1959 ^p	6,445	220	35	289	501	2,821	871	356	242	553	734	13	10
All first admissions													
1950	10,494	186	97	340	622	4,287	2,437	690	486	617	752	..	..
1951	10,380	238	120	334	548	4,290	2,420	686	382	598	764	..	..
1952	10,896	276	104	547	558	4,207	2,484	649	455	656	820	..	140
1953	11,187	397	81	507	528	4,267	2,528	662	545	628	819	..	177
1954	11,552	654	100	579	483	4,430	2,316	739	566	629	926	..	130
1955	12,402	696	48	564	604	4,557	2,822	688	505	645	1,163	..	110
1956	11,919	698	45	616	524	4,701	2,637	686	418	641	873	..	82
1957	12,946	590	45	595	801	5,508	2,725	729	421	656	765	..	111
1958	11,521	648	52	595	643	4,374	2,712	702	393	650	653	..	99
1959	10,576	661	43	429	527	4,135	2,518	462	337	685	644	..	155
Tuberculous first admissions													
1950	8,440	182	95	312	531	3,830	2,254	522	409	557	748	..	..
1951	9,257	238	110	285	459	3,799	2,210	501	341	558	756	..	..
1952	9,580	269	99	485	477	3,605	2,225	513	405	581	789	..	132
1953	9,661	391	76	421	437	3,537	2,284	518	496	559	779	..	163
1954	9,523	593	88	473	382	3,393	2,044	548	488	552	851	..	111
1955	10,163	647	48	467	511	3,401	2,436	496	444	564	1,067	..	82
1956	9,131	622	42	491	425	3,103	2,227	458	364	540	786	..	75
1957	9,331	531	42	442	685	3,171	2,248	467	354	558	734	..	99
1958	8,349	538	49	447	487	2,782	2,080	398	325	546	634	..	65
1959	7,256	496	34	309	400	2,428	1,718	326	262	552	620	..	113
Deaths													
1950	3,679	247	29	176	159	1,571	585	179	153	171	313	15	81
1951	3,481	256	17	126	134	1,553	579	158	156	146	292	9	55
1952	2,538	175	24	94	100	1,108	398	115	104	125	214	5	76
1953	1,861	111	13	72	69	844	311	89	87	68	146	5	46
1954	1,593	105	10	76	51	714	307	71	42	63	123	2	29
1955	1,403	82	6	48	43	608	242	72	57	81	143	3	18
1956	1,256	82	4	44	45	572	221	61	46	43	110	-	28
1957	1,183	82	11	45	32	513	221	70	31	68	86	1	23
1958	1,027	64	5	36	35	504	186	42	23	44	70	-	18
1959	959	54	4	28	44	485	166	41	27	44	54	1	11

¹ Newly diagnosed active cases reported by provincial health departments.

.. Figures not available.

... Figures not appropriate or not applicable.

^p Preliminary.

TABLE 2. Notifications,¹ All First Admissions, Tuberculous First Admissions, and Deaths, 1950-59

Year	Canada	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon	N.W.T.
Rate per 100,000 population													
Notifications													
1950	84.5	177.8	89.6	44.2	149.0	123.4	32.0	78.5	64.5	56.1	160.7	..	..
1951	74.3	177.6	164.6	29.9	139.0	103.6	28.1	64.6	54.2	61.1	142.6	..	..
1952	66.1	136.6	120.0	27.1	83.1	100.3	26.9	68.9	54.3	41.0	117.1	..	..
1953	61.7	121.9	62.4	22.8	75.4	95.9	28.6	63.2	66.9	39.8	85.1	..	..
1954	59.8	124.3	97.0	21.7	66.1	95.6	26.6	53.1	64.1	37.3	83.4	..	..
1955	54.6	100.5	58.0	12.3	59.4	86.4	28.8	39.6	51.1	44.2	73.2	263.6	..
1956	49.4	92.8	44.3	16.1	67.6	75.9	24.7	44.2	40.3	44.5	66.5	58.3	..
1957	46.2	79.6	37.4	38.7	63.4	65.9	23.4	41.5	39.1	48.7	62.3	108.3	..
1958	42.4	62.3	53.0	37.2	75.6	59.6	22.0	38.0	34.6	43.7	53.6	100.0	..
1959 ^P	37.0	49.0	34.3	40.4	84.9	52.4	14.6	40.2	26.8	44.5	46.8	100.0	47.6
All first admissions													
1950	76.7	53.0	101.0	53.3	121.5	108.0	54.5	89.8	55.9	67.6	66.1	..	..
1951	74.2	65.9	122.0	52.0	106.3	105.8	52.6	88.3	45.9	63.7	65.6	..	..
1952	75.4	73.8	104.0	83.8	106.1	100.8	51.9	81.3	54.0	67.4	68.0	..	875.0
1953	75.1	103.7	80.2	76.5	99.1	100.0	51.2	81.8	63.3	61.9	65.6	..	1,106.3
1954	75.6	165.6	99.0	86.0	89.4	101.0	45.3	89.8	64.8	59.5	71.5	..	764.7
1955	79.1	171.4	48.0	82.6	110.4	100.9	53.6	79.6	57.5	59.1	88.2	..	611.1
1956	74.2	167.7	45.3	88.7	94.5	101.6	48.8	80.7	47.5	57.1	62.4	..	424.9
1957	78.1	138.5	45.5	84.8	141.8	115.8	48.5	84.8	47.9	56.8	51.4	..	584.2
1958	67.6	147.9	52.0	83.8	111.4	89.6	46.7	80.7	44.3	54.1	42.3	..	495.0
1959	60.7	147.2	42.2	59.9	89.3	82.7	42.3	52.2	37.4	53.5	41.0	..	738.1
Tuberculous first admissions													
1950	69.0	51.9	99.0	48.9	103.7	96.5	50.4	68.0	49.1	61.0	65.8	..	..
1951	68.2	65.9	111.8	44.4	89.0	93.7	48.1	64.5	41.0	59.4	64.9	..	..
1952	66.3	71.9	99.0	74.3	90.7	86.4	46.5	64.3	48.0	59.7	65.5	..	825.0
1953	65.1	102.1	75.2	63.5	82.0	82.9	46.2	64.0	57.6	55.2	62.4	..	1,018.8
1954	62.3	150.1	87.1	70.3	70.7	77.3	40.0	66.6	55.9	52.2	65.7	..	652.9
1955	64.8	159.4	48.0	68.4	93.4	75.3	46.3	59.1	50.6	51.7	79.5	..	455.6
1956	56.8	149.8	42.3	70.7	76.6	67.0	41.2	53.6	41.3	48.1	56.2	..	388.6
1957	56.3	124.6	42.4	63.0	121.2	66.6	40.0	54.3	40.3	48.1	49.4	..	521.1
1958	49.0	122.8	49.0	63.0	84.4	57.0	35.8	45.5	36.6	45.5	41.1	..	325.0
1959	41.6	110.5	33.3	43.2	67.8	48.6	28.8	36.8	29.0	44.4	39.5	..	538.1
Deaths													
1950	26.8	70.4	30.2	27.6	31.1	39.6	13.1	23.3	18.4	18.7	27.5	187.5	506.3
1951	24.8	70.9	17.3	19.6	26.0	38.3	12.6	20.4	18.8	15.5	25.1	100.0	343.8
1952	17.6	46.8	24.0	14.4	19.0	26.5	8.3	14.4	12.3	12.8	17.8	55.6	475.0
1953	12.5	29.0	12.9	10.9	12.9	19.8	6.3	11.0	10.1	6.7	11.7	55.6	287.5
1954	10.4	26.6	9.9	11.3	9.4	16.3	6.0	8.6	4.8	6.0	9.5	20.0	170.6
1955	8.9	20.2	6.0	7.0	7.9	13.5	4.6	8.6	6.5	7.4	10.7	27.3	100.0
1956	7.8	19.8	4.0	6.3	8.1	12.4	4.1	7.2	5.2	3.8	7.9	-	147.4
1957	7.1	19.2	11.1	6.4	5.7	10.8	3.9	8.1	3.5	5.9	5.8	8.3	121.1
1958	6.0	14.6	5.0	5.1	6.1	10.3	3.2	4.8	2.6	3.7	4.5	-	90.0
1959	5.5	12.0	3.9	3.9	7.5	9.7	2.8	4.6	3.0	3.5	3.4	7.7	52.4

¹ Newly diagnosed active cases reported by provincial health departments.

.. Figures not available.

.. Figures not appropriate or not applicable.

^P Preliminary.

TABLE 3. Deaths from Tuberculosis, by Age and Sex, 1950-59

Year	All ages	0-4	5-14	15-29	30-44	45-59	60-69	70+
Number								
Total								
1950	3,679	278	224	839	817	692	458	371
1951	3,481	255	184	765	792	637	471	377
1952	2,538	220	133	470	528	514	352	321
1953	1,861	165	84	264	390	372	310	276
1954	1,593	112	51	196	351	341	277	265
1955	1,403	68	32	184	297	309	235	278
1956	1,256	65	27	126	248	301	210	279
1957	1,183	51	19	118	220	304	188	283
1958	1,027	67	19	82	201	244	209	205
1959	939	36	15	73	181	230	166	258
Males								
1950	2,066	137	98	344	431	491	329	236
1951	2,016	148	84	339	422	440	344	239
1952	1,545	109	66	228	289	371	264	218
1953	1,131	85	40	105	222	266	232	181
1954	1,008	64	27	88	191	257	210	171
1955	865	40	15	85	159	223	167	176
1956	838	39	17	70	149	210	148	205
1957	779	28	10	52	131	221	135	202
1958	667	37	10	34	100	180	159	147
1959	646	25	8	31	108	159	132	183
Females								
1950	1,613	141	126	495	386	201	129	135
1951	1,465	107	100	426	370	197	127	138
1952	993	111	67	242	239	143	88	103
1953	730	80	44	159	168	106	78	95
1954	585	48	24	108	160	84	67	94
1955	538	28	17	99	138	86	68	102
1956	418	26	10	56	99	91	62	74
1957	404	23	9	66	89	83	53	81
1958	360	30	9	48	101	64	50	58
1959	313	11	7	42	73	71	34	75
Rate per 100,000 population								
Total								
1950	26.8	17.0	9.2	25.4	28.8	35.4	49.9	58.5
1951	24.8	14.8	7.3	23.3	27.2	32.2	50.1	57.8
1952	17.6	12.4	5.0	14.1	17.5	25.3	37.0	47.2
1953	12.5	9.0	3.0	7.8	12.6	17.8	32.3	39.1
1954	10.4	5.9	1.7	5.7	11.0	15.9	28.6	36.1
1955	8.9	3.5	1.0	5.3	9.1	14.1	24.0	36.7
1956	7.8	3.3	0.8	3.6	7.4	13.4	21.2	35.8
1957	7.1	2.5	0.6	3.3	6.4	13.2	18.9	35.3
1958	6.0	3.1	0.5	2.2	5.7	10.3	20.8	24.9
1959	5.5	1.6	0.4	2.0	5.1	9.4	16.2	30.5
Males								
1950	29.7	16.4	7.9	20.9	30.1	48.6	68.2	74.7
1951	28.4	16.8	6.5	20.9	28.9	43.1	69.9	73.9
1952	21.1	12.0	4.8	13.7	19.1	35.3	53.4	64.7
1953	15.0	9.1	2.8	6.2	14.3	24.7	46.7	51.7
1954	13.0	6.6	1.8	5.1	11.9	23.3	42.1	47.1
1955	10.9	4.0	0.9	4.9	9.7	19.7	33.4	47.1
1956	10.3	3.9	1.0	4.0	8.9	18.1	29.4	53.3
1957	9.3	2.7	0.6	2.9	7.6	16.5	26.8	51.3
1958	7.7	3.4	0.6	1.8	5.7	14.7	31.6	36.6
1959	7.3	2.2	0.4	1.6	6.0	12.7	25.8	44.5
Females								
1950	23.9	17.6	10.5	29.9	27.4	21.3	29.7	42.4
1951	21.2	12.7	8.1	25.7	25.5	20.6	28.4	41.9
1952	13.9	12.8	5.1	14.5	15.9	14.5	19.3	30.0
1953	10.0	8.9	3.2	9.4	10.9	10.5	16.9	26.7
1954	7.8	5.2	1.7	6.4	10.0	8.1	14.2	25.4
1955	7.0	2.9	1.1	5.8	8.4	8.1	14.2	26.6
1956	5.3	2.7	0.6	3.2	5.9	8.4	12.8	18.7
1957	4.9	2.3	0.5	3.7	5.2	7.4	10.7	19.8
1958	4.3	2.9	0.5	2.7	5.8	5.6	10.0	13.8
1959	3.6	1.0	0.4	2.3	4.8	5.1	6.6	17.2

CHART-2

TUBERCULOSIS AGE-SEX SPECIFIC DEATH RATES PER 100,000 POPULATION
SELECTED YEARS 1950-1959

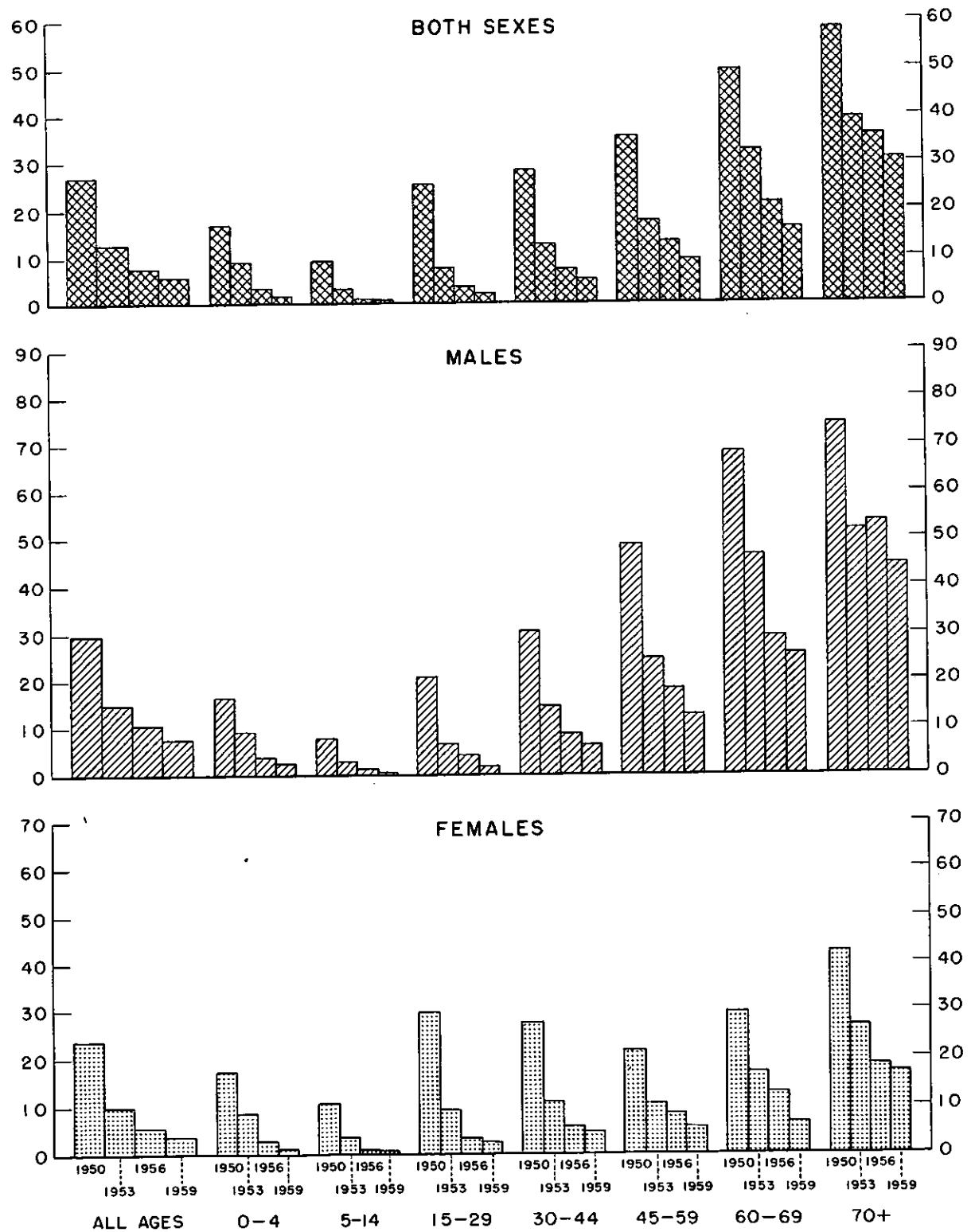


TABLE 4. Average Stay in Hospital of Discharged¹ Tuberculous Patients, 1950-59

	1950	1951	1952	1953	1954
All tuberculous discharges:					
Mean	331	301	337	362	372
Median	234	209	249	265	291
Tuberculous first admissions:					
Mean .....	..	..	..	..	394
Median .....	..	..	..	291	316
Tuberculous readmissions:					
Mean .....	..	..	..	..	326
Median .....	..	..	..	211	240
	1955	1956	1957	1958	1959
All tuberculous discharges:					
Mean	362	328	310	295	285
Median	284	268	246	242	230
Tuberculous first admissions:					
Mean	390	361	333	326	306
Median	318	309	279	277	261
Tuberculous readmissions:					
Mean	305	264	263	249	244
Median	214	178	167	159	156

¹ Patients who left hospital alive.

.. Figures not available.

CHART-3

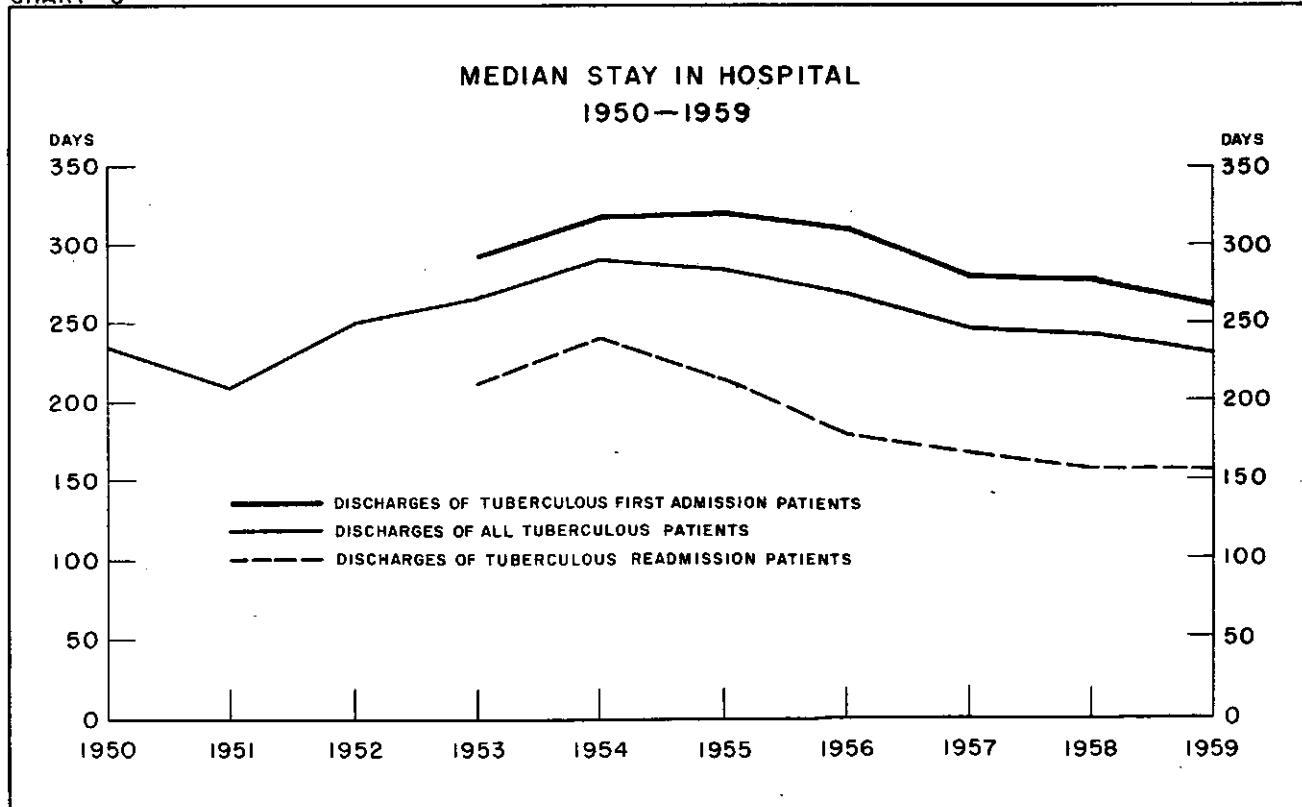


TABLE 5. Summary of Case-finding Programs, 1950-59

Program	1950	1951	1952	1953	1954
Tuberculosis clinics and dispensaries:					
Number of examinations	497,641	502,211	541,515	579,356	520,378
Number with tuberculosis .....	..	..	..	..	54,027
Cases per 1,000 examinations .....	..	..	..	..	103.8
X-ray surveys:					
Number of examinations	1,856,835	2,002,071	1,904,138	1,901,507	1,992,519
Number with tuberculosis	13,274	16,213	13,957	13,331	13,694
Cases per 1,000 examinations	7.1	8.1	7.3	7.0	6.9
X-rays of general hospital admissions:					
Number of examinations	306,347 ¹	439,192 ²	489,733	559,261	632,864
Number with tuberculosis	3,587	3,486	3,528	3,942	4,865
Cases per 1,000 examinations	11.7	7.9	7.2	7.0	7.7
Newfoundland program:					
Number of examinations	48,248	76,894	69,509	59,570	70,173
Number with tuberculosis .....	..	..	..	..	5,673
Cases per 1,000 examinations .....	..	..	..	..	80.8
	1955	1956	1957	1958	1959
Tuberculosis clinics and dispensaries:					
Number of examinations	536,793	411,026	575,034	491,646	465,064
Number with tuberculosis	70,281	71,278	67,456	57,862	52,590
Cases per 1,000 examinations	130.9	173.4	117.3	117.7	113.1
X-ray surveys:					
Number of examinations	1,752,298	1,817,318	1,785,282	1,494,333	1,483,164
Number with tuberculosis	12,345	15,005	16,616	14,854	14,206
Cases per 1,000 examinations	7.0	8.3	9.3	9.9	9.6
X-rays of general hospital admissions:					
Number of examinations	686,324	710,586	749,707	687,838	586,251
Number with tuberculosis	4,598	4,716	4,676	4,219	4,548
Cases per 1,000 examinations	6.7	6.6	6.2	6.1	7.7
Newfoundland program:					
Number of examinations	92,154	94,217	83,318	71,433	83,912
Number with tuberculosis	4,994	6,092	6,308	6,222	4,548
Cases per 1,000 examinations	54.2	64.7	75.7	81.1	54.2

¹ Includes only the provinces of New Brunswick, Ontario, Manitoba, Saskatchewan and Alberta.

² Includes only the provinces of Nova Scotia, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.

.. Figures not available.

TABLE 6. Tuberculosis Death Rates for Selected Countries, 1950-59

Year	Canada	Denmark	England and Wales	France	Ireland	Japan	Scotland	United States
Rate per 100,000 population								
1950.....	26.8	13.8	36.4	58.1	80.2	146.4	53.6	22.5
1951.....	24.8	13.3	31.5	60.9	73.1	110.7	42.6	20.1
1952.....	17.6	10.9	24.1	43.8	53.5	82.5	31.5	15.8
1953.....	12.5	8.8	20.2	36.8	40.3	66.7	26.2	12.3
1954.....	10.4	7.7	17.8	32.4	34.3	62.5	22.0	10.2
1955.....	8.9	6.3	14.6	31.3	30.5	52.3	19.1	9.2
1956.....	7.8	5.1	12.1	28.5	23.8	48.7	15.6	8.4
1957.....	7.1	—	10.7	27.4	24.1	46.9	14.0	7.5
1958.....	6.0	—	10.0	—	21.0	—	13.0	7.0
1959.....	5.5	—	—	—	—	—	—	—

CHART-4

