

ANNUAL REPORT 1992

CHEST SERVICE

OF THE

GOVERNMENT DEPARTMENT OF

HEALTH

ANNUAL REPORT 1992
CHEST SERVICE
OF THE
DEPARTMENT OF HEALTH

Preface

The Tuberculosis and Chest Service came through a very difficult year in 1992 encountering numerous problems arising from its structural reorganization in December 1991 with the management of the hospital-based chest service transferred to the Hospital Authority (HA) while the public health function, including the clinic service, remained under the Department of Health (DH).

The core of many problems lied in the lack of co-ordination and co-operation between the chest units of the two authorities - DH and HA. Subsequent to the splitting, each hospital chest unit operated with its own admission criteria and procedures, thus causing confusion as well as delay in hospital admission from chest clinics. The transfer of patients' medical records, including casenotes, x-ray films and pathological reports between the hospital and health sectors was more complicated than before as they are now treated as different inventories under two separate management systems. It is not rare to find that no case records could be referred when the patients were discharged from hospitals. Management of patient was adversely affected particularly in the respect of continuity of patient care.

Despite the fact that the Consultant Chest Physician in the Service was entrusted with the responsibility in the prevention and control of tuberculosis, no authority was given to him to unify and standardize the antituberculosis treatment regimens particularly the ones being provided by hospitals. Non-standardization of treatment increased difficulties in patient management. Statistical data in relation to the control/treatment of tuberculosis on the part of hospital chest units was frequently not available to the Chest Service. Without such information feedback, our work to achieve an effective control of the diseases was hindered.

A Tuberculosis & Chest Sub-committee was officially formed under HA with an aim to facilitating co-ordination between hospital chest units and chest clinics. It comprised mainly the service heads of individual hospital chest units, and also the Consultant Chest Physician representing DH but without the membership of officers of high administrative ranking from both sectors. Problems which required decisions from authoritative level such as arrangement of mutual attachment training for medical staff and allocation of hospital beds specially for patients from chest clinics still could not be solved. Clinic doctors were debarred from access to hospitals. The lack of training in hospital patient care dampened the work incentive of medical staff in the Service and also their opportunity to acquire higher medical qualification.

Besides, the Service suffered an acute shortage of Senior Medical & Health Officer in the past year. It experienced more than two vacancies all through the year compared with 5 SMO posts under the establishment. There was not even a substantive SMO on duty at one time. Inadequate senior staff made it more difficult to handle staff supervision and implement of policy changes.

Though in the face of various problems, the Tuberculosis and Chest Service continued to play its important role in the prevention and control of tuberculosis effectively. Best possible quality of medical services are also provided to patients with different kinds of chest and respiratory diseases. Emphasis is placed on the provision of high quality ambulatory care on a community basis.

BCG vaccination, surveillance, contact tracing, supervised chemotherapy, research, and health education remained as the major components of our effective tuberculosis control programme. Despite of such control measures the notification of tuberculosis increased by more than 200 (4%) instead of an expected decrease of 3%. Whether this increase was artificial or genuine and the cause of it require to be assessed.

During the year, 92,574 patients attended the government chest service compared with 86,202 in 1991, the total attendance was 727,081 compared with 718,958 in 1991. Of the 92,574 patients, 39,336 patients were new attendants of whom 41.5% were found free of any chest disease. The most common respiratory illness diagnosed were respiratory tuberculosis (11.6%), pneumonia (4.0%), bronchiectasis (1.7%), malignant neoplasm of trachea and bronchus (2.4%), bronchitis (6.9%), asthma (0.5%) and emphysema (0.4%). Of the attending patients, 5,229 required hospital admission.

Part I : Tuberculosis

The tuberculosis notifications in 1992 was 6,534 making a notification rate of 112.4 per 100,000 population, the corresponding figures in 1991 were 6,283 and 109.2. Instead of an expected 3% reduction there was an increase of 4%.

The tuberculosis deaths increased by one from 409 in 1991 to 410 in 1992 and the mortality rate was unchanged, 7.1 per 100,000 population in both years.

Tuberculosis was in the eleventh position of the leading causes of death and tuberculosis deaths accounted for 1.3% of the total registered deaths in Hong Kong. There was no infant death in 1992 and the average age of death was 68.

In 1992, 99.0% of the new-borns were BCG vaccinated at birth and 67.6% of the primary school children aged 6-10 were revaccinated after tuberculin testing.

Considerable number of applicants for migration to Australia and Canada attended the clinics for therapeutic or prophylactic treatment.

The important link between HIV infection and tuberculosis was established. Unfortunately, the special medical consultation service for AIDS and the Chest Service is working independently without any collaboration. Most of the tuberculosis cases discovered by the special medical service group were not notified to the Chest Service for any appropriate action for the sake of keeping confidentiality. Test for HIV infection among tuberculosis patients in the Chest Service was only done on voluntary basis with patient's consent, but the positive rate was very low.

Part II : Malignant neoplasm of trachea, bronchus and lung

In 1992, the number of inpatients suffering from malignant disease of trachea, bronchus and lung were 11,670 compared with 11,114 in 1991. 2,761 were certified deaths from malignant neoplasm of bronchus and the crude death rate of the disease was 47.5 per 100,000 population. The corresponding figures in 1991 were 2,597 and 45.1. Ca lung remained a serious problem. Strengthened anti-smoking campaign and activities need to be enforced.

Part III : Pneumoconiosis

While the Pneumoconiosis Compensation Ordinance was under review. 173 cases of silicosis were registered in the Chest Service in 1992, and 190 cases including 2 cases of asbetosis were assessed by the medical board and compensated. Up to the end of 1992, a total of 3,830 patients were compensated with \$217,506,489.

PART 1

TUBERCULOSIS

Contents

Appendix No.

1. Tuberculosis notifications and notification rates, 1939 - 1992
2. Origin of Tuberculosis notifications, 1981 - 1992
3. Tuberculosis notifications by districts 1955 - 1992
4. Tuberculosis notifications and notification rates by Epidemiological Districts 1991 & 1992
5. Tuberculosis notifications (All forms) by age and sex 1982, 1991 & 1992
6. Notifications of Tuberculosis of Respiratory System (010 - 012) by age and sex 1982, 1991 & 1992
7. Notifications of Tuberculosis of Meninges (013) by age and sex 1982, 1991 & 1992
8. Notifications of Tuberculosis of Bones & Joints (015) by age and sex 1982, 1991 & 1992
9. Notifications of Tuberculosis of all forms other than Tuberculosis of Respiratory System, Meninges, Bones and Joints (014, 016 - 018 & 137) by age and sex, 1982, 1991 & 1992
10. Tuberculosis notification rates by age and sex 1982, 1991 & 1992
11. TB notification rate by age and sex, 1982, 1991 & 1992 (Graph)
12. Forecast of Tuberculosis notification rate (Graph)
13. Forecast of Tuberculosis notifications
14. Tuberculosis notification rate (All forms) 1952 - 1992 (Graph)
15. Tuberculosis deaths, 1900 - 1992
16. Notification/Death ratio of Tuberculosis (All forms) 1946 - 1992
17. Tuberculosis mortality, 1949 - 1992
18. Infant mortality rates (All causes and Tuberculosis) and BCG vaccination of newborns (Graph) 1952 - 1992
19. Sex ratio of deaths due to Tuberculosis (All forms) 1952 - 1992
20. Tuberculosis deaths (All forms) by age and sex 1982, 1991 & 1992

21. Tuberculosis deaths of Respiratory System (010 - 012) by age and sex 1982, 1991 & 1992
22. Tuberculosis deaths of Meninges (013) by age and sex, 1982, 1991 & 1992
23. Tuberculosis deaths of Bones and Joints (015) by age and sex 1982, 1991 & 1992
24. Tuberculosis deaths of all forms other than Respiratory System, Meninges, Bones and Joints (014, 016 - 018 & 137) by age and sex 1982, 1991 & 1992
25. Tuberculosis Death Rate by age and sex 1982, 1991 & 1992
26. Tuberculosis Mortality Rate by age and sex, 1982, 1991 & 1992 (Graph)
27. Crude Death Rate due to Tuberculosis (All forms) 1910 - 1992 (Graph)
28. Crude annual death rate for Hong Kong, 1955 - 1992 (Graph)
29. TB Crude Death Rate and Standardised Death Rate 1982 - 1992 (Graph)
30. Tuberculosis notification rate and death rate, 1951 - 1992 (Graph)
31. Forecast of Tuberculosis Mortality Rate (Graph)
32. Forecast of Tuberculosis deaths
33. Top ten causes of death, 1992
34. New attendances at Medical Examination Board, 1991 & 1992
35. Scheme for Tuberculin Testing and BCG administration in Hong Kong, 1992
36. BCG vaccination of newborns, 1951 - 1992
37. BCG vaccination of birth, 1992
38. Apparent reasons for newborns not being vaccinated with BCG 1992
39. Percentage of babies receiving BCG by vaccination methods, 1970 - 1992
40. Tuberculin Test and BCG vaccination of school children 1962 - 1992

41. Examination of contacts, 1989 - 1992
42. Monthly first attendances at Government Chest Clinics 1991 & 1992 (Graph)
43. Treatment return for the year of 1992
44. Annual admissions to hospitals from Government Chest Clinics 1957 - 1992
45. Hospital admissions (Chest Medical Wards Only) 1991 & 1992
46. Total number of sputum smears, cultures and sensitivity test carried out by the Government Pathological Institute for all agencies, 1985 - 1992.
47. Number of Doctor-sessions and Cases seen by doctors and Patient/Doctor-sessions 1991 & 1992
48. Beds for Treatment of Tuberculosis 1992
49. Beds for Treatment of Tuberculosis 1968 - 1992
50. Work done by Medical Social Workers of Chest Clinic 1988 - 1992 (Financial Year)
51. First visits to Chest Clinics, 1982 - 1992.
52. Total attendance at Chest Clinics, 1982 - 1992
53. Classification of new patients attending Government Chest Clinics 1992
54. Classification of Patients of first attendance to Chest Clinics according to International Classification of Diseases Code, 1992
55. Extent of Active Respiratory Tuberculosis in first attenders at Chest Clinics, 1984 - 1992
56. Flow Chart of Patients attending Chest Clinics, 1992
57. Chest X-ray 1991 & 1992
58. Cost of Anti-Tuberculosis Drugs, 1992
59. Establishment and strength of Chest Service as at 31.12.1992
60. Annual expenditure on Chest Service, 1992/93

APPENDIX 1

Tuberculosis Notifications and Notification Rates (Notifiable since 1939)

Year	Total Notifications	Notification Rate per 100,000 pop
1939	7,591	433.7
1940		(war)
1941		(war)
1942		(war)
1943		(war)
1944		(war)
1945		(war)
1946	2,801	180.7
1947	4,855	277.4
1948	6,279	348.8
1949	7,510	404.4
1950	9,067	405.3
1951	13,886	689.0
1952	14,821	697.2
1953	11,900	530.7
1954	12,508	528.9
1955	14,148	568.1
1956	12,155	464.9
1957	13,665	499.4
1958	13,485	472.5
1959	14,302	482.0
1960	12,425	404.0
1961	12,584	397.2
1962	14,263	431.5
1963	13,031	380.9
1964	12,557	358.3
1965	9,927	275.9
1966	11,427	314.8
1967	15,253	409.7
1968	9,792	257.5
1969	11,072	286.5
1970	10,077	254.5
1971	9,028	223.2
1972	8,420	204.2
1973	8,152	192.2
1974	8,320	190.0
1975	8,192	183.6
1976	7,928	175.5
1977	7,191	156.9
1978	6,623	141.9
1979	7,907 (498)*	160.4
1980	8,065 (712)	159.3
1981	7,729 (254)	149.1
1982	7,527 (112)	143.0
1983	7,301 (73)	136.6
1984	7,843 (69)	145.3
1985	7,545 (59) 580 #	138.3
1986	7,432 (46) 544	134.5
1987	7,269 (41) 495	130.3
1988	7,021 (121) 433	124.8
1989	6,704 (226) 387	117.9
1990	6,510 (288) 341	114.1
1991	6,283 (281) 293	109.2
1992	6,534 (309) 264	112.4

* Figures in brackets denote the number of Vietnamese refugees included.

Figures in this column denote the number of Chinese Immigrants staying in HK for less than 7 years.

APPENDIX 2

Origin of Tuberculosis Notifications

1981 - 1992

Origin	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
East Kowloon Chest Clinic	763	551	567	597	393	358	371	338	293	311	269	280
Kowloon Chest Clinic	1086	990	834	1168	1191	1275	1149	1191	1227	1218	1117	950
Kwai Chung Chest Clinic	558	570	542	617	601	594	584	504	478	490	515	556
Sai Ying Pun Chest Clinic	437	365	454	350	357	324	286	231	262	259	245	262
Shauiwan Chest Clinic	258	240	232	187	199	211	165	138	131	150	141	188
Shek Kip Mei Chest Clinic	519	461	436	477	497	392	346	320	357	331	352	392
Wanchai Chest Clinic	561	589	506	713	648	627	629	771	729	643	580	729
Yaumati Chest Clinic	530	529	510	629	552	447	367	330	370	332	264	343
NT Chest Clinic	224	264	262	224	255	436	481	449	406	422	402	422
Yan Oi Chest Clinic (d)	-	104	166	214	219	225	202	190	226	282	330	291
Yung Fung Shee Chest Clinic (e)	-	-	-	20	206	207	174	163	206	226	238	281
	4936	4663	4509	5196	5118	5096	4754	4625	4685	4664	4453	4694
Other Govt Institutions (a)	472	594	634	506	432	577	493	464	374	466	463	593
Tung Wah Group (b)	328	314	385	319	394	254	309	274	240	218	238	238
Caritas Medical Centre	9	5	8	12	7	3	5	7	8	13	8	11
Ruttonjee Sanatorium	726	773	743	831	651	626	744	792	651	544	493	305
Maryknoll Hospital	109	92	102	93	96	89	91	105	63	79	50	55
Grantham Hospital	443	347	324	340	335	227	379	384	347	323	423	273
Haven of Hope Sanatorium	367	385	370	353	288	235	174	165	158	88	51	91
United Christian Hospital	12	14	17	29	16	26	11	26	13	33	24	32
Others (c)	327	340	209	164	208	299	309	179	165	82	80	N.A.
Other Public Hospitals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	23
Private Practitioners	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	219
Total	7729	7527	7301	7843	7545	7432	7269	7021	6704	6510	6283	6534
% of cases from Chest Clinics among the total	63.9	62.0	61.8	66.3	67.8	68.6	65.4	65.9	69.9	71.6	70.9	71.8

Note : (a) Sources are from former Government Hospitals, Public Mortuaries, Prison Hospitals, Army Hospitals

(b) Most of the notifications are from Wong Tai Sin Infirmary.

(c) Sources are mainly from Private Practitioners.

(d) Yan Oi Chest Clinic was opened in April 1982.

(e) Yung Fung Shee Chest Clinic was opened in October 1984.

APPENDIX 3

Tuberculosis Notifications by Districts 1955 - 1992

Year	Hong Kong Island	Kowloon	New Territories	Unknown	Total
1955	6,525	6,645	387	591	14,148
1956	5,280	6,059	317	499	12,155
1957	5,764	6,960	370	571	13,665
1958	5,478	7,345	294	368	13,485
1959	5,781	7,538	528	455	14,302
1960	5,182	6,342	633	268	12,425
1961	4,949	6,519	775	341	12,584
1962	5,243	7,783	990	247	14,263
1963	5,227	6,449	1,151	204	13,031
1964	3,716	7,561	1,136	144	12,557
1965	3,516	5,314	950	147	9,927
1966	3,646	5,329	2,314	138	11,427
1967	4,263	8,138	2,308	544	15,253
1968	2,373	5,882	1,485	52	9,792
1969	2,650	6,560	1,820	42	11,072
1970	2,458	5,950	1,630	39	10,077
1971	2,122	5,222	1,638	46	9,028
1972	2,152	4,674	1,531	63	8,420
1973	1,942	4,666	1,506	38	8,152
1974	1,965	4,558	1,761	36	8,320
1975	1,942	4,638	1,553	59	8,192
1976	1,870	4,442	1,581	35	7,928
1977	1,586	3,978	1,609	18	7,191
1978	1,599	3,542	1,464	18	6,623
1979	1,698 (137.8)	4,294 (159.3)	1,897 (151.2)	18	7,907 (160.4)
1980	1,652 (128.3)	4,459 (158.1)	1,931 (136.8)	23	8,065 (159.3)
1981	1,899 (155.1)	4,067 (154.2)	1,750 (122.9)	13	7,729 (149.1)
1982	1,760 (144.7)	3,773 (149.3)	1,871 (129.9)	11	7,527 (143.0)
1983	1,668 (137.9)	3,548 (146.0)	2,004 (126.8)	8	7,301 (136.6)
1984	1,699 (140.8)	3,799 (158.8)	2,269 (132.4)	7	7,843 (145.3)
1985	1,637 (137.9)	3,656 (154.1)	2,173 (119.7)	20	7,545 (138.3)
1986	1,656 (137.5)	3,491 (148.2)	2,207 (114.6)	32	7,432 (134.5)
1987	1,649 (132.7)	3,329 (143.9)	2,278 (111.2)	13	7,269 (130.3)
1988	1,553 (123.1)	3,163 (138.7)	2,298 (106.5)	7	7,021 (124.8)
1989	1,489 (117.3)	2,912 (131.8)	2,289 (94.7)	14	6,704 (117.9)
1990	1,367 (107.1)	2,719 (128.5)	2,122 (91.4)	14	6,510 (114.1)
1991	1,382 (110.1)	2,466 (121.0)	2,136 (89.6)	17	6,283 (109.2)
1992	1,327 (103.8)	2,626 (134.8)	2,230 (88.8)	40	6,534 (112.4)

Figures in brackets denote the notification rates per 100,000 population.

APPENDIX 4

Tuberculosis Notifications & Notification Rates (per 100,000 population) by Epidemiological Districts 1991 - 1992

Epidemiological Districts	1991		1992	
	Notification	Notification Rate	Notification	Notification Rate
<u>Hong Kong Island</u>	1,382	110.1	1,327	103.8
Central & Western	297	116.9	275	110.9
Wanchai	240	132.6	216	124.1
Eastern	597	106.2	585	99.7
Southern	248	96.1	251	93.7
<u>Kowloon</u>	2,466	121.0	2,626	134.8
Yau Ma Tei	189	168.8	190	169.6
Mong Kok	214	125.1	231	151.0
Sham Shui Po	489	128.0	560	158.6
Kowloon City	413	102.2	411	109.3
Wong Tai Sin	465	119.9	499	136.7
Kwun Tong	696	120.0	735	124.8
<u>New Territories (East)</u>	840	79.6	879	77.8
North	135	81.3	132	82.0
Tai Po	156	76.9	190	79.8
Shatin	384	75.6	411	78.1
Sai Kung	117	89.3	98	63.2
Islands	48	100.0	48	96.0
<u>New Territories (West)</u>	1,296	97.6	1,351	97.7
Tsuen Wan	252	92.3	290	103.6
Kwai Chung & Tsing Yi	492	111.3	563	124.3
Tuen Mun	327	85.6	312	71.9
Yuen Long	225	97.4	186	86.1
<u>Others</u>	299		351	
Imported	1		2	
Vietnamese Refugees	281		309	
Unknown	17		40	
Total	6,283	109.2	6,534	112.4

APPENDIX 5

Tuberculosis Notifications (All Forms) by Age and Sex 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	6	5	11	-	2	2	-	1	1
1	12	6	18	2	-	2	7	4	11
2	14	4	18	3	1	4	7	7	14
3	3	9	12	6	3	9	5	6	11
4	4	3	7	4	-	4	5	4	9
5 - 9	33	20	53	13	8	21	11	8	19
10 - 14	40	48	88	21	25	46	29	37	66
15 - 19	359	315	674	201	137	338	199	160	359
20 - 24	715	511	1226	286	250	536	322	241	563
25 - 29	563	416	979	351	285	636	322	317	639
30 - 34	382	196	578	403	250	653	390	272	662
35 - 39	254	106	360	324	196	520	297	181	478
40 - 44	319	72	391	290	118	408	294	119	413
45 - 49	348	83	431	236	70	306	256	61	317
50 - 54	441	97	538	311	70	381	282	81	363
55 - 59	467	86	553	404	84	488	402	79	481
60 - 64	440	119	559	426	102	528	479	111	590
65 - 69	323	101	424	414	93	507	430	90	520
70 - 74	227	83	310	312	86	398	338	93	431
75 - 79	127	66	193	222	72	294	247	66	313
80 - 84	34	37	71	85	47	132	116	65	181
85 & over	12	18	30	38	32	70	43	32	75
Unknown	2	1	3	-	-	-	15	3	18
Total	5125	2402	7527	4352	1931	6283	4496	2038	6534

APPENDIX 6

Notifications of Tuberculosis of Respiratory System (010 – 012) by Age and Sex 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	2	3	5	—	2	2	—	1	1
1	7	6	13	2	—	2	6	4	10
2	12	2	14	2	1	3	5	5	10
3	3	6	9	3	3	6	4	4	8
4	3	2	5	3	—	3	5	2	7
5 – 9	19	15	34	7	5	12	6	4	10
10 – 14	31	41	72	15	21	36	26	28	54
15 – 19	340	292	632	189	125	314	183	142	325
20 – 24	691	461	1152	276	220	496	309	213	522
25 – 29	539	378	917	333	251	584	304	278	582
30 – 34	363	168	531	380	208	588	365	229	594
35 – 39	245	93	338	304	164	468	276	152	428
40 – 44	307	64	371	275	95	370	272	98	370
45 – 49	338	81	419	229	55	284	252	48	300
50 – 54	435	82	517	306	57	363	274	70	344
55 – 59	458	75	533	398	72	470	390	64	454
60 – 64	429	107	536	419	88	507	466	100	566
65 – 69	319	93	412	405	89	494	418	80	498
70 – 74	227	74	301	307	81	388	330	80	410
75 – 79	125	64	189	212	70	282	244	62	306
80 – 84	34	35	69	82	45	127	113	62	175
85 & over	12	17	29	37	30	67	42	32	74
Unknown	2	1	3	—	—	—	13	3	16
Total	4941	2160	7101	4184	1682	5866	4303	1761	6064

APPENDIX 7

Notifications of Tuberculosis of Meninges (013) by Age and Sex 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	1	1	-	-	-	-	-	-
3	-	1	1	1	-	1	-	-	-
4	-	-	-	-	-	-	-	1	1
5 - 9	2	-	2	2	-	2	-	-	-
10 - 14	2	1	3	-	-	-	-	1	1
15 - 19	1	2	3	1	-	1	1	-	1
20 - 24	5	2	7	-	-	-	-	1	1
25 - 29	1	2	3	-	1	1	-	1	1
30 - 34	1	2	3	-	2	2	1	-	1
35 - 39	-	-	-	2	2	4	1	1	2
40 - 44	1	1	2	2	1	3	2	-	2
45 - 49	1	-	1	1	-	1	-	-	-
50 - 54	-	-	-	-	-	-	1	-	1
55 - 59	-	1	1	-	1	1	1	1	2
60 - 64	1	1	2	-	-	-	-	-	-
65 - 69	-	-	-	1	-	1	-	-	-
70 - 74	-	-	-	-	-	-	-	-	-
75 - 79	1	-	1	1	-	1	-	-	-
80 - 84	-	-	-	-	-	-	-	-	-
85 & over	-	-	-	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	1	-	1
Total	16	14	30	11	7	18	8	6	14

APPENDIX 8

Notifications of Tuberculosis of Bones & Joints (015) by Age and Sex 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5 - 9	2	-	2	-	-	-	2	-	2
10 - 14	-	-	-	1	-	1	-	-	-
15 - 19	4	-	4	1	-	1	2	1	3
20 - 24	-	-	-	-	-	-	1	-	1
25 - 29	1	2	3	3	1	4	2	-	2
30 - 34	1	1	2	1	2	3	1	1	2
35 - 39	2	2	4	3	2	5	1	1	2
40 - 44	2	2	4	1	-	1	2	1	3
45 - 49	3	-	3	-	1	1	1	1	2
50 - 54	1	-	1	1	1	2	3	1	4
55 - 59	2	-	2	1	-	1	3	2	5
60 - 64	3	1	4	2	1	3	1	2	3
65 - 69	2	2	4	1	2	3	3	-	3
70 - 74	-	3	3	-	1	1	-	3	3
75 - 79	-	-	-	1	1	2	-	2	2
80 - 84	-	1	1	-	-	-	-	-	-
85 & over	-	-	-	-	1	1	-	-	-
Unknown	-	-	-	-	-	-	1	-	1
Total	23	14	37	16	13	29	23	15	38

APPENDIX 9

Notifications of Tuberculosis All Forms other than Tuberculosis of Respiratory System, Meninges, Bones and Joints (014, 016 - 018 & 137) by Age and Sex 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	4	2	6	-	-	-	-	-	-
1	5	-	5	-	-	-	1	-	1
2	2	1	3	1	-	1	2	2	4
3	-	2	2	2	-	2	1	2	3
4	1	1	2	1	-	1	-	1	1
5 - 9	10	5	15	4	3	7	3	4	7
10 - 14	7	6	13	5	4	9	3	8	11
15 - 19	14	21	35	10	12	22	13	17	30
20 - 24	19	48	67	10	30	40	12	27	39
25 - 29	22	34	56	15	32	47	16	38	54
30 - 34	17	25	42	22	38	60	23	42	65
35 - 39	7	11	18	15	28	43	19	27	46
40 - 44	9	5	14	12	22	34	18	20	38
45 - 49	6	2	8	6	14	20	3	12	15
50 - 54	5	15	20	4	12	16	4	10	14
55 - 59	7	10	17	5	11	16	8	12	20
60 - 64	7	10	17	5	13	18	12	9	21
65 - 69	2	6	8	7	2	9	9	10	19
70 - 74	-	6	6	5	4	9	8	10	18
75 - 79	1	2	3	8	1	9	3	2	5
80 - 84	-	1	1	3	2	5	3	3	6
85 & over	-	1	1	1	1	2	1	-	1
Unknown	-	-	-	-	-	-	-	-	-
Total	145	214	359	141	229	370	162	256	418 *

* Including : TB Lymph Node
TB Kidney/Urinary System
TB Peritonitis
TB Pericarditis

281 TB Skin
21 TB Laryngitis
15 Miliary TB
2 Unspecified
2
2
5
90

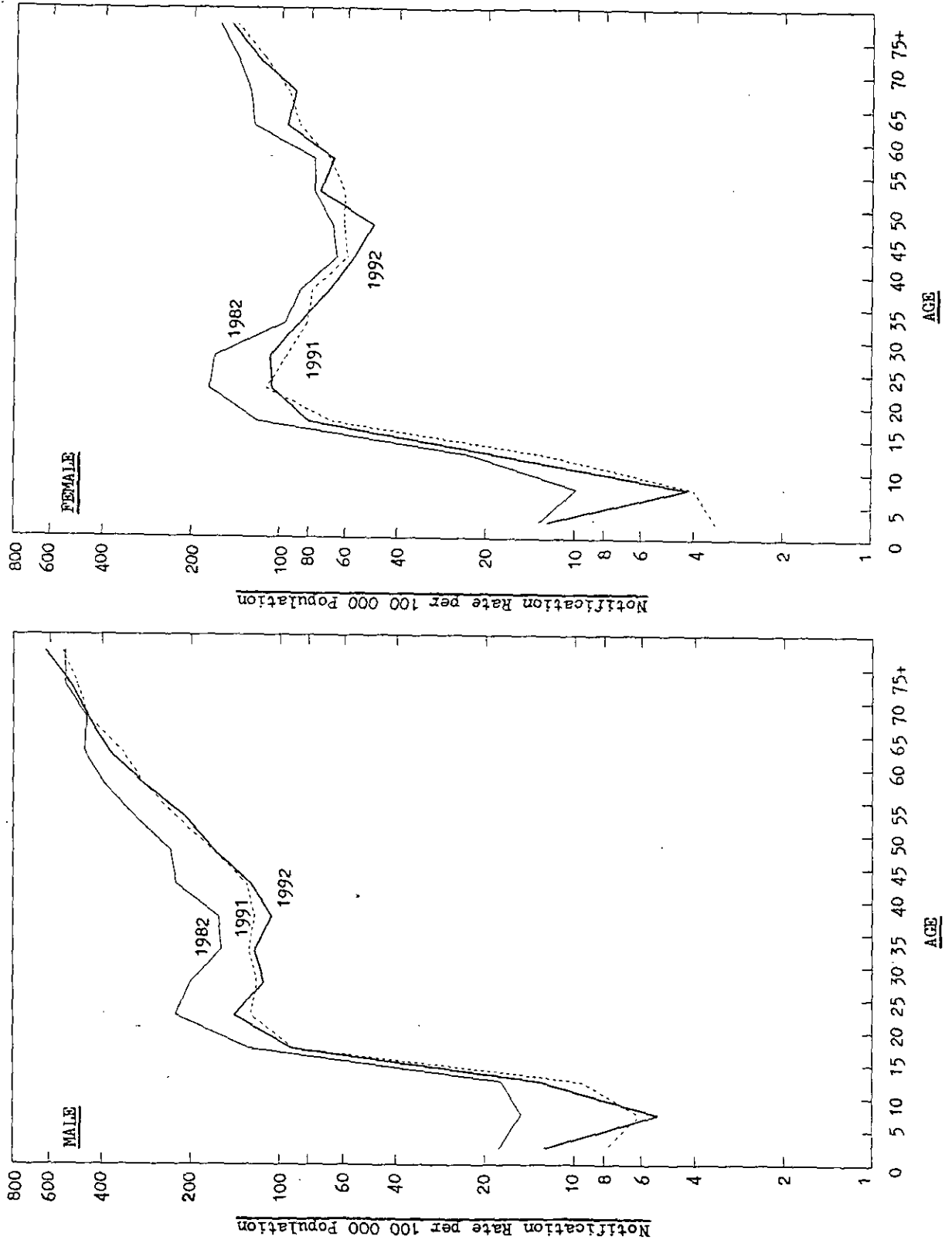
APPENDIX 10

Tuberculosis Notification Rates by Age & Sex (per 100,000 population) 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
0 - 4	17.9	13.2	15.6	7.9	3.4	5.7	12.6	12.4	12.5
5 - 9	15.1	9.9	12.6	6.1	4.0	5.1	5.3	4.2	4.8
10 - 14	17.6	22.6	20.0	9.5	12.3	10.8	13.1	18.1	15.5
15 - 19	128.0	119.3	123.8	89.8	66.6	78.7	91.0	79.9	85.7
20 - 24	225.5	174.9	201.2	125.4	111.0	118.2	142.8	106.2	124.4
25 - 29	200.4	166.9	184.6	119.5	94.9	107.1	113.7	107.8	110.7
30 - 34	158.2	96.2	129.8	127.3	81.4	104.7	121.7	86.3	104.1
35 - 39	161.6	86.0	128.3	121.9	78.3	100.8	106.8	68.5	88.1
40 - 44	225.0	65.0	154.9	129.7	59.7	96.9	125.3	56.7	92.9
45 - 49	234.3	67.0	158.3	167.9	61.4	120.2	166.6	48.1	113.0
50 - 54	309.3	77.2	200.6	223.3	61.1	150.1	207.7	73.7	147.7
55 - 59	393.8	77.1	240.3	289.2	68.7	186.3	288.2	66.6	185.6
60 - 64	460.7	124.7	292.8	342.4	87.2	218.7	379.6	95.9	243.8
65 - 69	453.0	128.3	282.7	445.2	94.8	265.3	446.1	89.8	264.5
70 - 74	531.6	141.4	305.7	486.0	114.2	285.3	509.8	120.6	300.6
75+	531.9	162.7	275.3	542.5	141.9	291.8	620.0	148.3	326.5
Total	187.4	95.0	143.0	147.9	68.7	109.2	151.6	71.6	112.4

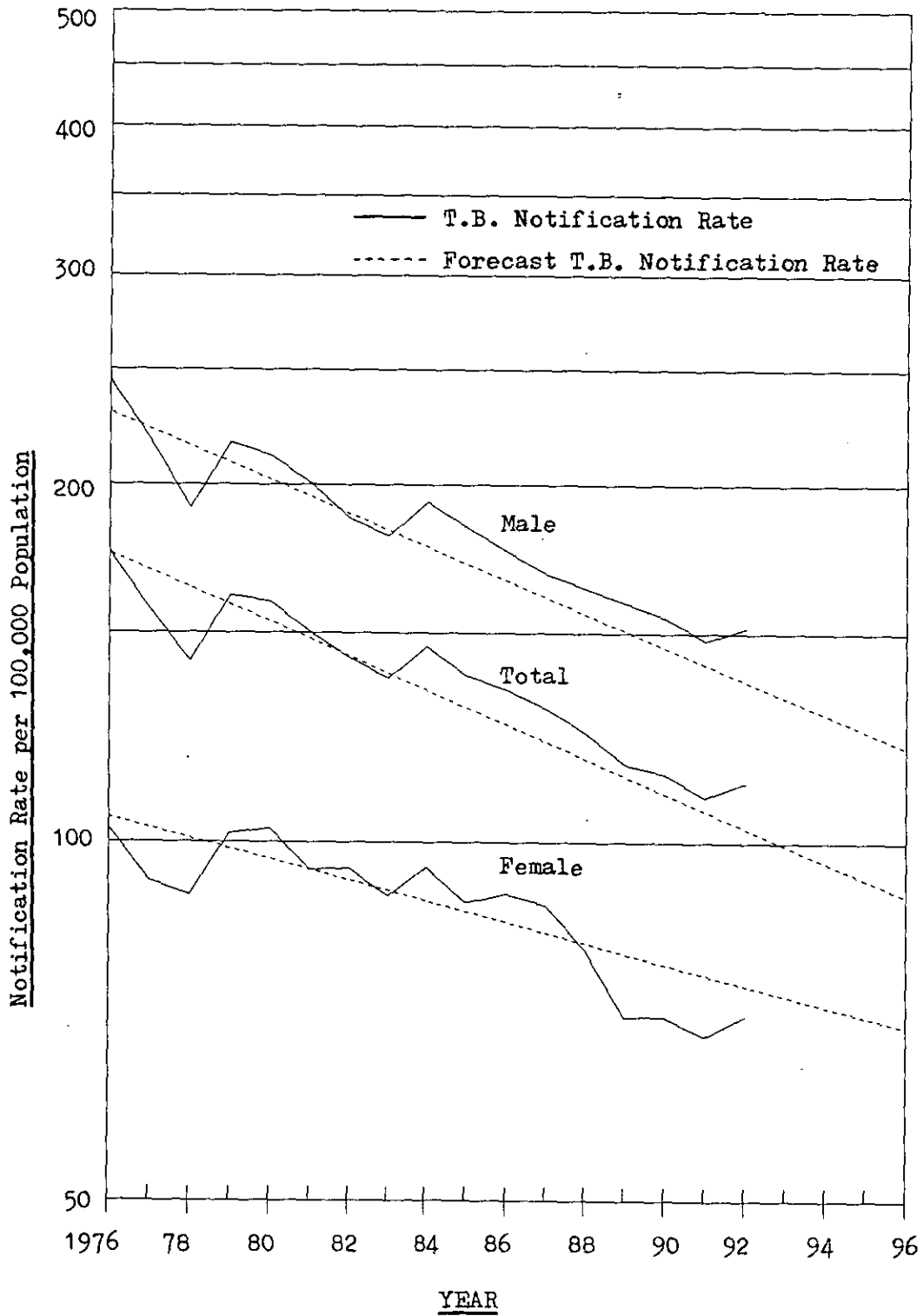
APPENDIX 11

T.B. Notification Rate by Age & Sex 1982, 1991 & 1992



APPENDIX 12

Forecast of T.B. Notification Rate



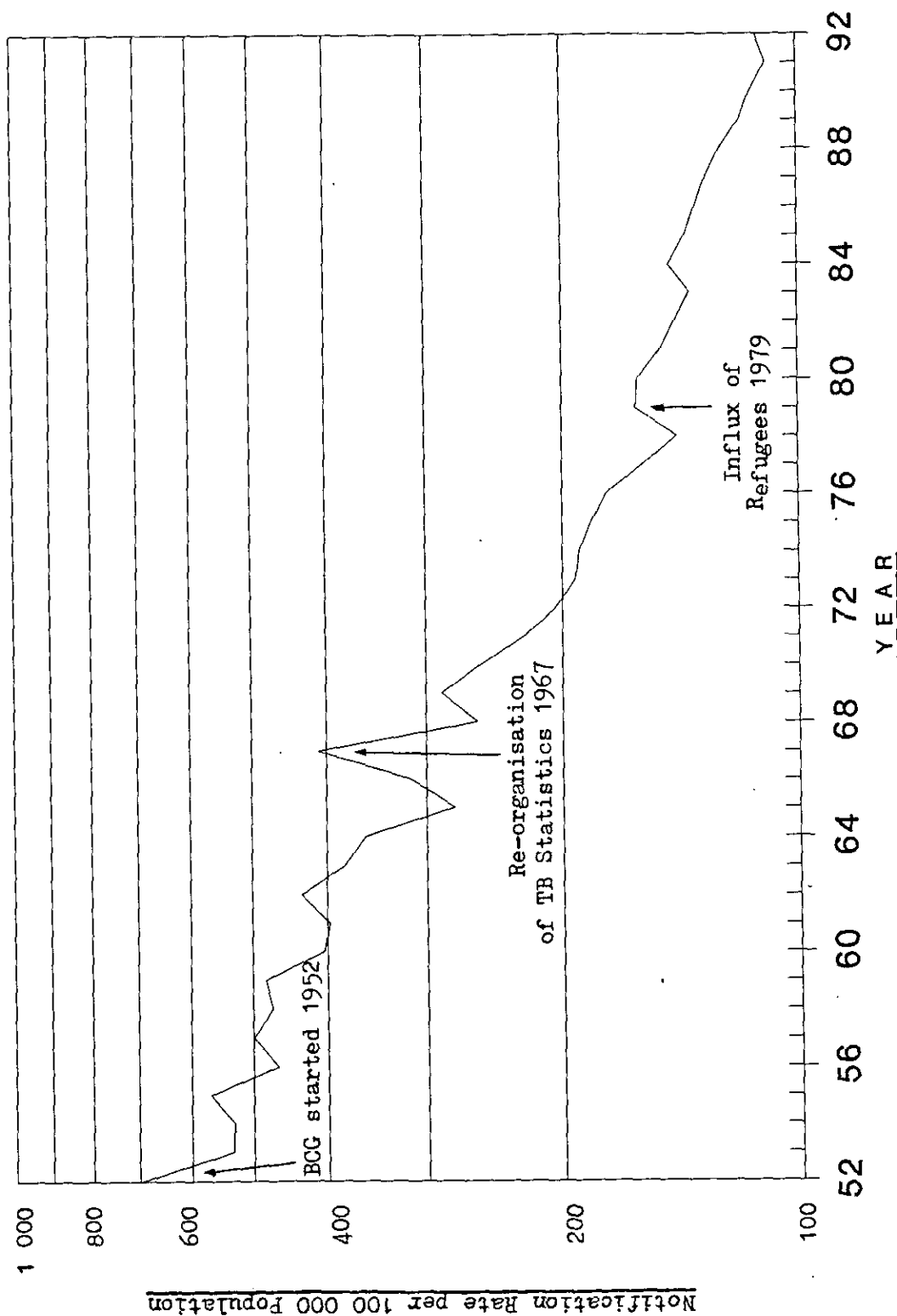
APPENDIX 13

Forecast of T.B. Notifications

Year	Notifications
1992	6,090
1993	5,890
1994	5,690
1995	5,490
1996	5,310

(based on annual reduction rate of 3.4%, amended for 1990 report)

APPENDIX 14
TB Notification Rate (All Forms) 1952-92



APPENDIX 15

Tuberculosis Deaths 1900 - 1992

Year	Total Deaths from Tuberculosis	TB Death Rate per 100,000 pop	Year	Total Deaths from Tuberculosis	TB Death Rate per 100,000 pop
1900	845	200	1947	1,861	106.3
1901	695	220	1948	1,961	108.9
1902	712	240	1949	2,611	140.6
1903	632	190	1950	3,263	145.9
1904	524	150	1951	4,190	207.9
1905	725	190	1952	3,573	168.1
1906	817	260	1953	2,939	131.1
1907	669	210	1954	2,876	121.6
1908	769	230	1955	2,810	112.8
1909	773	230	1956	2,629	100.6
1910	780	230	1957	2,675	97.8
1911	775	212	1958	2,302	80.7
1912	786	210	1959	2,178	73.4
1913	914	230	1960	2,085	67.8
1914	769	290	1961	1,907	60.2
1915	819	180	1962	1,881	56.9
1916	963	180	1963	1,762	51.5
1917	877	160	1964	1,441	41.1
1918	1,065	190	1965	1,278	35.5
1919		(war)	1966	1,515	41.7
1920	2,082	321.2	1967	1,493	40.1
1921	1,894	303.1	1968	1,483	39.0
1922	2,096	328.3	1969	1,470	38.0
1923	2,108	315.6	1970	1,436	36.3
1924	2,358	339.0	1971	1,250	30.9
1925	2,291	315.9	1972	1,312	31.8
1926	1,912	269.2	1973	1,154	27.2
1927	2,123	286.7	1974	974	22.2
1928	2,537	330.9	1975	646	14.5
1929	2,158	268.7	1976	568	12.6
1930	1,994	237.7	1977	532	11.6
1931	1,983	235.9	1978	420	9.0
1932	2,042	226.6	1979	523	10.6
1933	2,225	241.2	1980	551	10.9
1934	2,179	230.7	1981	489	9.4
1935	2,237	231.5	1982	454	8.6
1936	2,416	244.5	1983	446	8.3
1937	4,028	314.2	1984	420	7.8
1938	4,920	332.7	1985	409	7.5
1939	4,443	253.8	1986	407	7.4
1940		(war)	1987	405	7.3
1941		(war)	1988	388	6.9
1942		(war)	1989	403	7.1
1943		(war)	1990	382	6.7
1944		(war)	1991	409	7.1
1945		(war)	1992	410	7.1
1946	1,752	109.5			

APPENDIX 16

Notification/Death Ratio of Tuberculosis (All Forms)

1946 - 1992

Year	T.B. Notifications	T.B. Deaths	Ratio (Notifications/ Deaths)	Deaths ----- x 100% Notifications
1946	2,801	1,752	1.60	62.55
1947	4,855	1,861	2.61	38.33
1948	6,279	1,961	3.20	31.23
1949	7,510	2,611	2.88	34.77
1950	9,067	3,263	2.78	35.99
1951	13,886	4,190	3.31	30.17
1952	14,821	3,573	4.15	24.11
1953	11,900	2,939	4.05	24.70
1954	12,508	2,876	4.35	22.99
1955	14,148	2,810	5.03	19.86
1956	12,155	2,629	4.62	21.63
1957	13,665	2,675	5.11	19.58
1958	13,485	2,302	5.86	17.07
1959	14,302	2,178	6.57	15.23
1960	12,425	2,085	5.96	16.78
1961	12,584	1,907	6.60	15.15
1962	14,263	1,881	7.58	13.19
1963	13,031	1,762	7.40	13.52
1964	12,557	1,441	8.71	11.48
1965	9,927	1,278	7.77	12.87
1966	11,427	1,515	7.54	13.26
1967	15,253	1,493	10.22	9.79
1968	9,792	1,483	6.60	15.15
1969	11,072	1,470	7.53	13.28
1970	10,077	1,436	7.02	14.25
1971	9,028	1,250	7.22	13.85
1972	8,420	1,312	6.42	15.58
1973	8,152	1,154	7.06	14.16
1974	8,320	974	8.54	11.71
1975	8,192	646	12.68	7.89
1976	7,928	568	13.96	7.16
1977	7,191	532	13.52	7.40
1978	6,623	420	15.77	6.34
1979	7,907	523	15.12	6.61
1980	8,065	551	14.64	6.83
1981	7,729	489	15.81	6.33
1982	7,527	454	16.58	6.03
1983	7,301	446	16.37	6.11
1984	7,843	420	18.67	5.36
1985	7,545	409	18.45	5.42
1986	7,432	407	18.26	5.48
1987	7,269	405	17.95	5.57
1988	7,021	388	18.10	5.53
1989	6,704	403	16.64	6.01
1990	6,510	382	17.04	5.87
1991	6,283	409	15.36	6.51
1992	6,534	410	15.94	6.27

APPENDIX 17

Tuberculosis Mortality

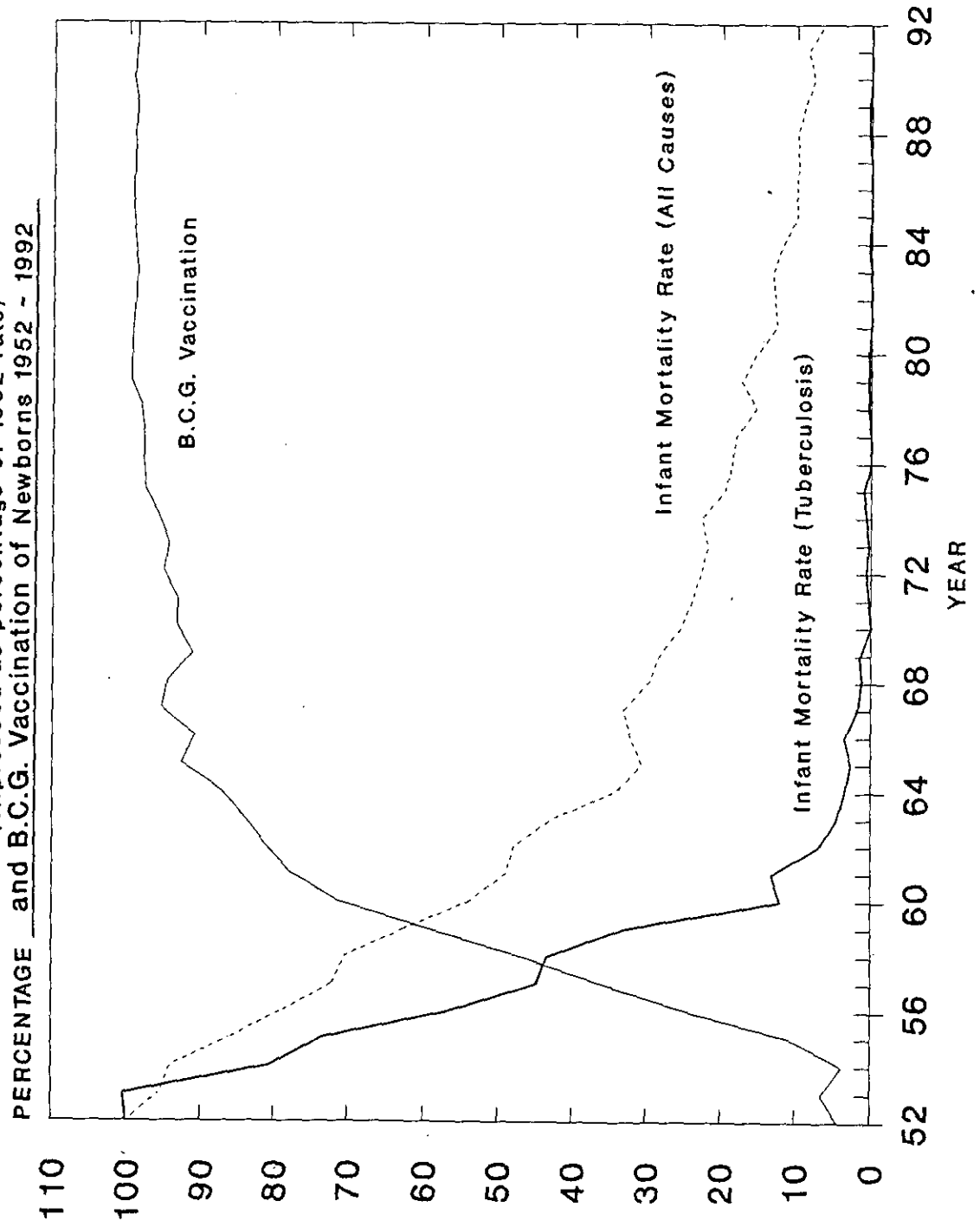
1949 - 1992

Year	% of T.B. Deaths below 5 years	% of T.B. Deaths below 1 year	Infant Mort. Rate from T.B. per 1,000 Registered Live Births	% of T.B. Deaths among Total Registered Deaths	Average Age of T.B. Deaths
1949	34.05	8.31	3.96	16.0	25.5
1950	38.34	9.81	5.28	17.7	24.0
1951	34.22	7.73	4.73	20.0	25.0
1952	34.28	7.05	3.50	18.4	25.0
1953	36.27	9.02	3.51	16.1	26.0
1954	31.26	8.17	2.82	14.9	29.0
1955	28.51	8.61	2.67	14.7	31.0
1956	25.22	7.34	1.99	13.6	32.0
1957	21.20	5.76	1.57	13.8	36.0
1958	19.64	7.04	1.52	11.2	36.5
1959	18.92	5.56	1.16	10.8	37.0
1960	10.55	2.21	0.42	10.9	43.0
1961	11.48	2.62	0.46	10.2	43.0
1962	5.74	1.44	0.24	9.3	46.0
1963	5.51	1.08	0.16	8.9	47.0
1964	4.09	0.90	0.12	8.0	48.0
1965	3.36	0.70	0.09	7.3	49.0
1966	2.71	0.73	0.12	8.1	53.0
1967	2.01	0.33	0.06	7.6	54.5
1968	1.15	0.20	0.04	7.7	56.5
1969	0.95	0.27	0.05	7.8	56.0
1970	0.63	0.00	0.00	6.9	57.5
1971	0.64	0.08	0.01	6.2	57.5
1972	0.30	0.15	0.02	6.2	59.0
1973	0.35	0.09	0.01	5.4	58.0
1974	0.82	0.21	0.02	4.4	58.5
1975	1.39	0.31	0.03	3.0	58.5
1976	0.70	0.00	0.00	2.4	59.5
1977	0.38	0.00	0.00	2.3	61.0
1978	0.48	0.24	0.01	1.8	61.0
1979	0.96	0.19	0.01	2.0	61.0
1980	0.73	0.18	0.01	2.1	62.0
1981	0.41	0.00	0.00	2.0	63.0
1982	0.22	0.00	0.00	1.8	63.0
1983	0.45	0.00	0.00	1.7	63.0
1984	0.24	0.24	0.01	1.6	64.5
1985	0.00	0.00	0.00	1.6	65.5
1986	0.00	0.00	0.00	1.6	68.0
1987	0.00	0.00	0.00	1.5	68.5
1988	0.52	0.26	0.01	1.4	69.0
1989	0.25	0.25	0.01	1.4	69.0
1990	0.52	0.00	0.00	1.3	69.0
1991	0.00	0.00	0.00	1.4	69.0
1992	0.00	0.00	0.00	1.3	68.0

NOTE : There were no infant death from TB in 1970, 1976, 1977, 1981, 1982, 1983, 1985, 1986, 1987, 1990, 1991 & 1992.

APPENDIX 18

Infant Mortality Rate - All causes and Tuberculosis
(expressed as percentage of 1952 rate)
and B.C.G. Vaccination of Newborns 1952 - 1992



APPENDIX 19

Sex Ratio of Deaths Due to Tuberculosis (All Forms) 1952 - 1992

Year	No. of TB Deaths			Sex Ratio (Male/ Female)	TB Deaths Rate per 100,000 population		
	Male	Female	Total		Male	Female	Total
1952	2196	1377	3573	1.59	186.4	101.5	168.1
1953	1745	1194	2939	1.46	154.2	95.2	131.1
1954	1762	1114	2876	1.58	143.1	92.5	121.6
1955	1768	1042	2810	1.70	132.0	85.1	112.9
1956	1652	977	2629	1.69	122.3	77.3	100.6
1957	1714	961	2675	1.78	121.3	72.6	97.8
1958	1528	774	2302	1.97	103.9	55.9	80.7
1959	1506	672	2178	2.24	98.1	46.9	73.4
1960	1371	714	2085	1.92	86.8	47.7	67.8
1961	1252	655	1907	1.91	78.9	41.4	60.2
1962	1279	602	1881	2.12	76.7	36.7	56.9
1963	1226	536	1762	2.29	70.9	31.7	51.5
1964	1060	381	1441	2.78	59.9	22.0	41.1
1965	885	393	1278	2.25	48.7	22.1	35.5
1966	1091	424	1515	2.57	60.0	23.4	41.7
1967	1080	413	1493	2.62	57.6	22.3	40.1
1968	1110	373	1483	2.98	57.9	19.8	39.0
1969	1100	370	1470	2.97	56.5	19.3	38.0
1970	1102	334	1436	3.30	54.9	17.1	36.3
1971	949	301	1250	3.15	46.1	15.1	30.9
1972	1032	280	1312	3.69	49.1	13.8	31.8
1973	922	232	1154	3.97	42.6	11.2	27.2
1974	769	205	974	3.75	34.5	9.5	22.2
1975	498	148	646	3.36	21.8	6.8	14.5
1976	444	124	568	3.58	19.2	5.6	12.6
1977	399	133	532	3.00	17.0	6.0	11.6
1978	323	97	420	3.33	13.5	4.3	9.0
1979	407	116	523	3.51	16.0	4.9	10.6
1980	438	113	551	3.88	16.7	4.6	10.9
1981	370	119	489	3.11	13.7	4.8	9.4
1982	348	106	454	3.28	12.7	4.2	8.6
1983	350	96	446	3.65	12.6	3.7	8.3
1984	325	95	420	3.42	11.7	3.7	7.8
1985	321	88	409	3.65	11.4	3.3	7.5
1986	314	93	407	3.38	11.0	3.5	7.4
1987	319	86	405	3.71	11.1	3.2	7.3
1988	290	98	388	2.96	10.0	3.6	6.9
1989	301	102	403	2.95	10.3	3.7	7.1
1990	295	87	382	3.39	10.1	3.1	6.7
1991	322	87	409	3.70	10.9	3.1	7.1
1992	314	96	410	3.27	10.6	3.4	7.1

APPENDIX 20

TB Deaths (All Forms) by Age and Sex 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	1	1	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5 - 9	-	1	1	2	-	2	-	-	-
10 - 14	-	-	-	-	-	-	1	-	1
15 - 19	-	-	-	-	-	-	-	-	-
20 - 24	2	1	3	1	1	2	2	-	2
25 - 29	2	1	3	2	1	3	2	2	4
30 - 34	4	4	8	4	5	9	4	1	5
35 - 39	4	2	6	6	1	7	7	3	10
40 - 44	13	5	18	5	4	9	11	1	12
45 - 49	18	6	24	8	-	8	15	1	16
50 - 54	36	2	38	24	1	25	15	2	17
55 - 59	43	8	51	27	2	29	28	6	34
60 - 64	62	12	74	40	4	44	46	4	50
65 - 69	63	16	79	47	7	54	37	6	43
70 - 74	51	20	71	51	17	68	53	14	67
75 - 79	28	15	43	62	16	78	37	15	52
80 - 84	19	8	27	25	9	34	38	18	56
85 & over	3	4	7	17	19	36	18	23	41
Unknown	-	-	-	1	-	1	-	-	-
Total	348	106	454	322	87	409	314	96	410

APPENDIX 21

TB Deaths of Respiratory System (010 – 012) by Age and Sex 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	—	—	—	—	—	—	—	—	—
1	—	—	—	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—
5 – 9	—	—	—	—	—	—	—	—	—
10 – 14	—	—	—	—	—	—	—	—	—
15 – 19	—	—	—	—	—	—	—	—	—
20 – 24	1	1	2	—	—	—	1	—	1
25 – 29	2	—	2	1	—	1	2	1	3
30 – 34	4	2	6	3	2	5	3	—	3
35 – 39	2	—	2	5	—	5	5	2	7
40 – 44	11	3	14	4	2	6	8	1	9
45 – 49	13	4	17	6	—	6	12	1	13
50 – 54	28	2	30	21	1	22	11	1	12
55 – 59	35	7	42	20	2	22	19	3	22
60 – 64	47	8	55	33	4	37	40	3	43
65 – 69	47	11	58	43	7	50	30	4	34
70 – 74	42	18	60	41	14	55	50	10	60
75 – 79	20	11	31	49	14	63	32	10	42
80 – 84	19	6	25	22	7	29	29	14	43
85 & over	2	3	5	16	11	27	17	20	37
Unknown	—	—	—	1	—	1	—	—	—
Total	273	76	349	265	64	329	259	70	329

APPENDIX 22

TB Deaths of Meninges (013)
by Age and Sex
1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5 - 9	-	1	1	2	-	2	-	-	-
10 - 14	-	-	-	-	-	-	-	-	-
15 - 19	-	-	-	-	-	-	-	-	-
20 - 24	-	-	-	-	-	-	-	-	-
25 - 29	-	-	-	-	1	1	-	-	-
30 - 34	-	-	-	-	1	1	-	-	-
35 - 39	-	-	-	-	-	-	-	-	-
40 - 44	1	-	1	-	-	-	-	-	-
45 - 49	-	-	-	-	-	-	-	-	-
50 - 54	1	-	1	-	-	-	1	-	1
55 - 59	-	-	-	1	-	1	-	1	1
60 - 64	-	1	1	1	-	1	-	-	-
65 - 69	-	-	-	-	-	-	-	-	-
70 - 74	1	-	1	1	1	2	-	1	1
75 - 79	-	-	-	1	1	2	-	1	1
80 - 84	-	-	-	-	-	-	-	-	-
85 & over	-	-	-	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	-	-	-
Total	3	2	5	6	4	10	1	3	4

APPENDIX 23

TB Deaths of Bones & Joints (015) by Age and Sex 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5 - 9	-	-	-	-	-	-	-	-	-
10 - 14	-	-	-	-	-	-	-	-	-
15 - 19	-	-	-	-	-	-	-	-	-
20 - 24	-	-	-	-	-	-	-	-	-
25 - 29	-	-	-	-	-	-	-	-	-
30 - 34	-	1	1	-	-	-	-	1	1
35 - 39	-	-	-	-	-	-	-	-	-
40 - 44	-	1	1	-	1	1	-	-	-
45 - 49	-	-	-	1	-	1	-	-	-
50 - 54	-	-	-	2	-	2	-	-	-
55 - 59	1	-	1	-	-	-	2	-	2
60 - 64	1	-	1	-	-	-	-	-	-
65 - 69	-	1	1	-	-	-	-	-	-
70 - 74	1	-	1	1	-	1	-	-	-
75 - 79	1	-	1	-	-	-	-	-	-
80 - 84	-	-	-	-	-	-	1	-	1
85 & over	-	-	-	-	1	1	-	-	-
Unknown	-	-	-	-	-	-	-	-	-
Total	4	3	7	4	2	6	3	1	4

APPENDIX 24

TB Deaths All Forms other than
Respiratory System, Meninges,
Bones and Joints (014, 016 – 018 & 137)
by Age and Sex
1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
Under 1	—	—	—	—	—	—	—	—	—
1	—	1	1	—	—	—	—	—	—
2	—	—	—	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—
5 – 9	—	—	—	—	—	—	—	—	—
10 – 14	—	—	—	—	—	—	1	—	1
15 – 19	—	—	—	—	—	—	—	—	—
20 – 24	1	—	1	1	1	2	1	—	1
25 – 29	—	1	1	1	—	1	—	1	1
30 – 34	—	1	1	1	2	3	1	—	1
35 – 39	2	2	4	1	1	2	2	1	3
40 – 44	1	1	2	1	1	2	3	—	3
45 – 49	5	2	7	1	—	1	3	—	3
50 – 54	7	—	7	1	—	1	3	1	4
55 – 59	7	1	8	6	—	6	7	2	9
60 – 64	14	3	17	6	—	6	6	1	7
65 – 69	16	4	20	4	—	4	7	2	9
70 – 74	7	2	9	8	2	10	3	3	6
75 – 79	7	4	11	12	1	13	5	4	9
80 – 84	—	2	2	3	2	5	8	4	12
85 & over	1	1	2	1	7	8	1	3	4
Unknown	—	—	—	—	—	—	—	—	—
Total	68	25	93	47	17	64	51	22	73

* Breakdown of Deaths : —

	Deaths
Intestines, peritoneum & mesenteric glands (014)	4
Genito-urinary system (016)	—
TB Liver (017)	2
Miliary TB (018)	22
Late effects of TB (137)	45

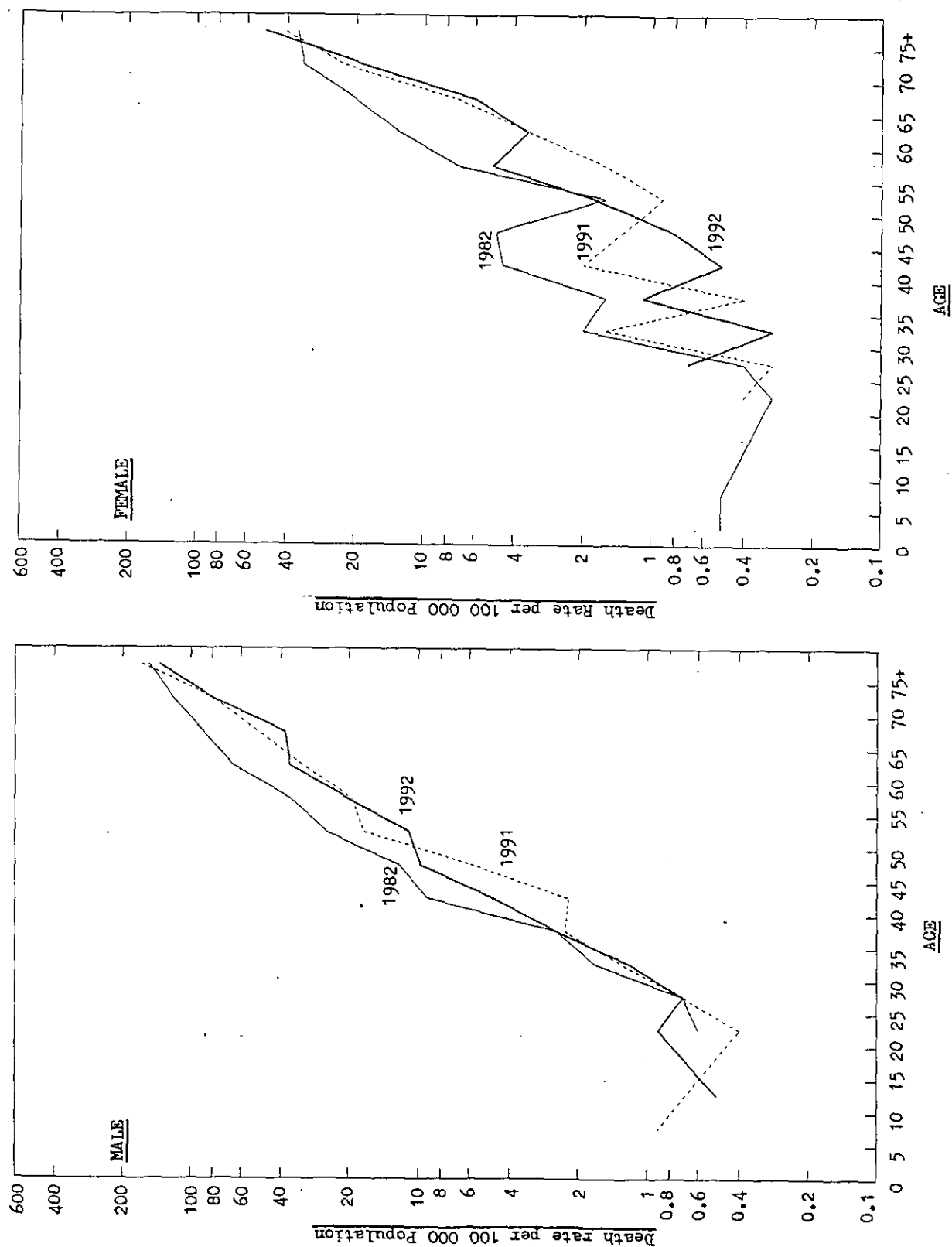
APPENDIX 25

TB Death Rate by Age & Sex (per 100,000 population) 1982, 1991 & 1992

Age Group	1982			1991			1992		
	M	F	T	M	F	T	M	F	T
0 - 4	-	0.5	0.2	-	-	-	-	-	-
5 - 9	-	0.5	0.2	0.9	-	0.5	-	-	-
10 - 14	-	-	-	-	-	-	0.5	-	0.2
15 - 19	-	-	-	-	-	-	-	-	-
20 - 24	0.6	0.3	0.5	0.4	0.4	0.4	0.9	-	0.4
25 - 29	0.7	0.4	0.6	0.7	0.3	0.5	0.7	0.7	0.7
30 - 34	1.7	2.0	1.8	1.3	1.6	1.4	1.2	0.3	0.8
35 - 39	2.5	1.6	2.1	2.3	0.4	1.4	2.5	1.1	1.8
40 - 44	9.2	4.5	7.1	2.2	2.0	2.1	4.7	0.5	2.7
45 - 49	12.1	4.8	8.8	5.7	-	3.1	9.8	0.8	5.7
50 - 54	25.2	1.6	14.2	17.2	0.9	9.9	11.0	1.8	6.9
55 - 59	36.3	7.2	22.2	19.3	1.6	11.1	20.1	5.0	13.1
60 - 64	64.9	12.6	38.8	32.2	3.4	18.2	36.5	3.5	20.7
65 - 69	88.4	20.3	52.7	50.5	7.2	28.3	38.4	6.0	21.9
70 - 74	119.4	34.1	70.0	79.4	22.6	48.7	79.9	18.2	46.7
75+	152.0	36.0	71.4	163.5	41.4	87.1	137.0	50.0	82.9
Total	12.7	4.2	8.6	10.9	3.1	7.1	10.6	3.4	7.1

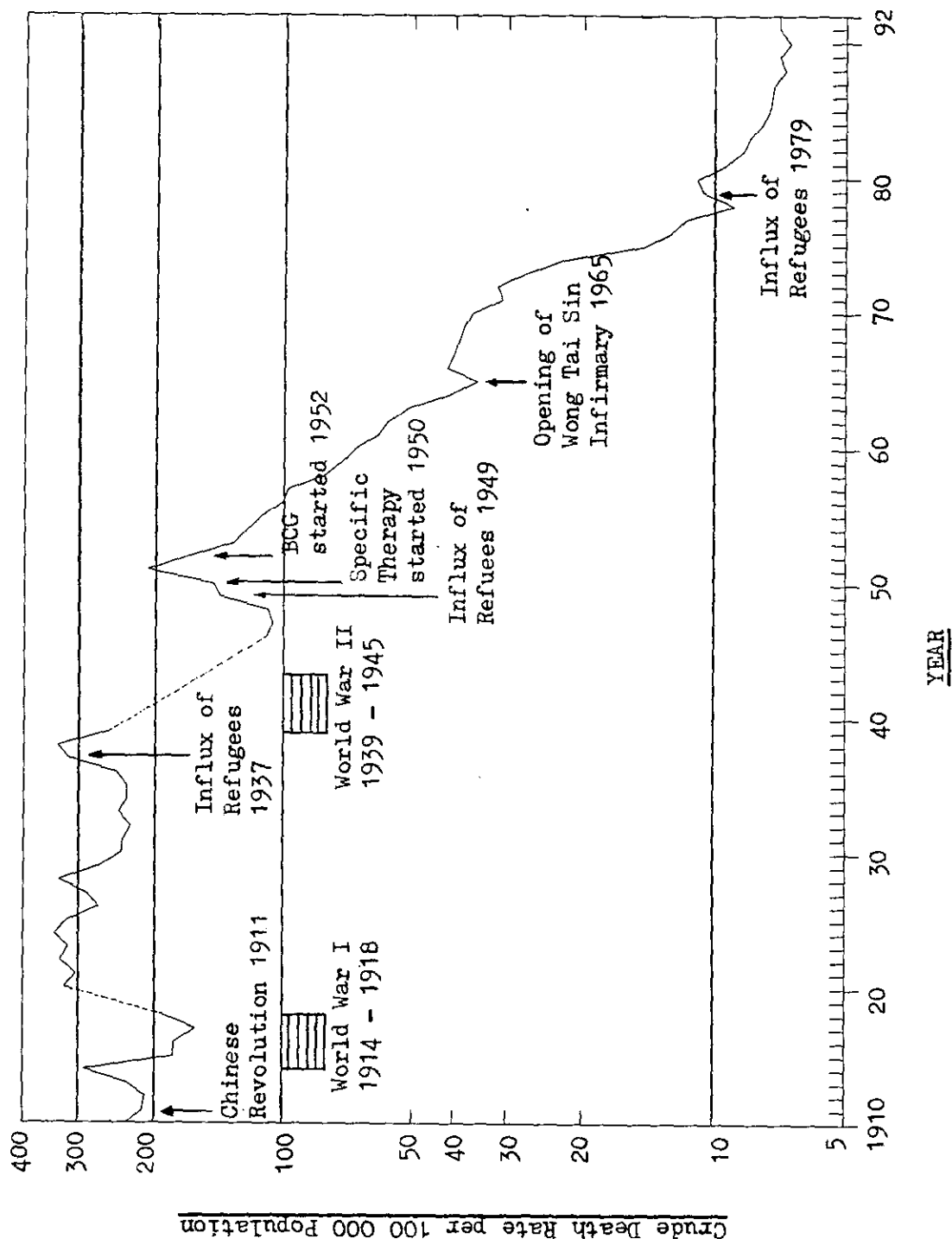
APPENDIX 26

T.B. Mortality Rate by Age and Sex 1982, 1991 & 1992



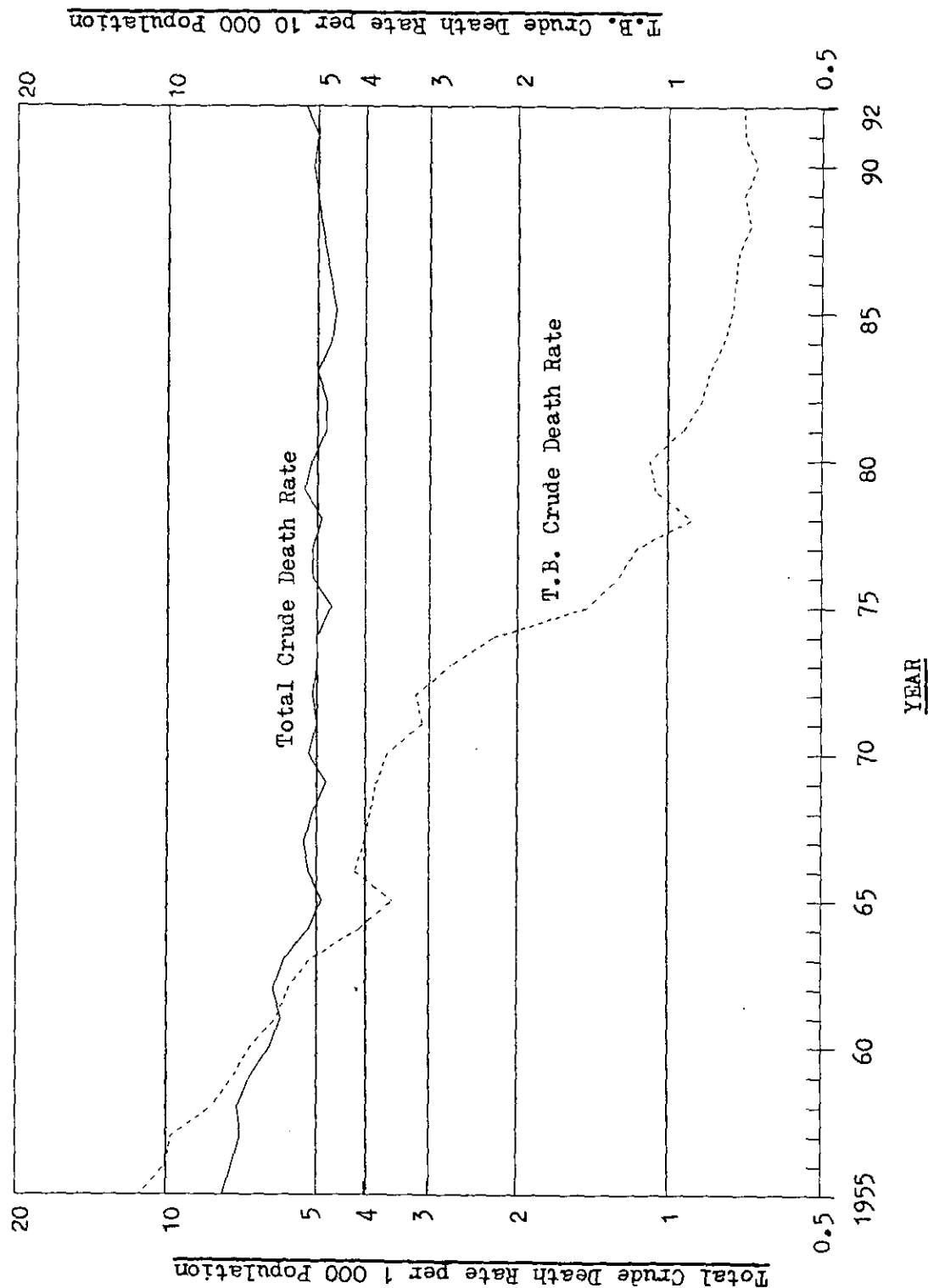
APPENDIX 27

Crude Death Rate due to Tuberculosis (All Forms) 1910-1992



APPENDIX 28

Crude Annual Death Rates for Hong Kong 1955-1992 According to Causes of Death

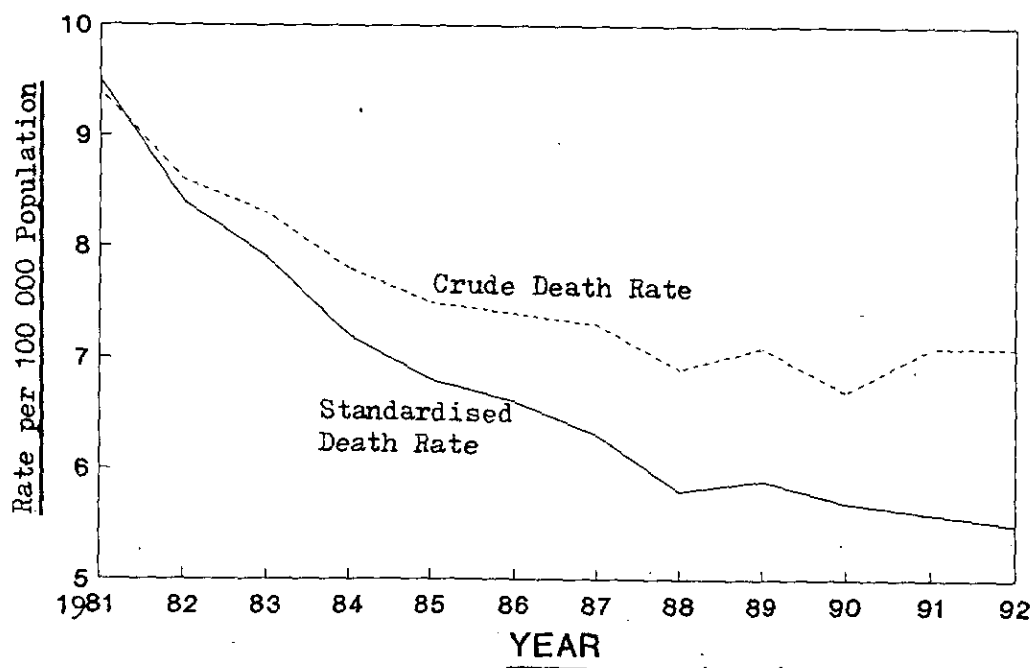


APPENDIX 29

Crude Death Rate and Standardised Death Rate 1982 – 1992

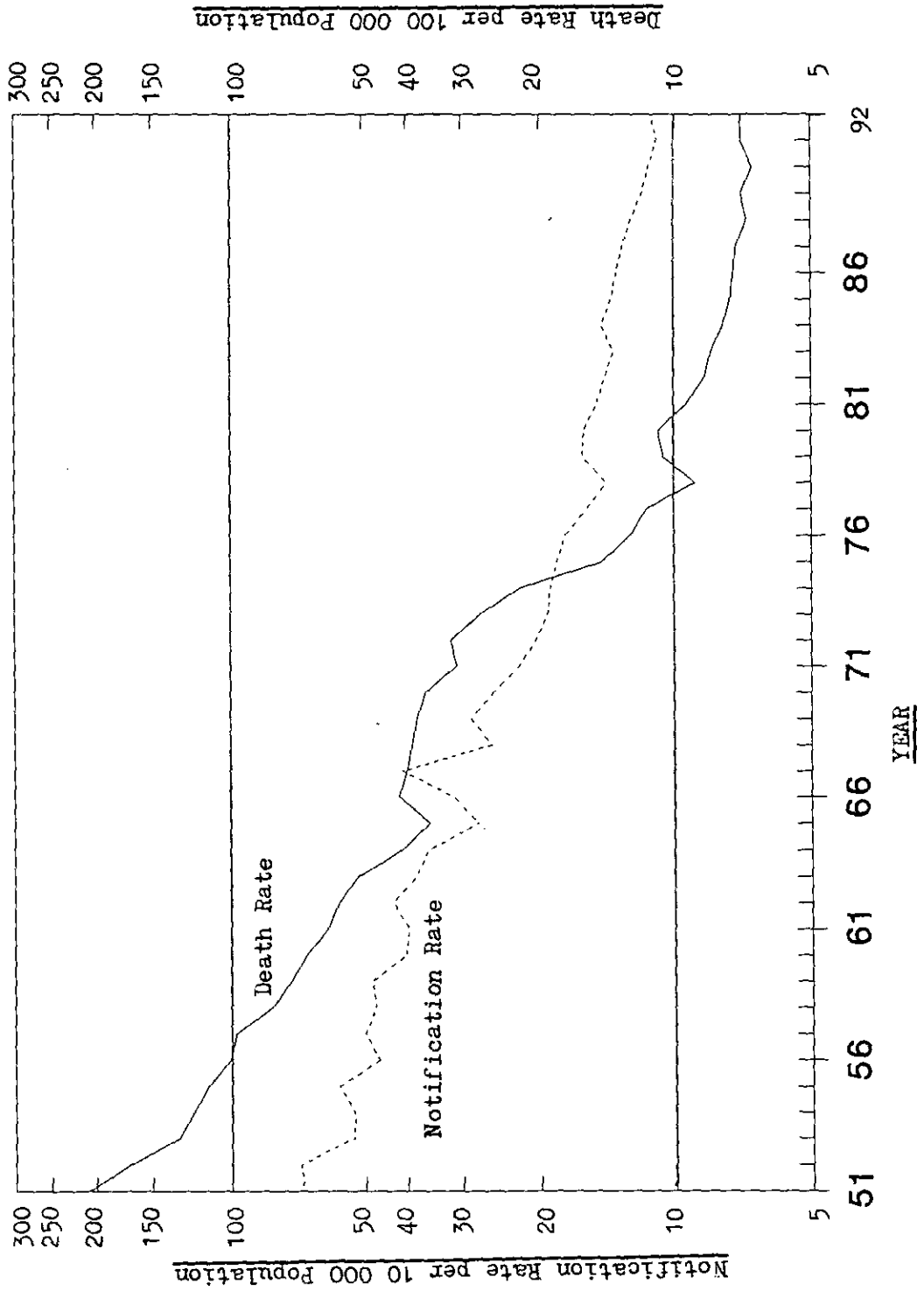
<u>Year</u>	<u>Crude Death Rate</u>	<u>Standardised Death Rate *</u>
1982	8.6	8.4
1983	8.3	7.9
1984	7.8	7.2
1985	7.5	6.8
1986	7.4	6.6
1987	7.3	6.3
1988	6.9	5.8
1989	7.1	5.9
1990	6.7	5.7
1991	7.1	5.6
1992	7.1	5.5

* Standardisation based on 1981 Mid-year Population Estimates

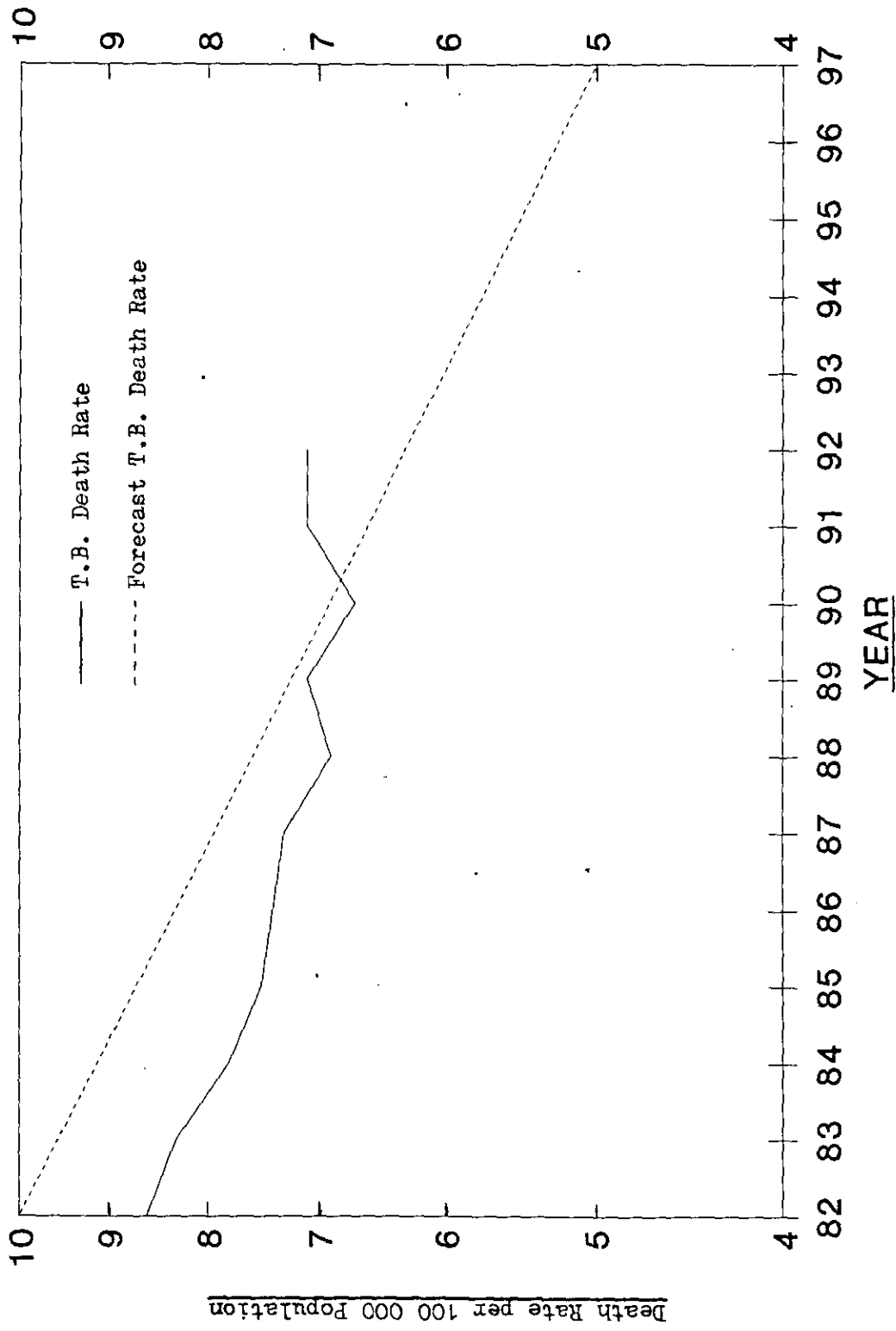


APPENDIX 30

T.B. Notification Rate and Death Rate 1951-1992



APPENDIX 31
Forecast of T.B. Mortality Rate



APPENDIX 32

Forecast of T.B. Deaths

Year	Projection
1992	360
1993	350
1994	340
1995	335
1996	330

(Projection based on trend between 1980 and 1990)

APPENDIX 33

Top Ten Causes of Death 1992

Rank	Causes of Death	Detailed List No. 9th Revision	1992		
			Male	Female	Total
	All Causes	001 - 999	17,148	13,377	30,526 (1)
1	Malignant Neoplasms	140 - 208	5,569	3,452	9,021
2	Heart diseases, including hypertensive heart diseases	390 - 429	2,791	2,568	5,359
3	Cerebrovascular disease	430 - 438	1,464	1,603	3,067
4	Pneumonia, all forms	480 - 486	1,047	955	2,002
5	Injury and poisoning	800 - 999	1,120	573	1,693
6	Nephritis, Nephrotic syndrome and Nephrosis	580 - 589	439	459	898
7	Bronchitis, chronic and unspecified, Emphysema and Asthma	490 - 493	329	161	490
8	Septicaemia	038	177	270	447
9	Chronic liver disease and cirrhosis	571	320	124	444
10	Diabetes mellitus	250	172	241	413
	Tuberculosis (including late effects of tuberculosis)	010 - 018 137	314	96	410
	Certain conditions originating in the perinatal period	760 - 779	85	93	178
	All other causes	Residue of 001 - 999	3,321	2,782	6,104 (1)

Note : Figures in brackets denote number of deaths of unknown sex included.

APPENDIX 34

New Attendances at Medical Examination Board 1991 - 1992

Age Group	1992										1991				
	Total Examined			No. with active TB			Prevalence % of TB			Prevalence % of TB					
	Male		Total	Male		Female	Total	Male		Female	Total	Male		Female	Total
14 & under	696	177	873	-	-	-	-	-	-	-	-	-	-	-	-
15 - 19	1,547	1,080	2,627	1	1	2		0.06	0.09	0.08		0.20	0.15	0.17	
20 - 24	2,397	1,831	4,228	6	6	12		0.25	0.33	0.28		0.15	0.24	0.20	
25 - 29	1,465	873	2,338	5	3	8		0.34	0.34	0.34		0.07	0.10	0.08	
30 - 34	850	636	1,486	7	4	11		0.82	0.63	0.74		0.11	-	0.08	
35 - 39	593	417	1,010	3	1	4		0.51	0.24	0.40		0.20	-	0.09	
40 - 44	424	258	682	2	1	3		0.47	0.39	0.44		0.28	0.33	0.30	
45 - 49	218	72	290	2	-	2		0.92	-	0.69		0.75	2.50	1.64	
50 - 54	78	19	97	2	-	2		2.56	-	2.06		3.33	-	2.56	
55 & over	265	67	332	8	-	8		3.02	-	2.41		0.94	-	0.72	
Total	8,533	5,430	13,963	36	16	52		0.42	0.29	0.37		0.16	0.17	0.17	

APPENDIX 35

Scheme for Tuberculin Testing and BCG Administration in Hong Kong, 1992

Population Group		Procedure
New borns and within 6 weeks after birth		Direct BCG – Government inoculators with intradermal method Other inoculators with percutaneous method
Infants (excluding contacts)	negative BCG history and/or negative BCG scar	over 6 weeks TT with 1 TU RT 23, negative – BCG positive – observe or no action
	BCG history and BCG scar	no action
Primary School Children (aged 6 – 10)		TT with 1 TU RT 23, negative – BCG positive – no action or chest x-ray
Contact	under 5 (Source DS +ve) *	X-ray, if normal, in 3 months repeat x-ray and do TT, negative – BCG
	under 5 (Source DS –ve)	TT with 1 TU RT 23, negative – BCG positive – x-ray chest
	5 years and over	x-ray chest
Vietnamese Refugees	over 14 years	x-ray chest
	14 years and under	Direct BCG

Notes : (1) Tuberculin Test by intradermal method

- (2) Reaction to tuberculin
 Criterion for + tuberculin reaction : diameter of induration = 10 mm and above
 Criterion for – tuberculin reaction : diameter of induration = 9 mm and below
- (3) Glaxo freeze dried BCG used
 Intradermal strength – viability count of $4 - 13 \times 10^6$ /ml
 Percutaneous strength – viability count of $150 - 750 \times 10^6$ /ml
- (4) Any child with symptoms and BCG complication should be seen by a doctor

* 1 year and under, chest x-ray not necessary except children who are ill or having some clinical abnormality.
 Do TT, if positive, give Chemoprophylaxis. If TT negative give chemoprophylaxis, repeat TT in 3 months.
 If negative, give BCG, stop chemoprophylaxis; if positive, continue chemoprophylaxis.

APPENDIX 36

BCG Vaccination of Newborns 1951 - 1992

Year	No. of Local Live Births #	Newborns Vaccinated	Percentage of New Borns Vaccinated
1951	68,500	—	—
1952	71,976	3,120	4.3
1953	75,544	4,883	6.5
1954	83,317	3,050	3.7
1955	90,511	9,587	10.6
1956	96,746	23,418	24.2
1957	97,834	35,149	35.9
1958	106,624	49,865	46.8
1959	104,579	62,261	59.5
1960	110,667	79,169	71.5
1961	110,884	86,234	77.8
1962	112,503	91,304	81.2
1963	114,550	96,177	84.0
1964	107,625	93,806	87.2
1965	101,110	93,666	92.6
1966	91,832	83,430	90.9
1967	88,215	84,136	95.4
1968	82,685	78,204	94.6
1969	82,482	75,187	91.2
1970	79,132	73,844	93.3
1971	79,789	74,343	93.2
1972	80,344	76,391	95.1
1973	82,252	77,635	94.4
1974	83,581	80,099	95.8
1975	79,790	77,894	97.6
1976	78,511	76,811	97.8
1977	80,022	78,295	97.8
1978	80,957	79,448	98.1
1979	81,975	81,628	99.6
1980	85,290	84,894	99.5
1981	86,751	86,226	99.4
1982	86,120	85,249	99.0
1983	83,900	82,864	98.8
1984	77,787	77,049	99.1
1985	76,493	75,935	99.3
1986	71,960	71,511	99.4
1987	70,257	69,681	99.2
1988	75,987	75,392	99.2
1989	71,432	70,654	98.9
1990	70,630	69,946	99.0
1991	70,201	69,349	98.8
1992	72,767	72,056	99.0

Local live births : known births + births of Vietnamese refugees. (Source : Demographic Statistics Section of Census & Statistics Department & Statistical Unit of Department of Health)

Note : Starting from 1990, percent immunized refers to the percentage of local live births in the corresponding year which are known to the Hong Kong Government to have received the BCG immunization as at end 1992.

APPENDIX 37

BCG Vaccinations at Birth, 1992

Institution		No. of Live--births	BCG Vaccination	% Vaccinated
Hospital under HA management	Nethersole	3,668	3,464	94.4
	Queen Mary	1,013	1,053	103.9 *
	Tsan Yuk	2,865	2,845	99.3
	Tung Wah Eastern	707	694	98.2
Private Hosp.	Canossa	1,132	1,114	98.4
	H.K. Adventist	509	476	93.5
	HK Sanatorium	1,481	1,578	106.5 *
	Matilda	677	638	94.2
	St. Paul's	3,305	3,246	98.2
Total (HK Island)		15,357	15,108	98.4
Hospital under HA management	Caritas	2,407	2,302	95.6
	Kwong Wah	5,163	5,155	99.8
	Maryknoll	2,064	2,043	99.0
	Queen Elizabeth	6,904	6,953	100.7 *
	United Christian	3,467	3,400	98.1
Private Hosp.	Baptist	8,779	8,687	99.0
	Evangel	1,678	1,677	99.9
	Precious Blood	670	658	98.2
	St. Teresa's	3,833	3,768	98.3
British Military Hospital		563	550	97.7
Total (Kowloon)		35,528	35,193	99.1
Hospital under HA management	Pok Oi	519	511	98.5
	Prince of Wales	7,929	7,946	100.2 *
	Princess Margaret	4,391	4,410	100.4 *
	St. John	19	12	63.2
	Tuen Mun	5,464	5,429	99.4
	Yan Chai	310	300	96.8
Private Hosp.	Advenist	1,580	1,557	98.5
Government Maternity Home		1,286	1,217	94.6
Total (NT Areas)		21,498	21,382	99.5
GRAND TOTAL		72,383	71,683	99.0

Note : * Including vaccinations of live births transferred from other maternity institutions and vaccinations of live births at end of 1991.

APPENDIX 38

Apparent reasons for newborns not being vaccinated with BCG in hospitals 1992

Institution	No. of Live--births	Transferred	Jaundice	Under Weight	Skin Rash	Medical or Physiological problem	Neo--natal Death	Discharge	Total
Tsan Yuk	2,865	-	-	-	-	58	6	3	67
Queen Mary	1,013	-	-	-	-	93	11	-	104
Tung Wah Eastern	707	9	-	-	-	2	1	3	15
Queen Elizabeth	6,904	-	-	-	-	337	7	-	344
Kwong Wah	5,163	3	-	-	-	110	3	3	119
Princess Margaret	4391	-	-	-	-	194	1	2	197
Prince of Wales	7,929	-	-	-	-	322	6	1	329
Tuen Mun	5,464	-	-	-	-	223	21	2	246
Total	34,436	12	-	-	-	1,339	56	14	1,421

APPENDIX 39

Percentage of Babies receiving BCG by Vaccination Methods, 1970 – 1992

Year	Vaccination Method		Not Vaccinated
	Intradermal	Percutaneous	
1970	39.1	54.2	6.7
1971	41.7	51.5	6.8
1972	45.2	49.9	4.9
1973	47.6	46.8	5.6
1974	49.8	46.0	4.2
1975	53.3	44.3	2.4
1976	54.2	43.7	2.1
1977	58.5	39.3	2.2
1978	55.0	43.1	1.9
1979	55.9	43.7	0.4
1980	53.6	45.9	0.5
1981	54.7	44.8	0.5
1982	54.8	44.1	1.1
1983	56.3	43.1	0.6
1984	54.9	45.0	0.1
1985	58.1	41.8	0.1
1986	59.4	40.2	0.4
1987	60.0	39.5	0.5
1988	60.5	39.0	0.5
1989	55.6	44.0	0.4
1990	57.5	42.0	0.5
1991	58.4	41.0	0.6
1992	62.0	37.2	0.8

Note : Percentage refers to known live birth figure

APPENDIX 40

Tuberculin Tests and BCG Vaccination of School Children 1962 - 1992

Year	Number (a) Eligible	Number TT Tested	Number TT Negative	Number Given BCG	% of TT Tested Given BCG	% (b) Refusals
1962		49,567		22,903	46.2	
1963		34,793		10,706	30.8	
1964		38,871		9,764	25.1	
1965		76,407		10,845	14.2	
1966		77,447		10,911	14.1	
1967	224,666	125,975	25,794	25,766	20.5	43.9
1968	208,029	141,922	30,328	30,314	21.4	31.8
1969	126,906	89,306	16,831	16,821	18.8	29.6
1970	194,298	127,680	49,655	49,547	38.8	34.3
1971	213,457	145,205	50,115	50,020	34.4	32.0
1972	201,537	124,385	54,340	54,100	43.5	38.3
1973	120,797	83,882	29,713	29,554	35.2	30.6
1974	295,287	179,169	47,591	47,378	26.4	39.3
1975	136,175	88,987	38,334	(c) 39,120	44.0	34.7
1976	230,861	147,057	77,085	76,790	52.2	36.3
1977	137,465	76,143	43,752	43,502	57.1	44.6
1978	134,218	89,732	52,504	54,137	60.3	33.1
1979	133,697	88,375	49,555	49,355	55.8	33.9
1980	101,215	67,633	42,419	43,830	64.8	33.2
1981	111,121	76,342	47,093	47,089	61.7	31.3
1982	115,042	82,675	52,654	52,455	63.4	28.1
1983	121,392	94,578	65,487	65,627	69.4	22.1
1984	71,950	61,359	47,086	47,705	77.7	14.7
1985	90,771	74,802	56,646	56,625	75.7	17.6
1986	100,116	82,057	65,251	64,985	79.2	18.0
1987	84,610	67,038	53,695	53,419	79.7	20.8
1988	78,806	70,318	58,796	59,237	84.2	10.8
1989	68,367	62,390	50,747	50,794	81.4	8.7
1990	121,280	104,263	78,244	78,540	75.3	14.0
1991	120,705	110,193	75,343	75,107	68.2	8.7
1992	102,580	93,533	63,550	(d) 63,234	67.6	8.8

- Note : (a) By "number eligible" is meant the total population in the specified age group which it was intended to test and or vaccinate, i.e. the number of persons in each area who could have been tested and/or vaccinated during the period of reporting according to the prevailing policy, by the staff assigned to that area (this follows W.H.O. practice).
- (b) Percentage refusals refer to those refusing to be tuberculin tested.
- (c) Direct BCG was introduced in remote areas w.e.f. 27.10.1975 and number of BCG given includes direct BCG without TT.
- (d) No direct BCG was given in 1992 and number of direct BCG given in previous years were not recorded separately.

APPENDIX 41

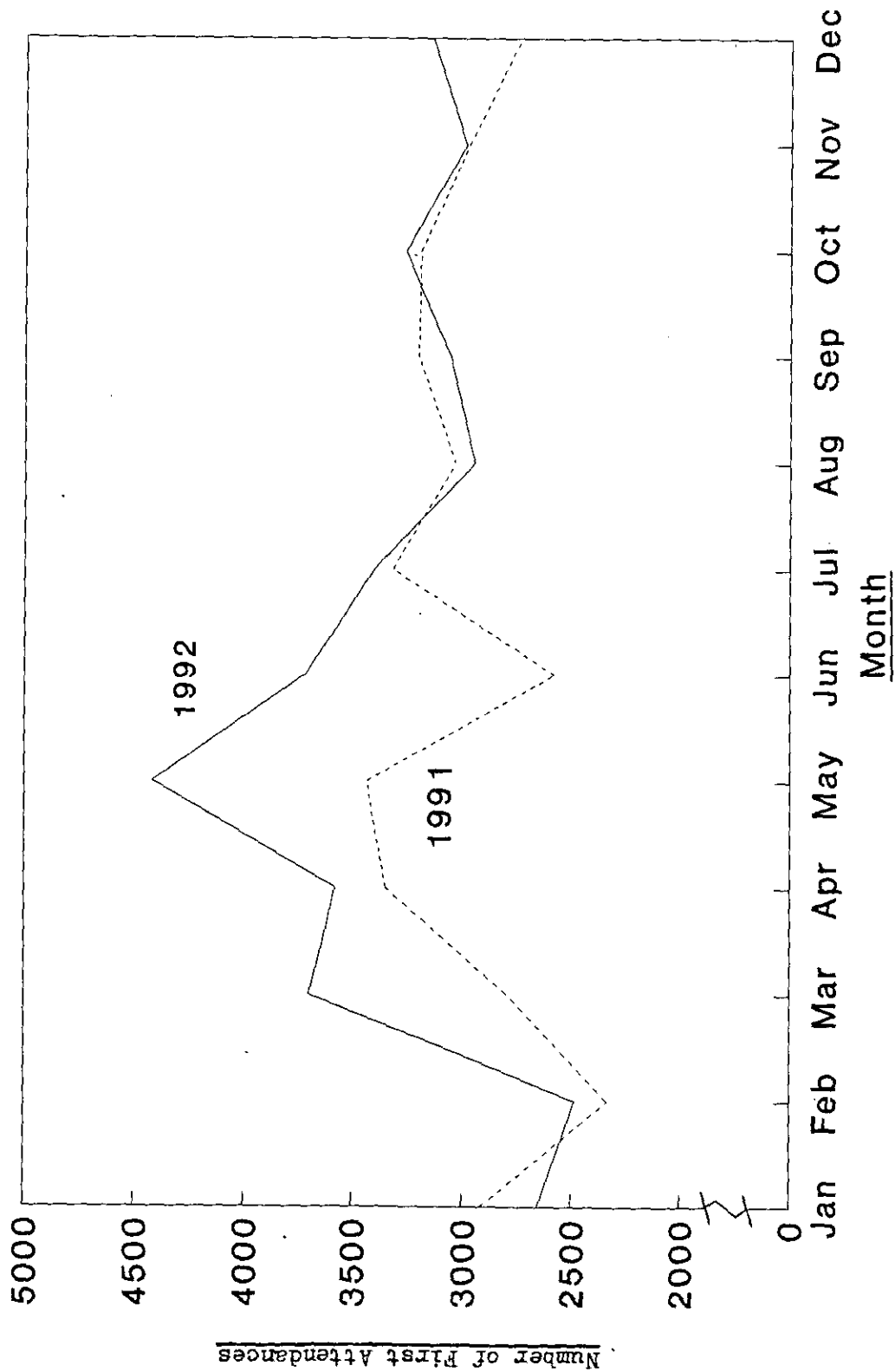
Examination of Contacts, 1989 - 1992

Particulars	1989	1990	1991	1992
No. of patients (new & old) listed	7018	7025	7010	5695
No. of contacts listed	18761	18750	18722	17649
(a) No. of children with -ve tuberculin/tine* test	723	710	695	647
No. of children given BCG	709	693	681	620
(b) No. of contacts x-rayed	14193 (100.00%)	14112 (100.00%)	14122 (100.00%)	13785 (100.00%)
<u>Results</u>				
NSD & Unknown	13477 (94.96%)	13410 (95.03%)	13395 (94.85%)	12862 (93.31%)
Disease other than TB	162 (1.14%)	157 (1.11%)	161 (1.14%)	246 (1.79%)
<u>Respiratory TB</u>				
Active A (radiologically)	90 (0.63%)	92 (0.65%)	95 (0.67%)	123 (0.89%)
B (bacteriologically)	50 (0.35%)	48 (0.34%)	46 (0.33%)	24 (0.17%)
C (incomplete)	12 (0.09%)	10 (0.07%)	11 (0.08%)	6 (0.04%)
Not active	361 (2.54%)	360 (2.55%)	372 (2.63%)	440 (3.19%)
Non - respiratory TB	2 (0.01%)	3 (0.02%)	4 (0.03%)	6 (0.04%)
Result not yet known	39 (0.28%)	32 (0.23%)	38 (0.27%)	78 (0.57%)

* for NT Chest Clinics only

APPENDIX 42

Monthly First Attendances at Government Chest Clinics 1991 & 1992



* Please refer to appendix 43a

All patients must be brought to Medical Social Conference before considered to be complete defaulters.

APPENDIX 44

Annual Admissions to Hospitals from Government Chest Clinics 1957 - 1992

Year	Total Admissions
1957	790
1958	1,216
1959	1,274
1960	1,297
1961	1,450
1962	1,532
1963	1,420
1964	1,378
1965	1,598
1966	2,055
1967	2,258
1968	2,465
1969	2,207
1970	2,307
1971	1,989
1972	2,278
1973	2,334
1974	2,417
1975	3,201
1976	3,150
1977	3,261
1978	3,569
1979	3,879
1980	3,654
1981	3,769
1982	3,833
1983	3,691
1984	3,957
1985	4,166
1986	4,502
1987	4,561
1988	4,764
1989	4,809
1990	5,046
1991	5,056
1992	5,229
Clinic	Year 1992
East Kowloon	541
Kowloon	1,120
Kwai Chung	394
Sai Ying Pun	411
Shau Kei Wan	296
Shek Kip Mei	320
Wanchai	830
Yaumati	371
NT Unit	331
Yan Oi	344
Yung Fung Shee	271
Total	5,229

APPENDIX 45

Hospital Admissions (Chest Medical Wards Only) 1991 - 1992

Hospital	1991			1992		
	From Gov't Chest Clinics	Total Admissions	Turnover (Admission /Beds)	From Gov't Chest Clinics	Total Admissions	Turnover (Admission /Beds)
Grantham	1,458	2,694	8.47	1,537	2,894	9.10
Ruttonjee	964	1,798	9.46	1,218	2,518	13.25
Haven of Hope	281	754	5.24	392	952	6.43
Wong Tai Sin	703	1,448	8.99	554	1,608	9.99
Kln Hospital	1,650	2,995	23.58	1,528	2,811	22.13
Total	5,056	9,689	10.31	5,229	10,783	11.42

APPENDIX 46

Total Number of Sputum Smears, Cultures and Sensitivity Tests Carried out
by the Government Pathological Institute for all Agencies, 1985 – 1992

Investigation	1985	1986	1987	1988	1989	1990	1991	1992
Sputum Smears for TB	111,311	101,337	92,770	92,534	90,310	93,567	90,779	96,220
Sputum Cultures for TB	74,857	75,638	73,182	82,383	81,168	85,524	83,443	92,662
Total number of Sensitivity Tests	37,314	33,184	35,297	34,173	32,495	30,109	20,548	23,038
Streptomycin	7,201	7,082	9,223	9,114	9,248	8,944	5,401	5,980
P.A.S.	4	11	6	4	—	—	—	—
I.N.A.H.	7,201	7,082	9,223	9,114	9,248	8,944	5,486	5,981
Ethionamide	2,590	2,221	2,337	1,918	1,140	822	868	865
Thiacetazone	—	5	—	—	—	—	—	—
Pyrazinimide	6,839	4,807	2,591	2,324	1,176	821	870	865
Cycloserine	10	73	107	118	162	121	301	347
Kanamycin	82	119	122	127	167	122	301	347
Viomycin	33	9	—	—	—	—	—	—
Rifampicin	6,869	7,082	9,223	9,114	9,248	8,944	5,401	5,981
Ethambutol	6,449	4,620	2,340	2,098	1,588	1,072	894	867
Capreomycin	36	67	107	117	162	121	301	346
Ofloxacin	—	—	—	—	345	—	410	416
Other	—	6	18	125	11	198	315	1,043

APPENDIX 47

No. of Doctor Sessions, Cases seen by Doctor and Patient/Doctor Session
1991 - 1992

Clinic/Hospital	Doctor Sessions		Cases seen by Doctor		Patient/ Dr Session	
	1991	1992	1991	1992	1991	1992
East Kowloon Chest Clinic	961	1116	22594	23318	24	21
Kowloon Chest Clinic	1231	1316	30452	28025	25	21
Kwai Chung Chest Clinic	1157	1294	28294	29741	24	23
Sai Ying Pun Chest Clinic	831	922	18894	20980	23	23
Shauiwan Chest Clinic	546	546	12428	14359	23	26
Shek Kip Mei Chest Clinic	989	1044	18121	19719	18	19
Wanchai Chest Clinic	1568	1694	31603	35843	20	21
Yan Oi Chest Clinic	731	637	16514	15277	23	24
Yaumati Chest Clinic	1182	1115	25114	23623	21	21
Yung Fung Shee Chest Clinic	543	543	11982	12559	22	23
Castle Peak Hospital	40	50	657	1202	16	24
Cheung Chau Chest Clinic	24	25	551	531	23	21
Hei Ling Chau ATC	11	12	119	X 136	11	11
Sai Kung Chest Clinic	48	50	1058	892	22	18
Shatin Chest Clinic	261	293	7885	8678	30	30
Sheung Shui Chest Clinic	178	192	3324	3779	19	20
Stanley Prison Hospital	20	24	472	X 751	24	31
Wong Siu Ching Chest Clinic	198	199	4530	5092	23	26
Shek Pik Prison Hospital	11	10	78	X 81	7	8
Yuen Long Chest Clinic	248	248	5895	5975	24	24
Total	10778	11330	240565	250561	22	22

Note : Doctor Session - one doctor of a half-day session.

APPENDIX 48

Beds for Treatment of Tuberculosis, 1992

Hospital		No. of T.B. Beds
Hospital Authority	Grantham Hospital	318
	Kowloon Hospital	127 *
	Ruttonjee Hospital	190
	Haven of Hope Hospital	148
	Wong Tai Sin Infirmary	161
Total (Hospital Authority)		944
Private	St. Paul's Hospital	3
	Hong Kong Sanatorium	18
Total (Private)		21
Custody	Victoria Prison Hospital	—
	Stanley Prison Hospital	20
	Tai Lam Correctional Institution	—
Total (Custody)		20
Grand Total (1992)		985
Grand Total (1991)		965
Grand Total (1990)		1,075

* Including two beds in the Intensive Care Unit

APPENDIX 49

Beds for Treatment of Tuberculosis 1968 – 1992

<u>Year</u>	<u>Number of Beds</u>
1968	1,759
1969	1,884
1970	1,820
1971	1,699
1972	1,666
1973	1,692
1974	1,643
1975	1,602
1976	1,509
1977	1,357
1978	1,315
1979	1,284
1980	1,262
1981	1,245
1982	1,243
1983	1,264
1984	1,241
1985	1,216
1986	1,199
1987	1,193
1988	1,181
1989	1,165
1990	1,075
1991	965
1992	985

APPENDIX 50

Work Done by Medical Social Workers of Chest Clinics 1988 - 1992 (Financial Year)

Particulars	1988	1989	1990	1991	1992
Total no. of families receiving financial assistance	100	247	165	131	173
Total financial help to patients	\$26,651.1	\$85,886.4	\$37,057.8	\$26,496.9	\$55,594.3
Disbursement of Samaritan Fund	\$10,665.1	\$3,710.6	\$3,744.0	\$2,872.5	\$1,376.7
Total no. of interviews (in - patients)	4,233	6,906	4,986	5,473	2,812
Total no. of interviews (out - patients)	9,152	9,869	10,034	10,079	6,040
No. of home visits made	126	254	179	240	115

APPENDIX 51

First Visits to Chest Clinics

1982 - 1992

Clinic/Hospital	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
East Kowloon Chest Clinic	3,465	3,525	4,082	3,549	2,992	2,755	2,704	2,442	2,570	2,390	2,523
Kowloon Chest Clinic	12,541	12,524	13,625	11,657	9,750	8,184	8,469	7,818	7,080	6,578	7,042
Kwai Chung Chest Clinic	7,439	7,745	8,053	7,348	6,347	6,487	6,714	5,869	5,275	4,783	4,495
Sai Ying Pun Chest Clinic	4,495	4,215	4,419	4,351	3,290	3,294	2,997	3,172	3,283	2,907	3,596
Shauiwan Chest Clinic	2,452	2,159	2,284	2,353	2,108	2,337	1,841	1,923	1,795	1,661	2,438
Shek Kip Mei Chest Clinic	4,296	4,034	4,388	4,190	3,259	2,946	2,690	2,805	2,832	2,933	3,178
Wanchai Chest Clinic	9,857	9,665	10,736	9,062	7,397	6,760	6,929	6,331	5,796	5,061	5,965
Yan Oi Chest Clinic	1,035	1,771	2,451	2,381	2,220	2,171	2,591	2,562	2,707	2,572	2,400
Yau-mati Chest Clinic	4,184	4,456	5,453	4,490	3,718	3,168	2,995	2,774	2,987	2,527	2,713
Yung Fung Shee Chest Clinic	-	-	146	1,273	1,484	1,367	1,509	1,415	1,980	1,886	2,032
Aberdeen Chest Clinic	503	347	566	527	475	391	336	342	60	-	-
Castle Peak Hospital	5	18	12	8	16	24	31	24	15	19	18
Cheung Chau Chest Clinic	148	144	170	115	84	97	95	83	59	54	42
Hei Ling Chau ATC	21	46	42	58	66	73	107	143	92	39	37
Pik Uk Prison	-	-	-	-	-	-	-	-	-	-	-
Sai Kung Chest Clinic	188	119	127	121	106	135	179	145	194	167	128
Shatin Chest Clinic	382	470	534	604	690	770	857	959	983	858	1077
Shek Pik Prison Hospital	-	-	27	17	15	13	19	15	17	27	35
Sheung Shui Chest Clinic	523	451	565	356	329	299	332	318	338	292	345
Stanley Prison Hospital	97	38	34	56	31	43	54	40	46	13	26
Tai Lam Addiction Rx Centre	55	57	68	66	62	47	74	-	-	-	-
Tai O	14	16	-	-	-	-	-	6	12	-	-
Tai Po Chest Clinic	516	452	582	792	645	538	641	544	572	468	564
Tuen Mun	195	-	-	-	-	-	-	-	-	-	-
Victoria Prison Hospital	24	3	3	-	5	-	-	-	-	-	-
Yuen Long Chest Clinic	1,390	1,214	1,165	1,131	869	786	699	639	839	620	682
Total	53,825	53,469	59,532	54,505	45,958	42,685	42,863	40,369	39,532	35,855	39,336

APPENDIX 52

Total Attendances at Chest Clinics 1982 - 1992

Clinic/Hospital	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
East Kowloon Chest Clinic	112,636	109,245	108,436	73,855	77,464	77,094	72,970	62,829	62,479	58,667	64,659
Kowloon Chest Clinic	119,340	109,831	110,480	104,355	95,674	82,387	92,142	88,012	87,277	88,930	77,817
Kwai Chung Chest Clinic	83,437	83,568	85,796	90,658	87,728	91,386	83,329	79,775	79,395	80,144	84,721
Sai Ying Pun Chest Clinic	57,022	59,806	61,560	57,196	50,159	50,944	52,048	52,134	54,239	51,161	52,478
Shaukwan Chest Clinic	34,858	34,430	34,302	34,887	35,789	37,319	37,285	37,004	41,733	47,614	46,348
Shek Kip Mei Chest Clinic	73,455	70,091	77,723	80,599	72,173	69,220	70,006	67,702	64,588	60,032	67,636
Wanchai Chest Clinic	81,552	73,614	84,656	79,951	78,295	84,835	95,998	98,548	94,052	89,769	89,945
Yan Oi Chest Clinic	15,487	25,621	40,557	41,985	38,272	36,786	38,611	39,288	46,409	51,660	52,075
Yaumati Chest Clinic	76,558	87,820	99,429	91,235	81,349	85,081	75,855	80,885	80,088	78,008	74,709
Yung Fung Shee Chest Clinic	-	-	7,637	53,410	54,167	51,520	52,880	50,420	57,085	53,925	53,042
Aberdeen Chest Clinic	5,226	4,683	5,909	6,230	5,378	4,739	4,506	5,055	1,601	-	-
Castle Peak Hospital	1,246	1,678	1,069	1,601	1,703	1,639	1,224	1,378	1,693	2,695	4,850
Cheung Chau Chest Clinic	1,980	1,711	2,782	2,342	1,919	2,234	1,605	2,075	1,614	3,114	1,903
Hei Ling Chau ATC	1,268	2,334	2,038	1,954	842	2,228	2,846	2,398	2,159	877	1,636
Pik Uk Prison	66	102	99	77	187	47	15	178	386	110	112
Sai Kung Chest Clinic	1,683	1,553	1,665	1,584	1,618	1,374	1,508	1,381	1,960	1,902	1,529
Shatin Chest Clinic	5,295	6,534	8,852	9,314	10,536	10,959	11,826	13,887	14,567	14,989	16,567
Shek Pik Prison Hospital	-	-	184	163	169	261	158	444	188	179	584
Sheung Shui Chest Clinic	7,101	7,235	7,615	7,311	7,831	6,741	6,139	6,298	7,043	6,274	6,770
Stanley Prison Hospital	2,874	3,150	3,795	2,432	2,932	2,057	5,287	7,831	9,737	9,430	9,166
Tai Lam Addiction Rx Centre	1,419	1,931	2,569	2,552	3,184	4,031	1,738	-	-	-	-
Tai O	54	65	63	78	63	8	1	63	47	7	-
Tai Po Chest Clinic	5,033	5,330	6,514	7,461	6,986	7,056	7,089	7,917	8,174	8,504	9,385
Tuen Mun	1,520	-	-	-	-	-	-	-	-	-	-
Victoria Prison Hospital	623	14	60	12	7	-	-	-	-	-	-
Yuen Long Chest Clinic	13,610	12,604	12,473	12,178	11,870	10,336	10,402	10,474	11,996	10,967	11,149
Total	703,343	702,950	766,263	763,420	726,295	720,282	725,468	715,976	728,510	718,958	727,081

APPENDIX 53

Classification of New Patients Attending Government Chest Clinics, 1992

Result of examination	East Kln	Kln	Kwai Chung	Sai Ying Pun	Shau Kei Wan	Shek Kip Mei	Wan Chai	Yau Ma Tei	Yan Oi	Yung Fung Shee	Urban Sub- Clinics	N.T.	Total
Total patients attended, new and old	8,346	12,365	10,536	8,379	4,369	7,928	13,595	8,810	5,540	4,893	895	6,918	92,574
Number of new patients	2,523	7,042	4,495	3,596	2,438	3,178	5,965	2,713	2,400	2,032	98	2,856	39,336
Total with examination completed	2,523	6,995	4,488	3,560	2,426	3,174	5,935	2,707	2,376	1,994	97	2,813	39,088
N.S.D. & Unknown	712	1,620	2,989	1,773	1,348	1,453	1,867	1,391	1,304	864	17	986	16,324
Disease other than tuberculosis	1,127	3,084	506	999	552	781	2,371	613	424	486	17	842	11,802
Non-respiratory tuberculosis													
(a) Meninges	4	2	-	-	-	-	1	-	-	1	-	1	9
(b) Bones & Joints	-	8	6	1	1	3	1	2	5	2	-	5	34
(c) Others	16	75	53	24	15	20	39	22	36	24	-	41	365
Respiratory tuberculosis													
(a) Not active and unknown activity	399	1,147	426	512	330	520	893	335	315	297	16	516	5,706
(b) Active	265	1,059	508	251	180	397	763	344	292	320	47	422	4,848
By bacteriology and extent *													
Negative : 1	101	539	229	110	51	145	442	183	139	116	29	160	2,244
2	24	57	6	11	23	11	7	7	22	7	-	27	202
3	1	10	3	-	3	1	3	-	-	2	-	7	30
Positive : 1	78	306	200	81	26	148	239	111	71	98	4	95	1,457
2	49	118	57	30	44	61	38	34	38	54	13	59	595
3	3	23	5	3	30	22	16	1	9	30	-	67	209
Incomplete : 1	7	4	7	16	1	9	16	7	9	11	-	1	88
2	2	1	1	-	2	-	1	-	4	1	1	1	14
3	-	1	-	-	-	-	1	1	-	1	-	5	9
By bacteriology and cavity													
Negative : Yes	8	20	16	-	5	3	11	4	10	10	-	11	98
No	118	586	222	121	72	154	441	186	151	115	29	183	2,378
Positive : Yes	28	77	68	9	18	49	31	43	34	74	1	85	517
No	102	370	194	105	82	182	262	103	84	108	16	136	1,744
Incomplete : Yes	-	-	1	1	-	-	-	3	2	1	-	4	12
No	9	6	7	15	3	9	18	5	11	12	1	3	99
By previous history and treatment													
No previous history and treatment	251	959	480	242	168	359	688	320	280	287	47	399	4,480
No previous history of tuberculosis	-	13	3	1	-	-	-	-	7	-	-	-	24
Previously diagnosed no treatment	14	58	25	7	12	38	75	24	5	33	-	23	314
Previously diagnosed and treatment	-	29	-	1	-	-	-	-	-	-	-	-	30
Previous history not known	-	-	-	-	-	-	-	-	-	-	-	-	-

* 1) Less than right upper lobe

2) More than right upper lobe

3) More than a lung

APPENDIX 54

Classification of Patients of first attendance to Chest Clinics According to International Classification of Diseases Code, 1992

Code	Classification	East Kln	Kln	Kwai Chung	Sai Ying Pun	Shau Kei Wan	Shek Kip Mei	Wan Chai	Yau Ma Tei	Yan Oi	Yung Fung Shee	Urban Sub- Clinics	N.T.	Total
010	Primary Tuberculosis Infection	-	-	-	-	-	1	-	-	-	-	-	-	1
011	Pulmonary Tuberculosis	245	982	464	231	173	375	736	333	270	311	47	399	4,566
011X	Silicotuberculosis	-	-	-	-	-	-	1	-	-	1	-	2	4
012	Other Respiratory Tuberculosis	20	77	44	20	7	21	26	11	22	8	-	21	277
013	Tuberculosis of Meninges	4	2	-	-	-	-	1	-	-	1	-	1	9
014	Tuberculosis of Intestines	3	2	-	-	1	1	2	-	1	2	-	1	13
015	Tuberculosis of Bones & Joints	-	8	6	1	1	3	1	2	5	2	-	5	34
016	Tuberculosis of Genito-urinary System	-	4	5	1	-	2	-	-	4	2	-	3	21
017	Tuberculosis of Other Organs	11	68	48	22	11	14	36	21	30	19	-	33	313
018	Miliary Tuberculosis	2	1	-	1	3	3	1	1	1	1	-	4	18
137	Late effects of Tuberculosis	399	1,147	426	512	330	520	893	335	315	297	16	516	5,706
160-165	Malignant Neoplasm of Respiratory System	53	293	104	74	48	61	114	38	75	27	4	65	956
212	Benign Neoplasm of Respiratory System	1	-	-	-	-	-	1	-	-	-	-	-	2
460-466	Acute Respiratory Infection	312	551	2	364	104	318	806	24	26	197	-	5	2,709
470-478	Other Diseases of Upper Resp Tract	2	9	-	-	-	-	15	-	2	-	-	-	28
480-486	Pneumonia	87	302	141	200	48	94	222	59	158	67	4	209	1,591
487	Influenza	-	2	-	-	1	-	-	-	-	-	-	-	3
490-491	Bronchitis, (not specified as acute or chronic) & chronic bronchitis	567	1,453	57	183	214	191	774	282	68	80	4	377	4,250
492	Emphysema	2	31	14	-	4	21	20	8	20	2	-	18	140
493	Asthma	9	58	4	20	9	6	56	5	3	9	-	5	184
494	Bronchiectasis	20	222	74	37	42	24	114	30	44	27	-	54	688
495-496	Others	17	53	28	66	27	5	73	16	2	16	4	29	336
501	Asbestosis	-	-	-	-	2	-	-	-	-	-	-	-	2
502	Silicosis	2	7	3	-	-	-	22	15	1	1	-	3	54
505	Pneumoconiosis, unspecified	-	7	-	-	4	-	-	1	1	-	-	-	13
506-508	Others	-	-	-	-	-	-	-	-	-	-	-	-	-
510	Empyema	2	3	2	-	-	-	1	-	1	-	-	3	12
511	Pleurisy	6	3	2	3	19	17	21	16	2	37	1	26	151
512	Pneumothorax	6	28	9	11	8	3	21	6	2	2	-	5	101
513-519	Other Diseases of Respiratory System	9	45	42	15	6	19	37	86	13	17	-	19	308
786	Unknown	8	184	69	139	16	88	329	7	14	3	4	10	871
V71	N.S.D.	265	424	539	195	267	182	982	355	465	343	-	210	4,227
	Diseases Other than TB & Resp System	32	17	24	26	16	22	74	27	8	4	-	24	274
Total		2,084	5,983	2,107	2,121	1,361	1,991	5,379	1,678	1,551	1,476	84	2,047	27,862

APPENDIX 55

Extent of Active Respiratory TB in First Attenders at Chest Clinics 1984 - 1992

Extent *	1984		1985		1986		1987		1988		1989		1990		1991		1992	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
1. Minimal	4108	67.8	3653	64.9	3830	72.8	4012	72.7	3842	68.7	3702	71.6	3750	73.0	3651	76.8	3789	78.2
2. Moderate	1469	24.3	1479	26.3	1122	21.3	1166	21.1	1373	24.6	1125	21.8	1095	21.3	864	18.2	811	16.7
3. Extensive	480	7.9	497	8.8	308	5.9	337	6.1	375	6.7	342	6.6	291	5.7	238	5.0	248	5.1
Total	6057	100.0	5629	100.0	5260	100.0	5515	100.0	5590	100.0	5169	100.0	5136	100.0	4753	100.0	4848	100.0
No. of first attenders	59,532		54,505		45,958		42,685		42,863		40,369		39,532		35,855		39,336	
% of active TB	10.2		10.3		11.4		12.9		13.0		12.8		13.0		13.3		12.3	

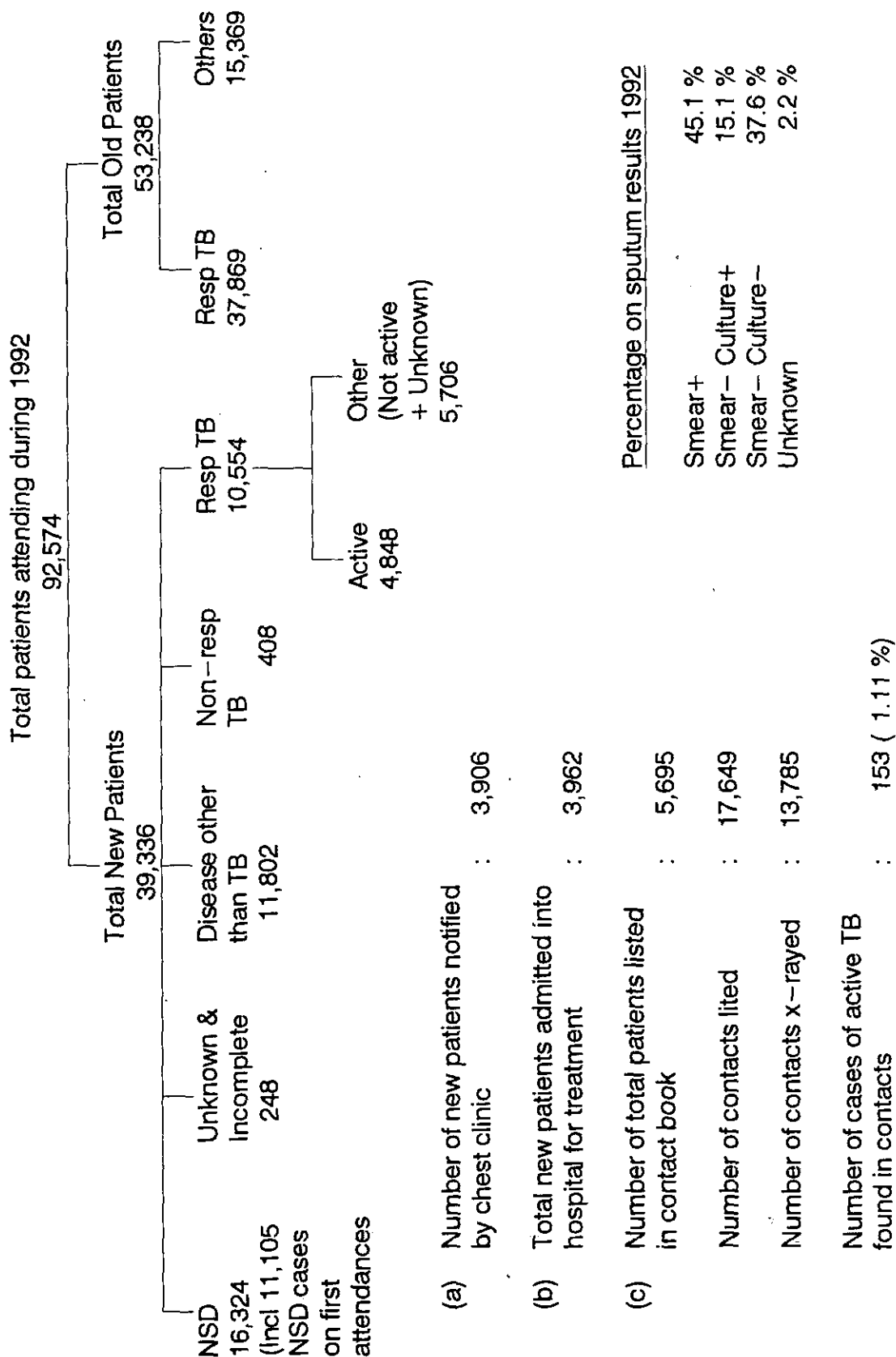
* 1. Minimal : Less than right upper lobe

2. Moderate : More than right upper lobe

3. Extensive : More than a lung

APPENDIX 56

Flow Chart of Patients Attending Chest Clinics, 1992



APPENDIX 57

Chest X-ray, 1991 & 1992

Chest X-ray Unit	No. of full size films used	
	1991	1992
East Kowloon	19,713	21,248
Kowloon	20,952	25,571
Kwai Chung	20,809	19,928
Sai Ying Pun	16,421	16,119
Shaueiwan	8,838	12,663
Shek Kip Mei	18,976	21,638
Wanchai	28,501	33,030
Yan Oi	8,510	11,958
Yaumati	21,562	20,612
Yung Fung Shee	7,901	10,729
Cheung Chau	72	24
Sai Kung	315	586
Shatin	2,007	5,516
Sheung Shui	1,815	2,323
Stanley P H	211	84
Tai Lam A T C	109	59
Tai O	15	15
Tai Po	3,210	3,332
Yuen Long	2,005	3,517
Pik Uk Prison	12	2
Total (Chest Service)	181,954	208,954
Total (Other Service) #	32,010	23,624
Grand Total	213,964	232,578

Including survey centres, social hygiene, ante-natal and OPD etc.
No small size film (70mm) were used in 1992.

APPENDIX 58

Cost of Anti-Tuberculosis Drug, 1992

Drug	Average Daily Dose	Price (HK\$)	Daily Cost		
			1991 (HK\$)	1992 (HK\$)	1992 (US\$)
Streptomycin	1 gm	\$3.19/gm	\$ 2.17	\$ 3.19	40.897 cents
INH Tablets	300 mgm	\$2.26/100	5.61 cents	6.78 cents	0.869 cents
Ethionamide	0.5 - 0.75 G.	\$103/100 of 0.125 G	\$ 5.80	\$ 4.12	52.821 cents
Prothionamide	0.5 - 0.75 G.	\$170/100 of 0.250 G	\$ 3.08	\$ 3.40	43.590 cents
Pyrazinamide	1.5 - 2 G.	\$30.84/100 of 0.5 G	73.53 cents	92.52 cents	11.862 cents
Kanamycin	3/4 vial	\$6.5/vial	\$ 3.38	\$ 4.88	62.500 cents
Ethambutol	800 - 1200 mgm.	\$72.80/100 of 0.4 G	\$ 1.41	\$ 1.46	18.667 cents
Rifampicin	450 - 600 mgm.	\$108.74/100 of 150 mgm.	\$ 3.12	\$ 3.26	41.823 cents

Average dose		Regimen	Average Cost	
S	1 G. H 800mg	2SHRZ ₃ /4HR ₃	\$ 424.18	\$ 476.40
Z	2.5 G. R 600mg	4SHRZ ₃	\$ 400.50	\$ 481.64
				\$ 61.08
				\$ 61.75

NOTE : US\$1.00 = HK\$7.80

APPENDIX 59

Establishment & Strength of Chest Service As at 31.12.92

Post	Establishment	Strength
Consultant Chest Physician	1	1
Senior Medical & Health Officer	6 (a)	— (b)
Medical & Health Officer	21	25
Senior Nursing Officer	1	1
Nursing Officer	12	12
Registered Nurse	48	45
Enrolled Nurse	125	115
Senior Dispenser	1	1
Dispenser	9	9
Senior Inoculator	3	3
Inoculator	38	18 (c)
Executive Officer I	—	1 (d)
Senior Clerical Officer	1	1
Statistical Officer II	2	2
Senior Personal Secretary	1	1
Clerical Officer I	15	15
Clerical Officer II	25	25
Clerical Assistant	45	45
Typist	2	2
Office Assistant	24	24
Workman II	51	52
Watchman	2	2
Medical Social Worker	—	12 (e)
Senior Radiographer	1	1
Senior X-ray Assistant	14	13
X-ray Assistant	20	20
Darkroom Technician	14	14

(a) Including 1 SMO (Radiologist) in Chest Service

(b) 3 SMO on study leave

(c) A total of 20 inoculators who are doing the job of pill watching are not filled.

(d) Supernumerary post

(e) Seconded from Social Welfare Department and some of them are part-time only.

APPENDIX 60

Annual Expenditure on Chest Service 1992/93

	<u>1992/93</u>	<u>1991/92</u>
	\$	\$
1. Drugs, Dressing, Instruments, Consumables and Sundries, and BCG vaccine	9,667,000 *	8,171,081
2. X-ray films and radiology equipment	908,630	572,900
3. Investigation at Pathological Institutes	6,568,000 #	9,071,892
4. Department of Health		
Staff Cost (Chest Service) (Note 1)	73,050,000	71,141,466
Other Charges (Note 1 & 2)	745,000	1,008,418
GRAND TOTAL	<u>90,938,630</u>	<u>89,965,757</u>

Note 1 : Recharge of expenditure from other Institutions or Government Departments are not included.

Note 2 : The main reason which accounts for the decrease in other charges of the chest services for the year 1992-93 is that the amount spent on medical instruments and other supplies and equipment has decreased.

* Cost on T.B. drugs	5,687,219
BCG vaccine	299,526

Excluded investigations for Hospital Authority.

PART 2

MALIGNANT NEOPLASM OF
TRACHEA, BRONCHUS AND LUNG

Contents

Appendix

No.

1. Deaths from malignant neoplasm of Trachea, Bronchus and Lung by age and sex 1983 - 1992.
2. Crude Annual Death Rate of Tuberculosis and Malignant Neoplasm of Trachea, Bronchus and Lung 1955 - 1992 (Graph)
3. Deaths and Death rate 1951 - 1992.
4. Sex ratio of Deaths 1951 - 1992.
5. Percentage distribution of Deaths by age group 1982 - 1992.
6. Age-specific-death rate per 100,000 population 1977, 1982, 1987 & 1992.
7. Mortality Rate of Tuberculosis and Malignant Neoplasm of Trachea, Bronchus and Lung by age and sex 1992 (Graph)
8. Deaths by age group and sex and by rate per 100,000 population 1992.
9. Deaths and death rate per 100,000 population by Epidemiological districts by place of last residence 1992.
10. Deaths by place of origin 1992.
11. Deaths by Hospital/place of death 1992.
12. Main causes of death from cancer in Hong Kong 1983 - 1992.
13. In-patients treated for Malignant Neoplasm of Trachea, Bronchus and Lung in hospitals and all deaths in Hong Kong 1951 - 1992.

APPENDIX 1

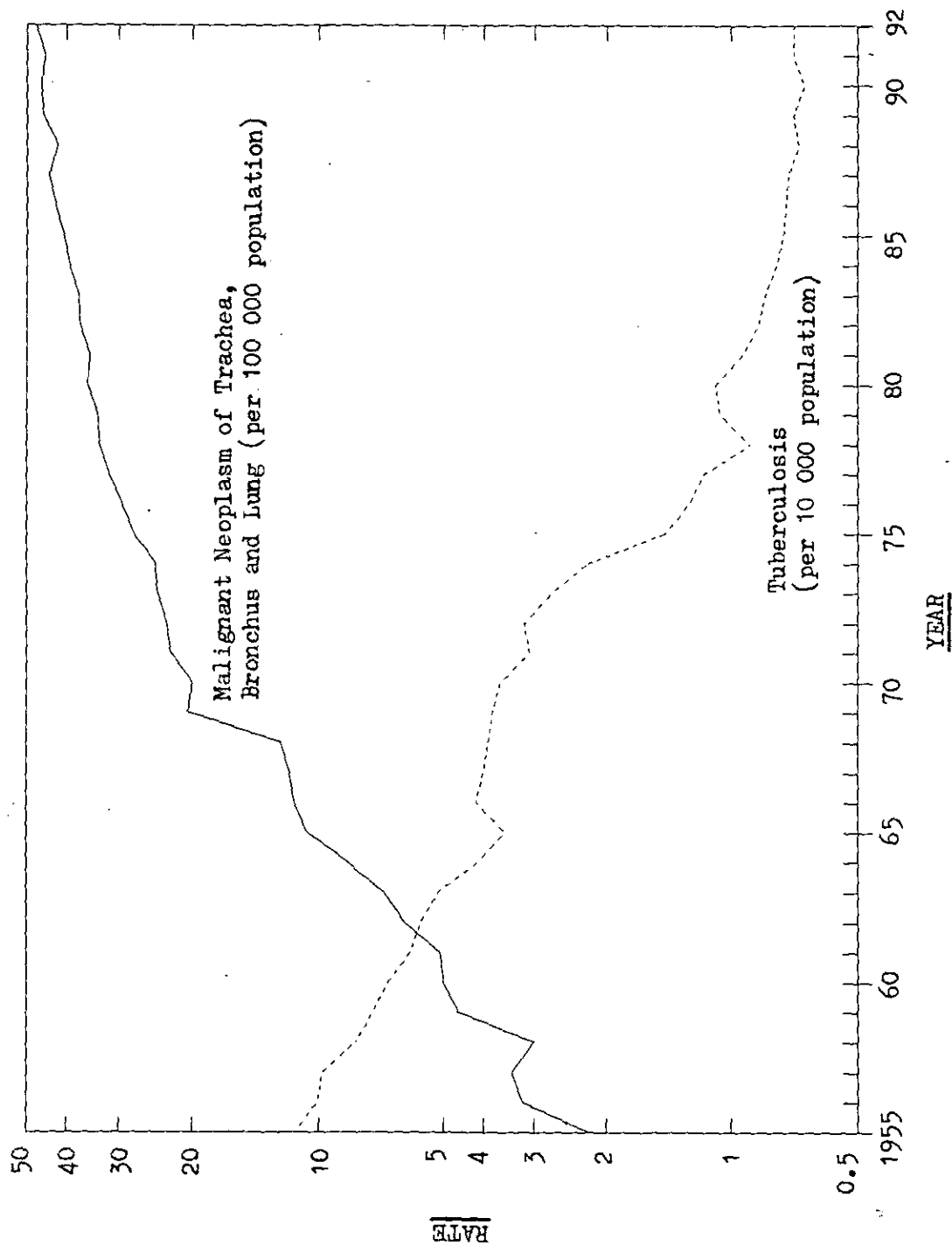
Deaths from Malignant Neoplasm of Trachea, Bronchus & Lung by age and sex 1983 - 1992

Age	Sex	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0 - 9	M	-	1	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-	-	-	-
10 - 19	M	1	1	-	1	-	1	-	-	-	-
	F	-	-	-	-	-	-	-	-	1	-
20 - 29	M	2	1	6	2	1	1	3	2	1	4
	F	2	-	4	1	4	-	5	1	4	2
30 - 34	M	4	10	7	5	7	4	6	4	9	10
	F	1	8	2	2	2	4	5	4	4	6
35 - 39	M	14	11	14	9	12	16	17	8	11	21
	F	1	2	9	7	12	13	12	12	5	10
40 - 44	M	19	21	19	39	18	19	34	27	38	33
	F	6	10	7	10	11	10	14	13	15	22
45 - 49	M	57	46	56	46	55	40	43	47	49	50
	F	16	20	12	22	17	9	7	11	23	17
50 - 54	M	121	134	149	130	120	109	120	97	103	93
	F	29	33	40	42	38	33	33	31	24	29
55 - 59	M	197	186	210	201	204	188	204	225	178	190
	F	62	69	61	67	51	64	75	70	46	47
60 - 64	M	276	258	248	291	279	257	286	300	297	269
	F	109	93	110	113	107	98	92	88	86	114
65 - 69	M	285	274	269	311	318	275	343	329	321	368
	F	94	117	138	143	141	150	136	144	132	140
70 - 74	M	212	222	260	249	313	286	336	325	318	326
	F	121	167	140	165	170	153	172	146	167	182
75+	M	182	228	219	253	282	304	339	412	389	442
	F	191	216	243	239	303	327	310	342	374	385
All ages	M	1370	1393	1457	1537	1609	1500	1731	1776	1716 (2)	1807 (1)
	F	632	735	766	811	856	861	861	862	881	954
	T	2002	2128	2223	2348	2465	2361	2592	2638	2597	2761

Note : Figures in brackets denote no. of deaths of unknown age included.

APPENDIX 2

Crude Annual Death Rate of Tuberculosis and Malignant Neoplasm
of Trachea, Bronchus and Lung 1955 - 1992



APPENDIX 3

Deaths and Death rate 1951 – 1992 (Deaths per 100,000 population)

Year	Mid–year population	Death	Crude death rate	Standardised death rate	Average age
1951	2,015,300	20	1.0	N.A.	57
1952	2,125,900	30	1.4	N.A.	52
1953	2,242,200	41	1.8	N.A.	52
1954	2,364,900	38	1.6	N.A.	53
1955	2,490,400	56	2.2	N.A.	57
1956	2,614,600	84	3.2	N.A.	55
1957	2,736,300	92	3.4	N.A.	57
1958	2,854,100	86	3.0	N.A.	55
1959	2,967,400	137	4.6	N.A.	57
1960	3,075,300	154	5.0	N.A.	57
1961	3,168,100	161	5.1	12.0 *	59
1962	3,305,200	206	6.2	12.7 *	59
1963	3,420,900	235	6.9	14.1 *	59
1964	3,504,600	299	8.5	15.8 *	59
1965	3,597,900	381	10.6	18.2 *	59
1966	3,629,900	415	11.4	18.4 *	60
1967	3,722,800	437	11.7	18.7 *	60
1968	3,802,700	466	12.3	18.5 *	61
1969	3,863,900	787	20.4	21.7 *	61
1970	3,959,000	786	19.9	20.5 *	61
1971	4,045,300	909	22.5	22.5 *	62
1972	4,123,600	949	23.0	22.9 *	62
1973	4,241,600	1,028	24.2	22.9 *	61
1974	4,377,800	1,073	24.5	22.7 *	61
1975	4,461,600	1,232	27.6	24.9 *	62
1976	4,518,000	1,335	29.5	26.6 *	63
1977	4,583,700	1,448	31.6	26.9 *	63
1978	4,667,500	1,561	33.4	27.5 *	63
1979	4,929,700	1,662	33.7	27.1 *	64
1980	5,063,100	1,806	35.7	27.8 *	64
1981	5,183,400	1,826	35.2	35.2 #	64
1982	5,264,500	1,962	37.3	36.6 #	64
1983	5,345,100	2,002	37.5	36.0 #	65
1984	5,397,900	2,128	39.4	37.1 #	65
1985	5,456,200	2,223	40.7	37.4 #	66
1986	5,524,600	2,348	42.5	38.2 #	66
1987	5,580,500	2,465	44.2	38.5 #	67
1988	5,627,600	2,361	42.0	35.7 #	67
1989	5,686,200	2,592	45.6	38.2 #	67
1990	5,704,500	2,638	46.2	38.0 #	67
1991	5,754,800	2,597	45.1	36.3 #	67
1992	5,811,500	2,761	47.5	37.3 #	68

* Standardisation based on 1971 mid–year population estimate for 1961 to 1980.

Standardisation based on 1981 mid–year population estimate for 1981 to 1992.

APPENDIX 4

Sex Ratio of Deaths 1951 - 1992

Year	Number of Deaths			Sex Ratio	Death Rate per 100,000 population		
	Male	Female	Total		Male	Female	Total
1951	15	5	20	3.0	N.A.	N.A.	1.0
1952	26	4	30	6.5	N.A.	N.A.	1.4
1953	25	16	41	1.6	N.A.	N.A.	1.8
1954	24	14	38	1.7	N.A.	N.A.	1.6
1955	38	18	56	2.1	N.A.	N.A.	2.2
1956	49	35	84	1.4	N.A.	N.A.	3.2
1957	51	41	92	1.2	N.A.	N.A.	3.4
1958	46	40	86	1.2	N.A.	N.A.	3.0
1959	89	48	137	1.9	N.A.	N.A.	4.6
1960	77	77	154	1.0	N.A.	N.A.	5.0
1961	99	62	161	1.6	6.2	3.9	5.1
1962	116	90	206	1.3	7.0	5.5	6.2
1963	143	92	235	1.6	9.3	5.4	6.9
1964	160	139	299	1.2	9.0	8.0	8.5
1965	225	156	381	1.4	12.4	8.8	10.6
1966	235	180	415	1.3	12.9	9.9	11.4
1967	239	198	437	1.2	12.8	10.7	11.7
1968	269	197	466	1.4	14.0	10.5	12.3
1969	468	319	787	1.5	24.0	16.7	20.4
1970	467	319	786	1.5	23.3	16.3	19.9
1971	534	375	909	1.4	26.0	18.9	22.5
1972	582	367	949	1.6	27.7	18.1	23.0
1973	634	394	1,028	1.6	29.3	19.0	24.2
1974	676	397	1,073	1.7	30.3	18.5	24.5
1975	758	474	1,232	1.6	33.2	21.8	27.6
1976	803	532	1,335	1.5	34.7	24.2	29.5
1977	919	529	1,448	1.7	39.1	23.7	31.6
1978	999	562	1,561	1.8	41.8	24.7	33.4
1979	1,062	600	1,662	1.8	41.7	25.2	33.7
1980	1,223	583	1,806	2.1	46.5	24.0	35.7
1981	1,200	626	1,826	1.9	44.4	25.2	35.2
1982	1,263	699	1,962	1.8	46.2	27.6	37.3
1983	1,370	632	2,002	2.2	49.4	24.6	37.5
1984	1,393	735	2,128	1.9	49.9	28.2	39.4
1985	1,457	766	2,223	1.9	51.7	29.0	40.7
1986	1,537	811	2,348	1.9	54.0	30.3	42.5
1987	1,609	856	2,465	1.9	56.0	31.6	44.2
1988	1,500	861	2,361	1.7	51.9	31.5	42.0
1989	1,731	861	2,592	2.0	59.4	31.1	45.6
1990	1,776	862	2,638	2.1	60.8	31.0	46.2
1991	1,716	881	2,597	1.9	58.3	31.3	45.1
1992	1,807	954	2,761	1.9	60.9	33.5	47.5

APPENDIX 5

Percentage Distribution of Deaths by Age Group 1982 - 1992

Age Group	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
0 - 9	0.1	-	- *	-	-	-	-	-	-	-	-
10 - 19	-	- *	- *	-	- *	-	-	-	-	- *	-
20 - 29	0.3	0.2	0.8	0.4	0.2	0.2	-	0.3	0.1	0.2	0.2
30 - 34	0.5	0.2	0.6	0.4	0.3	0.4	0.3	0.4	0.3	0.5	0.6
35 - 39	0.8	0.7	1.5	1.0	0.7	1.0	1.3	1.1	0.8	0.6	1.1
40 - 44	1.8	1.2	3.1	1.2	2.1	1.2	1.3	1.9	1.5	2.0	2.0
45 - 49	4.8	3.6	7.9	3.1	2.9	2.9	2.1	1.9	2.2	2.8	2.4
50 - 54	8.6	7.5	12.0	8.5	7.3	6.4	6.0	5.9	4.8	4.9	4.4
55 - 59	12.5	12.9	16.5	12.2	11.4	10.3	10.7	10.8	11.2	8.6	8.6
60 - 64	18.1	19.3	18.4	16.1	17.2	15.7	15.0	14.6	14.7	14.8	13.9
65 - 69	18.9	19.0	18.3	18.3	19.3	18.6	18.0	18.5	17.9	17.5	18.4
70 - 74	14.8	16.7	20.9	18.0	17.6	19.6	18.6	19.6	17.9	18.7	18.4
75+	18.8	18.7	20.9	20.8	21.0	23.7	26.7	25.0	28.6	29.4	30.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

* Percentage less than 0.05

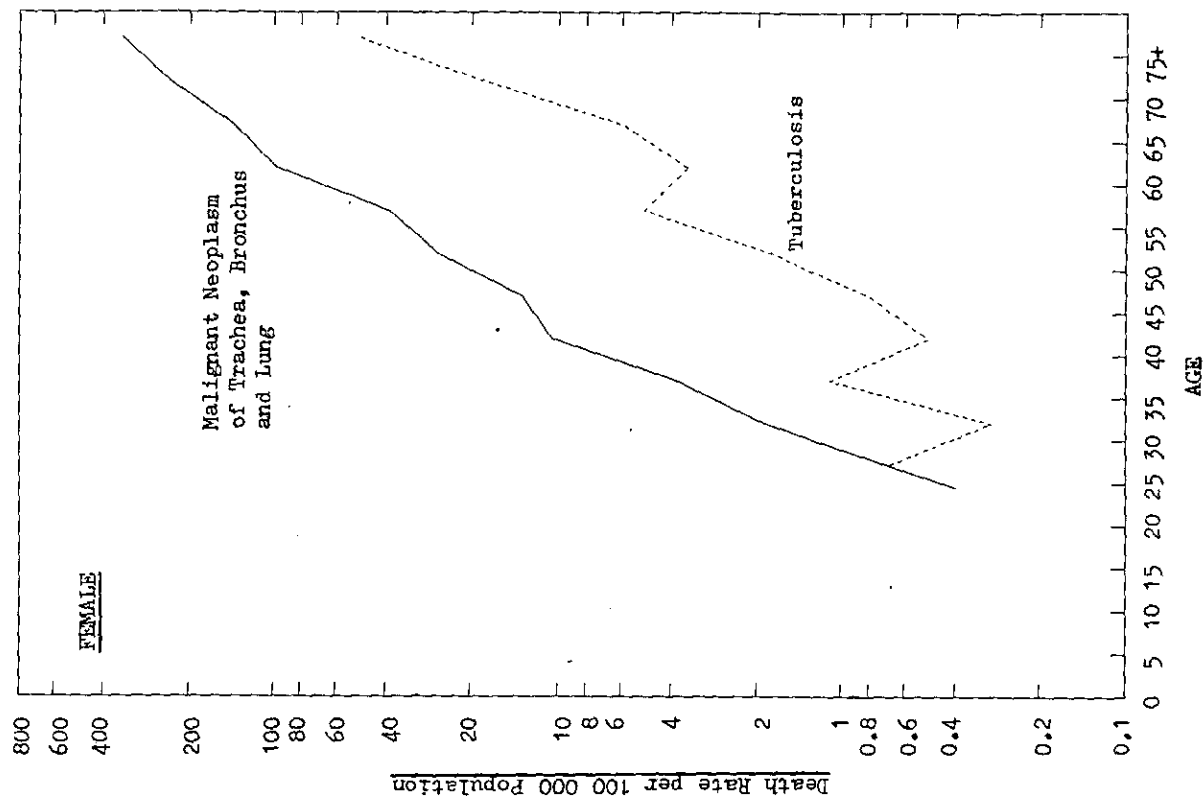
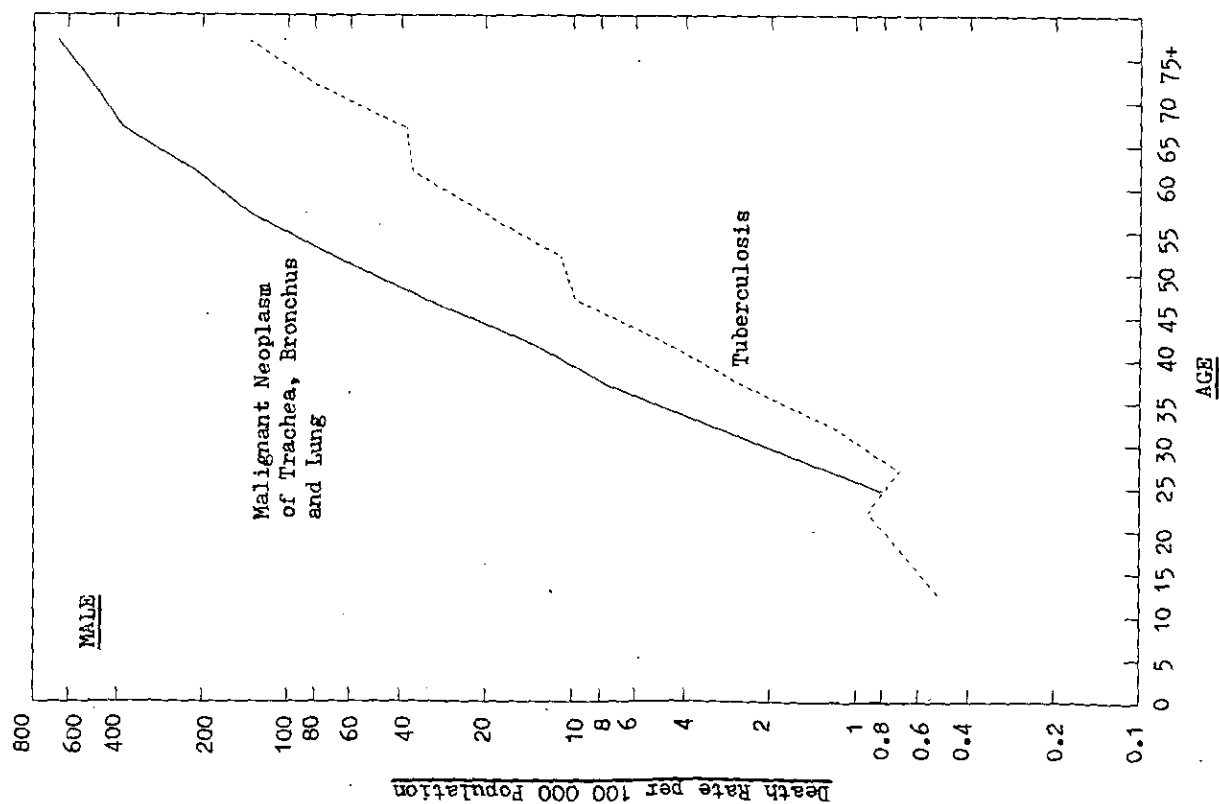
APPENDIX 6

Age-specific-death rate per 100,000 population
1977, 1982, 1987 and 1992

Age Group	1977			1982			1987			1992		
	M	F	T	M	F	T	M	F	T	M	F	T
0 - 9	-	-	-	-	0.2	0.1	-	-	-	-	-	-
10 - 19	-	-	-	-	-	-	-	-	-	-	-	-
20 - 29	0.9	0.2	0.6	0.2	0.9	0.5	0.2	0.7	0.4	0.8	0.4	0.6
30 - 34	3.6	0.9	2.4	2.1	2.5	2.5	2.5	0.8	1.7	3.1	1.9	2.5
35 - 39	8.9	3.1	6.3	7.0	4.9	6.1	5.1	5.7	5.4	7.6	3.8	5.7
40 - 44	13.1	11.8	12.5	16.2	11.7	14.3	11.7	8.6	10.3	14.1	10.5	12.4
45 - 49	42.3	17.8	30.6	43.8	23.4	34.5	40.1	15.0	28.7	32.5	13.4	23.9
50 - 54	81.1	33.8	58.1	94.0	27.9	63.0	81.5	30.1	57.7	68.5	26.4	49.7
55 - 59	159.3	71.1	115.8	151.8	58.3	106.5	150.0	41.4	98.4	136.2	39.1	91.3
60 - 64	220.4	95.9	157.1	247.1	124.7	186.0	248.9	96.6	173.2	213.2	98.4	158.3
65 - 69	396.3	160.9	265.5	338.0	163.9	246.7	382.7	158.2	266.6	381.7	139.7	258.4
70 - 74	375.9	174.6	247.9	435.6	178.9	287.0	536.0	239.1	373.0	491.7	236.1	354.3
75+	467.3	215.4	284.1	550.2	249.3	341.1	581.4	312.4	402.1	651.0	344.1	460.0
Total	39.1	23.7	31.6	46.2	27.6	37.3	55.7	31.4	43.9	60.9	33.5	47.5

APPENDIX 7

Mortality Rate of Tuberculosis and Malignant Neoplasm of Trachea, Bronchus & Lung by Age & Sex, 1992



APPENDIX 8

Deaths by age group and sex by rate
per 100,000 population, 1992

Age Group	Deaths			Rate		
	Male	Female	Total	Male	Female	Total
0 - 9	—	—	—	—	—	—
10 - 19	—	—	—	—	—	—
20 - 29	4	2	6	0.8	0.4	0.6
30 - 34	10	6	16	3.1	1.9	2.5
35 - 39	21	10	31	7.6	3.8	5.7
40 - 44	33	22	55	14.1	10.5	12.4
45 - 49	50	17	67	32.5	13.4	23.9
50 - 54	93	29	122	68.5	26.4	49.7
55 - 59	190	47	237	136.2	39.1	91.3
60 - 64	269	114	383	213.2	98.4	158.3
65 - 69	368	140	508	381.7	139.7	258.4
70 - 74	326	182	508	491.7	236.1	354.3
75+	442	385	827	651.0	344.1	460.0
Total	1,807 (1)	954	2,761 (1)	60.9	33.5	47.5

Note : Figures in brackets denote no. of deaths of unknown age included.

APPENDIX 9

Deaths and Death Rate per 100,000 population by Epidemiological Districts by place of last residence 1992

Epidemiological District	Deaths	Death Rate
<u>Hong Kong Island</u>	624	48.8
Central & Western	122	49.2
Wanchai	110	63.2
Eastern	243	41.4
Southern	149	55.6
<u>Kowloon</u>	1,163	59.7
Yau Ma Tei	93	83.0
Mong Kok	83	54.2
Sham Shui Po	257	72.8
Kowloon City	178	47.3
Wong Tai Sin	270	74.0
Kwun Tong	282	47.9
<u>New Territories</u>	952	37.9
<u>Imported</u>	—	—
<u>Marine</u>	—	—
Unknown	22	—
Total	2,761	47.5

APPENDIX 10

Deaths by place of Origin, 1992

Place of Origin	Deaths
Hong Kong	4
Canton, Macau and adjacent places	1,513
Sze Yap	467
Chiu Chau	232
Elsewhere in Kwantung Province	231
Elsewhere in China	206
Other Asian Countries	3
British	2
All Other Countries	3
Unknown	100
Total	2,761

APPENDIX 11

Deaths by Hospital/Place of death, 1992

Hospital/place of death	Cases
Queen Elizabeth	298
Kowloon	141
Princess Margaret	65
Queen Mary	144
Prince of Wales	164
Fanling	39
Kwong Wah	104
Tung Wah	40
Tung Wah Eastern	12
Sandy Bay	14
Wong Tai Sin Infirmary	114
Caritas Medical Centre	187
Alice Ho Miu Ling Nethersole	9
United Christian	55
Maryknoll	34
Hong Kong Buddhist	84
Pok Oi	58
Yan Chai	4
Nam Long	304
Grantham	118
Ruttonjee Sanatorium	130
Haven of Hope Sanatorium	131
Pine Hill	30
St Teresa's	57
Hong Kong Sanatorium & Hospital	57
St Paul	44
Canossa	4
Hong Kong Adventist Sanatorium & Hospital	4
Adventist Sanatorium & Hospital	6
Baptist	66
Hong Kong Central	6
Precious Blood	2
Matilda	1
Evangel Medical Centre	1
At home	4
Monastery/old people's home	1
Died before arrival/on arrival to hospital	131
Unknown	98
Total	2,761

APPENDIX 12

Main Causes of Death from Cancer in Hong Kong 1983 - 1992

Causes of Death Detailed List No. 9th Revision	1983		1984		1985		1986		1987		1988		1989		1990		1991		1992	
	D	R	D	R	D	R	D	R	D	R	D	R	D	R	D	R	D	R	D	R
All forms of Cancer (140 - 208)	7226	135.2	7347	136.1	7535	138.1	8054	145.8	8258	148.0	8177	145.3	8585	151.0	8669	152.0	8832	153.5	9021	155.2
Malignant Neoplasm of Nasopharynx (147)	472	8.8	449	8.3	410	7.5	438	7.9	442	7.9	442	7.9	442	7.8	421	7.4	436	7.6	432	7.4
Malignant Neoplasm of Oesophagus (150)	359	6.7	338	6.3	384	7.0	375	6.8	371	6.6	379	6.7	385	6.8	375	6.6	359	6.2	367	6.3
Malignant Neoplasm of Stomach (151)	521	9.7	448	8.3	449	8.2	552	10.0	544	9.7	504	9.0	581	10.2	559	9.8	583	10.1	559	9.6
Malignant Neoplasm of Colon (153)	401	7.5	436	8.1	448	8.2	444	8.0	510	9.1	526	9.3	565	9.9	575	10.1	585	10.2	622	10.7
Malignant Neoplasm of rectum, rectosig- moid junction and anus (154)	254	4.8	274	5.1	244	4.5	266	4.8	287	5.1	273	4.9	292	5.1	314	5.5	316	5.5	324	5.6
Malignant Neoplasm of Liver and Intrahepatic Bile Ducts (155)	1015	19.0	992	18.4	969	17.8	1054	19.1	1054	18.9	1104	19.6	1077	18.9	1102	19.3	1119	19.4	1157	19.9
Malignant Neoplasm of Trachea, Bronchus and Lung (162)	2002	37.5	2128	39.4	2223	40.7	2348	42.5	2465	44.2	2361	42.0	2592	45.6	2638	46.2	2597	45.1	2761	47.5
Malignant Neoplasm of Breast (174) *	219	8.5	250	9.6	262	9.9	243	9.1	262	9.7	260	9.5	283	10.2	277	10.0	333	11.8	333	11.7
Malignant Neoplasm of Cervix Uteri(180) *	140	5.4	127	4.9	141	5.3	150	5.6	129	4.8	124	4.5	123	4.4	130	4.7	146	5.2	136	4.8

Notes : D = Number of Deaths

R = Mortality Rate per 100,000 total population

* = Mortality Rate per 100,000 female population

APPENDIX 13

In-patients treated for Malignant Neoplasm of Trachea, Bronchus and Lung in Hospitals and all deaths in Hong Kong 1951 - 1992

Year	Number of In-patients treated (Including deaths)					All deaths in Hong Kong		
	Govt Hosp.	G-asst Hosp.	H.A. Hosp.	Private Hosp.	Total	Male	Female	Total
1951	45	25	N.A.	N.A.	70	15	5	20
1952	68	29	N.A.	N.A.	97	26	4	30
1953	85	48	N.A.	N.A.	133	25	16	41
1954	69	65	N.A.	N.A.	134	24	14	38
1955	90	87	N.A.	N.A.	177	38	18	56
1956	74	127	N.A.	N.A.	201	49	35	84
1957	77	147	N.A.	N.A.	224	51	41	92
1958	68	188	N.A.	N.A.	256	46	40	86
1959	118	191	N.A.	N.A.	309	89	48	137
1960	173	226	N.A.	N.A.	399	77	77	154
1961	184	319	N.A.	N.A.	503	99	62	161
1962	236	410	N.A.	N.A.	646	116	90	206
1963	225	560	N.A.	N.A.	785	143	92	235
1964	336	639	N.A.	N.A.	975	160	139	299
1965	385	453	N.A.	N.A.	838	225	156	381
1966	459	524	N.A.	N.A.	983	235	180	415
1967	455	645	N.A.	N.A.	1,100	239	198	437
1968	542	691	N.A.	N.A.	1,233	269	197	466
1969	564	769	N.A.	N.A.	1,333	468	319	787
1970	573	819	N.A.	N.A.	1,392	467	319	786
1971	763	962	N.A.	N.A.	1,725	534	375	909
1972	787	1,087	N.A.	N.A.	1,874	582	367	949
1973	1,078	1,243	N.A.	N.A.	2,321	634	394	1,028
1974	1,244	1,315	N.A.	N.A.	2,559	676	397	1,073
1975	1,417	1,636	N.A.	N.A.	3,053	758	474	1,232
1976	1,453	1,606	N.A.	N.A.	3,059	803	532	1,335
1977	1,503	1,867	N.A.	510	3,880	919	529	1,448
1978	1,836	2,132	N.A.	626	4,594	999	562	1,561
1979	2,262	2,452	N.A.	752	5,466	1,062	600	1,662
1980	2,421	2,722	N.A.	922	6,065	1,223	583	1,806
1981	3,008	2,523	N.A.	1,038	6,569	1,200	626	1,826
1982	3,406	2,664	N.A.	1,172	7,242	1,263	699	1,962
1983	4,083	2,760	N.A.	1,147	7,990	1,370	632	2,002
1984	4,520	3,104	N.A.	1,014	8,638	1,393	735	2,128
1985	5,027	3,157	N.A.	1,140	9,324	1,457	766	2,223
1986	5,515	3,293	N.A.	1,145	9,953	1,537	811	2,348
1987	5,463	3,294	N.A.	1,334	10,091	1,609	856	2,465
1988	5,191	3,263	N.A.	1,204	9,658	1,500	861	2,361
1989	5,265	3,774	N.A.	1,669	10,708	1,731	861	2,592
1990	5,151	3,867	N.A.	1,672	10,690	1,776	862	2,638
1991	5,089	4,262	N.A.	1,763	11,114	1,716	881	2,597
1992	N.A.	N.A.	10,077	1,593	11,670	1,807	954	2,761

PART 3

PNEUMOCONIOSIS

Contents

Appendix No.

1. Voluntary Notifications of Silicosis attending the Pneumoconiosis Clinic in Hong Kong 1956 - 1992
2. Age Distribution of Confirmed Pneumoconiosis Cases, 1992
3. Confirmed Pneumoconiosis Patients by Total Duration of Exposure to Dust when Presenting at the Pneumoconiosis Clinic, 1992
4. Confirmed Pneumoconiosis Patients by Sputum Result, 1992
5. Confirmed Pneumoconiosis Patients by Correlation between the Degree of Permanent Incapacity and the Greater Degree of Incapacity, 1992
6. Confirmed Pneumoconiosis Patients classified by Radiological Appearance, 1992
7. Confirmed Pneumoconiosis Patients by other particulars, 1992
8. Occupation Distribution of Confirmed Silicosis, 1992

APPENDIX 1

Notifications of Silicosis attending the Pneumoconiosis Clinic in Hong Kong 1956 – 1992

Year	Number Notified				Cumulative Total Compensated
	Government Workers	Non-government Workers	Total	Cumulative Total	
1956	1	—	1	1	
1957	4	4	8	9	
1958	9	13	22	31	
1959	5	7	12	43	
1960	9	6	15	58	
1961	8	—	8	66	
1962	3	1	4	70	
1963	9	5	14	84	
1964	21	17	38	122	
1965	9	4	13	135	
1966	7	9	16	151	
1967	3	6	9	160	
1968	4	2	6	166	
1969	4	10	14	180	
1970	22	36	58	238	
1971	9	18	27	265	
1972	9	29	38	303	
1973	3	39	42	345	
1974	—	97	97	442	
1975	5	84	89	531	
1976	15	252	267	798	
1977	3	216	219	1,017	
1978	12	207	219	1,236	
1979	2	210	212	1,448	
1980	12	532 *	544	1,992	386 *
1981	8	608	616	2,608	1,494
1982	4	511	515	3,123	2,068
1983	2	292	294	3,417	2,414
1984	1	231	232	3,649	2,617
1985	1	179	180	3,829	2,801
1986	3	176	179	4,008	2,998
1987	4	166	170	4,178	3,164
1988	6	172	178	4,356	3,365
1989	—	156	156	4,512	3,511
1990	2	147	149	4,661	3,631
1991	—	171	171	4,832	3,640
1992	2	171	173 #	5,005	3,830

* The Pneumoconiosis Compensation Scheme was initiated in 1980, before that notifications were voluntary.

Up to the moment that this report is being compiled, only 74 of the 173 cases notified in 1992 were confirmed Pneumoconiosis by the Pneumoconiosis Medical Board. And the following tables (Appendix 2 to Appendix 8) are compiled based on the data of these 74 cases.

APPENDIX 2

Age Distribution of Pneumoconiosis Cases 1992

Age	Number of Cases	%
25 - 29	—	—
30 - 34	—	—
35 - 39	6	8
40 - 44	8	11
45 - 49	9	12
50 - 54	15	20
55 - 59	11	15
60 - 64	8	11
65 - 69	9	12
70 - 74	3	4
75+	5	6
Total	74	100

APPENDIX 3

Pneumoconiosis Patients by Duration of Exposure to Dust 1992

Duration	Number of Cases	%
> 5 years	2	3
5 - 9	2	3
10 - 14	11	15
15 - 19	9	12
20 - 24	12	16
25 - 29	17	23
30+	21	28
Unknown	-	-
Total	74	100

APPENDIX 4

Pneumoconiosis Patients by Sputum Status of Mycobacterium TB 1992

Sputum	Number of Cases	%
Positive	11	15
Negative	63	85
N.A.	—	—
Total	74	100

APPENDIX 5

Pneumoconiosis Patients by Correlation between the Degree of Permanent Incapacity and the Greater Degree of Incapacity, 1992

Classification		Degree of Permanent Incapacity (%)															
		5	10	15	20	25	30	35	40	45	50	55	60	70	80	100	Total
Greater Degree of Incapacity (%)	Nil																-
	2.5																-
	5		58				1						1				60
	7.5																-
	10				6		2										8
	12.5																-
	15	1					3										4
	17.5																-
	20								1								1
	22.5																-
	25											1					1
	Total	1	58	-	6	-	6	-	1	-	-	1	1	-	-	-	74

APPENDIX 6

Confirmed Pneumoconiosis Patients Classified by Radiological Appearance, 1992

Type of Opacity	Profusion			Sub - Total
	1	2	3	
<u>Small opacities</u>				
<u>Rounded</u>				
p (up to 1.5 mm diameter)	8	1	—	9
q (1.5 to 3.0 mm diameter)	10	10	1	21
r (3.0 to 10.0 mm diameter)	1	3	3	7
<u>Irregular</u>				
s (fine irregular or linear)	14	1	—	15
t (medium irregular)	6	10	—	16
u (coarse irregular)	3	1	1	5
Sub - total	42	26	5	73
<u>Combined opacities</u>	1	—	—	1
<u>Large opacities</u>				
A (Single opacity 1 – 5 cm or multiple opacities > 1 cm each but sum of diameter < 5 cm				—
B (Single or multiple opacities with combined area < the equivalent of right upper zone)				—
C (Single or multiple opacities with combined area > the equivalent of right upper zone)				—
Sub - total				—
Total				74

APPENDIX 7

Confirmed Pneumoconiosis Patients by Other Particulars 1992

Characteristics		Number of Cases	%
Smoking	Smoker/Ex-smoker	66	89
	Non-smoker	5	7
	Unknown	3	4
	Total	74	100
Still exposed to dust when seen by the Pneumoconiosis Clinic	Yes	19	26
	No	55	74
	Unknown	—	—
	Total	74	100
General Condition	Good	72	97
	Fair	2	3
	Poor	—	—
	Total	74	100

APPENDIX 8

Occupation Distribution of Confirmed Silicosis 1992

Type of occupation *	Number of Cases	%
Construction	50	67.6
Construction/Quarry	24	32.4
Total	74	100

* The figure denotes the principal job of patient who in fact may undertake more than one type of occupation.

