

ANNUAL REPORT 1991

CHEST SERVICE

OF THE

GOVERNMENT DEPARTMENT OF

HEALTH

ANNUAL REPORT 1991
CHEST SERVICE
OF THE
DEPARTMENT OF HEALTH

Preface

1991 marked a great and significant change in the organization, administration and operation of the Hong Kong Tuberculosis and Chest Service. Despite the recommendations made by the two overseas consultants, Professor Wallace Fox and Professor Stewart Kilpatrick of the United Kingdom and the working group on their report that it is essential to preserve the continuity of management, both of outpatients and inpatients, and of tuberculosis as well as non-tuberculosis respiratory diseases, and to avoid any division in responsibility between the Hospital Authority and the Department of Health, the Tuberculosis and Chest Service was reorganized in such a way resulting in complete splitting of the hospital chest units from the chest clinics. All the hospital beds were put under the management and administration of the Hospital Authority and all the chest clinics together with their chest x-ray units and the BCG clinic under the Department of Health. 3 consultant chest physicians, 7 senior medical officers and 17 medical officers were absorbed into the hospital staff team of the Hospital Authority and 1 consultant chest physician, 5 senior medical officers and 19 medical officers were kept in the Department of Health with or without their willingness to stay. This caused much unhappiness among the senior staff staying in the clinics. The Hospital Authority officially took over the 38 public hospitals from 1st December 1991. Although patients can still be admitted directly into the hospitals with chest beds, the hospital teams set their own admission criteria and time thus some inconveniences have been caused. The straightforward and uncomplicated cases after discharge are referred back to the chest clinics for follow up but the more interesting or complicated cases are followed up by the hospital teams themselves. The clinic doctors have no access to hospitals for clinical practice or training. There is no continued care of inpatients and outpatients except for those patients being followed up by the hospital teams. The consultant chest physician in charge staying in the Department of Health was given no appointment in the hospital despite the recommendation by the two overseas professors that this person in post should have a dual appointment in both the Hospital Authority and the Department of Health in order to maintain the unity and uniformity of the Chest Service on which the success of the Chest Service was based. Coordination between the hospital chest units and the Chest Service was through individual head of different chest units and the consultant chest physician taking charge of the Chest Service but not in the same way as used to be. Neither the Tuberculosis Co-ordinating Committee to deal with all matters related to tuberculosis, nor the tuberculosis research centre had been formed as recommended by the two overseas professors.

The Tuberculosis and Chest Service, no matter how it had been reorganized, had to survive and continued to play effectively its major role in the prevention and control of tuberculosis through the provision of BCG vaccination, ambulatory antituberculosis treatment, contact examination, health education and to carry out research programme although not in a large scale.

During the year, 86,202 patients attended the government chest service compared with 89,021 in 1990, the total attendance was 718,958 compared with 728,510 in 1990. Of the 86,202 patients, 35,855 patients were new attendants of whom 44.5% were found free of any chest disease. The most common respiratory illness diagnosed were respiratory tuberculosis (12.4%), pneumonia (3.9%), bronchiectasis (1.7%), malignant neoplasm of trachea and bronchus (2.7%), bronchitis (4.9%), asthma (0.5%) and emphysema (0.4%). Of the attending patients, 5,056 required hospital admission.

Part I: Tuberculosis

The tuberculosis notifications in 1991 was 6,283 making a notification rate of 109.2 per 100,000 population, the corresponding figures in 1990 were 6,510 and 114.1. The reduction in notification was about 3%.

The tuberculosis deaths increased from 382 in 1990 to 409 in 1991 and the mortality rate therefore from 6.6 to 7.1 per 100,000 population. However the total number was small so the difference may not be significant. Certainly the death rate had to be closely observed.

Tuberculosis was still in the ninth position of the 10 leading causes of death and tuberculosis deaths accounted for 1.4% of the total registered deaths in Hong Kong. There was no infant death in 1991 and the average age of death was 69.

In 1991, 99.3% of the new-borns were BCG vaccinated at birth and 68.2% 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 being aware. The special medical consultation service for AIDS had already found tuberculosis in some HIV infected persons and treated them. Unfortunately most of these cases were not notified to the Chest Service for any appropriate action for the sake of keeping confidentiality. Test for HIV infection among tuberculosis patients was only done on voluntary basis with patient's consent.

Part II: Malignant neoplasm of trachea, bronchus and lung

In 1991, the number of inpatients suffering from malignant disease of trachea, bronchus and lung were 11,114 compared with 10,690 in 1990. 2,597 were certified deaths from malignant neoplasm of bronchus and the crude death rate of the disease was 45.1 per 100,000 population. The corresponding figures in 1990 were 2,638 and 45.5. Lung remained a serious problem. Intensive anti-smoking campaign and activities need to be maintained.

Part III: Pneumoconiosis

It was questioned that the sufferers of pneumoconiosis were undercompensated. The method of medical assessment and the way of compensation had been under review. Although 171 cases of silicosis were registered in the Chest Service in 1991, only 8 cases including 5 cases of reassessment were assessed by the medical board and compensated. Up to the end of 1991, a total of 3,640 patients were compensated with \$188,848,813.

PART 1

TUBERCULOSIS

Contents

Appendix No.

1. Tuberculosis notifications and notification rates, 1939 - 1991
2. Origin of Tuberculosis notifications, 1980 - 1991
3. Tuberculosis notifications by districts 1955 - 1991
4. Tuberculosis notifications and notification rates by Epidemiological Districts 1990 & 1991
5. Tuberculosis notifications (All forms) by age and sex 1981, 1990 & 1991
6. Notifications of Tuberculosis of Respiratory System (010 - 012) by age and sex 1981, 1990 & 1991
7. Notifications of Tuberculosis of Meninges (013) by age and sex 1981, 1990 & 1991
8. Notifications of Tuberculosis of Bones & Joints (015) by age and sex 1981, 1990 & 1991
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, 1981, 1990 & 1991
10. Tuberculosis notification rates by age and sex 1981, 1990 & 1991
11. TB notification rate by age and sex, 1981, 1990 & 1991(Graph)
12. Forecast of Tuberculosis notificationsrate(Graph)
13. Forecast of Tuberculosis notifications
14. Tuberculosis notification rate (All forms) 1952 - 1991(Graph)
15. Tuberculosis deaths, 1900 - 1991
16. Notification/Death ratio of Tuberculosis (All forms) 1946 - 1991
17. Tuberculosis mortality, 1949 - 1991
18. Infant mortality, rates (All causes and Tuberculosis) and BCG vaccination of newborns (Graph) 1952 - 1991
19. Sex ratio of deaths due to Tuberculosis (All forms) 1952 - 1991
20. Tuberculosis deaths (All forms) by age and sex 1981, 1990 & 1991

21. Tuberculosis deaths of Respiratory System (010 - 012) by age and sex 1981, 1990 & 1991
22. Tuberculosis deaths of Meninges (013) by age and sex, 1981, 1990 & 1991
23. Tuberculosis deaths of Bones and Joints (015) by age and sex 1981, 1990 & 1991
24. Tuberculosis deaths of all forms other than Respiratory System, Meninges, Bones and Joints (014, 016 - 018 & 137) by age and sex 1981, 1990 & 1991
25. Tuberculosis Death Rate by age and sex 1981, 1990 & 1991
26. Tuberculosis Mortality Rate by age and sex, 1981, 1990 & 1991 (Graph)
27. Crude Death Rate due to Tuberculosis (All forms) 1910 - 1991 (Graph)
28. Crude annual death rate for Hong Kong, 1955 - 1991 (Graph)
29. TB Crude Death Rate and Standardised Death Rate 1981 - 1991 (Graph)
30. Tuberculosis notification rate and death rate, 1951 - 1991 (Graph)
31. Forecast of Tuberculosis Mortality Rate (Graph)
32. Forecast of Tuberculosis deaths
33. Top ten causes of death, 1991
34. New attendances at Medical Examination Board, 1990 & 1991
35. Scheme for Tuberculin Testing and BCG administration in Hong Kong, 1991
36. BCG vaccination of newborns, 1951 - 1991
37. BCG vaccination at birth, 1991
38. Apparent reasons for newborns not being vaccinated with BCG 1991
39. Percentage of babies receiving BCG by vaccination methods, 1970 - 1991
40. Tuberculin Test and BCG vaccination of school children 1962 - 1991
41. Examination of new contacts, 1988 - 1991
42. Monthly first attendances at Government Chest Clinics 1990 & 1991 (Graph)
43. Treatment return 1991

44. Annual admissions to hospitals from Government Chest Clinics 1957 - 1991
45. Hospital admissions 1990 & 1991
46. Hospital admission/discharge summary 1991
47. Total number of sputum smears, cultures and sensitivity test carried out by the Government Pathological Institute for all agencies, 1984 - 1991
48. Number of Doctor-sessions and Cases seen by doctors 1990 & 1991
49. Beds for Treatment of Tuberculosis 1991
50. Beds for Treatment of Tuberculosis 1968 - 1991
51. Work done by Medical Social Workers of Chest Clinics 1981 - 1991
52. First visits to Chest Clinics, 1981 - 1991
53. Total attendances at Chest Clinics, 1981 - 1991
54. Classification of new patients attending Government Chest Clinics 1991
55. Diseases reported to Chest Clinics classified according to International Classification of Diseases Codes, 1991
56. Extent of Active Respiratory Tuberculosis in first attenders at Chest Clinics, 1983 - 1991
57. Flow Chart of Patients attending Chest Clinics, 1991
58. Chest X-ray 1990 & 1991
59. Cost of Anti-Tuberculosis Drugs, 1991
60. Staff of the Chest Service as at 31.12.1991
61. Annual expenditure on Chest Service, 1991/92
62. Subvention to Tuberculosis hospitals and hospitals with Tuberculosis beds 1991/92

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	(war)
1947	4,855	180.7
1948	6,279	277.4
1949	7,510	348.8
1950	9,067	404.4
1951	13,886	405.3
1952	14,821	689.0
1953	11,900	697.2
1954	12,508	530.7
1955	14,148	528.9
1956	12,155	568.1
1957	13,665	464.9
1958	13,485	499.4
1959	14,302	472.5
1960	12,425	482.0
1961	12,584	404.0
1962	14,263	397.2
1963	13,031	431.5
1964	12,557	380.9
1965	9,927	358.3
1966	11,427	275.9
1967	15,253	314.8
1968	9,792	409.7
1969	11,072	257.5
1970	10,077	286.5
1971	9,028	254.5
1972	8,420	223.2
1973	8,152	204.2
1974	8,320	192.2
1975	8,192	190.1
1976	7,928	183.6
1977	7,191	175.5
1978	6,623	156.9
1979	7,907(498)*	141.9
1980	8,065(712)	160.4
1981	7,729(254)	159.3
1982	7,527(112)	149.1
1983	7,301(73)	143.0
1984	7,843(69)	136.6
1985	7,545(59) 580#	145.3
1986	7,432(46) 544	138.3
1987	7,269(41) 495	134.5
1988	7,021(121) 433	130.3
1989	6,704(226) 387	124.8
1990	6,510(288) 341	117.9
1991	6,283(281) 293	114.1
		109.2

* 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

1980 - 1991

Origin	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
East Kowloon Chest Clinic	947	763	551	567	597	393	358	371	338	293	311	269
Kowloon Chest Clinic	1054	1086	990	834	1168	1191	1275	1149	1191	1227	1218	1117
Kwai Chung Chest Clinic	591	558	570	542	617	601	594	584	504	478	490	515
Sai Ying Pun Chest Clinic	361	437	365	454	350	357	324	286	231	262	259	245
Shaokwan Chest Clinic	194	258	240	232	187	199	211	165	138	131	150	141
Shek Kip Mei Chest Clinic	800	519	461	436	477	497	392	346	320	357	331	352
Panchai Chest Clinic	467	561	589	506	713	648	627	629	771	729	643	580
Yauwati Chest Clinic	522	530	529	510	629	552	447	367	330	370	332	264
NT Chest Clinic	292	224	264	262	224	255	436	481	449	406	422	402
Yan Oi Chest Clinic (d)	-	-	104	166	214	219	225	202	190	226	282	330
Yung Fung Shee Chest Clinic (e)	-	-	-	-	20	206	207	174	163	206	226	238
	5228	4936	4663	4509	5196	5118	5096	4754	4625	4685	4664	4453
Other Govt Institutions (a)	584	472	594	634	506	432	577	493	464	374	466	463
Tung Wah Group (b)	252	328	314	385	319	394	254	309	274	240	218	238
Caritas Medical Centre	2	9	5	8	12	7	3	5	7	8	13	8
Ruttonjee Sanatorium	654	728	773	743	831	651	626	744	792	651	544	493
Maryknoll Hospital	131	109	92	102	93	96	89	91	105	63	79	50
Grantham Hospital	324	443	347	324	340	335	227	379	384	347	323	423
Haven of Hope Sanatorium	411	367	385	370	353	288	235	174	165	158	88	51
United Christian Hospital	24	12	14	17	29	16	26	11	26	13	33	24
Others (c)	455	327	340	209	164	208	299	309	179	165	82	80
Total	8065	7729	7527	7301	7843	7545	7432	7269	7021	6704	6510	6283
% of cases from Chest Clinics among the total	64.8	63.9	62.0	61.8	66.3	67.8	68.6	65.4	65.9	69.9	71.6	70.9

Note : (a) Sources are from 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 - 1991

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	3,138	2,308	544	10,253
1968	2,373	5,382	1,485	52	9,792
1969	2,650	6,560	1,320	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	4,374	1,531	63	8,120
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(134.3)
1987	1,649(132.7)	3,329(143.9)	2,278(111.2)	13	7,269(129.5)
1988	1,553(123.1)	3,163(138.7)	2,298(106.5)	7	7,021(123.6)
1989	1,489(112.3)	2,912(131.8)	2,289(94.7)	14	6,704(116.4)
1990	1,367(107.1)	2,719(128.5)	2,122(91.4)	14	6,510(112.2)
1991	1,382(110.4)	2,466(121.0)	2,136(89.6)	17	6,283(109.2)

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

APPENDIX 4

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

1990 - 1991

Epidemiological Districts	1990		1991	
	Notification	Notification Rate	Notification	Notification Rate
<u>Hong Kong Island</u>	1367	107.1	1382	110.1
Central & Western	294	108.9	297	116.9
Wanchai	225	116.0	240	132.6
Eastern	584	105.8	597	106.2
Southern	264	101.2	248	96.1
Boats	-	-	-	-
<u>Kowloon</u>	2719	128.5	2466	121.0
Yau Ma Tei	216	155.4	189	168.8
Mong Kok	260	145.3	214	125.1
Sham Shui Po	526	133.2	489	128.0
Kowloon City	408	101.5	413	102.2
Wong Tai Sin	527	137.6	465	119.9
Kwun Tong	782	126.5	696	120.0
Boats	-	-	-	-
<u>New Territories (East)</u>	909	91.7	840	79.6
Northern	151	90.4	135	81.3
Tai Po	171	96.6	156	76.9
Shatin	423	86.0	384	75.6
Sai Kung	112	102.8	117	89.3
Islands	52	100.0	48	100.0
Boats	-	-	-	-
<u>New Territories (West)</u>	1213	91.6	1296	97.6
Tsuen Wan	241	84.6	252	92.3
Kwai Chung & Tsing Yi	487	113.5	492	111.3
Tuen Mun	269	70.1	327	85.6
Yuen Long	216	95.2	225	97.4
Boats	-	-	-	-
<u>Others</u>	302		299	
Imported	-		1	
Vietnamese Refugees	288		281	
Unknown	14		17	
Total	6510	112.2	6283	109.2

APPENDIX 5

Tuberculosis Notification (All Forms) by Age and Sex

1981, 1990 & 1991

Age Group	1981			1990			1991		
	M	F	T	M	F	T	M	F	T
Under 1	15	4	19	1	3	4	-	2	2
1	9	6	15	5	4	9	2	-	2
2	8	2	10	1	5	6	3	1	4
3	7	4	11	8	3	11	6	3	9
4	4	4	8	3	5	8	4	-	4
5 - 9	37	16	53	15	11	26	13	8	21
10-14	45	53	98	33	29	62	21	25	46
15 - 19	392	279	671	217	197	414	201	137	338
20 - 24	831	534	1365	333	279	612	286	250	536
25 - 29	574	339	913	392	293	685	351	285	636
30-34	386	192	578	433	272	705	403	250	653
35 - 39	262	89	351	286	153	439	324	196	520
40 - 44	304	84	388	288	114	402	290	118	408
45 - 49	393	89	482	222	49	271	236	70	306
50 - 54	495	119	614	374	97	471	311	70	381
55 - 59	474	109	583	415	83	498	404	84	488
60 - 64	426	123	549	444	63	507	426	102	528
65 - 69	346	103	449	399	91	490	414	93	507
70 - 74	229	75	304	331	86	417	312	86	398
75-- 79	118	58	176	204	67	271	222	72	294
80 - 84	29	36	65	78	47	125	85	47	132
85 & over	12	13	25	40	37	77	38	32	70
Unknown	1	1	2	-	-	-	-	-	-
Total	5397	2332	7729	4522	1988	6510	4352	1931	6283

APPENDIX 6

Notification of Tuberculosis of

Respiratory System (010 - 012) by Age and Sex

1981, 1990 & 1991

Age Group	1981			1990			1991		
	M	F	T	M	F	T	M	F	T
Under 1	4	2	6	1	3	4	-	2	2
1	6	3	9	4	3	7	2	-	2
2	6	2	8	-	5	5	2	1	3
3	3	2	5	4	2	6	3	3	6
4	2	2	4	2	2	4	3	-	3
5 - 9	28	11	39	12	7	19	7	5	12
10 - 14	39	47	86	21	26	47	15	21	36
15 - 19	381	255	636	209	178	387	189	125	314
20 - 24	805	494	1299	319	246	565	276	220	496
25 - 29	549	308	857	369	264	633	333	251	584
30 - 34	372	169	541	404	238	642	380	208	588
35 - 39	247	75	322	270	129	399	304	164	468
40 - 44	299	76	375	278	94	372	275	95	370
45 - 49	389	77	466	214	43	257	229	55	284
50 - 54	489	106	595	357	81	438	306	57	363
55 - 59	468	96	564	396	68	464	398	72	470
60 - 64	421	117	538	433	58	491	419	88	507
65 - 69	341	96	437	387	80	467	405	89	494
70 - 74	224	73	297	324	82	406	307	81	388
75 - 79	114	57	171	204	63	267	212	70	282
80 - 84	29	36	65	76	45	121	82	45	127
85+	12	13	25	40	35	75	37	30	67
Unknown	1	1	2	-	-	-	-	-	-
Total	5229	2118	7347	4324	1752	6076	4184	1682	5866

APPENDIX 7

Notifications of Tuberculosis of Meninges (013)
by Age and Sex

1981, 1990 & 1991

Age Group	1981			1990			1991		
	M	F	T	M	F	T	M	F	T
Under 1	-	1	1	-	-	-	-	-	-
1	1	2	3	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	2	1	3	1	1	2	1	-	1
4	-	-	-	1	1	2	-	-	-
5 - 9	3	-	3	-	1	1	2	-	2
10 - 14	1	-	1	-	-	-	-	-	-
15 - 19	-	1	1	-	-	-	1	-	1
20 - 24	1	1	2	1	1	2	-	-	-
25 - 29	2	-	2	2	-	2	-	1	1
30 - 34	-	-	-	2	-	2	-	2	2
35 - 39	-	-	-	-	-	-	2	2	4
40 - 44	-	-	-	-	-	-	2	1	3
45 - 49	-	-	-	-	-	-	1	-	1
50 - 54	2	1	3	1	1	2	-	-	-
55 - 59	-	-	-	-	1	1	-	1	1
60 - 64	-	-	-	1	-	1	-	-	-
65 - 69	-	1	1	-	-	-	1	-	1
70 - 74	-	1	1	2	-	2	-	-	-
75 - 79	-	-	-	-	-	-	1	-	1
80 - 84	-	-	-	-	-	-	-	-	-
85+	-	-	-	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	-	-	-
Total	12	9	21	11	6	17	11	7	18

APPENDIX 8

Notifications of Tuberculosis of Bones & Joints (015)
by Age and Sex

1981, 1990 & 1991

Age Group	1981			1990			1991		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	1	-	1	-	-	-	-	-	-
2	1	-	1	-	-	-	-	-	-
3	-	1	1	-	-	-	-	-	-
4	1	2	3	-	-	-	-	-	-
5 - 9	2	1	3	-	-	-	-	-	-
10 - 14	-	-	-	2	-	2	1	-	1
15 - 19	-	-	-	1	1	2	1	-	1
20 - 24	5	3	8	1	-	1	-	-	-
25 - 29	-	3	3	2	4	6	3	1	4
30 - 34	2	1	3	1	-	1	1	2	3
35 - 39	-	-	-	3	-	3	3	2	5
40 - 44	1	1	2	-	2	2	1	-	1
45 - 49	1	1	2	1	-	1	-	1	1
50 - 54	1	3	4	2	1	3	1	1	2
55 - 59	2	4	6	4	-	4	1	-	1
60 - 64	1	1	2	2	-	2	2	1	3
65 - 69	1	3	4	4	2	6	1	2	3
70 - 74	1	-	1	1	-	1	-	1	1
75 - 79	3	-	3	-	1	1	1	1	2
80 - 84	-	-	-	-	-	-	-	-	-
85+	-	-	-	-	-	-	-	1	1
Unknown	-	-	-	-	-	-	-	-	-
Total	23	24	47	24	11	35	16	13	29

APPENDIX 9

Notificatio~~ns~~ of Tuberculosis All Forms other than
Tuberculosis of Respiratory System, Meninges,
Bones and Joints (014, 016 - 018 & 137)
by Age and Sex

1981, 1990 & 1991

Age Group	1981			1990			1991		
	M	F	T	M	F	T	M	F	T
Under 1	11	1	12	-	-	-	-	-	-
1	2	-	2	11	11	2	4	-	-
2	1	-	1	-	1	1	1	-	1
3	2	-	2	3	-	3	2	-	2
4	1	-	1	-	2	2	1	-	1
5 - 9	4	4	8	3	3	6	4	3	7
10 - 14	5	6	11	10	13	13	5	4	9
15 - 19	11	23	34	7	18	25	10	12	22
20 - 24	20	36	56	12	32	44	10	30	40
25 - 29	22	29	51	19	25	44	15	32	47
30 - 34	12	22	34	26	34	60	22	38	60
35 - 39	15	14	29	13	24	37	15	28	43
40 - 44	4	7	11	10	18	28	12	22	34
45 - 49	3	11	14	7	6	13	6	14	20
50 - 54	3	9	12	14	14	28	4	12	16
55 - 59	4	9	13	15	14	29	5	11	16
60 - 64	4	5	9	8	5	13	5	13	18
65 - 69	4	3	7	8	9	17	7	22	9
70 - 74	4	1	5	4	4	8	5	4	9
75 - 79	1	1	2	-	3	3	8	1	9
80 - 84	-	-	-	2	2	4	3	2	5
85+	-	-	-	-	2	2	1	1	2
Unknown	-	-	-	-	-	-	-	-	-
Total	133	181	314	163	219	382	141	229	370*

* Including :	TB Lymph Node	200	TB Liver	2
	TB Kidney/Urinary System	25	TB Laryngitis	3
	TB Peritonitis	3	Miliary TB	5
	TB Pericarditis	3	Unspecified	127
	TB Skin	2		

Appendix 10

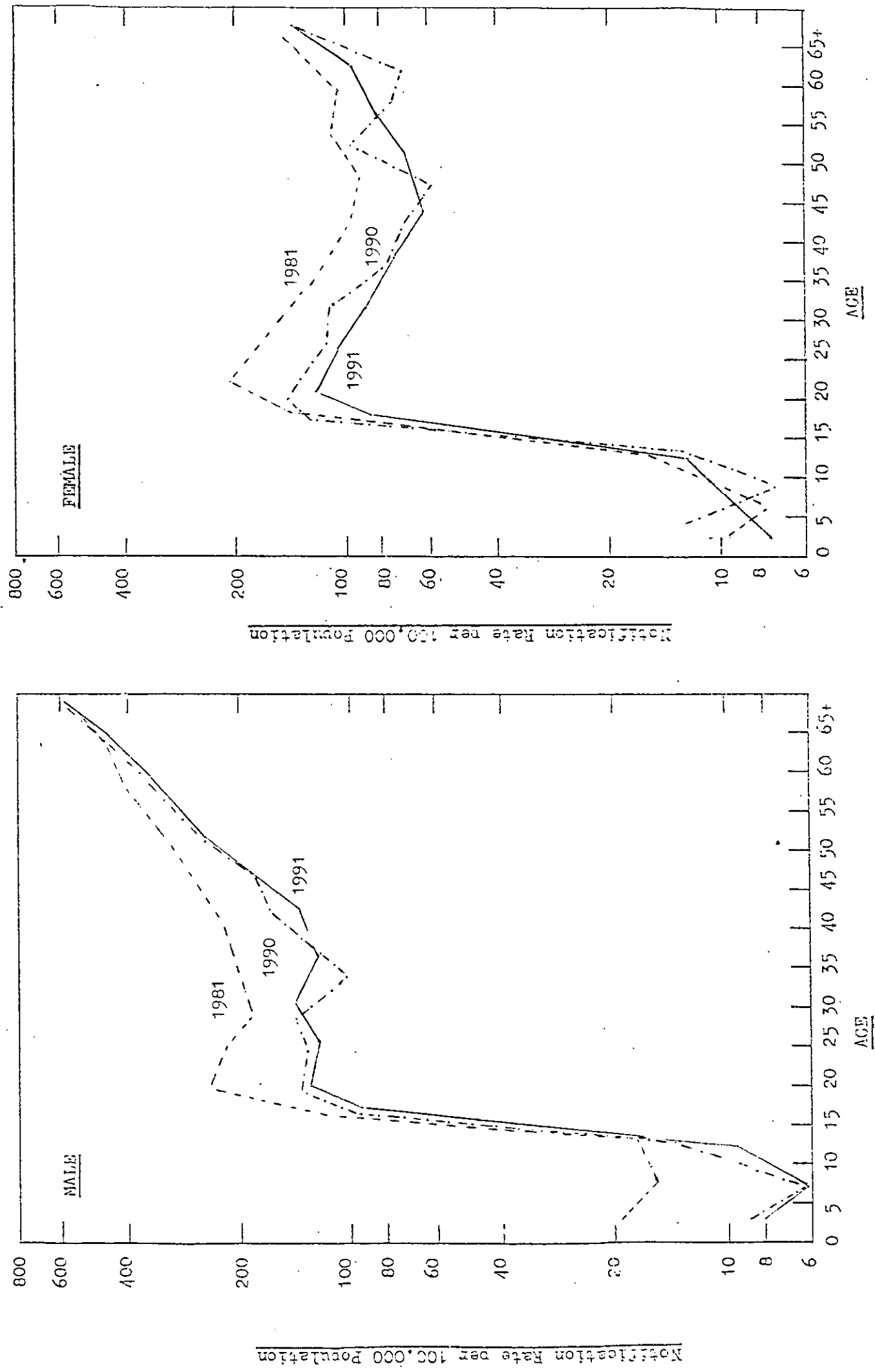
Tuberculosis Notification Rate by Age & Sex
(per 100,000 population)

1981, 1990 & 1991

Age Group	1981			1990*			1991		
	M	F	T	M	F	T	M	F	T
0 - 4	20.1	10.0	15.2	9.2	11.6	10.1	7.9	3.4	3.7
5 - 9	17.2	8.0	12.3	6.8	5.4	6.1	6.1	4.0	5.1
10 - 14	19.6	24.6	22.0	14.9	14.3	14.6	9.5	12.3	10.3
15 - 19	132.6	101.0	117.3	93.9	94.7	95.3	89.8	66.6	78.7
20 - 24	261.2	187.1	225.4	141.7	123.0	132.5	125.4	111.0	118.2
25 - 29	212.9	145.4	181.0	129.7	96.0	112.8	119.5	94.9	107.1
30 - 34	167.5	101.3	137.9	139.0	91.3	115.9	127.3	81.4	104.7
35 - 39	184.6	32.9	140.3	111.7	64.1	88.7	121.9	78.3	100.3
40 - 44	209.4	75.0	150.9	130.1	62.7	103.0	129.7	59.7	96.9
45 - 49	268.3	72.8	179.4	167.4	45.3	113.1	167.9	61.4	120.2
50 - 54	351.3	96.5	232.4	264.3	32.3	181.6	223.3	61.1	150.1
55 - 59	416.9	102.5	265.0	297.1	67.2	189.2	289.2	68.7	186.3
60 - 64	454.6	133.1	295.0	366.3	54.7	214.5	342.4	87.2	218.7
65 - 69	508.8	136.2	312.7	443.3	95.3	264.2	445.2	94.8	265.3
70 - 74	573.9	132.7	315.4	532.2	117.3	307.7	486.0	114.2	285.3
75+	514.5	151.9	262.2	541.2	147.6	292.3	542.5	141.9	291.8
TOTAL	200.4	94.8	150.0	154.8	71.4	114.1	147.9	68.7	109.2

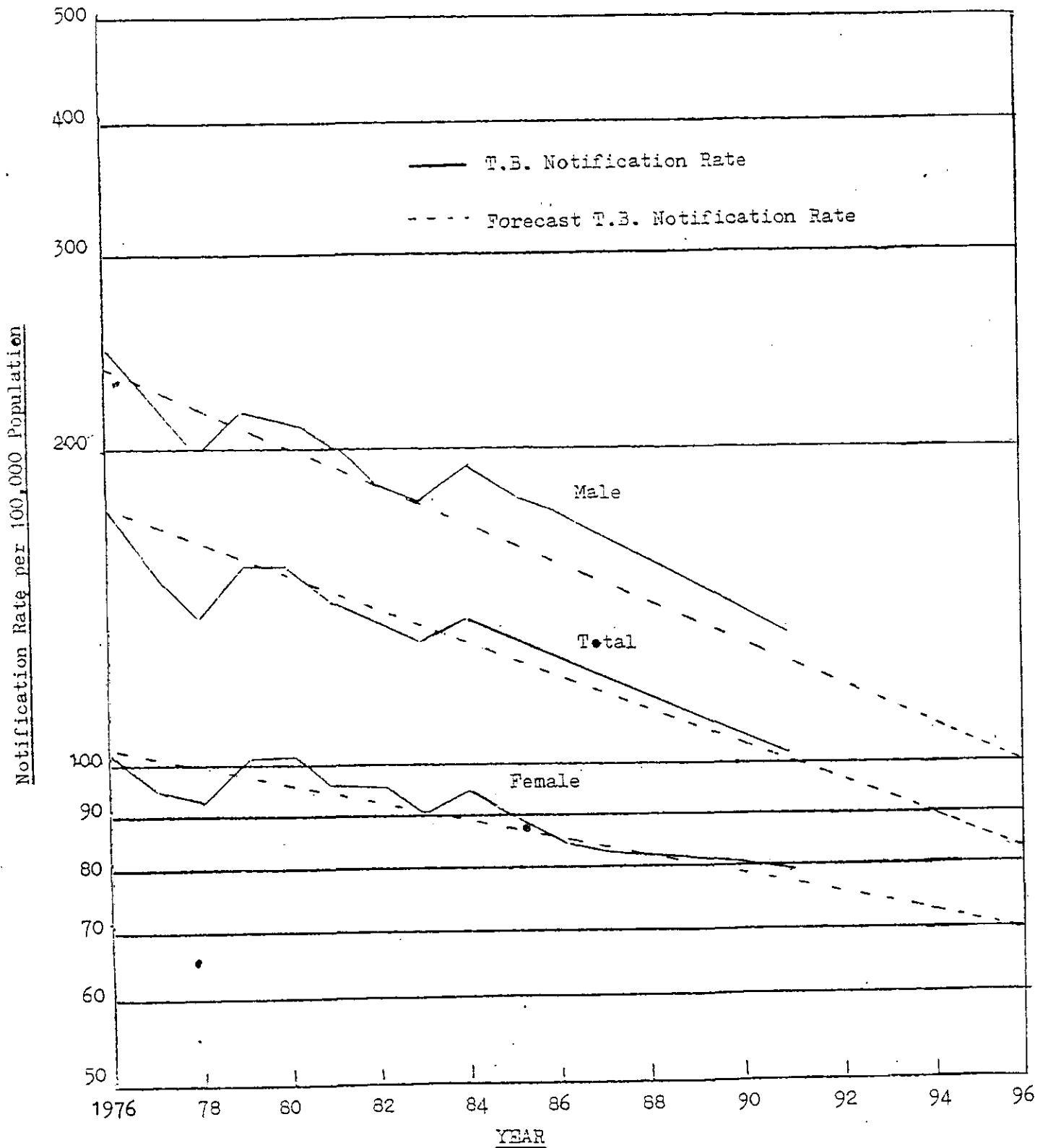
* Rates based on revised population estimates after 1991 Census.

T.B. Notification Rate by Age & Sex 1981, 1990 & 1991



APPENDIX 12

Forecast of T.B. Notification Rate



APPENDIX 13

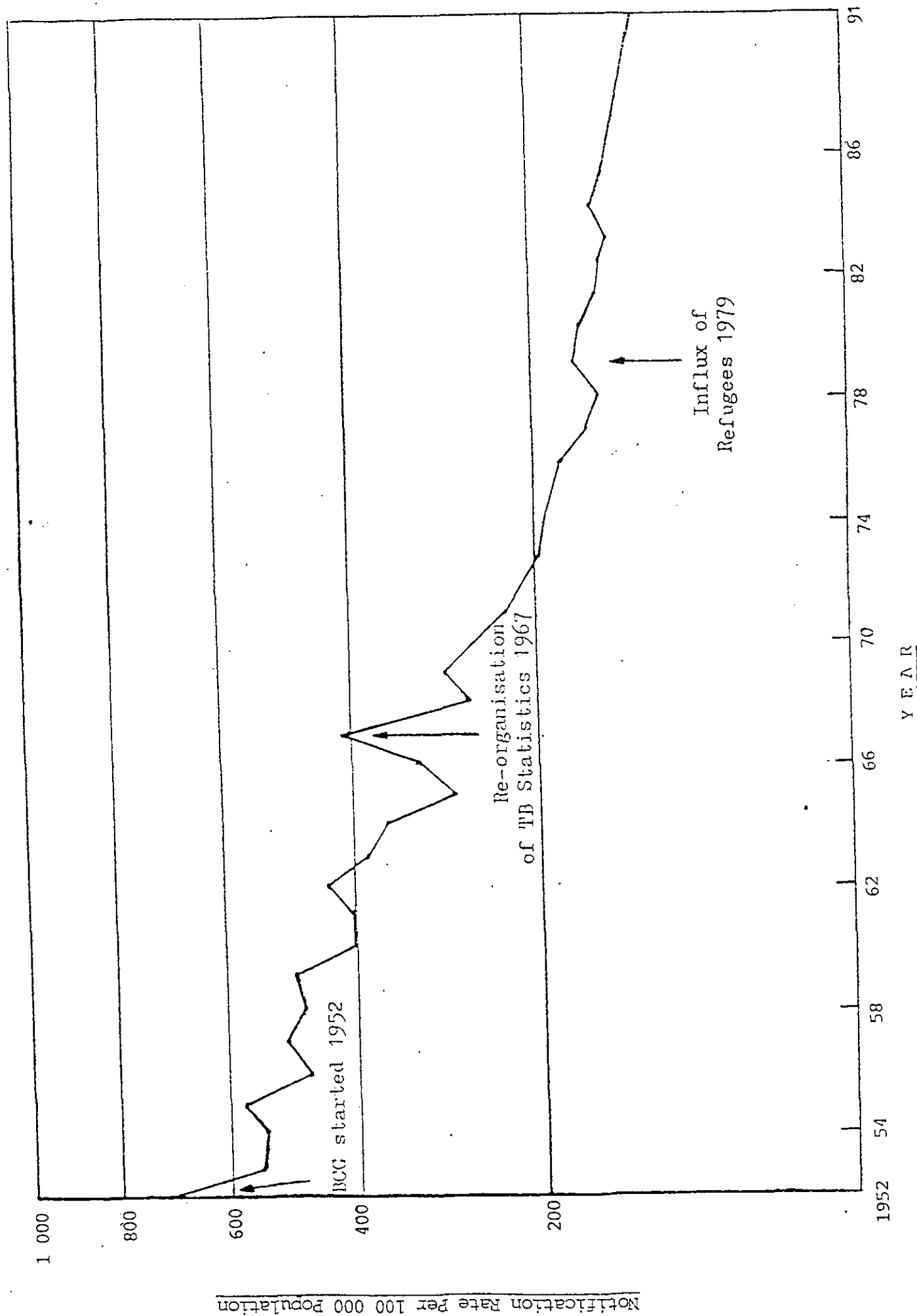
Forecast of T.B. Notifications

Year	Notifications
1991	6,310
1992	6,090
1993	5,890
1994	5,690
1995	5,490
1996	5,310

(based on annual reduction rate of 3.4%)

Amendment made for the 1990 Annual Report

APPENDIX 14
TB Notification Rate (All Forms) 1952 - 1991



APPENDIX 15

Tuberculosis Deaths

1900 - 1991

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	1946	1,752	109.5
1901	695	220	1947	1,861	106.3
1902	712	240	1948	1,961	108.9
1903	632	190	1949	2,611	140.6
1904	524	150	1950	3,263	145.9
1905	725	190	1951	4,190	207.9
1906	817	260	1952	3,573	168.1
1907	669	210	1953	2,939	131.1
1908	769	230	1954	2,876	121.6
1909	773	230	1955	2,810	112.8
1910	780	230	1956	2,629	100.6
1911	775	212	1957	2,675	97.8
1912	786	210	1958	2,302	80.7
1913	914	230	1959	2,178	73.4
1914	769	290	1960	2,085	67.8
1915	819	180	1961	1,907	60.2
1916	963	180	1962	1,881	56.9
1917	877	160	1963	1,762	51.5
1918	1,065	190	1964	1,441	41.1
1919		(war)	1965	1,278	35.5
1920	2,082	321.2	1966	1,515	41.7
1921	1,894	303.1	1967	1,493	40.1
1922	2,096	328.3	1968	1,483	39.0
1923	2,108	315.6	1969	1,470	38.0
1924	2,358	339.0	1970	1,436	36.3
1925	2,291	315.9	1971	1,250	30.9
1926	1,912	269.2	1972	1,312	31.8
1927	2,123	286.7	1973	1,154	27.2
1928	2,537	330.9	1974	974	22.3
1929	2,158	268.7	1975	646	14.5
1930	1,994	237.7	1976	568	12.6
1931	1,983	235.9	1977	532	11.6
1932	2,042	226.6	1978	420	9.0
1933	2,225	241.2	1979	523	10.6
1934	2,179	230.7	1980	551	10.9
1935	2,237	231.5	1981	489	9.4
1936	2,416	244.5	1982	454	8.6
1937	4,028	314.2	1983	446	8.3
1938	4,920	332.7	1984	420	7.8
1939	4,443	253.8	1985	409	7.5
1940		(war)	1986	407	7.4
1941		(war)	1987	405	7.3
1942		(war)	1988	388	6.9
1943		(war)	1989	403	7.1
1944		(war)	1990	382	6.7
1945		(war)	1991	409	7.1

APPENDIX 16

Notification/Death Ratio of Tuberculosis (All Forms)

1946 - 1991

Year	T.B. Notifications	T.B. Deaths	Ratio (Notifications/ Deaths	$\frac{\text{Deaths}}{\text{Notifications}} \times 100\%$
1946	2,801	1,752	1.60	62.54
1947	4,855	1,861	2.61	38.53
1948	6,279	1,961	3.20	31.23
1949	7,510	2,611	2.88	34.76
1950	9,067	3,263	2.78	35.98
1951	13,886	4,190	3.31	30.17
1952	14,821	3,573	4.15	24.10
1953	11,900	2,939	4.05	24.69
1954	12,508	2,876	4.35	22.99
1955	14,148	2,810	5.03	19.89
1956	12,155	2,629	4.62	21.62
1957	13,665	2,675	5.11	19.57
1958	13,485	2,302	5.86	17.07
1959	14,302	2,178	6.57	15.22
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	13.18
1963	13,031	1,762	7.40	13.52
1964	12,557	1,441	8.71	11.47
1965	9,927	1,278	7.77	12.84
1966	11,427	1,515	7.54	13.25
1967	15,253	1,493	10.22	9.78
1968	9,792	1,483	6.60	15.14
1969	11,072	1,470	7.53	13.27
1970	10,077	1,436	7.02	14.25
1971	9,028	1,250	7.22	13.84
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

APPENDIX 17

Tuberculosis Mortality

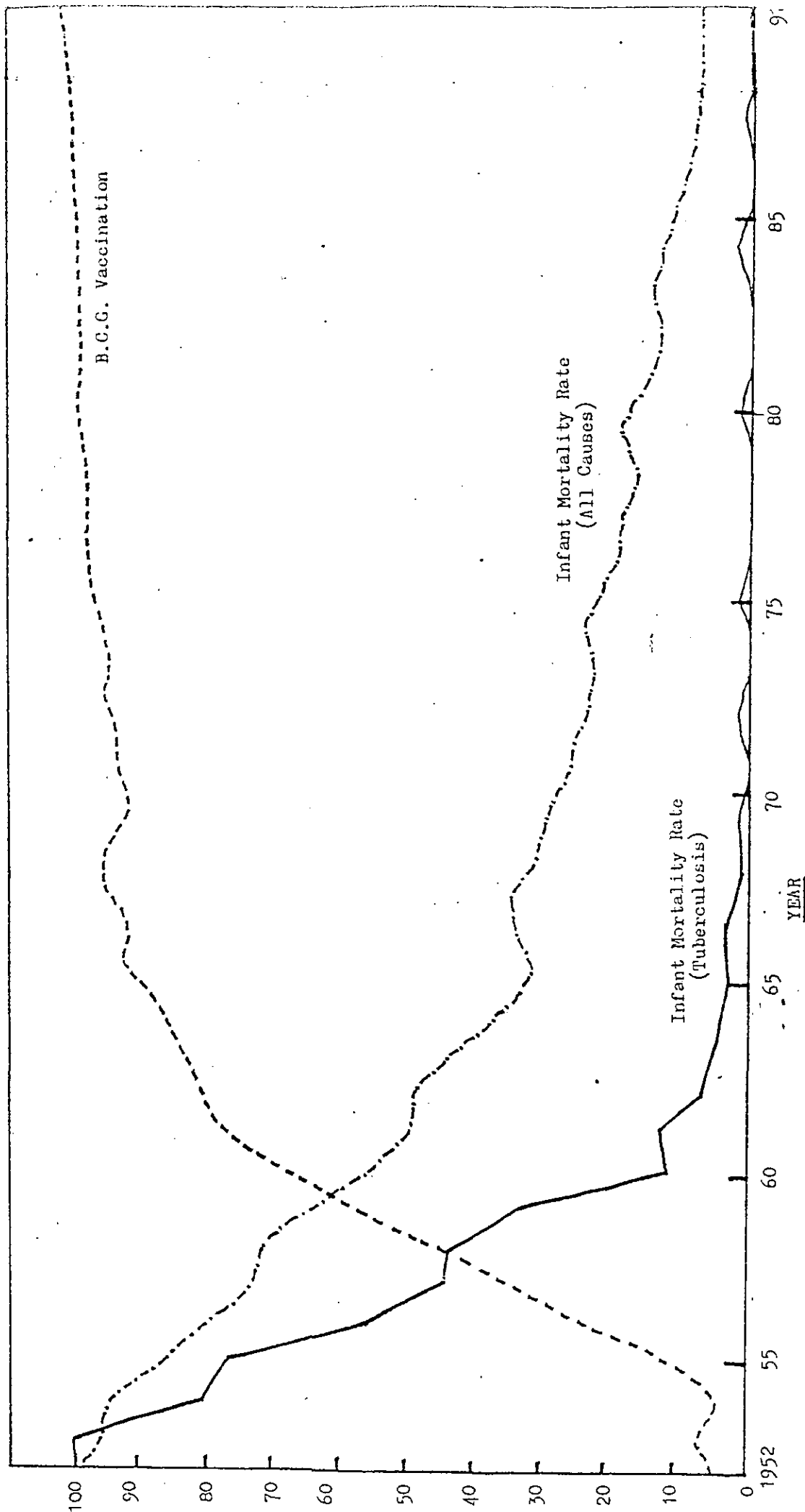
1949 - 1991

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. Death 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

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

APPENDIX 18

Infant Mortality Rates - All causes and Tuberculosis
(expressed as percentage of 1952 rate)
and B.C.G. Vaccination of Newborns 1952 - 1991



APPENDIX 19

Sex Ratio of Deaths
Due to Tuberculosis (All Forms)

1952 - 1991

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	112.8
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	22.3
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

APPENDIX 20

TB Deaths (All Forms) by Age and Sex
1981, 1990 & 1991

Age Group	1981			1990			1991		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	1	1	1	1	2	-	-	-
2	-	1	1	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5 - 9	-	1	1	-	-	-	2	-	2
10 - 14	-	-	-	-	1	1	-	-	-
15 - 19	2	1	3	3	-	3	-	-	-
20 - 24	3	2	5	1	1	2	1	1	2
25 - 29	2	2	4	1	-	1	2	1	3
30 - 34	3	-	3	3	2	5	4	5	9
35 - 39	12	3	15	3	1	4	6	1	7
40 - 44	13	1	14	6	-	6	5	4	9
45 - 49	27	1	28	9	2	11	8	-	8
50 - 54	24	7	31	19	5	24	24	1	25
55 - 59	42	6	48	26	5	31	27	2	29
60 - 64	65	10	75	46	5	51	40	4	44
65 - 69	64	18	82	40	10	50	47	7	54
70 - 74	52	15	67	57	11	68	51	17	68
75 - 79	38	25	63	34	15	49	62	16	78
80 - 84	17	20	37	26	15	41	25	9	34
85+	5	5	10	20	13	33	17	19	36
Unknown	1	-	1	-	-	-	1	-	1
Total	320	119	489	295	87	382	322	87	409

APPENDIX 21

TB Deaths of Respiratory System (010 - 012) by Age and Sex

1981, 1990 & 1991

Age Group	1981			1990			1991		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5 - 9	-	-	-	-	-	-	-	-	-
10 - 14	-	-	-	-	-	-	-	-	-
15 - 19	2	-	2	1	-	1	-	-	-
20 - 24	3	2	5	-	1	1	-	-	-
25 - 29	1	1	2	1	-	1	1	-	1
30 - 34	1	-	1	3	-	3	3	2	5
35 - 39	10	1	11	3	-	3	5	-	5
40 - 44	9	-	9	4	-	4	4	2	6
45 - 49	25	-	25	8	2	10	6	-	6
50 - 54	22	5	27	15	2	17	21	1	22
55 - 59	37	44	41	23	4	27	20	2	22
60 - 64	51	6	57	35	4	39	33	4	37
65 - 69	52	14	66	28	10	38	43	7	50
70 - 74	44	14	58	43	77	50	41	14	55
75 - 79	30	18	48	30	11	41	49	14	63
80 - 84	14	16	30	25	12	37	22	7	29
85+	4	4	8	19	13	32	16	11	27
Unknown	1	-	1	-	-	-	1	-	1
Total	306	85	391	238	66	304	265	64	329

APPENDIX 22

TB Deaths of Meninges (013)
by Age and Sex

1981, 1990 & 1991

Age Group	1981			1990			1991		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	1	1	1	-	1	-	-	-
2	-	1	1	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5 - 9	-	1	1	-	-	-	2	-	2
10 - 14	-	-	-	-	1	1	-	-	-
15 - 19	-	-	-	1	-	1	-	-	-
20 - 24	-	-	-	-	-	-	-	-	-
25 - 29	1	1	2	-	-	-	-	1	1
30 - 34	-	-	-	-	-	-	-	1	1
35 - 39	1	-	1	-	1	1	-	-	-
40 - 44	-	-	-	-	-	-	-	-	-
45 - 49	1	-	1	1	-	1	-	-	-
50 - 54	-	-	-	1	-	1	-	-	-
55 - 59	-	-	-	-	-	-	1	-	1
60 - 64	1	1	2	2	-	2	1	-	1
65 - 69	1	-	1	1	-	1	-	-	-
70 - 74	1	-	1	2	-	2	1	1	2
75 - 79	-	1	1	-	1	1	1	1	2
80 - 84	-	-	-	1	-	1	-	-	-
85+	-	1	1	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	-	-	-
Total	6	7	13	10	3	13	6	4	10

APPENDIX 23

TB Deaths of Bones & Joints (O15)
by Age and Sex

1981, 1990 & 1991

Age Group	1981			1990			1991		
	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	-	-	-	-	-	-
35 - 39	-	-	-	-	-	-	-	-	-
40 - 44	1	-	1	1	-	1	-	1	1
45 - 49	-	-	-	-	-	-	1	-	1
50 - 54	-	-	-	-	-	-	2	-	2
55 - 59	-	-	-	-	-	-	-	-	-
60 - 64	-	-	-	2	-	2	-	-	-
65 - 69	-	-	-	-	-	-	-	-	-
70 - 74	-	-	-	-	-	-	1	-	1
75 - 79	-	-	-	-	-	-	-	-	-
80 - 84	-	-	-	-	-	-	-	-	-
85+	-	-	-	-	-	-	-	1	1
Unknown	-	-	-	-	-	-	-	-	-
Total	2	-	2	3	-	3	4	2	6

APPENDIX 24

TB Deaths All Forms Other Than Respiratory System, Meninges, Bones & Joints (014, 016 - 018 & 137) by Age and Sex

1981, 1990 & 1991

Age Group	1981			1990			1991		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	-	-	-	4	4	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5 - 9	-	-	-	-	-	-	-	-	-
10 - 14	-	-	-	-	-	-	-	-	-
15 - 19	-	1	1	1	-	1	-	-	-
20 - 24	-	-	-	1	-	1	1	1	2
25 - 29	-	-	-	-	-	-	1	-	1
30 - 34	1	-	1	-	2	2	4	2	3
35 - 39	1	2	3	-	-	-	1	1	2
40 - 44	3	1	4	1	-	1	1	1	2
45 - 49	1	1	2	-	-	-	1	-	1
50 - 54	2	2	4	3	3	6	1	-	1
55 - 59	5	2	7	3	1	4	6	-	6
60 - 64	13	3	16	7	1	8	6	-	6
65 - 69	11	4	15	11	-	11	4	-	4
70 - 74	7	1	8	12	4	16	8	2	10
75 - 79	8	6	14	4	3	7	12	1	13
80 - 84	3	4	7	-	3	3	3	2	5
85+	1	-	1	1	-	1	1	7	8
Unknown	-	-	-	-	-	-	-	-	-
Total	56	27	83	44	18	62	47	17	64*

* Breakdown of Deaths :-

	Deaths
Intestines, peritoneum & mesenteric glands (014)	4
Genito-urinary system (016)	1
TB Liver (017)	3
Miliary TB (018)	29
Late effects of TB (137)	27

APPENDIX 25

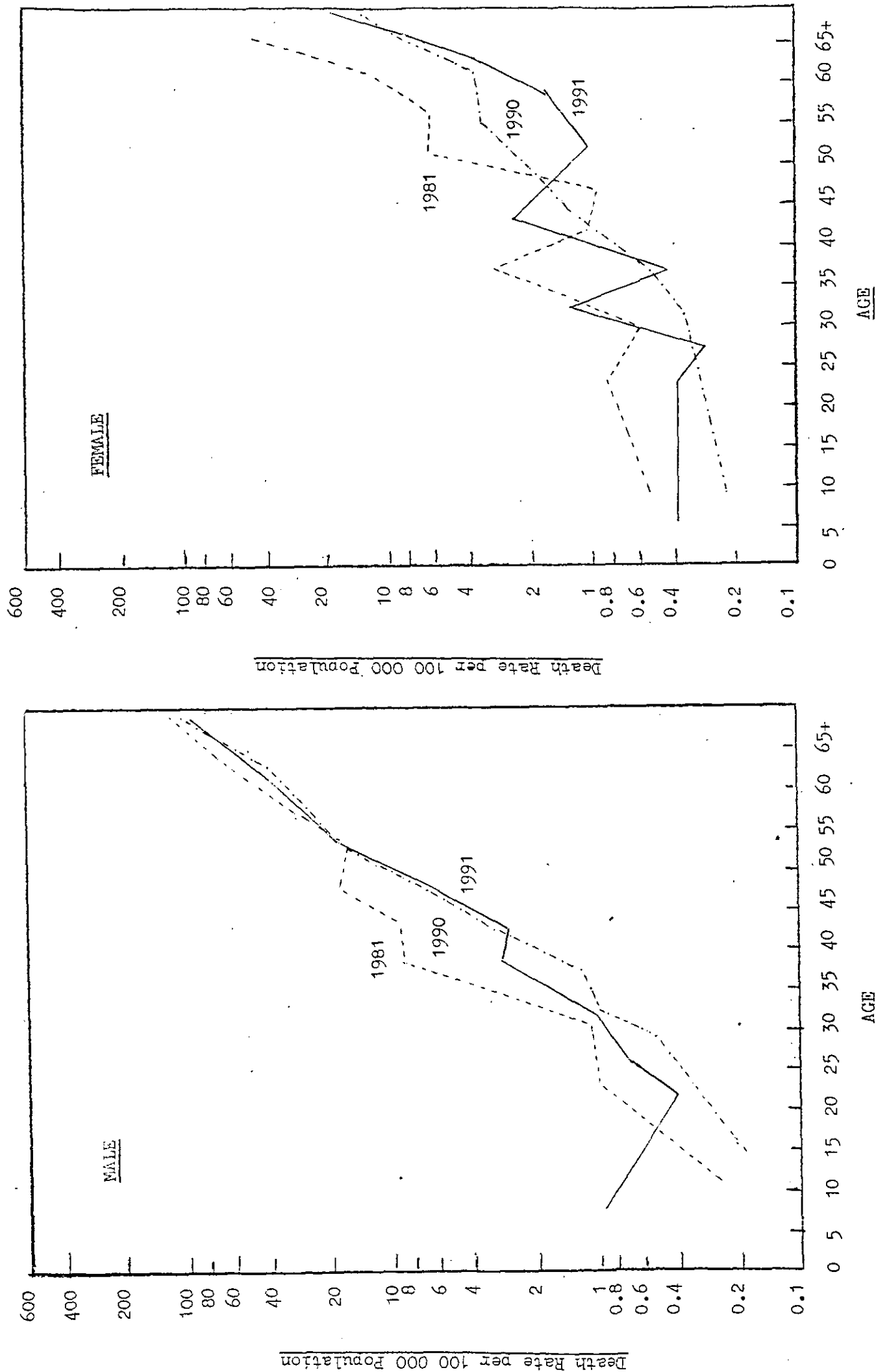
TB Death Rate by Age and Sex
(per 100,000 population)

1981, 1990 & 1991

Age Group	1981			1990*			1991		
	M	F	T	M	F	T	M	F	T
0 - 4	-	1.0	0.5	0.5	0.6	0.5	-	-	-
5 - 9	-	0.5	0.2	-	-	-	0.9	-	0.5
10 - 14	-	-	-	-	0.5	0.2	-	-	-
15 - 19	0.7	0.4	0.5	1.3	-	0.7	-	-	-
20 - 24	0.9	0.7	0.8	0.4	0.4	0.4	0.4	0.4	0.4
25 - 29	0.7	0.9	0.8	0.3	-	0.2	0.7	0.3	0.5
30 - 34	1.3	-	0.7	1.0	0.7	0.8	1.3	1.6	1.4
35 - 39	8.4	2.8	6.0	1.2	0.4	0.8	2.3	0.4	1.4
40 - 44	8.9	0.9	5.4	2.9	-	1.5	2.2	2.0	2.1
45 - 49	18.4	0.8	10.3	6.8	1.9	4.6	5.7	-	3.1
50 - 54	17.0	5.6	11.7	13.4	4.2	9.3	17.2	0.9	9.9
55 - 59	36.8	5.6	21.7	18.6	4.9	11.8	19.3	1.6	11.1
60 - 64	69.1	10.7	40.0	38.0	4.3	21.6	32.2	3.4	18.2
65 - 69	93.8	23.4	56.7	44.4	10.5	27.0	50.5	7.1	28.3
70 - 74	130.3	26.3	69.1	91.6	15.0	50.2	79.4	22.6	48.7
75+	193.5	69.5	106.9	134.5	42.0	76.0	163.5	41.4	87.1
Total	13.7	4.8	9.4	10.1	3.1	6.7	10.9	3.1	7.1

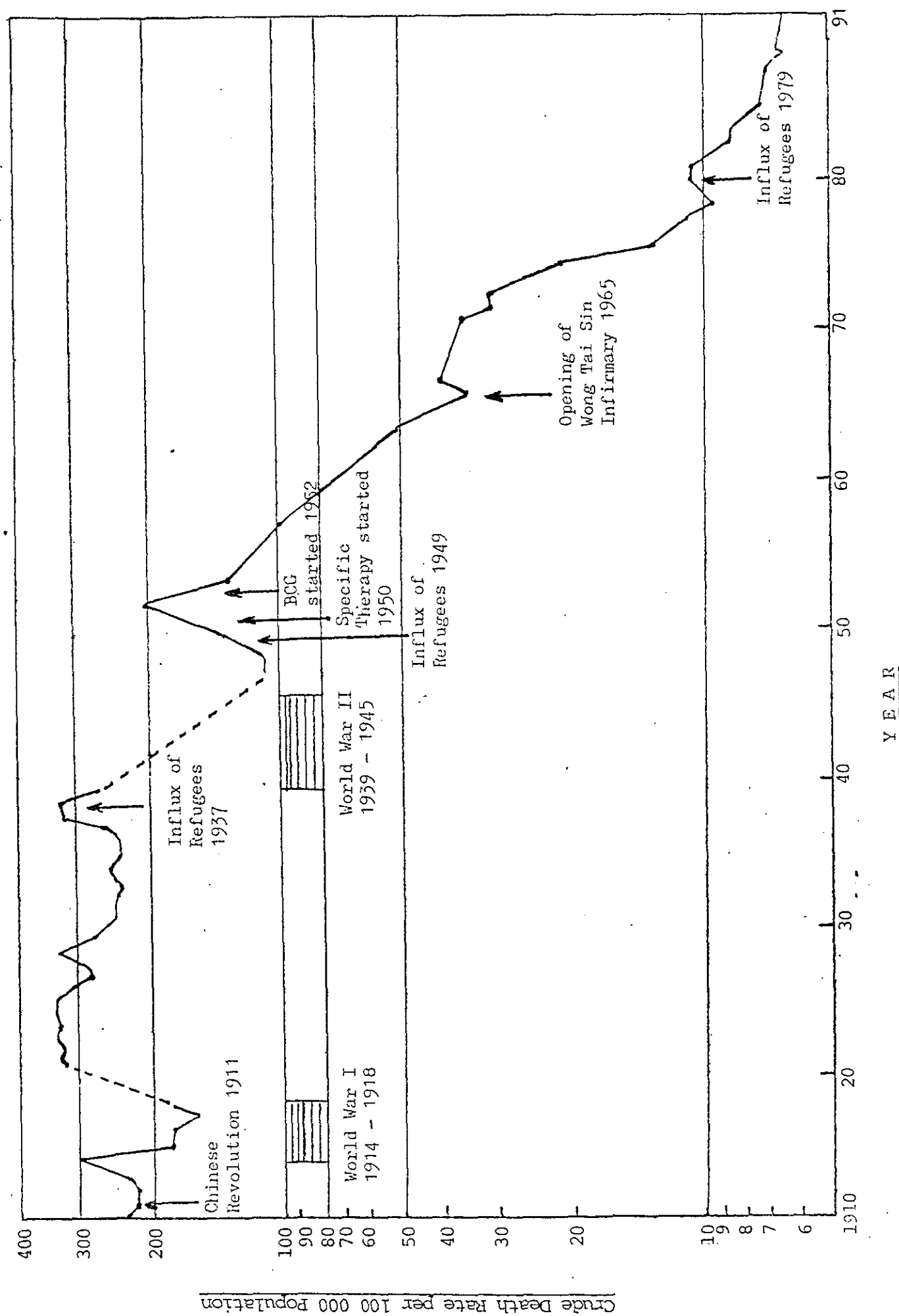
* Rates based on revised population estimates after 1991 census.

T.B. Mortality Rate by Age and Sex 1981, 1990 & 1991



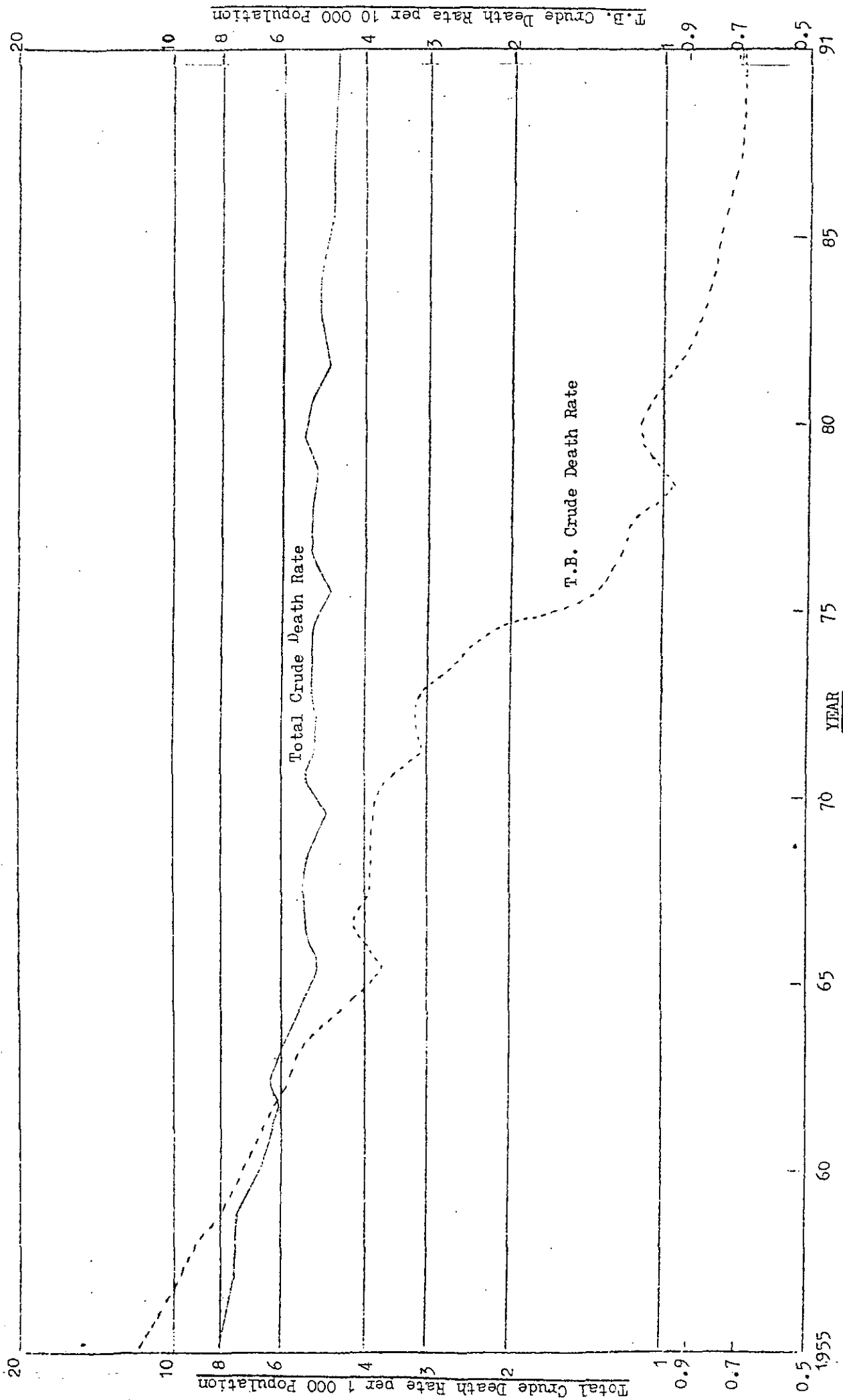
APPENDIX 27

Crude Death Rate due to Tuberculosis (All Forms) 1910-1991



APPENDIX 28

Crude Annual Death Rates for Hong Kong 1955-1991 According to Causes of Death

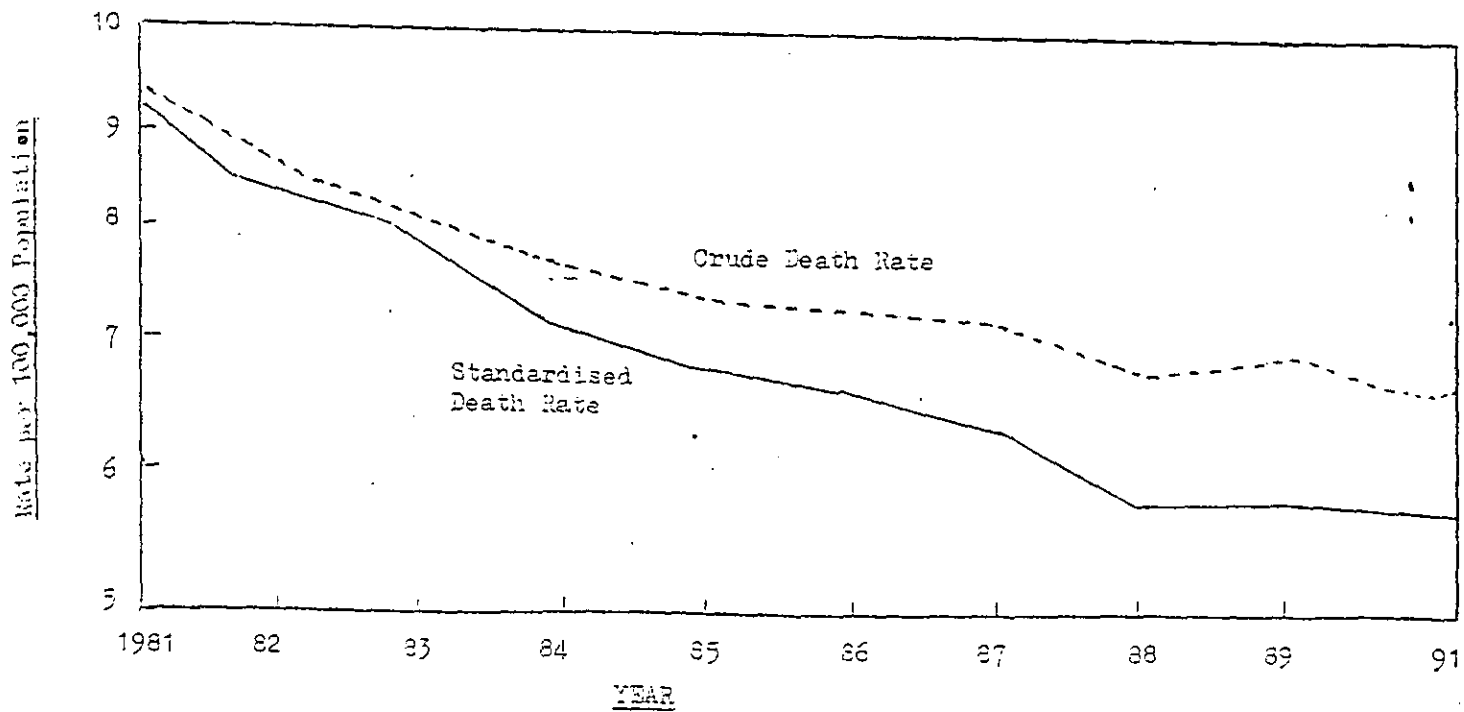


APPENDIX 29

Crude Death Rate and Standardised Death Rate 1981 - 1991

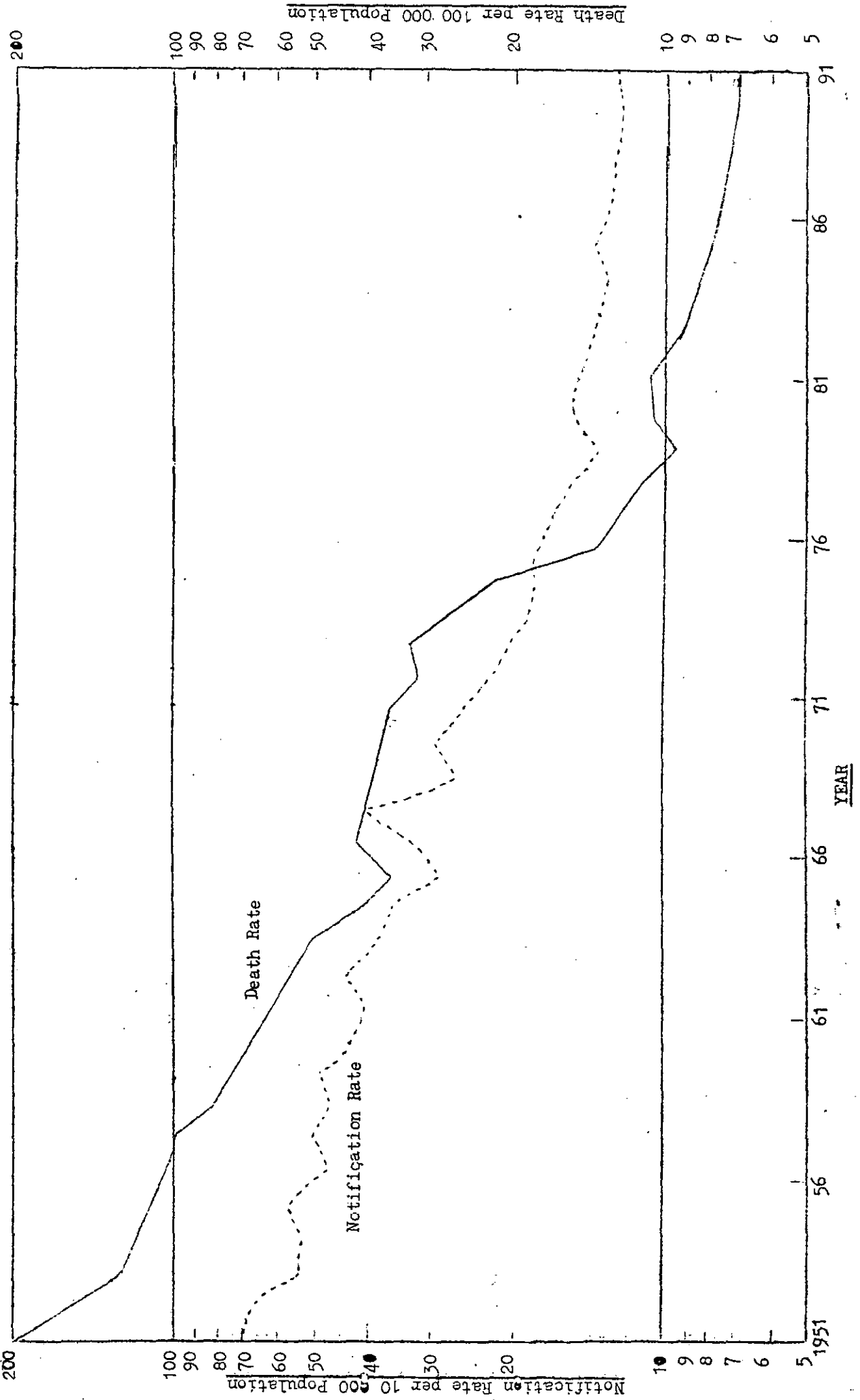
<u>Year</u>	<u>Crude Death Rate</u>	<u>Standardised Death Rate*</u>
1981	9.4	9.5
1982	8.6	8.4
1983	8.3	7.9
1984	7.8	7.2
1985	7.5	6.8
1986	7.4	6.6
1987	7.3	6.3
1988	6.9	5.8
1989	7.1	5.9
1990	6.7	5.7
1991	7.1	6.0

* Standardisation based on 1981 Mid-year Population Estimates



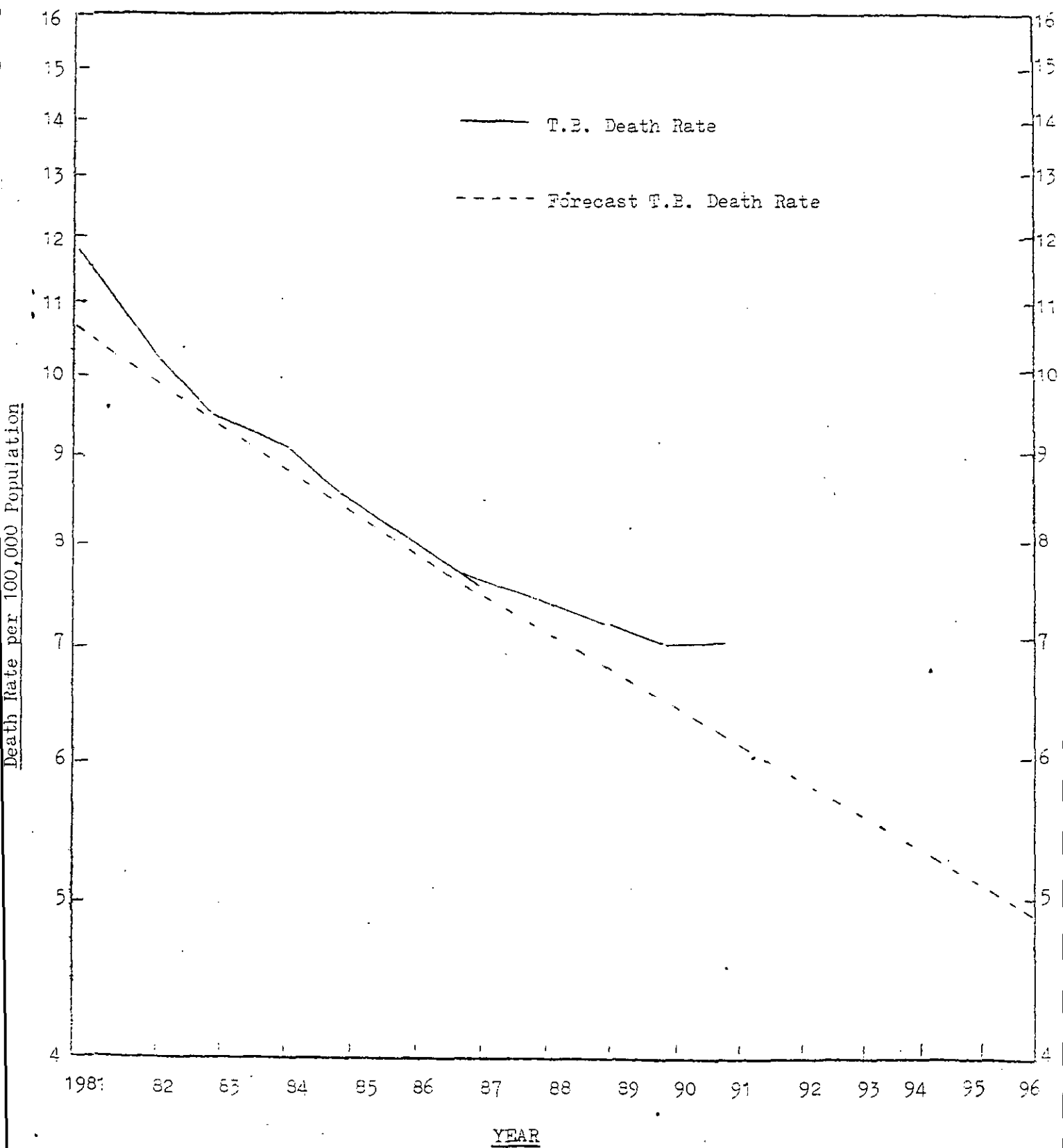
APPENDIX 30

T.B. Notification Rate and Death Rate 1951-1991



APPENDIX 31

Forecast of T.B. Mortality Rate



APPENDIX 32

Forecast of T.B. Deaths

Year	Projection
1991	370
1992	360
1993	350
1994	340
1995	335
1996	330

(Projection based on the trend between 1980 and 1990)

Amendment made for the Annual Report 1990.

APPENDIX 33

Top Ten Causes of Death 1991

R-Rank	Causes of Death	Detailed List No. 9th Revision	1991		
			Male	Female	Total
	All Causes	001 - 999	16,135	12,540	28,682(7)
1	Malignant Neoplasms	140 - 208	5,397	3,435	8,832
2	Heart diseases, including hypertensive heart diseases	390 - 429	2,552	2,306	4,858
3	Cerebrovascular disease	430 - 438	1,430	1,579	3,009
4	Pneumonia, all forms	480 - 486	1,020	799	1,819
5	Injury and poisoning	800 - 999	1,225	585	1,810
6	Nephritis, Nephrotic syndrome and Nephrosis	580 - 589	504	568	1,072
7	Septicaemia	038	231	274	505
8	Bronchitis, chronic and unspecified, Emphysema and Asthma	490 - 493	274	157	431
9	Tuberculosis (including late effects of tuberculosis)	010 - 018 137	322	87	409
10	Chronic liver disease and cirrhosis	571	259	116	375
	Diabetes mellitus	250	111	160	271
	Certain conditions originating in the perinatal period	760 - 779	113	105	218
	All other causes	Residue of 001 - 999	2,697	2,369	5,073(7)

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

APPENDIX 34

New Attendances at Medical Examination Board

1990 - 1991

Age Group	1991						1990		
	Total Examined		No with Active TB		Prevalence % of TB		Prevalence % of TB		Total
	Male	Female	Total	Male	Female	Total	Male	Female	
14 & under	605	101	706	-	-	-	-	-	-
15 - 19	1,012	1,364	2,376	2	2	4	0.19	0.15	0.17
20 - 24	2,010	2,072	4,082	3	5	8	0.15	0.24	0.20
25 - 29	1,401	1,001	2,402	1	1	2	0.07	0.10	0.08
30 - 34	909	417	1,326	1	-	1	0.11	-	0.08
35 - 39	512	654	1,166	1	-	1	0.20	-	0.09
40 - 44	356	307	663	1	1	2	0.28	0.33	0.30
45 - 49	117	40	157	-	1	1	0.75	2.50	1.64
50 - 54	60	18	78	2	-	2	3.33	-	2.56
55 & over	106	32	138	1	-	1	0.94	-	0.72
Total	7,088	6,006	13,094	12	10	22	0.16	0.17	0.17
							0.27	0.15	0.21

Scheme for Tuberculin Testing and BCG Administration in Hong Kong, 1991

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 - ECG 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
	over 14 years	x-ray chest
Vietnamese Refugees		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 ECG used

Intradermal strength - viability count of $4 - 13 \times 10^6/\text{ml}$ Percutaneous strength - viability count of $150 - 750 \times 10^6/\text{ml}$

(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 - TT if positive, give Chemoprophylaxis.

TT negative give chemoprophylaxis, repeat TT in 3 months
negative BCG stop chemoprophylaxis
positive continue chemoprophylaxis.

APPENDIX 36

BCG Vaccination of Newborns

1951 - 1991

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	82,635	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	77,737	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	69,904	99.0
1991	70,201	69,315	98.7

Local live births : known births + births of Vietnamese refugees.
 Note : For 1990 and 1991, 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 1991.

APPENDIX 37

BCG Vaccinations at Birth, 1991

Institution		No. of Live-births	BCG Vaccination	% Vaccinated
Gov't Hosp	Queen Mary	1,022	1,039	101.7*
	Tsan Yuk	2,807	2,803	99.9
Gov't-assted Hospitals	Nethersole	3,642	3,624	99.5
	Tung Wah Eastern	837	818	97.7
Private Hosp	HK Sanatorium	1,550	1,674	108.0 *
	Canossa	1,056	1,051	99.5
	St. Paul's	2,993	2,950	98.6
	HK Central	140	135	96.4
	Adventist	423	410	96.9
	Matilda	651	613	94.2
Total (HK Island) .		15,121	15,117	100.0
Gov't Hosp	Queen Elizabeth	6,995	6,979	99.8
Gov't-assted Hospitals	Kwong Wah	4,682	4,656	99.4
	Maryknoll	2,015	2,008	99.7
	Caritas	2,369	2,351	99.2
	United Christian	3,343	3,334	99.7
Private Hosp	Baptist	8,559	8,480	99.1
	Precious Blood	673	653	97.0
	Evangel	1,629	1,618	99.3
	St. Teresa's	3,056	2,991	97.9
Government Maternity Home		238	220	92.4
British Military Hospital		483	477	98.8
Total (Kowloon)		34,042	33,767	99.2 .
Gov't Hosp	Princess Margaret	5,203	5,192	99.8
	St. John Hospital	38	27	71.1
	Prince of Wales	7,635	7,605	99.6
	Tuen Mun	3,943	3,915	99.3
Gov't-assted Hospitals	Pok Oi	544	526	96.7
	Yan Chai	226	219	96.9
Private Hosp	Adventist	1,342	1,330	99.1
Government Maternity Homes		1,533	1,466	95.6
Total (NT Areas)		20,464	20,280	99.1
GRAND TOTAL		69,627	69,164	99.3

Note : * Including vaccinations of live births transferred from other maternity institutions and vaccinations of live births in end of 1990

APPENDIX 38

Apparent reasons for newborns not being vaccinated with BCG 1991

Institution	No. of Live Births	Percentage Vaccinated	Transferred	Jaundice	Under Weight	Medical or Physiological problem	Neo-natal Death	Digestive Disorder	Skin Rash	Discharged	Total
T'san Yuk	2,807	99.9	-	-	-	90	2	-	-	2	94
Queen Mary	1,022	101.7	4	-	-	81	19	-	-	10	114
Tung Wah Eastern	837	97.7	2	-	-	2	-	-	-	11	15
Queen Elizabeth	6,995	99.8	-	-	-	372	11	-	-	1	384
Kwong Wah	4,682	99.4	-	-	-	91	11	-	-	7	109
Princess Margaret	5,203	99.8	-	-	-	213	5	-	-	2	220
Prince of Wales	7,635	99.6	1	-	-	324	11	-	-	-	336
Total	29,181	99.7	7	-	-	1173	59	-	-	33	1272

APPENDIX 39

Percentage of Babies receiving
BCG by Vaccination Methods, 1970 - 1991

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

Note : Percentage refers to known live birth figure

APPENDIX 40

Tuberculin Test and BCG Vaccination
of School Children

1962 - 1991

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	30.3	
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	31.3
1969	126,906	89,306	16,831	16,321	18.3	29.6
1970	194,298	127,680	49,655	49,547	38.3	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	83,381	29,713	29,554	35.2	30.6
1974	295,287	179,169	47,391	47,378	26.4	39.3
1975	136,175	88,987	38,334	(c) 39,120	44.0	34.7
1976	230,361	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	55.9	33.9
1980	101,215	67,655	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	21.7
1984	71,950	61,559	47,086	47,705	77.7	13.4
1985	90,771	74,802	56,646	56,625	75.7	17.2
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	8.6

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 wef 27.10.1975 and number of BCG given includes direct BCG without TT.

APPENDIX 41

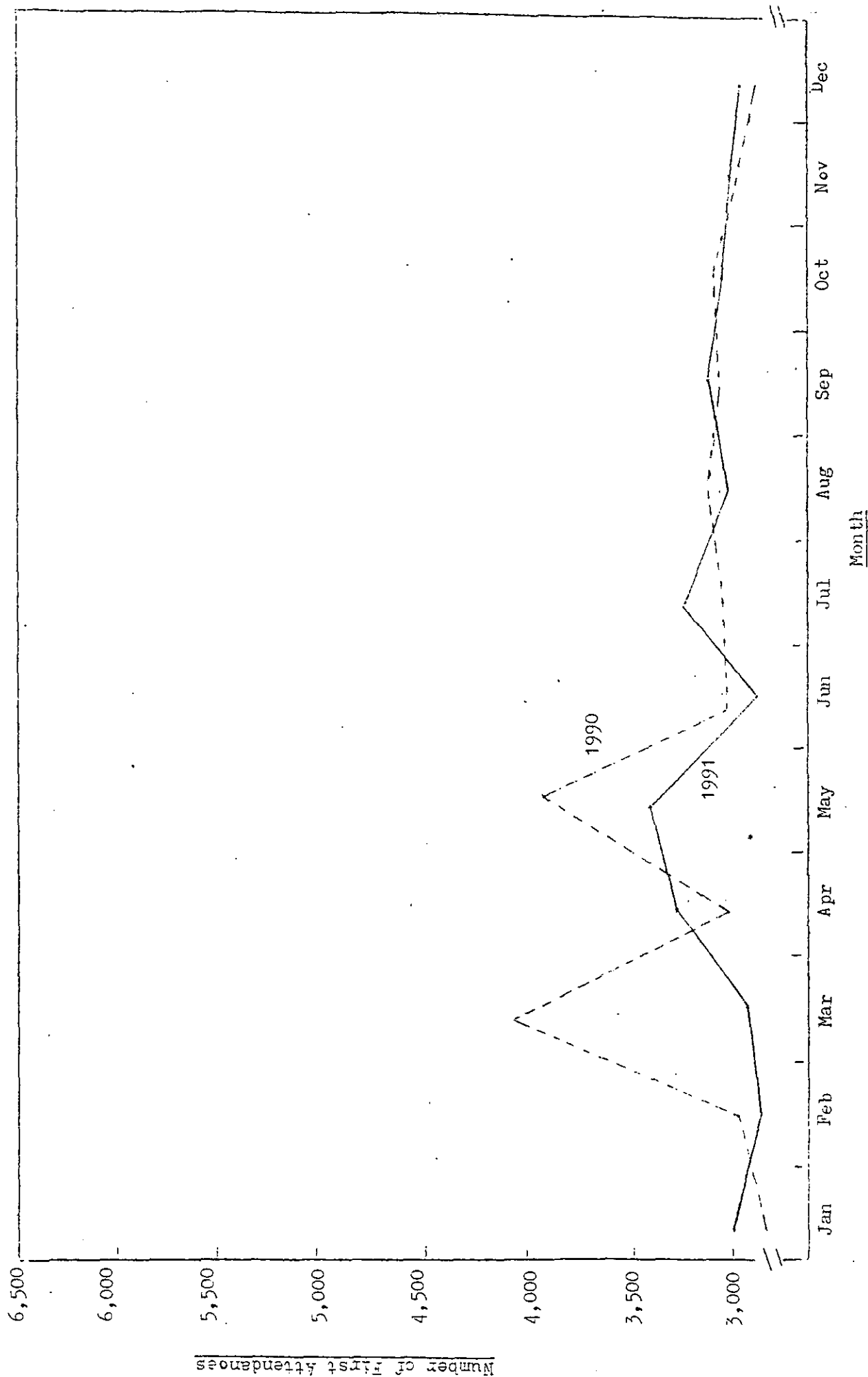
Examination of Contacts, 1988 - 1991

Particulars	1988	1989	1990	1991
No. of patients (new & old) listed	7433	7018	7025	7010
No. of contacts listed	18855	18761	18750	18722
(a) No. of children with -ve tuberculin/Tine* test	699	723	710	695
No. of children given BCG	689	707	693	681
(b) No. of contacts x-rayed	14433 (100.00%)	14113 (100.00%)	14112 (100.00%)	14122 (100.00%)
<u>Results</u>				
NSD & Unknown	13681 (94.79%)	13477 (94.96%)	13410 (95.03%)	13395 (94.85%)
Disease other than TB	175 (1.21%)	162 (1.14%)	157 (1.11%)	161 (1.14%)
<u>Respiratory TB</u>				
Active A (radiologically)	104 (0.72%)	90 (0.63%)	92 (0.65%)	95 (0.67%)
B (bacteriologically)	50 (0.35%)	50 (0.35%)	48 (0.34%)	46 (0.33%)
C (incomplete)	12 (0.08%)	12 (0.09%)	10 (0.07%)	11 (0.08%)
Not active	370 (2.57%)	361 (2.54%)	360 (2.55%)	372 (2.63%)
Non-respiratory TB	3 (0.02%)	2 (0.01%)	3 (0.02%)	4 (0.03%)
Result not yet known	38 (0.26%)	39 (0.28%)	32 (0.23%)	38 (0.27%)

* for NT Chest Clinics only

APPENDIX 42

Monthly First Attendances at Government Chest Clinics 1990 & 1991



Treatment return for the year 1991

Name of clinic/hospital	Standard regimen										Others								
	Number put on treatment b/f	Brought in	Treatment completed at 4 months	Treatment completed at 5 months	Treatment completed at 6 months	Treatment completed > 6 months	Discontinued treatment	Complete defaulters	Number still on treatment c/f	Unsupervised as at 31.12.1991	Incomplete super as at 31.12.1991	Number put on treatment b/f	Brought in	Completed treatment	Discontinued treatment	Completed defaulters	Number still on treatment c/f	Unsupervised as at 31.12.1991	Incomplete super as at 31.12.1991
East Kowloon	153	332	23	8	60	105	131	15	123	8	97	162	364	205	173	11	137	30	184
Kowloon	298	701	58	30	221	121	403	3	163	23	98	169	805	274	411	6	283	73	185
Kwai Chung	261	527	62	90	108	160	382	40	246	0	74	107	346	163	80	53	157	6	162
Sai Ying Pun	71	112	3	2	52	35	21	1	69	1	62	123	370	218	150	1	124	4	124
Shauiwan	68	120	6	10	51	30	25	2	67	2	81	94	195	152	39	4	94	15	170
Shek Kip Mei	84	200	29	7	79	26	34	15	84	23	70	157	402	238	130	5	186	81	113
Wanchai	223	577	12	18	217	142	177	10	224	0	134	276	626	430	162	9	301	0	352
Yaumati	175	387	36	29	107	91	162	15	122	1	102	176	409	242	181	22	140	2	193
Castle Peak	0	0	0	0	0	0	0	0	0	0	0	15	37	24	1	0	27	0	0
Cheung Chau	2	9	0	0	1	6	2	0	2	0	0	3	12	6	0	0	9	1	1
Hei Ling Chau	0	0	0	0	0	0	0	0	0	0	0	27	11	4	18	0	16	0	0
Pik Uk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sai Kung	0	0	0	0	0	0	0	0	0	0	0	22	20	25	3	10	14	0	31
Shatin	0	0	0	0	0	0	0	0	0	0	0	136	296	205	82	10	135	8	290
Sheung Shui	0	0	0	0	0	0	0	0	0	0	0	74	114	89	40	1	58	1	141
Stanley Prison	43	27	0	2	14	21	9	0	24	0	0	0	0	0	0	0	0	0	0
Tai Po	0	0	0	0	0	0	0	0	0	0	0	95	200	116	70	20	89	21	75
Yau Oi	186	375	23	18	73	136	114	14	183	27	42	50	27	91	111	7	113	37	46
Yuen Long	0	0	0	0	0	0	0	0	0	0	0	81	202	98	64	19	102	19	95
Yung Fung Shee	131	259	27	13	77	88	114	0	111	3	53	94	267	135	117	0	109	8	101
Shek Fik Prison	2	1	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0
Total	1697	3627	279	227	1090	1861	1232	115	1420	88	813	1861	4969	2715	1863	158	2094	306	2263

Brought in = newly started, transferred, restarted, from hospital etc.

Discontinued = all cases stopping treatment except complete defaulters. e.g. admission to Hospital, leaving colony etc.

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 - 1991

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
Clinic	Year 1991
East Kowloon	367
Kowloon	970
Kwai Chung	434
Sai Ying Pun	464
Shau Kei Wan	294
Shek Kip Mei	270
Wanchai	932
Yaumati	355
NT Unit	267
Yan Oi	568
Yung Fung Shee	135
Total	5,056

APPENDIX 45

Hospital Admissions (Chest Medical Wards Only)

1990 - 1991

Hospital	1990			1991		
	From Gov't Chest Clinics	Total Admissions	Turnover (Admissions /Beds)	From Gov't Chest Clinics	Total Admissions	Turnover (Admissions /Beds)
Grantham	1,596	2,546	8.01	1,458	2,694	8.47
Ruttonjee	861	1,522	5.07	964	1,798	9.46
Haven of Hope	251	679	4.72	281	754	5.24
Wong Tai Sin	723	1,042	6.47	703	1,448	8.99
Kln Hospital	1,535	2,813	22.15	1,650	2,995	23.58
Total	4,966	9,602	8.19	5,056	9,689	10.31

APPENDIX 46

HOSPITAL ADMISSION/DISCHARGE SUMMARY 1991

Admissions in the year9,689....
 Discharges in the year live 8,720....
 dead 869....

Breakdown of Admissions by Source and Nature

Source	Emergency				Routine				TOTAL
	Resp TB	Non-resp TB	Chest Disease not TB	Others (including not yet diagnosed)	Resp TB	Non-resp TB	Chest Disease not TB	Others (including not yet diagnosed)	
Govt Chest Service	1105	8	76	21	2562	75	626	583	5056
Other Govt Sources	300	-	8	-	1351	162	422	445	2688
Internal Transfer	440	-	6	-	85	12	45	88	676
Others	82	10	236	26	156	35	351	373	1269
TOTAL	1927	18	326	47	4154	284	1444	1489	9689

Breakdown of Discharges (alive)

By Disposal

To : Government Chest Service6,464.....
 Internal Transfer426.....
 Others1,830.....
 Total Discharges8,720.....

Breakdown of Total Discharges (Excluding Internal Transfer)

by Treatment and Response

		Improved	Unchanged	Worse	Died	TOTAL
TB Drugs Treatment		3,432	226	37	151	3,846
Surgery	Resection	18	-	-	-	18
	Others	424	-	-	-	424
Other Treatment		2,989	967	101	718	4,875
TOTAL		6,863	1,293	138	869	9,163

APPENDIX 47

Total Number of Sputum Smears
Cultures and Sensitivity Tests Carried out by
the Gov't Pathological Institute for all Agencies, 1984 - 1991

Investigation	1984	1985	1986	1987	1988	1989	1990	1991
Sputum Smears for TB	122,822	111,311	101,337	92,770	92,534	90,310	93,587	90,779
Sputum Cultures for TB	63,480	74,857	75,638	73,182	82,383	81,168	85,524	83,443
Total number of Sensitivity Tests	17,010	37,314	33,184	35,297	34,173	32,495	30,109	20,548
Streptomycin	4,019	7,201	7,082	9,223	9,114	9,248	8,944	5,401
P.A.S.	8	4	11	6	4	-	-	-
I.N.A.H.	4,022	7,201	7,082	9,223	9,114	9,248	8,944	5,486
Ethionamide	1,035	2,590	2,221	2,337	1,918	1,140	822	868
Thiacetazone	6	-	5	-	-	-	-	-
Pyrazinamide	2,666	6,839	4,807	2,591	2,324	1,176	821	870
Cycloserine	12	10	73	107	118	162	121	301
Kanamycin	51	82	119	122	127	167	122	301
Viomycin	1	33	9	-	-	-	-	-
Rifampicin	2,688	6,869	7,082	9,223	9,114	9,248	8,944	5,401
Ethambutol	2,479	6,449	4,620	2,340	2,098	1,588	1,072	894
Capreomycin	23	36	67	107	117	162	121	301
Ofloxacin	-	-	-	-	-	345	-	410
Other	-	-	6	18	125	11	198	315

APPENDIX 48

No. of Dr Sessions, Cases seen by Dr and Patient/Dr Session

1990 - 1991

Clinic/Hospital	Doctor Sessions		Cases seen by Doctor		Patient/ Dr Session	
	1990	1991	1990	1991	1990	1991
East Kowloon Chest Clinic	1 029	961	23 186	22 594	23	24
Kowloon Chest Clinic	1 330	1 231	31 093	30 452	23	25
Kwai Chung Chest Clinic	1 352	1 157	29 779	28 294	22	25
Sai Ying Pun Chest Clinic	821	831	19 090	18 894	23	23
Shauiwan Chest Clinic	545	546	11 521	12 428	21	23
Shek Kip Mei Chest Clinic	1 006	989	17 966	18 121	18	18
Wanchai Chest Clinic	1 625	1 568	31 778	31 603	20	20
Yan Oi Chest Clinic	544	731	15 087	16 514	28	23
Yaumati Chest Clinic	1 173	1 182	26 286	25 114	22	21
Yung Fung Shee Chest Clinic	544	543	12 038	11 982	22	22
Aberdeen Chest Clinic (2)	143	-	1 389	-	10	-
Castle Peak Hospital	25	40	429	657	17	16
Cheung Chau Chest Clinic	24	24	478	551	20	23
Hei Ling Chau ATC	13	11	245	119	19	11
Sai Kung Chest Clinic	49	48	1 004	1 058	21	22
Shatin Chest Clinic	207	261	7 647	7 885	37	30
Sheung Shui Chest Clinic	184	178	3 824	3 324	21	19
Stanley Prison Hospital	25	20	612	472	25	24
Wong Siu Ching Chest Clinic	200	198	4 213	4 530	21	23
Shek Pik Prison Hospital	10	11	70	78	7	7
Yuen Long Chest Clinic	248	248	6 463	5 895	26	24
Total	11 097	10 772	244 198	240 565	22	22

Notes : (1) Doctor Session - one doctor of a half-day session.

(2) Aberdeen Chest Clinic was closed in 1991.

APPENDIX 49

Beds for Treatment of Tuberculosis, as at 30 Nov., 1991

	Hospital	No. of T.B. Beds	No. of beds under Gov't supervision
Gov't	Kowloon Hospital	127*	127*
	Total (Government)	127	127
Gov't-assisted	Grantham Hospital	318	318
	Ruttonjee Hospital	190 [#]	-
	Haven of Hope Hospital	144	-
	Wong Tai Sin Infirmary	161	161
	Total (Gov't-assisted)	813	479
Private	St. Paul's Hospital	5	-
	Hong Kong Sanatorium	2	-
	Total (Private)	5	-
Custody	Victoria Prison Hospital	-	-
	Stanley Prison Hospital	20	20
	Tai Lam Correctional Institution	-	-
	Total (Custody)	20	20
	Grand Total (1991)	965	626
	Grand Total (1990)	1,075	626
	Grand Total (1989)	1,165	626

* Including two beds in the Intensive Care Unit

110 beds in Freni Memorial Home were non-functioned from June 1991

Note: The Hospital Authority took over the management and control of all public hospitals, including Gov't and Gov't assisted hospitals on 1 December 91. No more beds were under Gov't Chest Service.

APPENDIX 50

Beds for Treatment of Tuberculosis 1968 - 1991

<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

APPENDIX 51

Work Done by Medical Social Workers of Chest Clinics

1987 - 1991 (Financial Year)

Particulars	1987	1988	1989	1990	1991
Total no of families receiving financial assistance	126	100	247	165	131
Total financial help to patients	\$38,988.2	\$26,651.1	\$85,886.4	\$37,057.8	\$26,496.9
Disbursement of Samaritan Fund	\$ 6,971.5	\$10,665.1	\$ 3,710.6	\$33,744.0	\$ 2,872.5
Total no of interviews (in-patients)	4,265	4,233	6,906	4,986	5,473
Total no of interviews (out-patients)	8,503	9,152	9,869	10,034	10,079
No of home visits made	166	126	254	179	240

APPENDIX 52

First Visits to Chest Clinics

1981 - 1991

Clinic	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Kowloon	10,736	12,541	12,524	13,625	11,657	9,750	8,184	8,469	7,818	7,080	6,578
Kwai Chung	6,154	7,439	7,745	8,053	7,348	6,347	6,487	6,714	5,869	5,275	4,783
Sai Ying Pun	4,182	4,495	4,215	4,419	4,351	3,290	3,294	2,997	3,172	3,283	2,907
Shauiwan	1,993	2,452	2,159	2,284	2,353	2,108	2,337	1,841	1,923	1,795	1,661
Shek Kip Mei	4,546	4,296	4,034	4,388	4,190	3,259	2,946	2,690	2,805	2,832	2,933
Wanchai	9,117	9,857	9,665	10,736	9,062	7,397	6,760	6,929	6,331	5,796	5,061
Yaumati	4,056	4,184	4,456	5,453	4,490	3,718	3,168	2,995	2,774	2,987	2,527
East Kowloon	3,771	3,465	3,525	4,082	3,549	2,592	2,755	2,704	2,442	2,570	2,390
Yung Fung Shee	-	-	-	146	1,273	1,484	1,367	1,509	1,415	1,980	1,886
Aberdeen	526	503	347	566	527	475	391	336	342	60	-
Stanley Prison Hospital	199	97	38	34	56	31	43	54	40	46	13
Victoria Prison Hospital	14	24	3	3	-	5	-	-	-	-	-
Hei Ling Chau	40	21	46	42	58	66	73	107	143	92	39
Castle Peak Hospital	14	5	18	12	8	16	24	31	24	15	19
Cheung Chau	139	148	144	170	115	84	97	95	83	59	54
Pik Uk Prison	1	-	-	-	-	-	-	-	-	-	-
Sai Kung	147	188	119	127	121	106	135	179	145	194	167
Shatin	295	382	470	534	604	690	770	857	959	983	858
Sheung Shui	429	523	451	565	356	329	299	332	318	338	292
Tai Lam Addiction Rx Centre	84	55	57	68	66	62	47	74	-	-	-
Tai C	33	14	16	-	-	-	-	-	6	12	-
Tai Po	428	516	452	582	792	645	538	641	544	572	468
Tuen Mun	561	195	-	-	-	-	-	-	-	-	-
Yuen Long	1,197	1,390	1,214	1,165	1,131	869	786	699	639	839	620
Yan Oi	-	1,035	1,771	2,451	2,381	2,220	2,171	2,591	2,562	2,707	2,572
Shek Pik Prison	-	-	-	27	17	15	13	19	15	17	27
Total	48,662	53,825	53,469	59,532	54,505	45,958	42,685	42,863	40,369	39,532	35,855

APPENDIX 53

Total Attendances at Chest Clinics

1981 - 1991

Clinic	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
East Kowloon	124,973	112,636	109,245	103,436	73,855	77,464	77,094	72,970	62,829	62,479	58,667
Kowloon	124,492	119,340	109,831	110,480	104,355	95,674	82,387	92,142	88,012	87,277	88,930
Kwai Chung	88,289	83,437	83,568	85,796	90,658	87,728	91,386	83,329	79,775	79,395	80,144
Sai Ying Pun	60,697	57,022	59,806	61,560	57,196	50,159	50,944	52,048	52,134	54,239	51,161
Shaukwan	38,260	34,858	34,430	34,302	34,887	35,789	37,319	37,285	37,004	41,733	47,614
Wanchai	80,480	81,552	73,614	84,656	79,951	78,295	84,835	95,998	98,548	94,052	89,769
Yau-mati	81,156	76,558	87,820	99,429	91,235	81,349	85,081	75,855	80,885	80,088	78,008
Shek Kip Mei	88,264	73,455	70,091	77,223	80,599	72,173	69,220	70,006	67,702	64,588	60,032
Yung Fung Shee	-	-	-	7,637	53,410	54,167	51,520	52,880	50,420	57,085	53,925
Aberdeen	5,531	5,226	4,683	5,909	6,230	5,376	4,739	4,506	5,055	1,601	-
Stanley Prison Hospital	2,239	2,874	3,150	3,795	2,432	2,932	2,057	5,287	7,831	9,737	9,430
Victoria Prison Hospital	695	623	74	60	12	7	-	-	-	-	-
Hei Ling Chau	1,074	1,268	2,334	2,038	1,954	842	2,228	2,846	2,398	2,159	877
Castle Peak Hospital	1,388	1,246	1,678	1,069	1,601	1,703	1,639	1,224	1,378	1,693	2,695
Cheung Chau	1,905	1,980	1,711	2,782	2,342	1,919	2,234	1,605	2,075	1,614	3,114
Pik Uk Prison	270	66	102	99	77	187	47	15	178	386	110
Sai Kung	1,971	1,683	1,553	1,665	1,584	1,618	1,374	1,508	1,381	1,960	1,902
Shatin	5,299	5,295	6,534	8,852	9,314	10,536	10,959	11,826	13,887	14,567	14,989
Sheung Shui	9,255	7,101	7,235	7,615	7,311	7,831	6,741	6,139	6,298	7,043	6,274
Tai Lam Addiction Rx Centre	954	1,419	1,931	2,569	2,552	3,184	4,031	1,738	-	-	-
Tai O	204	54	65	63	78	63	8	1	63	47	7
Tai Po	6,004	5,033	5,330	6,514	7,461	6,986	7,056	7,089	7,917	8,174	8,504
Tuen Mun	7,642	1,520	-	-	-	-	-	-	-	-	-
Yuen Long	18,717	13,610	12,604	12,473	12,178	11,870	10,336	10,402	10,474	11,996	10,967
Yan Oi	-	15,487	25,621	40,557	41,985	38,272	36,786	38,611	39,288	46,409	51,660
Shek Pik Prison	-	-	-	184	163	169	261	158	444	188	179
Total	749,759	703,343	702,950	766,263	763,420	726,295	720,282	725,468	715,976	728,510	718,958

Classification of New Patients Attending Government Chest Clinics, 1991

Result of examination	East Klin	Klin	Kwai Chung	Sai Ying Pun	Shau Kei Wan	Shek Kip Mei	Wan- chai	Yau- mati	Yan Oi	Yung Fung Shue	Urban sub- Clinics	N.T.	Total
Total patients attended, new and old	8443	12383	10875	8012	3779	7561	9821	8012	5620	4802	815	6079	86202
Number of new patients	2390	6578	4783	2907	1662	2933	5061	2527	2572	1886	76	2480	35855
Total with examination completed	2390	6517	4776	2867	1649	2927	5026	2515	2557	1861	76	2436	35597
M.S.D. & Unknown	869	2067	3301	1380	975	1344	1590	1200	1340	994	21	872	15953
Disease other than tuberculosis	850	2315	537	798	291	729	1511	609	525	343	11	710	9229
Non-respiratory tuberculosis													
(a) Meninges	1	4	2	-	-	1	-	-	5	-	-	3	16
(b) Bones & Joints	1	7	7	1	1	2	2	2	1	4	-	4	32
(c) Others	11	110	34	21	11	14	53	22	27	16	-	43	362
Respiratory tuberculosis													
(a) Not active and unknown activity													
(b) Active	352	980	390	408	167	454	1156	389	277	245	19	415	5252
By bacteriology and extent*	306	1034	505	259	204	383	714	293	382	259	50	364	4753
Negative : 1	141	504	213	150	71	170	415	159	170	90	23	162	2268
2	15	70	16	9	28	13	24	7	23	11	1	18	235
3	1	9	-	2	10	3	2	-	-	5	-	7	39
Positive : 1	81	272	210	59	32	105	181	84	70	78	13	70	1255
2	48	151	54	20	45	62	62	29	44	34	8	53	610
3	3	23	2	5	17	24	19	1	20	27	1	46	188
Incomplete : 1	16	5	8	11	-	4	8	11	46	14	-	5	128
2	1	-	2	1	-	1	-	2	5	-	4	3	19
3	-	-	-	2	1	1	3	-	4	-	-	-	11
By bacteriology and cavity													
Negative	6	16	9	3	5	5	15	4	8	10	1	12	94
Yes	151	567	220	158	104	181	426	162	185	96	23	175	2448
No	34	60	51	4	15	38	49	30	42	55	3	71	452
Positive	98	386	215	80	79	153	213	84	92	84	19	98	1601
No	1	-	1	2	-	1	2	2	4	-	-	1	14
Incomplete	16	5	9	12	1	5	9	11	51	14	4	7	144
Yes													
No													
By previous history and treatment													
No previous history of tuberculosis	291	957	479	249	187	336	639	272	358	248	48	337	4401
Previously diagnosed no treatment	-	10	-	1	-	1	-	-	-	1	1	2	16
Previously diagnosed and treatment	15	43	26	9	17	46	75	21	24	10	1	25	312
Previous history not known	-	24	-	-	-	-	-	-	-	-	-	-	24

* 1) Less than right upper lobe

2) More than right upper lobe

3) More than 3 lobes

Classification of Patients of first attendance to Chest Clinics According
to International Classification of Diseases Code, 1991

Code	Classification	PKCC	KCC	KCS	SYP	SKC	SGN	WCC	YMT	HT	YCCC	YFS	NTAL
010	Primary Tuberculosis Infection	-	977	456	-	-	1	-	277	-	1	-	2
011	Pulmonary Tuberculosis	270	-	-	239	190	364	684	-	339	359	245	4450
011X	Silicotuberculosis	-	-	1	-	-	-	6	-	-	-	-	7
012	Other Respiratory Tuberculosis	36	57	48	20	14	18	24	16	25	22	14	294
013	Tuberculosis of Meninges	1	4	2	-	-	1	-	-	3	5	-	16
014	Tuberculosis of Intestines	-	3	1	-	-	1	2	2	2	1	-	12
015	Tuberculosis of Bones & Joints	1	7	7	1	1	2	2	2	4	1	4	32
016	Tuberculosis of Genito-urinary System	-	14	-	-	1	-	3	3	1	3	3	28
017	Tuberculosis of Other Organs	11	91	32	20	8	10	47	17	40	23	11	310
018	Miliary Tuberculosis	-	2	1	1	2	3	1	-	-	-	2	12
137	Late Effects of Tuberculosis	352	980	390	408	167	454	1156	389	415	277	245	5252
160-165	Malignant Neoplasm of Respiratory System	40	316	90	52	38	41	106	54	77	101	35	951
212	Benign Neoplasm of Respiratory System	2	-	-	-	-	1	-	1	-	-	-	4
460-466	Acute Respiratory Infection	43	301	3	359	22	283	512	21	1	135	84	1764
470-478	Other Diseases of Upper Resp Tract	-	11	-	22	-	2	3	-	3	1	-	42
480-486	Pneumonia	112	305	159	147	22	84	144	66	147	129	62	1381
487	Influenza	-	-	-	-	-	-	-	-	-	-	-	-
490-491	Bronchitis, (not specified as acute or chronic) & chronic bronchitis	563	958	56	80	129	174	305	242	300	59	87	2955
492	Emphysema	2	31	11	4	3	18	31	7	17	14	3	141
493	Asthma	3	71	3	20	3	6	43	9	3	16	4	181
494	Bronchiectasis	34	179	82	25	37	29	97	32	60	23	16	615
495-496	Others	13	33	34	52	11	2	59	20	33	3	16	257
501	Asbestosis	-	-	-	-	-	-	-	-	-	-	-	-
502	Silicosis	4	9	2	-	-	1	41	32	3	1	-	94
505	Pneumoconiosis, unspecified	-	2	-	-	-	-	-	-	-	-	-	2
506-508	Others	1	1	3	-	-	-	5	3	-	-	-	2
510	Empyema	13	21	11	7	11	16	16	20	20	1	2	14
511	Pleurisy	2	21	11	7	11	2	14	7	2	2	1	126
512	Pneumothorax	9	56	57	5	-	50	70	72	19	22	11	80
513-519	Other Diseases of Respiratory System	4	158	88	58	15	43	240	9	8	44	2	372
786	Unknown	343	449	563	105	239	301	431	340	159	475	421	637
V71	H.S.D.	9	20	25	18	4	20	85	23	25	17	2	3827
	Diseases Other than TB & Resp System												248
Total		1868	5057	2126	1650	926	1927	4077	1664	1706	1736	1290	24108

APPENDIX 56

Extent of Active Respiratory TB in First Attenders at Chest Clinics

1983 - 1991

Extent*	1983	1984	1985	1986	1987	1988	1989	1990	1991
	No. %	No. %	No. %	No. %	No. %	No. %	No. %	No. %	No. %
1. Minimal	3501 64.5	4108 67.8	3653 64.9	3830 72.8	4012 72.8	3842 68.7	3702 71.6	3750 73.0	3651 76.8
2. Moderate	1412 26.0	1469 24.3	1479 26.3	1122 21.3	1166 21.1	1373 24.6	1125 21.8	1095 21.3	864 18.2
3. Extensive	518 9.5	480 7.9	497 8.8	303 5.9	337 6.1	375 6.7	342 6.6	291 5.7	238 5.0
Total	5431 100.0	6057 100.0	5629 100.0	5260 100.0	5515 100.0	5590 100.0	5169 100.0	5136 100.0	4753 100.0
No. of first attenders	53,469	55,532	54,505	45,958	42,685	42,865	40,369	39,532	35,855
% of active TB	10.2	10.2	10.3	11.4	12.9	13.0	12.8	13.0	13.3

* 1. Minimal : Less than right upper lobe

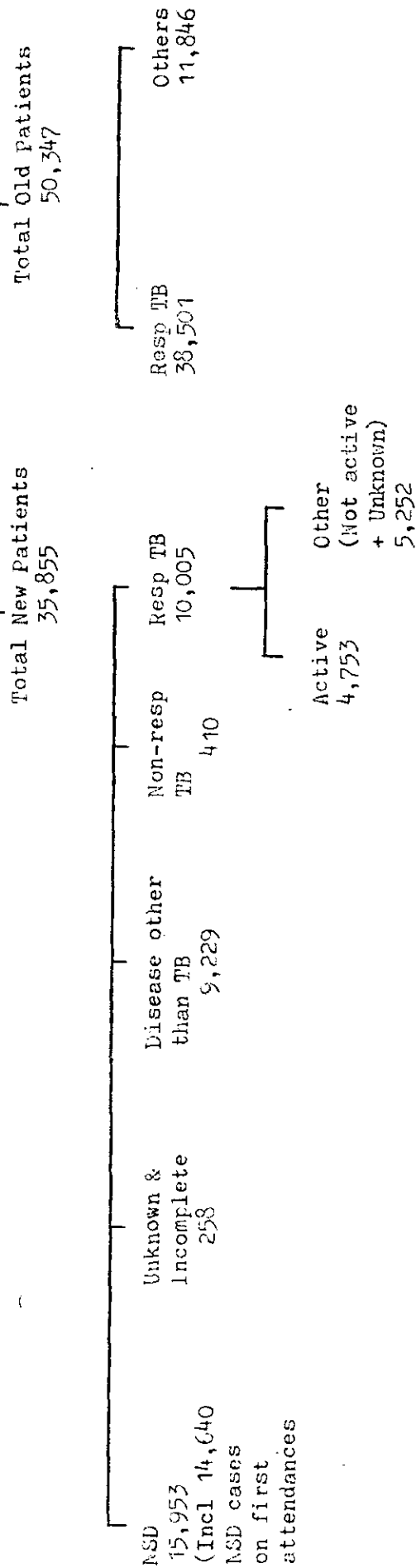
2. Moderate : More than right upper lobe

3. Extensive : More than a lung

Flow Chart of Patients Attending Chest Clinics

Total patients attending during 1991

86,202



- (a) Number of new patients notified by chest clinic : 4,012
- (b) Total newpatients admitted into hospital for treatment : 3,018
- (c) Number of total patients listed in contact book : 7,010
- Number of contacts listed : 18,722
- Number of contacts x-rayed : 14,122
- Number of cases of active TB found in contacts : 152 (1.08%)

Percentage on sputum results 1991	
Smear+	43.2%
Smear- Culture+	13.5%
Smear- Culture-	40.0%
Unknown	3.3%

APPENDIX 58

Chest X-ray 1990 & 1991

	Full size film		Size 70 mm		Total	
	1990	1991	1990	1991	1990	1991
East Kowloon	18,071	19,713			18,071	19,713
Kowloon	22,030	20,952			22,030	20,952
Kwai Chung	20,292	20,809			20,292	20,809
Sai Ying Pun	15,357	16,421			15,357	16,421
Shaukiwan	9,144	8,838			9,144	8,838
Shek Kip Mei	16,269	18,976			16,269	18,976
Wanchai	24,416	28,501			24,416	28,501
Yaumati	20,939	21,562			20,939	21,562
Yung Fung Shee	8,011	7,901			8,011	7,901
Aberdeen	720	-			720	-
Yan Oi	9,081	8,510			9,081	8,510
Cheung Chau	75	72			75	72
Sai Kung	392	315			392	315
Shatin	2,089	2,007			2,089	2,007
Sheung Shui	2,010	1,815			2,010	1,815
Stanley P H	378	211			378	211
Tai Lam A T C	168	109			168	109
Tai O	51	15			51	15
Tai Po	2,023	3,210			2,023	3,210
Yuen Long	3,760	2,005			3,760	2,005
Pik Uk Prison	14	12			14	12
Total (Chest Service)	175,290	181,954	-	-	175,290	181,954
Total (Other Service)#	35,705	32,010	12,680	8,595	48,385	40,605
Grand Total	210,995	213,964	12,680	8,595	223,675	222,559

Including survey centres, social hygiene, ante-natal and OPD etc.

Note : Aberdeen Chest Clinic was closed in 1991.

APPENDIX 59

Cost of Anti-Tuberculosis Drug, 1991

Drug	Average Daily Dose	Price (HK\$)	Daily Cost		
			1990 (HK\$)	1991 (HK\$)	1991 (US\$)
Streptomycin	1 gm	\$2.17/gm	\$2.17	\$2.17	27.821 cents
INH Tablets	300 mgm	\$1.87/100	5.61 cents	5.51 cents	0.719 cents
Ethionamide	0.5 - 0.75 G.	\$145/100 of 0.125 G	20.76 cents	\$5.80	74.359 cents
Prothionamide	0.5 - 0.75 G.	\$154/100 of 0.250 G	\$3.08	\$3.08	39.487 cents
Pyrazinamide	1.5 - 2 G.	\$24.51/100 of 0.5 G	69.03 cents	73.53cents	9.427 cents
Kanamycin	3/4 vial	\$4.5/vial	\$3.38	\$3.38	43.333 cents
Ethambutol	800 - 1200 mgm.	\$70.56/100 of 0.4 G.	\$1.37	\$1.41	18.077 cents
Rifampicin	450 - 600 mgm.	\$103.92/100 of 150 mgm.	\$3.04	\$3.12	40.000 cents

Average dose		Regimen	Average Cost	
S	1 G.	H 800 mg	\$526.00	\$536.38
Z	2.5G.	R 600 mg	\$390.60	\$400.40
		2SHR ₃ /4HR ₃		\$68.77
		4SHR ₃		\$51.33

NOTE : US\$1.00 = HK\$7.80

APPENDIX 60

Establishment & Strength of Chest Service

As at 31.12.91

Post	Establishment		Strength	
	Nov91	Dec91	Nov91	Dec91
Consultant Chest Physician	4	1	4	1
Senior Medical & Health Officer	12	6(a)	11(b)	6
Medical and Health Officer	36	21	35(c)	20
Senior Nursing Officer	1	1	1	1
Nursing Officer	12	12	13	13
Registered Nurse	48	48	47	47
Enrolled Nurse	125	125	118	118
Senior Dispenser	1	1	1	1
Dispenser	9	9	9	9
Senior Inoculator	3	3	3	3
Inoculator	38	38	18	18
Executive Officer I	-	-	1(d)	1
Senior Clerical Officer	1	1	1	1
Statistical Officer II	2	2	2	2
Senior Personal Secretary	1	1	1	1
Clerical Officer I	15	15	15	15
Clerical Officer II	25	25	25	25
Clerical Assistants	46	46	42	42
Typist	2	2	2	2
Office Assistants	24	24	24	24
Workman II	51	51	51	51
Watchman	2	2	2	2
Medical Social Worker	0	0	12(e)	12
Senior Radiographer	1	1	1	1
Senior X-ray Assistant	14	14	13	13
X-ray Assistant	20	20	20	20
Darkroom Technician	14	14	14	14

(a) Including 1 Senior Radiologist in Chest Service

(b) 1 SMO on study leave

(c) 1 MO attached to PWH for study

(d) Supernumerary post

(e) Seconded from Social Welfare Department

APPENDIX 61

Annual Expenditure on Chest Service 1991/92

		<u>1991/92</u>	<u>1990/91</u>
		\$	₹
1. Drugs, Dressing, Instruments, Consumables and Sundries, and BCG vaccine		8,171,081*	7,458,529
2. Subvention to TB Hospitals		231,510,319	178,388,214
	Grantham Hospital	84,787,760	
	Ruttonjee Hospital	64,979,513	
	Tung Wah Group of Hospitals	47,855,295	
	Haven of Hope Hospital	33,887,751	
3. X-ray films and radiology equipment		572,900	736,000
4. Investigation at Pathological Institutes		9,071,892	6,536,606
5. Department of Health			
	Staff Cost (Chest Service)	(Note 1) 71,141,466	68,049,497
	Other Charges	(Note 1 & 2) 1,008,418	1,260,827
GRAND TOTAL		<u>321,476,076</u>	<u>262,929,673</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 1991-92 is that the amount spent on medical instruments and other supplies and equipment has decreased.

* Cost on T.B. drugs	3,504,743
BCG vaccine	302,358

Appendix 62

Subventions to Hospitals with TB Beds 1991/92

Hospital	1990/92 Total Subvention (Actual Payment) \$	Class	Total TB Beds	Subvented Beds	Subvention in respect of TB Bed	
					1991/92 \$	Subvention per Bed-day \$
Ruttonjee Hospital	92,213,574	Public Ward	272	386	64,979,513	655
Haven of Hope	64,673,103	Public Ward	142	271	33,887,751	654
Tung Wah Group	1,018,209,264 [#]	Public Ward	177	3766	47,855,295	741
Grantham	166,633,359	Public Ward	317	623	84,787,760	733

[#] Excl. capital subvention for the TWEH - Para-medical Block project.

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 1982 - 1991
2. Crude Annual Death Rate of Tuberculosis and Malignant Neoplasm of Trachea, Bronchus and Lung 1955 - 1991 (Graph)
3. Deaths and Death rate 1951 - 1991
4. Sex ratio of Deaths 1951 - 1991
5. Percentage distribution of Deaths by age group 1981 - 1991
6. Age-specific-death rate per 100,000 population 1976, 1981, 1986 & 1991
7. Mortality Rate of Tuberculosis and Malignant Neoplasm of Trachea, Bronchus and Lung by age and sex 1991 (Graph)
8. Deaths by age group and sex and by rate per 100,000 population 1991
9. Deaths and death rate per 100,000 population by Epidemiological districts by place of last residence 1991
10. Deaths by place of origin 1991
11. Deaths by Hospital/place of death 1991
12. Main causes of death from cancer in Hong Kong 1982 - 1991
13. In-patients treated for Malignant Neoplasm of Trachea, Bronchus and Lung in hospitals and all deaths in Hong Kong 1951 - 1991

APPENDIX 1

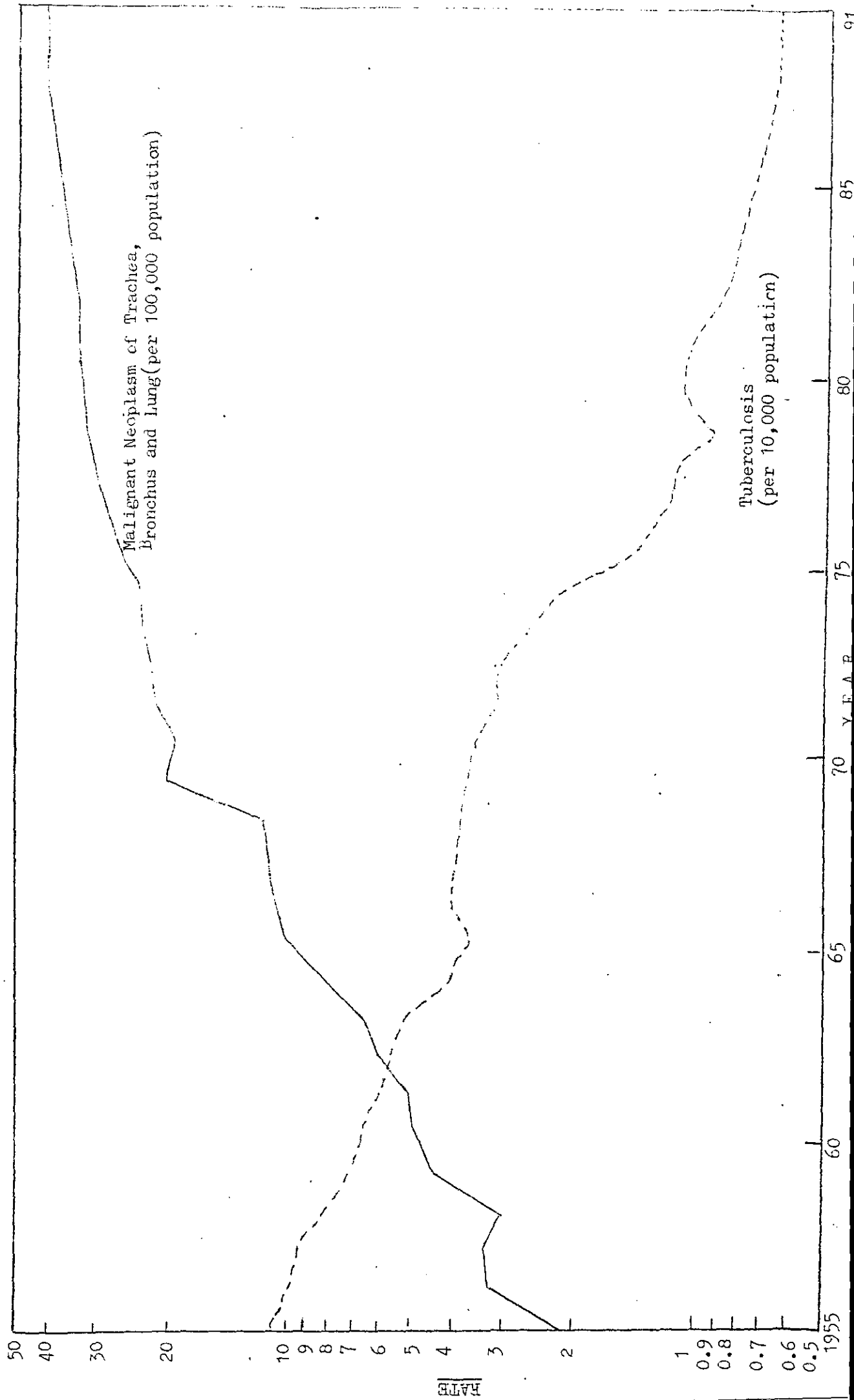
Deaths from Malignant Neoplasm of Trachea, Bronchus & Lung by age and sex 1982 - 1991

Age	Sex	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
0 - 9	M	-	-	1	-	-	-	-	-	-	-
	F	1	-	-	-	-	-	-	-	-	-
10 - 19	M	-	1	1	-	1	-	1	-	-	-
	F	-	-	-	-	-	-	-	-	-	1
20 - 29	M	1	2	1	6	2	1	1	3	2	1
	F	5	2	-	4	1	4	-	5	1	4
30 - 34	M	5	4	10	77	5	7	4	6	4	9
	F	5	1	8	2	2	2	4	5	4	4
35 - 39	M	11	14	11	14	9	12	16	17	8	11
	F	6	1	2	9	7	12	13	12	12	5
40 - 44	M	23	19	21	19	39	18	19	34	27	38
	F	13	6	10	17	10	14	10	14	13	15
45 - 49	M	65	57	46	56	46	55	40	43	47	49
	F	29	16	20	12	22	17	9	7	11	23
50 - 54	M	134	121	134	149	130	120	109	120	197	103
	F	35	29	33	40	42	38	33	33	31	24
55 - 59	M	180	197	186	200	201	204	188	204	225	178
	F	65	62	69	61	67	51	64	75	70	46
60 - 64	M	236	276	258	248	291	279	257	286	300	297
	F	119	109	93	110	113	107	98	92	88	86
65 - 69	M	241	285	274	269	311	318	275	343	329	321
	F	129	94	117	138	143	141	150	136	144	132
70 - 74	M	186	212	222	260	249	313	286	336	325	318
	F	105	121	167	140	165	170	153	172	146	167
75+	M	181	182	228	279	253	282	304	339	412	389
	F	187	191	216	243	239	303	327	310	342	374
All ages	M	1263	1370	1393	1457	1537	1609	1500	1731	1776	1716(2)
	F	699	632	735	766	811	856	861	862	862	881
	T	1962	2002	2128	2223	2348	2465	2361	2592	2638	2597

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 - 1991



APPENDIX 3

Deaths and Death rate 1951 - 1991

(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	3,722,300	457	11.7	18.7	60
1968	3,802,700	466	12.3	18.5	61
1969	3,863,900	737	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	26.7	64
1982	5,264,500	1,962	37.3	27.8	64
1983	5,345,100	2,002	37.5	26.7	65
1984	5,397,900	2,128	39.4	27.4	65
1985	5,456,200	2,223	40.7	27.6	66
1986	5,524,600	2,348	42.5	27.9	66
1987	5,580,500	2,465	44.2	28.3	67
1988	5,627,600	2,361	42.0	27.3	67
1989	5,686,200	2,592	45.6	28.2	67
1990	5,704,500	2,638	46.2	28.5	67
1991	5,754,800	2,597	45.1	28.3	67

* Standardisation based on 1971 mid-year population estimate.

APPENDIX 4

Sex Ratio of Deaths 1951 - 1991

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.	1.3
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	8.3	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	2.0	58.3	31.3	45.1

APPENDIX 5

Percentage Distribution of Deaths by Age Group

1981 - 1991

Age Group	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
0 - 9	0.1	0.1	-	-*	-	-	-	-	-	-	-
10 - 19	0.2	-	-*	-*	-	-*	-	-	-	-	-*
20 - 29	0.4	0.3	0.2	-*	0.4	0.2	0.2	-	0.3	0.1	0.2
30 - 39	0.5	0.5	0.2	0.8	0.4	0.3	0.4	0.3	0.4	0.3	0.5
40 - 49	0.9	0.3	0.7	0.6	1.0	0.7	1.0	1.0	1.1	0.8	0.6
50 - 59	1.5	1.3	1.2	1.5	1.2	2.1	1.2	1.3	1.2	1.5	2.0
60 - 69	4.5	4.3	3.6	3.1	3.1	2.9	2.9	2.1	1.2	2.2	2.8
70 - 79	3.5	3.6	7.5	7.9	3.5	7.3	6.4	6.0	5.0	4.9	4.9
80 - 89	13.3	12.5	12.9	12.0	12.2	11.4	10.3	10.7	10.0	11.2	8.6
90 - 99	17.0	18.1	19.3	16.5	16.1	17.2	15.7	15.0	14.6	14.7	14.8
100 - 109	18.5	18.9	19.0	13.4	13.3	10.3	13.6	13.0	13.5	17.9	17.5
110 - 119	17.0	14.8	16.7	13.3	13.0	17.6	19.6	13.6	13.6	17.9	18.7
120 +	17.6	13.8	18.7	20.9	20.2	21.0	23.7	26.7	25.	23.0	29.4
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

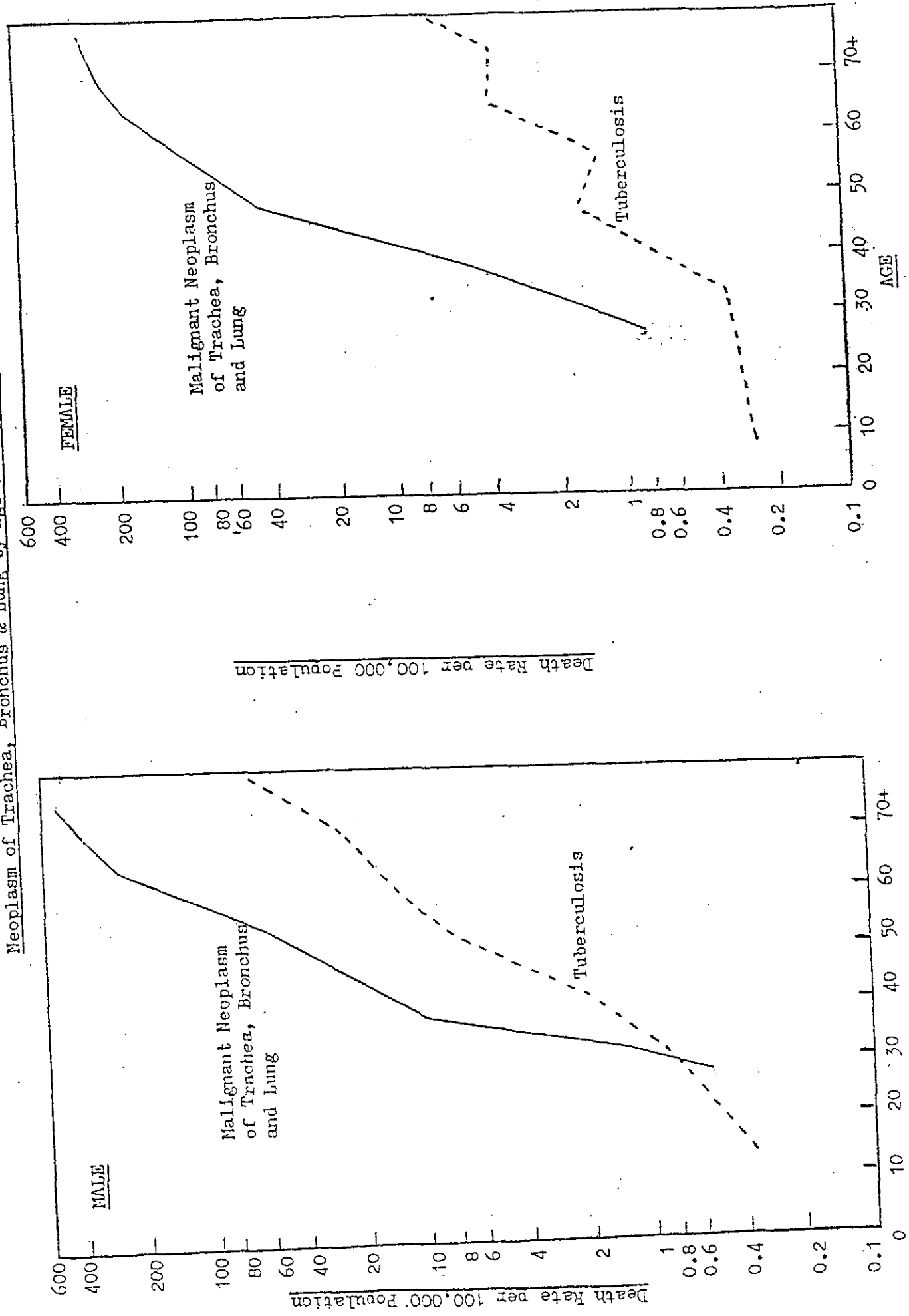
Age-specific-death rates per 100,000 population

1976, 1981, 1986 and 1991

Age Group	1976			1981			1986			1991		
	M	F	T	M	F	T	M	F	T	M	F	T
0 - 9	-	-	-	0.2	-	0.1	-	-	-	-	-	-
10 - 19	-	0.6	0.3	0.6	-	0.3	0.2	-	0.1	-	0.3	0.1
20 - 29	0.7	-	0.4	1.0	0.2	0.6	0.3	0.2	0.3	0.2	0.8	0.5
30 - 34	4.0	2.1	3.2	3.5	0.5	2.1	1.9	0.8	1.4	2.8	1.3	2.1
35 - 39	7.7	6.8	7.3	8.4	4.6	6.8	4.0	3.6	3.8	4.1	2.0	3.1
40 - 44	13.8	11.7	12.8	11.6	8.8	10.4	27.7	8.8	19.2	17.0	7.6	12.6
45 - 49	34.3	14.6	24.9	38.1	21.0	30.3	32.6	18.7	26.3	34.9	20.2	28.3
50 - 54	88.6	37.2	63.7	82.1	32.1	58.7	88.1	33.1	62.7	73.9	21.0	50.0
55 - 59	138.8	64.0	101.8	160.4	56.8	110.2	151.9	55.1	105.6	127.4	37.6	47.3
60 - 64	212.0	131.6	171.2	234.0	96.5	165.5	269.2	105.0	187.3	238.8	73.5	158.7
65 - 69	299.5	140.9	209.1	356.3	124.5	233.9	390.2	166.5	274.2	345.2	134.6	237.1
70 - 74	410.6	178.6	259.6	516.3	184.2	320.9	447.8	239.8	332.8	495.3	221.8	347.7
75+	442.2	223.7	283.2	416.1	267.0	312.0	582.9	263.8	367.2	611.6	351.5	448.8
Total	34.7	24.2	29.5	44.4	25.2	35.2	54.0	30.3	42.5	58.3	31.3	45.1

APPENDIX 7

Mortality Rate of Tuberculosis and Malignant Neoplasm of Trachea, Bronchus & Lung by Age & Sex, 1991



APPENDIX 8

Deaths by age group and sex and by rate
per 100,000 population, 1991

Age Group	Deaths			Rate		
	Male	Female	Total	Male	Female	Total
0 - 9	-	-	-	-	-	-
10 - 19	-	1	1	-	0.3	0.1
20 - 29	1	4	5	0.2	0.8	0.5
30 - 34	9	4	13	2.8	1.3	2.1
35 - 39	11	5	16	4.1	2.0	3.1
40 - 44	38	15	53	17.0	7.6	12.6
45 - 49	49	23	72	34.9	20.2	28.3
50 - 54	103	24	127	73.9	21.0	50.0
55 - 59	178	46	224	127.4	37.6	47.3
60 - 64	297	86	383	238.8	73.5	158.7
65 - 69	321	132	453	345.2	134.6	237.1
70 - 74	318	167	485	495.3	221.8	347.7
75+	389	374	763	611.6	351.5	448.8
Total	1716(2)	881	2597(2)	58.3	31.3	45.1

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
1991

Epidemiological District	Deaths	Death Rate
<u>Hong Kong Island</u>	595	47.4
Central & Western	101	39.8
Wanchai	134	74.0
Eastern	240	42.7
Southern	120	46.5
<u>Kowloon</u>	1,099	53.9
Yau Ma Tei	110	98.2
Mong Kok	77	45.0
Sham Shui Po	256	67.0
Kowloon City	160	39.6
Wong Tai Sin	228	58.8
Kwun Tong	268	46.2
<u>New Territories</u>	884	37.1
North	45	27.1
Tai Po	70	34.5
Shatin	82	16.1
Sai Kung	14	10.7
Islands	37	77.1
Tsuen Wan	96	35.2
Kwai Chung & Tsing Yi	276	62.4
Tuen Mun	67	17.5
Yuen Long	197	85.3
<u>Imported</u>	2	3.3
<u>Marine</u>	1	5.6
Unknown	16	-
Total	2,597	45.1

APPENDIX 10

Deaths by place of Origin, 1991

Place of Origin	Deaths
Hong Kong	2
Canton, Macau and adjacent places	1,385
Sze Yap	501
Chiu Chau	233
Elsewhere in Kwantung Province	207
Elsewhere in China	173
Other Asian Countries	3
Britain	-
All other Countries	1
Unknown	92
Total	2,597

APPENDIX 11

Deaths by Hospital/Place of death 1991

Hospital/place of death	Cases
Queen Elizabeth	234
Kowloon	146
Princess Margaret	104
Queen Mary	120
Prince of Wales	168
St John	5
Fanling	42
Kwong Wah	88
Tung Wah	47
Tung Wah Eastern	7
Siu Lam	2
Wong Tai Sin Infirmary	141
Caritas Medical Centre	169
Alice Ho Miu Ling Nethersole	6
United Christian	49
Maryknoll	23
Hong Kong Buddhist	84
Pok Oi	50
Van Chai	5
Nam Long	304
Grantham	125
Ruttonjee Sanatorium	88
Haven of Hope Sanatorium	128
St Teresa's	78
Hong Kong Sanatorium & Hospital	73
St Paul's	45
Canossa	8
Hong Kong Adventist Sanatorium & Hospital	5
Adventist Sanatorium & Hospital	6
Baptist	68
Hong Kong Central	3
Precious Blood	2
Castle Peak	2
Evangel Medical Centre	6
At home	4
Monastery/old people's home	2
Died before arrival/on arrival to hospital	160
Total	2,597

Main Causes of Death from Cancer in Hong Kong 1982 - 1991

Causes of Death Detailed List No. 9th Revision	1982		1983		1984		1985		1986		1987		1988		1989		1990		1991	
	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)	6310	129.4	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
Malignant Neoplasm of Nasopharynx (147)	482	9.2	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	8.0
Malignant Neoplasm of Oesophagus (150)	333	6.3	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
Malignant Neoplasm of Stomach (151)	462	8.8	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
Malignant Neoplasm of Colon (153)	370	7.0	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
Malignant Neoplasm of rectum, recto- sigmoid junction and anus (154)	215	4.1	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
Malignant Neoplasm of Liver and Intrahepatic Bile Ducts (155)	887	16.8	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
Malignant Neoplasm of Trachea, Bron- chus and Lung (162)	1962	37.3	2002	37.5	2128	39.4	2223	40.7	2348	42.5	2465	44.2	2361	2.0	2592	45.6	2638	46.2	2597	45.1
Malignant Neoplasm of Breast (174)	202	8.0	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
Malignant Neoplasm of Cervix Uteri (180)*	108	4.3	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

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 - 1991

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

PART 3

PNEUMOCONIOSIS

Contents

Appendix No.

1. Voluntary Notifications of Silicosis attending the Pneumoconiosis Clinic in Hong Kong 1956 - 1991
2. Age Distribution of Confirmed Pneumoconiosis Cases 1991
3. Confirmed Pneumoconiosis Patients by Total Duration of Exposure to Dust when Presenting at the Pneumoconiosis Clinic, 1991
4. Confirmed Pneumoconiosis Patients by Sputum Result, 1991
5. Confirmed Pneumoconiosis Patients by Correlation between the Degree of Permanent Incapacity and the Greater Degree of Incapacity 1991
6. Confirmed Pneumoconiosis Patients classified by Radiological Appearance, 1991
7. Confirmed Pneumoconiosis Patients by Other Particulars, 1991

APPENDIX 1

Notifications of Silicosis attending the Pneumoconiosis Clinic in Hong Kong 1956 - 1991

Year	Number Notified			Cumulative Total	Cumulative Total Compensated
	Government Workers	Non-government Workers	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

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

APPENDIX 2

Age Distribution of Pneumoconiosis Cases 1991

Age	Number of Cases	%
25 - 29	-	-
30 - 34	1	1
35 - 39	2	1
40 - 44	18	11
45 - 49	25	15
50 - 54	34	19
55 - 59	35	20
60 - 64	38	22
65 - 69	12	7
70 - 74	5	3
75+	1	1
Total	171	100

APPENDIX 3

Pneumoconiosis Patients by Duration of Exposure to Dust 1991

Duration	Number of Cases	%
>5 years	1	1
5 - 9	2	1
10 - 14	17	10
15 - 19	33	19
20 - 24	38	22
25 - 29	40	23
30+	39	23
Unknown	1	1
Total	171	100

APPENDIX 4

Pneumoconiosis Patients by Sputum Status of Mycobacterium TB 1991

Sputum	Number of Cases	%
Positive	40	23
Negative	129	76
N.A.	2	1
Total	171	100

APPENDIX 5

Pneumoconiosis Patients by Correlation between the Degree of Permanent Incapacity and the Greater Degree of Incapacity, 1991

Classification	Degree of Permanent Incapacity (%)														Total	
	10	15	20	25	30	35	40	45	50	55	60	70	80	100		
Greater Degree of Incapacity (%)	Nil									1						1
	2.5															-
	5	99	8	10	1	1	1									120
	7.5				1			1								2
	10			14	7	12	2	3								38
	12.5															-
	15				1	2	1	2	2							8
	17.5															-
	20										1	1				2
	22.5															-
25															-	
Total	99	8	24	10	15	4	6	2	1	-	1	1	-	-	-	171

APPENDIX 6

Confirmed Pneumoconiosis Patients Classified by Radiological Appearance, 1991

Type of Opacity	Profusion			Sub-Total
	1	2	3	

Small opacities				

Rounded				

p (up to 1.5 mm diameter)	7	10	-	17
q (1.5 - 3 mm diameter)	2	27	6	35
r (3 - 10 mm diameter)	1	2	1	4
Irregular				

s (fine irregular or linea	11	2	-	13
t (medium irregular)	9	54	4	67
u (coarse irregular)	1	2	4	7
Sub-total	31	97	15	143

Combined opacities	1	4	2	7

Large opacities				

A (Single opacity 1-5 cm or multiple opacities >1 cm each but sum of diameter <5 cm)				14
B (Single or multiple opacities with combined area < the equivalent of right upper zone)				6
c (Single or multiple opacities with combined area > the equivalent of right upper zone)				1
Sub-total				21

Total				171

APPENDIX 7

Pneumoconiosis Patients by Other Particulars 1991

Characteristics		Number of Cases	%
Smoking	Smoker/Ex-smoker	147	86
	Non-smoker	22	13
	Unknown	2	1
	Total	171	100
Still exposed to dust when seen by the Pneumoconiosis Clinic	Yes	49	29
	No	120	70
	Unknown	2	1
	Total	171	100
General Condition	Good	168	98
	Fair	2	1
	Poor	1	1
	Total	171	100

