

ANNUAL REPORT 1993

CHEST SERVICE

OF THE

GOVERNMENT DEPARTMENT OF

HEALTH

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Preface

The resurgence of tuberculosis caught worldwide concern in recent few years. In April 1993, the World Health Organization (WHO) has declared global emergency of tuberculosis. It was estimated that tuberculosis will be the leading cause of death for 3 million deaths per year - the biggest number resulting from one single infecting agent.

The devastating link between TB and HIV was causing an explosion of tuberculosis cases in some countries. Other than HIV infected cases, most of the tuberculosis cases were found among the poor, the homeless and the migrants. Furthermore, the problem of drug resistance is very alarming. In the face of this health threat, WHO has called for strengthening preventive and control measures on tuberculosis in all countries so as to achieving its global target of TB control by the year 2000 as below :-

- (a) treat 85% of detected smear positive cases successfully.
- (b) detect 70% of smear positive cases.

In 1993, the Tuberculosis and Chest Service continued to maintain its effective control on tuberculosis in Hong Kong. Standardized 6-month short-course chemotherapy was given under full supervision to the patients. For the purpose of monitoring, evaluation of treatment results using quarterly and annual cohort analysis were carried out.

Close collaboration and co-operation with hospital chest units in fighting tuberculosis was very important. Through the meetings of Tuberculosis and Chest Sub-committee, established by the Hospital Authority co-ordination between government chest service and individual hospital chest units particularly in aspects of patient referrals, hospital admission/discharge, and follow-up management has slightly improved. To further enhance mutual effectiveness on both policy and operational levels, a committee comprised also with officers from high administrative rank had to be formed in near future.

The shortage of senior medical staff remained a serious problem in the service. Out of seven SMO posts, only three were filled by substantive SMO with higher medical qualification and adequate medical experience. Inadequate senior medical staff created difficulties on staff management, supervision and training of junior doctors.

After the split of hospital-based and out-patient chest service, clinic doctors were not allowed to have access to hospitals. The lack of hospital training not only weakened the incentive and interest of doctors in the Service, but also failed to provide for them the necessary requirement of 3-year basic training in general medicine in acute hospital for MRCP qualification and the 3 years subspecialty training in

respiratory medicine for subspecialty accreditation by the Hong Kong Academy of Medicine. The Service was thus encountering problems in retaining and attracting capable and competent doctors.

Despite of various problems, the Service has maintained an effective delivery of service to the public. Quality curative medical care were also provided to patients with different kinds of chest diseases besides tuberculosis.

BCG vaccination, surveillance, contact tracing, supervised chemotherapy, research, and health education remained as the major components of our effective tuberculosis control programme. The notification of tuberculosis increased by 3 cases in 1993, but the rate has not increased because of the growth of the population.

During the year, 84,540 patients attended the government chest service compared with 92,574 in 1992, the total attendance was 730,563 compared with 727,081 in 1992. Of the 84,540 patients, 37,366 patients were new attendants of whom 39.3% were found free of any chest disease. The most common respiratory illness diagnosed were respiratory tuberculosis (12.0%), pneumonia (3.6%), bronchiectasis (1.8%), malignant neoplasm of trachea and bronchus (2.7%), bronchitis (6.9%), asthma (0.7%) and emphysema (0.4%). Of the attending patients, 5,159 required hospital admission.

Part I : Tuberculosis

The tuberculosis notifications in 1993 was 6,537 making a notification rate of 110.4 per 100,000 population, the corresponding figures in 1992 were 6,534 and 112.4.

The tuberculosis deaths decreased from 410 in 1992 to 396 in 1993 and the mortality rate was changed from 7.1 to 6.7 per 100,000 population from 1992 to 1993.

Tuberculosis was still in the eleventh position of the leading cause of death and tuberculosis deaths accounted for 1.3% of the total registered deaths in Hong Kong. There was one infant death from miliary tuberculosis in 1993. The average age of death was 69.

In 1993, 99.6% of the new-borns were BCG vaccinated at birth and 70.6% 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, yet the positive rate was very low.

Part II : Malignant neoplasm of trachea, bronchus and lung

In 1993, the number of inpatients suffering from malignant disease of trachea, bronchus and lung were 12,371 compared with 11,670 in 1992. 2,834 were certified deaths from malignant neoplasm of bronchus and the crude death rate of the disease was 47.9 per 100,000 population. The corresponding figures in 1992 were 2,761 and 47.5. Ca lung was still a serious problem. Anti-smoking campaign and activities should be stepped up.

Part III : Pneumoconiosis

In July 1993, the new Pneumoconiosis Compensation Amendment Bill was enacted to provide more comprehensive and continued compensation to the patients for incapacity resulting

from pneumoconiosis. The scheme adopts a new assessment system, replaces the one-off payment method by a monthly payment of compensation and introduces a two-year re-examination system for all pneumoconiosis. 249 cases of silicosis were registered in the chest service in 1993, and 229 cases including 4 cases of asbestosis were assessed by the medical board and 154 cases compensated. Up to the end of 1993, a total of 3,984 patients had been compensated \$233,435,416.

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TUBERCULOSIS

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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
1993	6,537 (264) 89	110.4

* 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

1982 - 1993

Origin	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
East Kowloon Chest Clinic	551	567	597	393	358	371	338	293	311	269	280	298
Kowloon Chest Clinic	990	834	1168	1191	1275	1149	1191	1227	1218	1117	950	894
Kwai Chung Chest Clinic	570	542	617	601	594	584	504	478	490	515	556	583
Sai Ying Pun Chest Clinic	365	454	350	357	324	286	231	262	259	245	262	288
Shauiwan Chest Clinic	240	232	187	199	211	165	138	131	150	141	188	180
Shek Kip Mei Chest Clinic	461	436	477	497	392	346	320	357	331	352	392	290
Wanchai Chest Clinic	589	506	713	648	627	629	771	729	643	580	729	717
Yaumati Chest Clinic	529	510	629	552	447	367	330	370	332	264	343	296
NT Chest Clinic	264	262	224	255	436	481	449	406	422	402	422	511
Yan Oi Chest Clinic (d)	104	166	214	219	225	202	190	226	282	330	291	313
Yung Fung Shee Chest Clinic (e)	-	-	20	206	207	174	163	206	226	238	281	276
	4663	4509	5196	5118	5096	4754	4625	4685	4664	4453	4694	4646
Other Govt Institutions (a)	594	634	506	432	577	493	464	374	466	463	593	612
Tung Wah Group (b)	314	385	319	394	254	309	274	240	218	238	238	338
Caritas Medical Centre	5	8	12	7	3	5	7	8	13	8	11	29
Ruttonjee Sanatorium	773	743	831	651	626	744	792	651	544	493	305	346
Maryknoll Hospital	92	102	93	96	89	91	105	63	79	50	55	48
Grantham Hospital	347	324	340	335	227	379	384	347	323	423	273	269
Haven of Hope Sanatorium	385	370	353	288	235	174	165	158	88	51	91	117
United Christian Hospital	14	17	29	16	26	11	26	13	33	24	32	36
Others (c)	340	209	164	208	299	309	179	165	82	80	N.A.	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.	23	7
Private Practitioners	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	219	89
Total	7527	7301	7843	7545	7432	7269	7021	6704	6510	6283	6534	6537
% of cases from Chest Clinics among the total	62.0	61.8	66.3	67.8	68.6	65.4	65.9	69.9	71.6	70.9	71.8	71.1

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 - 1993

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)
1993	1,345 (106.7)	2,469 (124.8)	2,396 (91.5)	327 *	6,537 (110.4)

* Figure includes Vietnamese Refugees and imported cases.

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

APPENDIX 4

Tuberculosis Notifications & Notification Rates (per 100,000 population) by Epidemiological Districts 1992 - 1993

Epidemiological Districts	1992		1993	
	Notification	Notification Rate	Notification	Notification Rate
<u>Hong Kong Island</u>	1,327	103.8	1,345	106.7
Central & Western	275	110.9	271	103.4
Wanchai	216	124.1	201	106.9
Eastern	585	99.7	598	107.7
Southern	251	93.7	275	108.3
<u>Kowloon</u>	2,626	134.8	2,469	124.8
Yau Ma Tei	190	169.6	161	127.8
Mong Kok	231	151.0	258	151.8
Sham Shui Po	560	158.6	510	138.6
Kowloon City	411	109.3	369	96.9
Wong Tai Sin	499	136.7	509	132.6
Kwun Tong	735	124.8	662	120.6
<u>New Territories (East)</u>	879	77.8	967	81.3
North	132	82.0	149	79.3
Tai Po	190	79.8	213	79.5
Shatin	411	78.1	427	81.8
Sai Kung	98	63.2	122	74.4
Islands	48	96.0	56	116.7
<u>New Territories (West)</u>	1,351	97.7	1,429	99.9
Tsuen Wan	290	103.6	283	105.6
Kwai Chung & Tsing Yi	563	124.3	582	129.6
Tuen Mun	312	71.9	338	77.9
Yuen Long	186	86.1	226	81.0
Others	351		327	
Imported	2		1	
Vietnamese Refugees	309		264	
Unknown	40		62	
Total	6,534	112.4	6,537	110.4

APPENDIX 5

Tuberculosis Notifications (All Forms) by Age and Sex 1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
Under 1	2	1	3	—	1	1	4	2	6
1	11	8	19	7	4	11	7	3	10
2	6	4	10	7	7	14	7	2	9
3	9	2	11	5	6	11	6	5	11
4	4	5	9	5	4	9	4	1	5
5 – 9	27	21	48	11	8	19	14	15	29
10 – 14	32	42	74	29	37	66	24	29	53
15 – 19	336	295	631	199	160	359	143	153	296
20 – 24	674	469	1143	322	241	563	327	268	595
25 – 29	553	399	952	322	317	639	301	285	586
30 – 34	351	184	535	390	272	662	336	242	578
35 – 39	249	97	346	297	181	478	286	197	483
40 – 44	261	70	331	294	119	413	277	141	418
45 – 49	355	95	450	256	61	317	218	74	292
50 – 54	434	96	530	282	81	363	277	66	343
55 – 59	491	121	612	402	79	481	400	75	475
60 – 64	411	104	515	479	111	590	480	118	598
65 – 69	370	96	466	430	90	520	455	119	574
70 – 74	272	73	345	338	93	431	372	116	488
75 – 79	95	51	146	247	66	313	267	87	354
80 – 84	48	45	93	116	65	181	122	67	189
85 & over	12	18	30	43	32	75	58	62	120
Unknown	2	—	2	15	3	18	17	8	25
Total	5005	2296	7301	4496	2038	6534	4402	2135	6537

APPENDIX 6

Notifications of Tuberculosis of - Respiratory System (010 - 012) by Age and Sex 1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
Under 1	2	1	3	-	1	1	4	2	6
1	6	7	13	6	4	10	4	2	6
2	4	3	7	5	5	10	5	2	7
3	8	2	10	4	4	8	5	4	9
4	3	4	7	5	2	7	4	1	5
5 - 9	21	14	35	6	4	10	11	10	21
10 - 14	26	35	61	26	28	54	22	22	44
15 - 19	327	269	596	183	142	325	133	136	269
20 - 24	643	434	1077	309	213	522	304	243	547
25 - 29	525	360	885	304	278	582	272	240	512
30 - 34	329	155	484	365	229	594	315	206	521
35 - 39	239	83	322	276	152	428	265	160	425
40 - 44	247	59	306	272	98	370	263	109	372
45 - 49	343	82	425	252	48	300	207	58	265
50 - 54	423	86	509	274	70	344	271	54	325
55 - 59	482	110	592	390	64	454	390	61	451
60 - 64	395	97	492	466	100	566	473	101	574
65 - 69	363	89	452	418	80	498	449	100	549
70 - 74	264	68	332	330	80	410	365	102	467
75 - 79	92	46	138	244	62	306	262	79	341
80 - 84	47	41	88	113	62	175	120	65	185
85 & over	12	18	30	42	32	74	56	61	117
Unknown	2	-	2	13	3	16	17	6	23
Total	4803	2063	6866	4303	1761	6064	4217	1824	6041

APPENDIX 7

Notifications of Tuberculosis of Meninges (013) by Age and Sex 1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	2	-	2	-	-	-	-	-	-
2	1	1	2	-	-	-	1	-	1
3	-	-	-	-	-	-	1	1	2
4	-	-	-	-	1	1	-	-	-
5 - 9	-	-	-	-	-	-	1	-	1
10 - 14	-	-	-	-	1	1	-	-	-
15 - 19	1	-	1	1	-	1	-	-	-
20 - 24	-	1	1	-	1	1	2	-	2
25 - 29	-	1	1	-	1	1	1	1	2
30 - 34	2	4	6	1	-	1	-	-	-
35 - 39	1	1	2	1	1	2	-	-	-
40 - 44	1	-	1	2	-	2	1	1	2
45 - 49	3	-	3	-	-	-	-	1	1
50 - 54	-	-	-	1	-	1	1	1	2
55 - 59	-	-	-	1	1	2	-	1	1
60 - 64	-	1	1	-	-	-	-	-	-
65 - 69	1	-	1	-	-	-	-	2	2
70 - 74	-	1	1	-	-	-	-	-	-
75 - 79	-	-	-	-	-	-	-	-	-
80 - 84	-	1	1	-	-	-	-	-	-
85 & over	-	-	-	-	-	-	-	-	-
Unknown	-	-	-	1	-	1	-	-	-
Total	12	11	23	8	6	14	8	8	16

APPENDIX 8

Notifications of Tuberculosis of Bones & Joints (015) by Age and Sex 1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
Under 1	—	—	—	—	—	—	—	—	—
1	1	—	1	—	—	—	1	—	1
2	1	—	1	—	—	—	—	—	—
3	—	—	—	—	—	—	—	—	—
4	1	—	1	—	—	—	—	—	—
5 – 9	—	1	1	2	—	2	1	1	2
10 – 14	2	1	3	—	—	—	1	—	1
15 – 19	2	2	4	2	1	3	—	1	1
20 – 24	4	1	5	1	—	1	—	—	—
25 – 29	2	3	5	2	—	2	1	—	1
30 – 34	2	2	4	1	1	2	1	2	3
35 – 39	—	—	—	1	1	2	1	1	2
40 – 44	2	2	4	2	1	3	2	4	6
45 – 49	1	3	4	1	1	2	3	—	3
50 – 54	1	1	2	3	1	4	—	—	—
55 – 59	1	—	1	3	2	5	1	2	3
60 – 64	7	2	9	1	2	3	4	—	4
65 – 69	1	2	3	3	—	3	2	2	4
70 – 74	—	1	1	—	3	3	3	1	4
75 – 79	—	1	1	—	2	2	—	3	3
80 – 84	—	—	—	—	—	—	1	—	1
85 & over	—	—	—	—	—	—	—	—	—
Unknown	—	—	—	1	—	1	—	—	—
Total	28	22	50	23	15	38	22	17	39

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 1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
Under 1	–	–	–	–	–	–	–	–	–
1	2	1	3	1	–	1	2	1	3
2	–	–	–	2	2	4	1	–	1
3	1	–	1	1	2	3	–	–	–
4	–	1	1	–	1	1	–	–	–
5 – 9	6	6	12	3	4	7	1	4	5
10 – 14	4	6	10	3	8	11	1	7	8
15 – 19	6	24	30	13	17	30	10	16	26
20 – 24	27	33	60	12	27	39	21	25	46
25 – 29	26	35	61	16	38	54	27	44	71
30 – 34	18	23	41	23	42	65	20	34	54
35 – 39	9	13	22	19	27	46	20	36	56
40 – 44	11	9	20	18	20	38	11	27	38
45 – 49	8	10	18	3	12	15	8	15	23
50 – 54	10	9	19	4	10	14	5	11	16
55 – 59	8	11	19	8	12	20	9	11	20
60 – 64	9	4	13	12	9	21	3	17	20
65 – 69	5	5	10	9	10	19	4	15	19
70 – 74	8	3	11	8	10	18	4	13	17
75 – 79	3	4	7	3	2	5	5	5	10
80 – 84	1	3	4	3	3	6	1	2	3
85 & over	–	–	–	1	–	1	2	1	3
Unknown	–	–	–	–	–	–	–	2	2
Total	162	200	362	162	256	418	155	286	441 *

* Including :	TB Lymph Node	304	TB Laryngitis	6
	TB Pleural Effusion	21	Miliary TB	5
	TB Kidney/Urinary System	20	Others	26
	TB Peritonitis	13	Unspecified	46

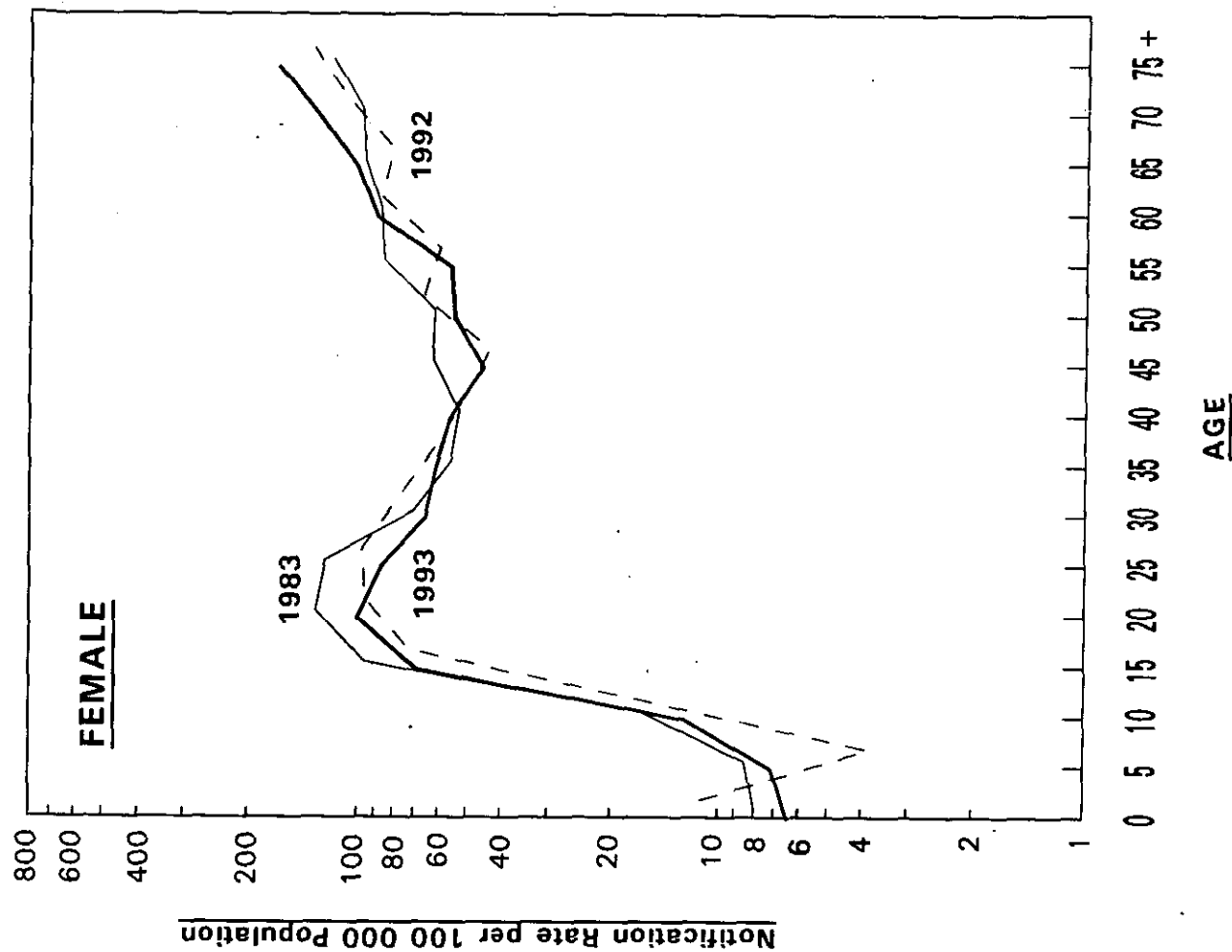
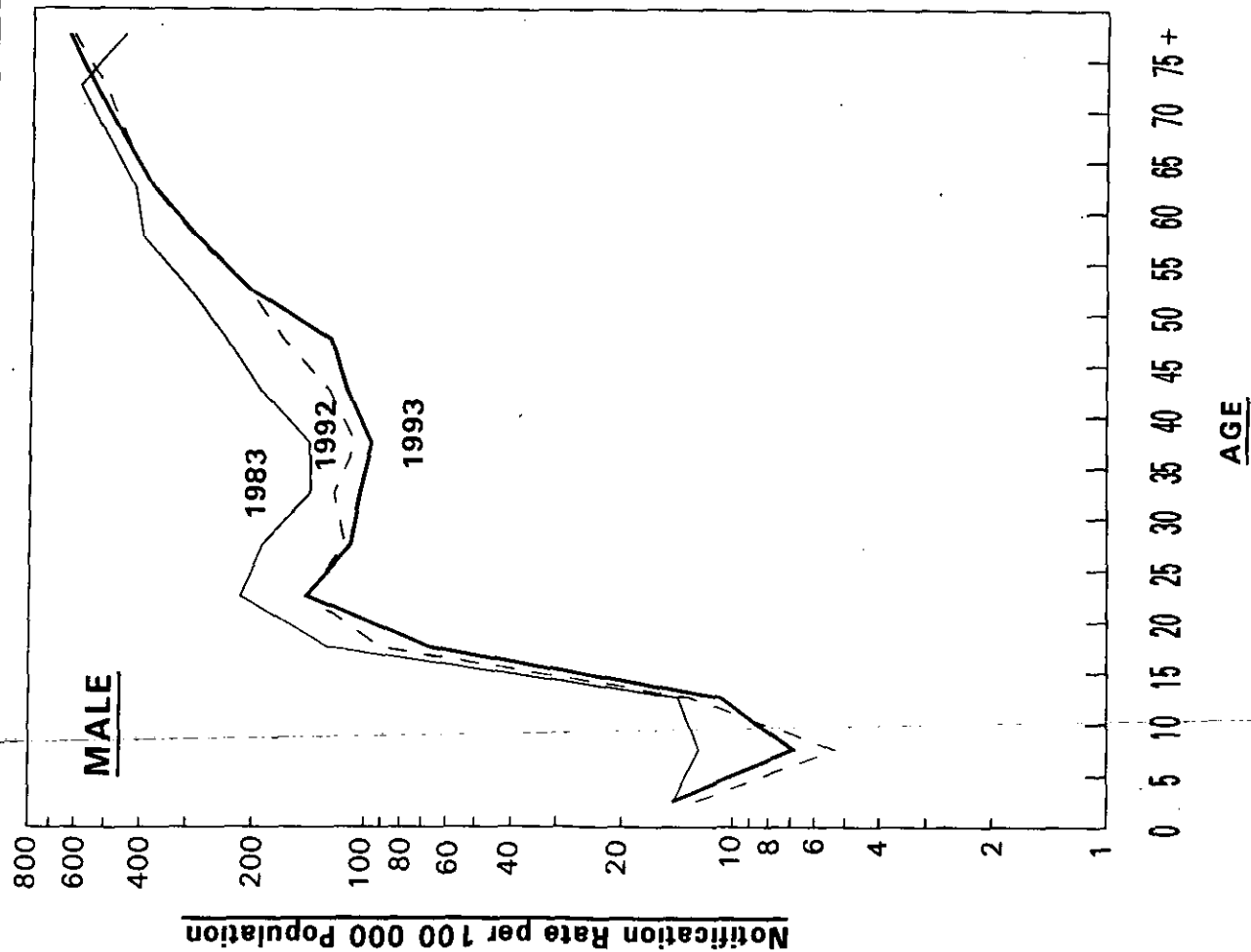
APPENDIX 10

Tuberculosis Notification Rates by Age & Sex (per 100,000 population) 1983, 1992 & 1993

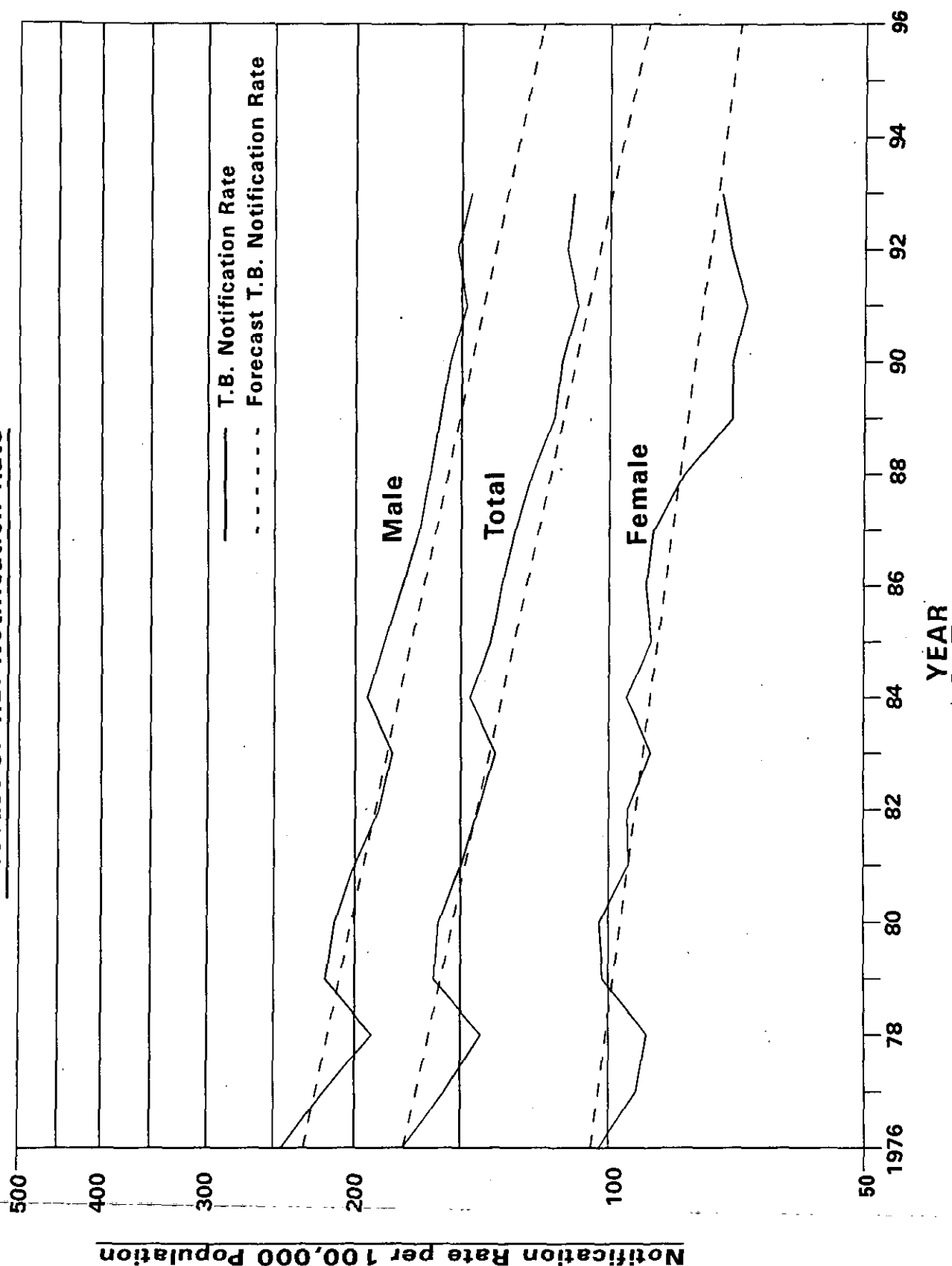
Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
0 - 4	14.5	9.7	12.2	12.6	12.4	12.5	14.6	7.3	11.1
5 - 9	12.4	10.4	11.4	5.3	4.2	4.8	6.9	8.1	7.5
10 - 14	14.1	20.0	16.9	13.1	18.1	15.5	10.8	14.1	12.4
15 - 19	125.7	117.7	121.9	91.0	79.9	85.7	67.0	78.1	72.3
20 - 24	215.3	159.9	188.5	142.8	106.2	124.4	143.5	113.8	128.4
25 - 29	188.6	150.9	170.7	113.7	107.8	110.7	109.6	98.7	104.0
30 - 34	140.9	86.0	115.5	121.7	86.3	104.1	103.6	74.5	89.1
35 - 39	141.6	68.2	108.8	106.8	68.5	88.1	96.6	69.7	83.4
40 - 44	190.8	65.0	135.4	125.3	56.7	92.9	112.1	63.8	89.3
45 - 49	237.8	76.7	164.8	166.6	48.1	113.0	125.4	51.4	91.9
50 - 54	301.0	75.9	195.9	207.7	73.7	147.7	207.0	62.0	142.8
55 - 59	398.2	105.1	256.7	288.2	66.6	185.6	284.7	63.2	183.3
60 - 64	420.7	106.6	263.7	379.6	95.9	243.8	376.2	101.5	245.3
65 - 69	501.4	118.7	301.2	446.1	89.8	264.5	452.7	115.6	282.2
70 - 74	595.2	120.3	324.2	509.8	120.6	300.6	544.7	146.1	330.4
75+	447.3	145.4	238.8	620.0	148.3	326.5	636.5	190.3	361.0
Total	180.6	89.2	136.6	151.6	71.6	112.4	146.0	73.5	110.4

APPENDIX 11

T.B. Notification Rate by Age & Sex 1983, 1992 & 1993



APPENDIX 12 **Forecast of T.B. Notification Rate**



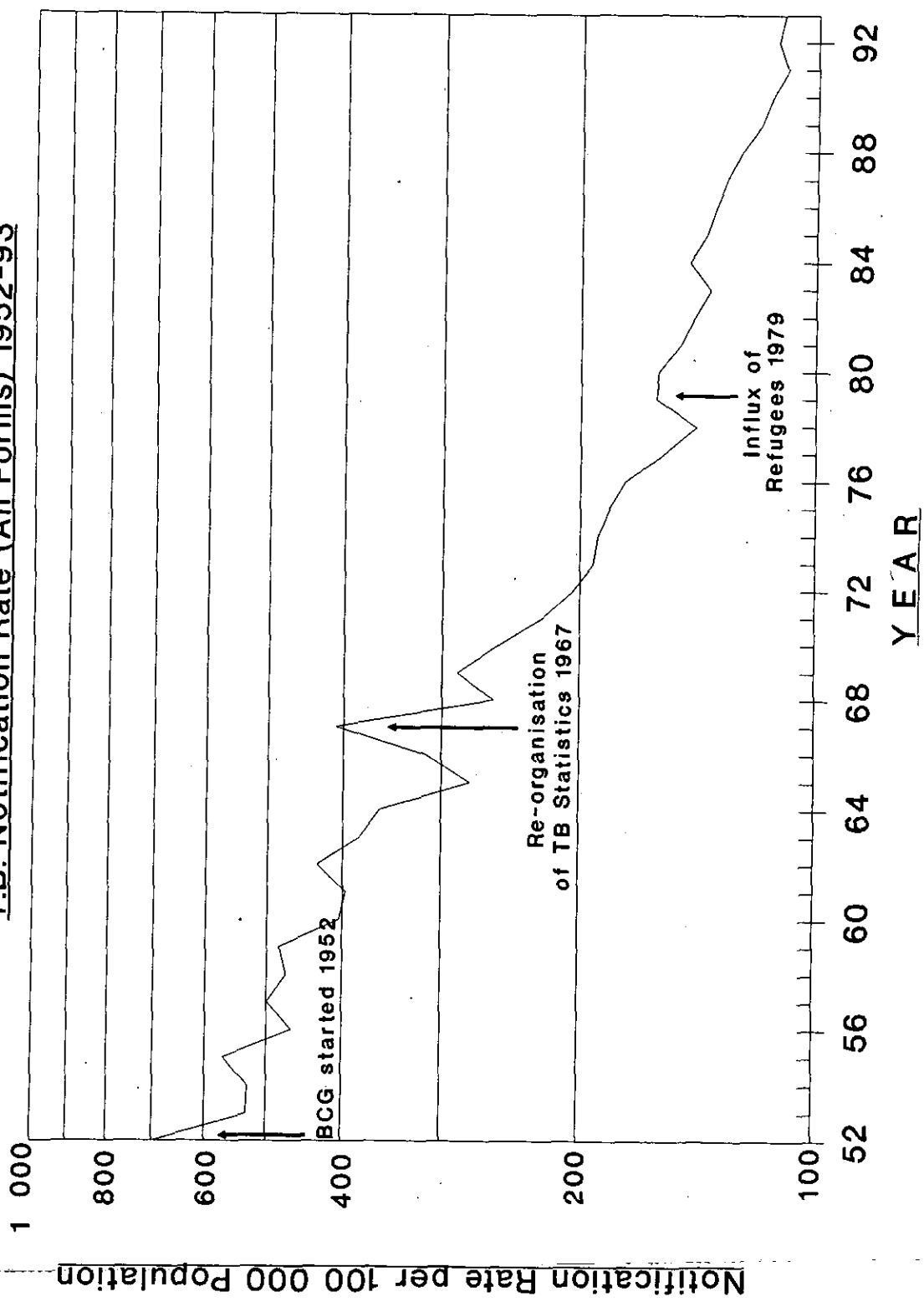
APPENDIX 13

Forecast of T.B. Notifications

Year	Notifications
1991	6,290
1992	6,080
1993	5,880
1994	5,680
1995	5,490
1996	5,310

(based on annual reduction rate of 3.4%, amended for 1990 report;
T.B. Notification (All forms) of 1990 : 6510)

APPENDIX 14
T.B. Notification Rate (All Forms) 1952-93



APPENDIX 15

Tuberculosis Deaths 1900 – 1993

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	1993	396	6.7

(1993 mid-year population: 5,919,000)

APPENDIX 16

Notification/Death Ratio of Tuberculosis (All Forms) 1946 - 1993

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
1993	6,537	396	16.51	6.06

APPENDIX 17

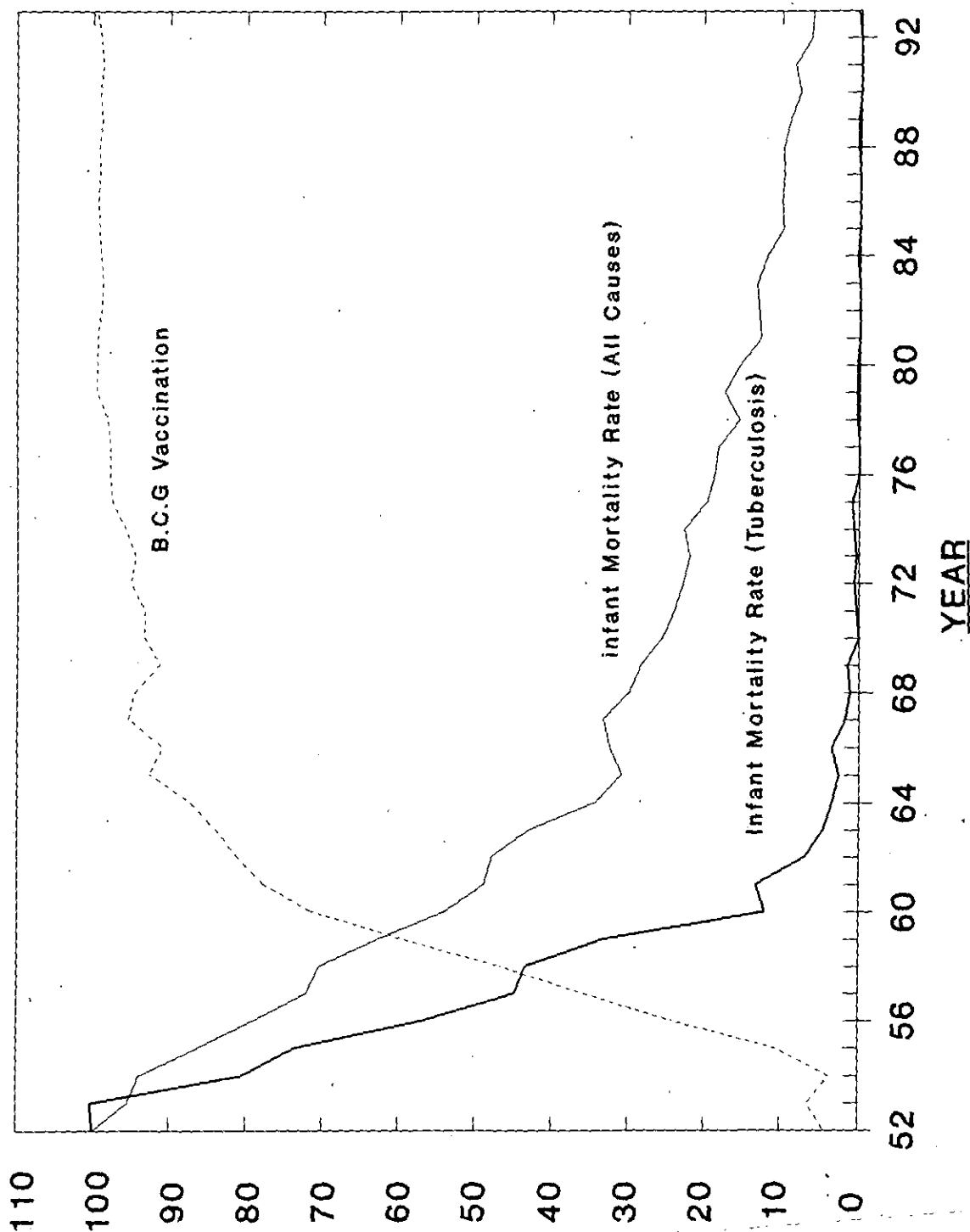
Tuberculosis Mortality 1949 – 1993

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
1993	0.25	0.25	0.01	1.3	69.0

NOTE : There were no infant death from TB in 1970, 1976, 1977, 1981, 1982, 1983, 1985, 1986, 1987, 1990, 1991 & 1992; 1 infant died from miliary T.B. in 1993.

APPENDIX 18

% Infant Mortality Rate and B.C.G Vaccination of Newborns 1952-1993



APPENDIX 19

Sex Ratio of Deaths Due to Tuberculosis (All Forms) 1952 - 1993

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
1993	291	105	396	2.77	9.6	3.6	6.7

APPENDIX 20

TB Deaths (All Forms) by Age and Sex
1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	1	-	1
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	1	-	1	-	-	-	-	-	-
4	1	-	1	-	-	-	-	-	-
5 - 9	-	-	-	-	-	-	2	-	2
10 - 14	-	-	-	1	-	1	-	-	-
15 - 19	1	-	1	-	-	-	1	-	1
20 - 24	2	1	3	2	-	2	-	3	3
25 - 29	4	4	8	2	2	4	-	2	2
30 - 34	4	3	7	4	1	5	3	5	8
35 - 39	8	-	8	7	3	10	7	1	8
40 - 44	3	4	7	11	1	12	4	2	6
45 - 49	17	4	21	15	1	16	10	2	12
50 - 54	33	2	35	15	2	17	15	3	18
55 - 59	43	11	54	28	6	34	21	3	24
60 - 64	45	16	61	46	4	50	40	5	45
65 - 69	55	17	72	37	6	43	36	12	48
70 - 74	75	12	87	53	14	67	32	12	44
75 - 79	27	11	38	37	15	52	62	12	74
80 - 84	25	8	33	38	18	56	35	13	48
85 & over	5	3	8	18	23	41	21	30	51
Unknown	1	-	1	-	-	-	1	-	1
Total	350	96	446	314	96	410	291	105	396

APPENDIX 21

TB Deaths of Respiratory System (010 - 012) by Age and Sex 1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
5 - 9	-	-	-	-	-	-	1	-	1
10 - 14	-	-	-	-	-	-	-	-	-
15 - 19	-	-	-	-	-	-	-	-	-
20 - 24	-	-	-	1	-	1	-	2	2
25 - 29	4	-	4	2	1	3	-	-	-
30 - 34	3	-	3	3	-	3	2	1	3
35 - 39	5	-	5	5	2	7	4	1	5
40 - 44	2	4	6	8	1	9	3	-	3
45 - 49	13	1	14	12	1	13	7	2	9
50 - 54	26	-	26	11	1	12	11	3	14
55 - 59	36	9	45	19	3	22	20	-	20
60 - 64	33	10	43	40	3	43	29	4	33
65 - 69	45	11	56	30	4	34	29	6	35
70 - 74	59	10	69	50	10	60	27	11	38
75 - 79	19	7	26	32	10	42	52	8	60
80 - 84	21	8	29	29	14	43	31	11	42
85 & over	4	3	7	17	20	37	17	28	45
Unknown	1	-	1	-	-	-	1	-	1
Total	271	63	334	259	70	329	234	77	311

APPENDIX 22

TB Deaths of Meninges (013) by Age and Sex 1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-
4	1	-	1	-	-	-	-	-	-
5 - 9	-	-	-	-	-	-	1	-	1
10 - 14	-	-	-	-	-	-	-	-	-
15 - 19	1	-	1	-	-	-	1	-	1
20 - 24	-	1	1	-	-	-	-	-	-
25 - 29	-	1	1	-	-	-	-	2	2
30 - 34	-	1	1	-	-	-	-	1	1
35 - 39	-	-	-	-	-	-	-	-	-
40 - 44	-	-	-	-	-	-	-	-	-
45 - 49	-	1	1	-	-	-	-	-	-
50 - 54	1	-	1	1	-	1	-	-	-
55 - 59	-	-	-	-	1	1	-	1	1
60 - 64	-	-	-	-	-	-	1	-	1
65 - 69	1	-	1	-	-	-	-	1	1
70 - 74	-	-	-	-	1	1	-	-	-
75 - 79	-	-	-	-	1	1	-	-	-
80 - 84	-	-	-	-	-	-	-	-	-
85 & over	-	-	-	-	-	-	-	-	-
Unknown	-	-	-	-	-	-	-	-	-
Total	4	4	8	1	3	4	3	5	8

APPENDIX 23

TB Deaths of Bones & Joints (015) by Age and Sex 1983, 1992 & 1993

Age Group	1983			1992			1993		
	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	1	-	1	-	-	-	-	-	-
40 - 44	-	-	-	-	-	-	-	-	-
45 - 49	-	-	-	-	-	-	-	-	-
50 - 54	-	-	-	-	-	-	-	-	-
55 - 59	-	-	-	2	-	2	-	-	-
60 - 64	-	1	1	-	-	-	1	-	1
65 - 69	-	-	-	-	-	-	-	1	1
70 - 74	-	-	-	-	-	-	1	-	1
75 - 79	-	1	1	-	-	-	-	-	-
80 - 84	-	-	-	1	-	1	-	1	1
85 & over	-	-	-	-	-	-	-	1	1
Unknown	-	-	-	-	-	-	-	-	-
Total	2	2	4	3	1	4	2	3	5

APPENDIX 24

TB Deaths All Forms other than
Respiratory System, Meninges,
Bones and Joints (014, 016 – 018 & 137)
by Age and Sex
1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
Under 1	–	–	–	–	–	–	1	–	1
1	–	–	–	–	–	–	–	–	–
2	–	–	–	–	–	–	–	–	–
3	1	–	1	–	–	–	–	–	–
4	–	–	–	–	–	–	–	–	–
5 – 9	–	–	–	–	–	–	–	–	–
10 – 14	–	–	–	1	–	1	–	–	–
15 – 19	–	–	–	–	–	–	–	–	–
20 – 24	2	–	2	1	–	1	–	1	1
25 – 29	–	3	3	–	1	1	–	–	–
30 – 34	–	2	2	1	–	1	1	3	4
35 – 39	2	–	2	2	1	3	3	–	3
40 – 44	1	–	1	3	–	3	1	2	3
45 – 49	4	2	6	3	–	3	3	–	3
50 – 54	6	2	8	3	1	4	4	–	4
55 – 59	7	2	9	7	2	9	1	2	3
60 – 64	12	5	17	6	1	7	9	1	10
65 – 69	9	6	15	7	2	9	7	4	11
70 – 74	16	2	18	3	3	6	4	1	5
75 – 79	8	3	11	5	4	9	10	4	14
80 – 84	4	–	4	8	4	12	4	1	5
85 & over	1	–	1	1	3	4	4	1	5
Unknown	–	–	–	–	–	–	–	–	–
Total	73	27	100	51	22	73	52	20	72 *

* Breakdown of Deaths : –

Deaths

Intestines, peritoneum & mesenteric glands (014)	1
Genito-urinary system (016)	5
TB Liver (017)	3
Miliary TB (018)	27
Late effects of TB (137)	36

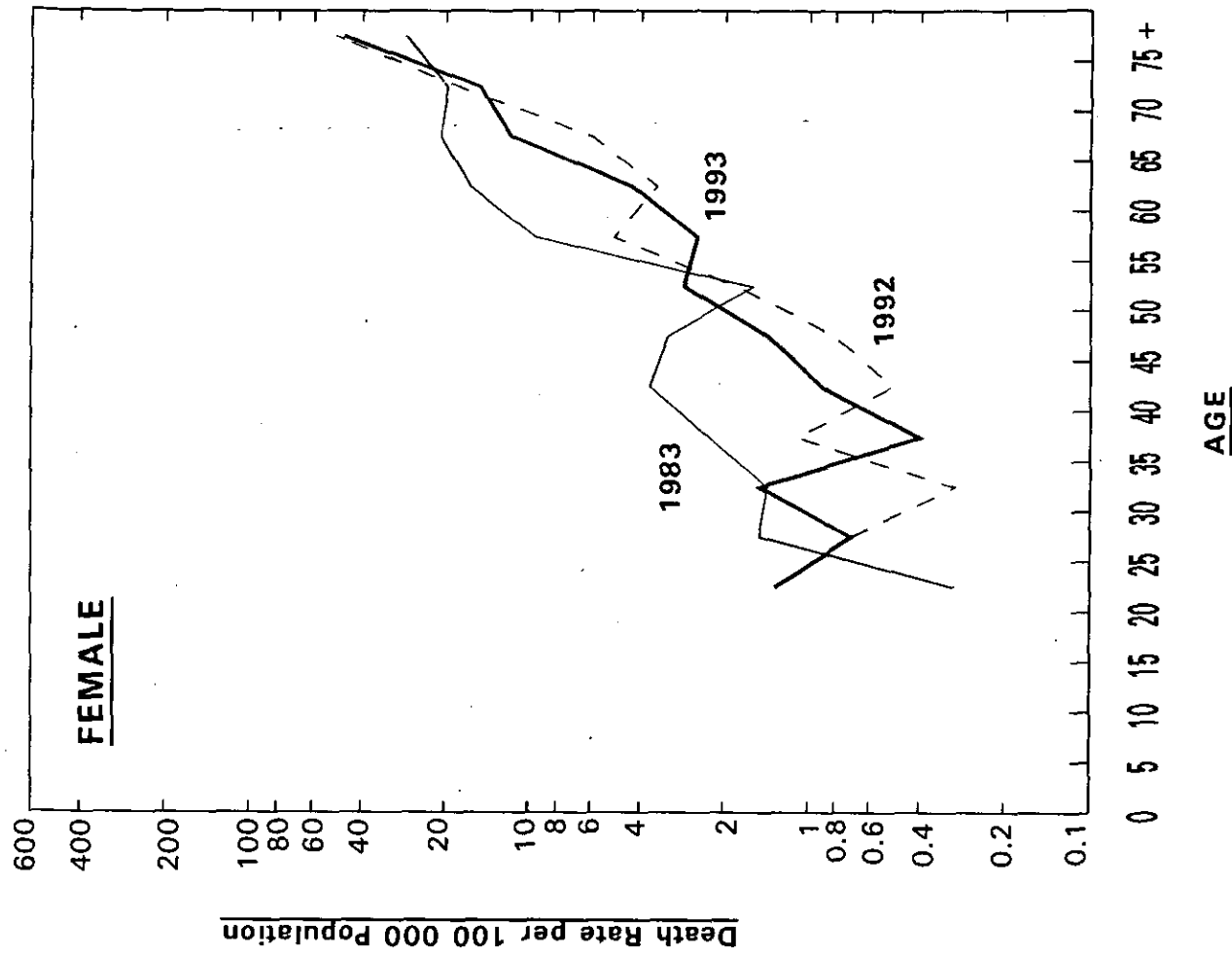
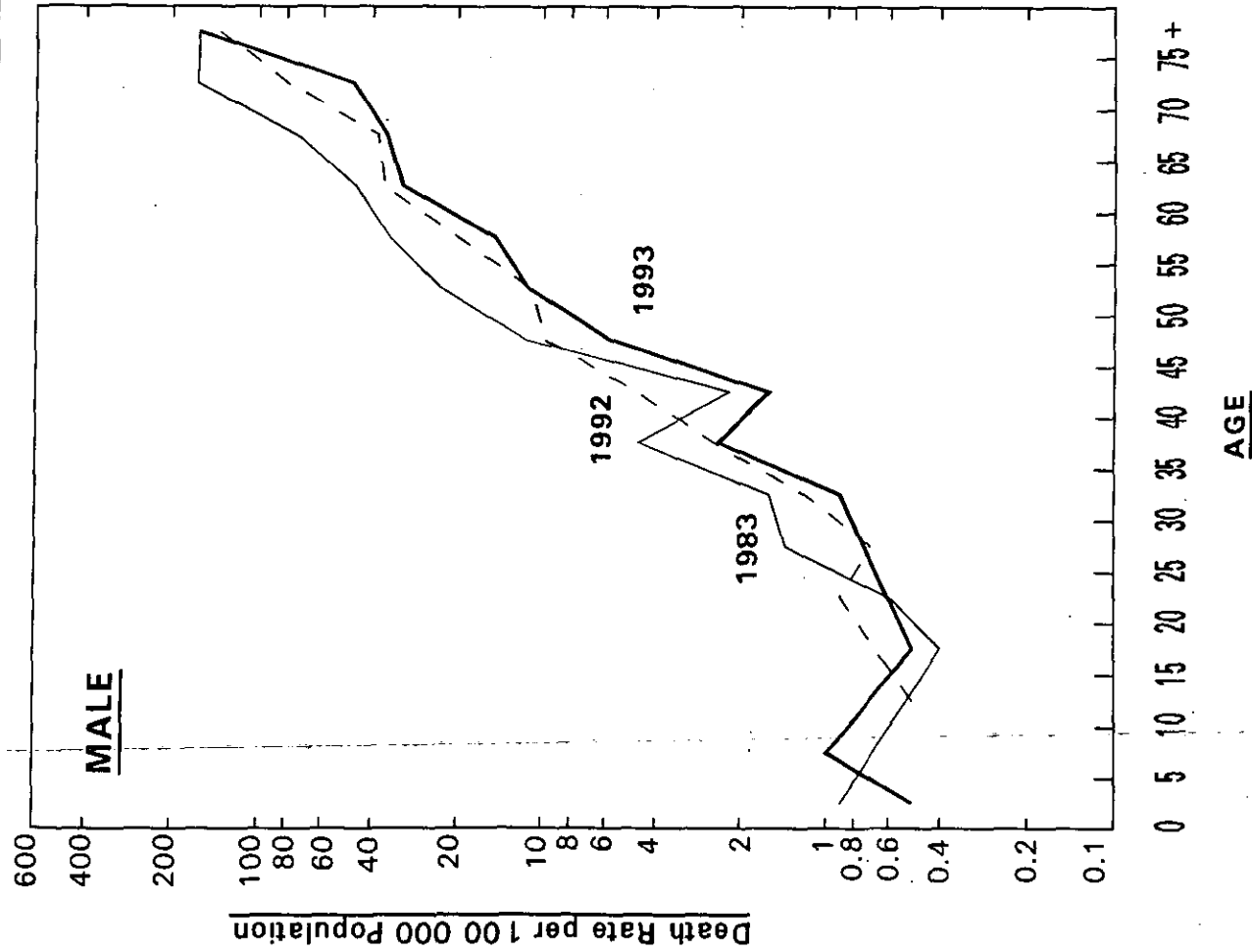
APPENDIX 25

TB (All Forms) Death Rate by Age & Sex
(per 100,000 population)
1983, 1992 & 1993

Age Group	1983			1992			1993		
	M	F	T	M	F	T	M	F	T
0 - 4	0.9	-	0.5	-	-	-	0.5	-	0.3
5 - 9	-	-	-	-	-	-	1.0	-	0.5
10 - 14	-	-	-	0.5	-	0.2	-	-	-
15 - 19	0.4	-	0.2	-	-	-	0.5	-	0.2
20 - 24	0.6	0.3	0.5	0.9	-	0.4	-	1.3	0.6
25 - 29	1.4	1.5	1.4	0.7	0.7	0.7	-	0.7	0.4
30 - 34	1.6	1.4	1.5	1.2	0.3	0.8	0.9	1.5	1.2
35 - 39	4.6	-	2.5	2.5	1.1	1.8	2.4	0.4	1.4
40 - 44	2.2	3.7	2.9	4.7	0.5	2.7	1.6	0.9	1.3
45 - 49	11.4	3.2	7.7	9.8	0.8	5.7	5.8	1.4	3.8
50 - 54	22.9	1.6	12.9	11.0	1.8	6.9	11.2	2.8	7.5
55 - 59	34.9	9.6	22.7	20.1	5.0	13.1	14.9	2.5	9.3
60 - 64	46.1	16.4	31.2	36.5	3.5	20.7	31.3	4.3	18.5
65 - 69	74.5	21.0	46.5	38.4	6.0	21.9	35.8	11.7	23.6
70 - 74	164.1	19.8	81.8	79.9	18.2	46.7	46.9	15.1	29.8
75+	162.4	28.1	69.6	137.0	50.0	82.9	161.9	46.7	90.8
Total	12.6	3.7	8.3	10.6	3.4	7.1	9.6	3.6	6.7

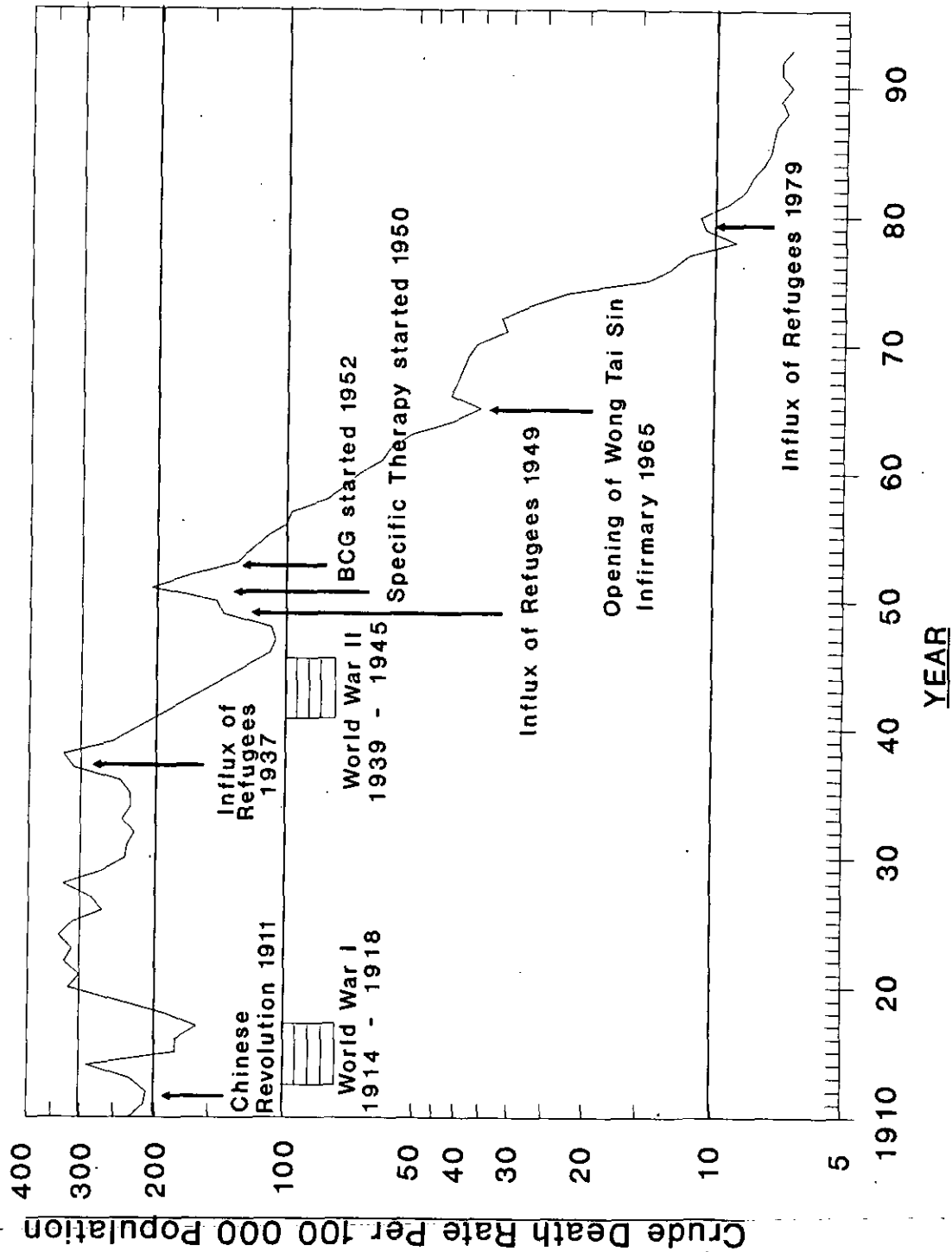
APPENDIX 26

T.B. Mortality Rate by Age & Sex 1983, 1992 & 1993



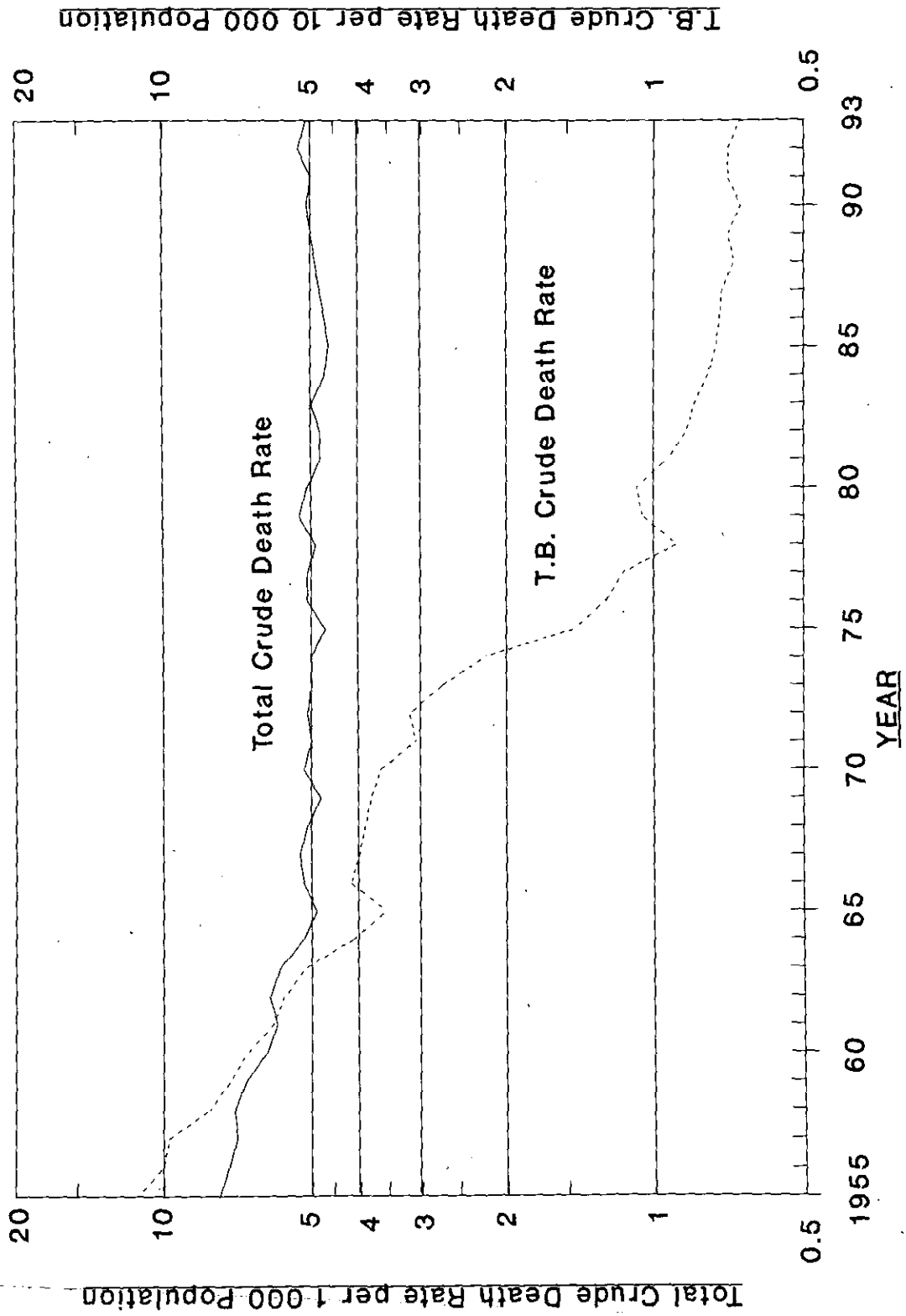
APPENDIX 27

Crude Death Rate due to Tuberculosis (All Forms) 1910-1993



APPENDIX 28

Crude Annual Death Rates for Hong Kong 1955-1993 According to Causes of Death

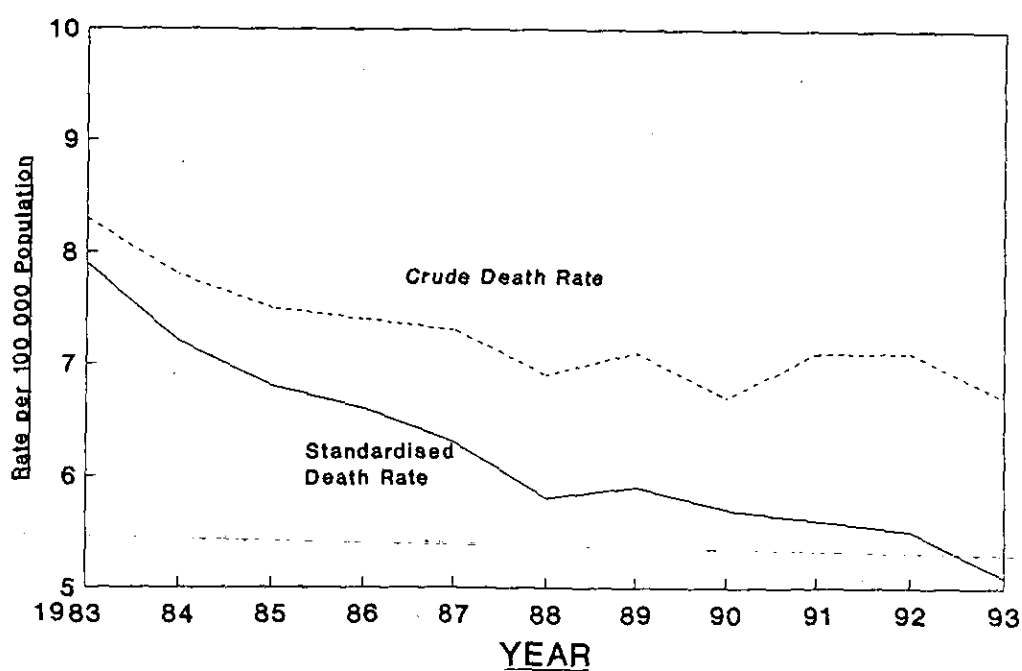


APPENDIX 29

Crude Death Rate and Standardised Death Rate 1983 – 1993

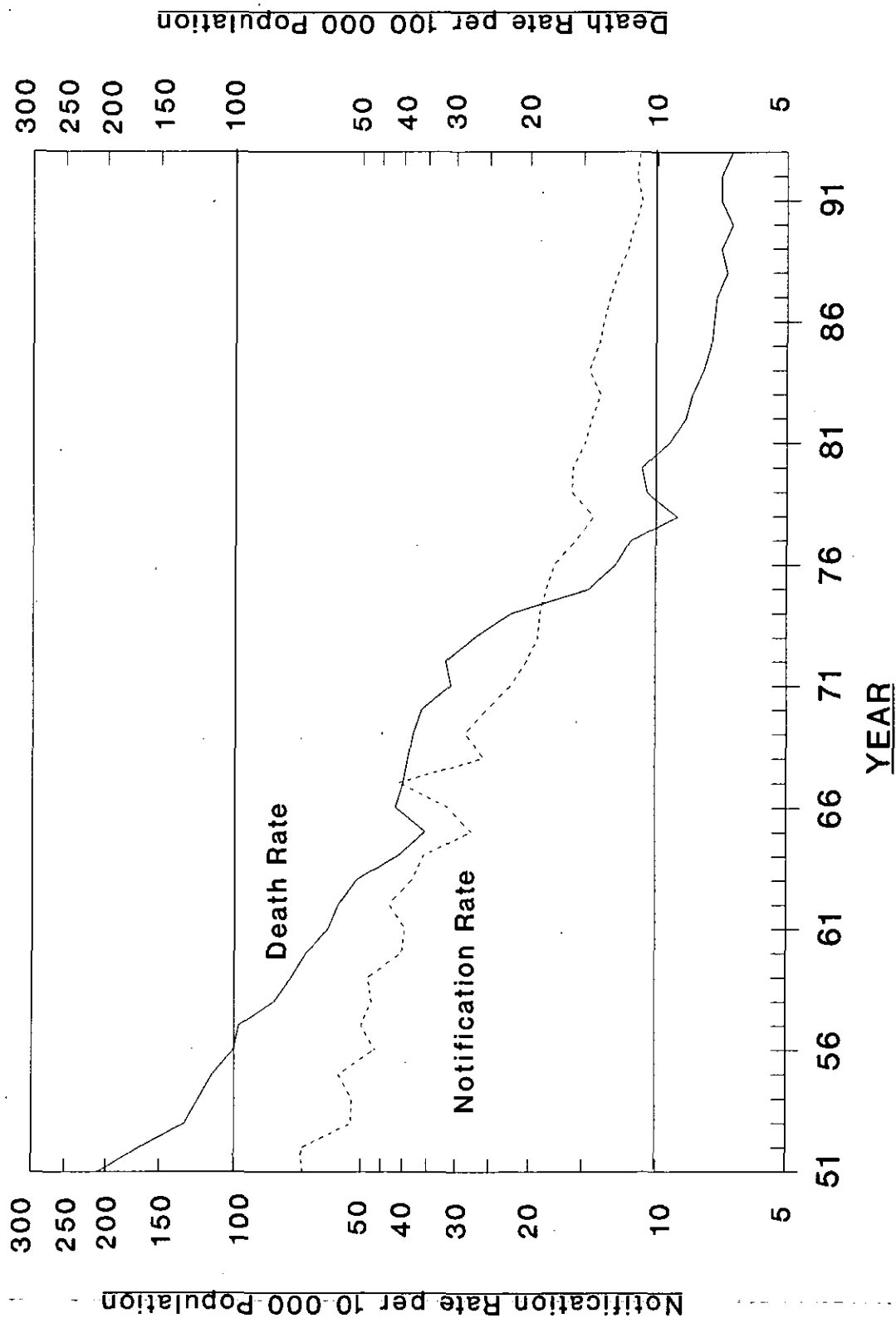
<u>Year</u>	<u>Crude Death Rate</u>	<u>Standardised Death Rate *</u>
1983	8.3	7.9
1984	7.8	7.2
1985	7.5	6.8
1986	7.4	6.6
1987	7.3	6.3
1988	6.9	5.8
1989	7.1	5.9
1990	6.7	5.7
1991	7.1	5.6
1992	7.1	5.5
1993	6.7	5.1

* Standardisation based on 1981 Mid-year Population Estimates

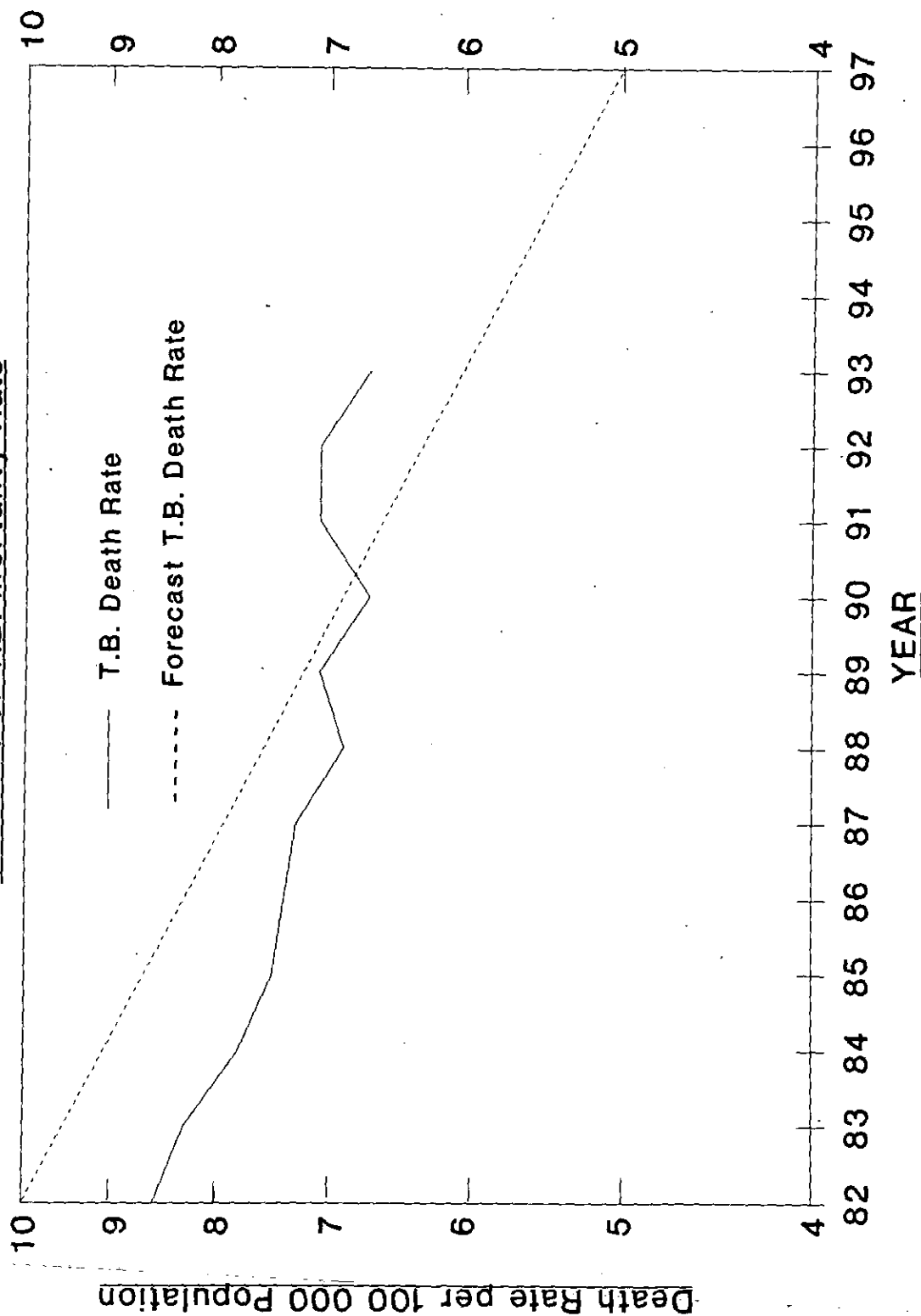


APPENDIX 30

T.B. Notification Rate and Death Rate 1951-1993



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 1993

Rank	Causes of Death	Detailed List No.	1993		
			Male	Female	Total
	All Causes	001 - 999	16,987	13,231	30,222 (4)
1	Malignant Neoplasms	140 - 208	5,793	3,518	9,311
2	Heart diseases, including hypertensive heart diseases	390 - 429	2,459	2,248	4,707
3	Cerebrovascular disease	430 - 438	1,521	1,726	3,247
4	Pneumonia, all forms	480 - 486	1,176	1,033	2,209
5	Injury and poisoning	800 - 999	1,123	571	1,694
6	Nephritis, Nephrotic syndrome and Nephrosis	580 - 589	376	475	851
7	Septicaemia	038	185	375	560
8	Chronic liver disease and cirrhosis	571	338	160	498
9	Bronchitis, chronic and unspecified, Emphysema and Asthma	490 - 493	286	150	436
10	Diabetes mellitus	250	187	238	425
	Tuberculosis (including late effects of tuberculosis)	010 - 018 137	291	105	396
	Certain conditions originating in the perinatal period	760 - 779	92	65	157
	All other causes	Residue of 001 - 999	3,160	2,567	5,731 (4)

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

APPENDIX 34

New Attendances at Medical Examination Board 1992 - 1993

Age Group	1993					1992				
	Total Examined		No. with active TB		Total	Prevalence % of TB		Prevalence % of TB		Total
	Male	Female	Male	Female		Male	Female	Male	Female	
14 & under	632	194	-	-	-	-	-	-	-	-
15 - 19	1,382	941	3	3	6	0.22	0.32	0.06	0.09	0.08
20 - 24	2,659	1,996	12	4	16	0.45	0.20	0.25	0.33	0.28
25 - 29	1,398	989	6	3	9	0.43	0.30	0.34	0.34	0.34
30 - 34	922	775	5	1	6	0.54	0.13	0.82	0.63	0.74
35 - 39	703	544	4	5	9	0.57	0.92	0.51	0.24	0.40
40 - 44	541	374	1	1	2	0.18	0.27	0.47	0.39	0.44
45 - 49	332	110	3	-	3	0.90	-	0.92	-	0.69
50 - 54	188	16	-	-	-	-	-	2.56	-	2.06
55 & over	407	98	6	-	6	1.47	-	3.02	-	2.41
Total	9,164	6,037	40	17	57	0.44	0.28	0.42	0.29	0.37

APPENDIX 35

Scheme for Tuberculin Testing and BCG Administration in Hong Kong, 1993

	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 - 1993

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	69,980	99.1
1991	70,201	69,371	98.8
1992	72,767	72,075	99.0
1993	71,682	71,367	99.6

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 1993.

APPENDIX 37

BCG Vaccinations at Birth, 1993

Institution		No. of Live-births	BCG Vaccination	% Vaccinated
Hospital under HA management	Nethersole	2,477	2,492	100.6
	Queen Mary	932	1,021	109.5 *
	Tsan Yuk	5,047	5,002	99.1
Private Hosp.	Canossa	1,139	1,127	98.9
	H.K. Adventist	489	449	91.8
	HK Sanatorium	1,507	1,577	104.6 *
	Matilda	718	702	97.8
	St. Paul's	3,125	3,087	98.8
Total (HK Island)		15,434	15,457	100.1
Hospital under HA management	Caritas	2,646	2,637	99.7
	Kwong Wah	5,343	5,332	99.8
	Maryknoll	2,035	2,009	98.7
	Queen Elizabeth	6,649	6,662	100.2 *
	United Christian	3,534	3,515	99.5
Private Hosp.	Baptist	8,140	8,047	98.9
	Evangel	1,623	1,612	99.3
	Precious Blood	544	537	98.7
	St. Teresa's	4,069	4,024	98.9
British Military Hospital		505	501	99.2
Total (Kowloon)		35,088	34,876	99.4
Hospital under HA management	Pok Oi	487	468	96.1
	Prince of Wales	7,956	7,956	100.0 *
	Princess Margaret	4,202	4,209	100.2 *
	St. John	3	2	66.7
	Tuen Mun	5,994	5,979	99.7
	Yan Chai	427	418	97.9
Private Hosp.	Advenist	1,411	1,398	99.1
Government Maternity Home		573	537	93.7
Total (NT Areas)		21,053	20,967	99.6
GRAND TOTAL		71,575	71,300	99.6

Note : * Including vaccinations of live births transferred from other maternity institutions and vaccinations of live births at end of 1992.

APPENDIX 38

Apparent reasons for newborns not being vaccinated with BCG in hospitals 1993

Institution	No. of Live-births	Transferred	Jaundice	Under Weight	Skin Rash	Medical or Physiological problem	Neo-natal Death	Discharge	Total
Tsan Yuk	5,047	-	-	-	-	156	8	12	176
Queen Mary	932	3	-	-	-	85	4	4	96
Queen Elizabeth	6,649	-	-	-	-	389	8	1	398
Kwong Wah	5,343	1	-	-	-	100	1	2	104
Princess Margaret	4202	-	-	-	-	185	6	2	193
Prince of Wales	7,956	-	-	-	-	303	7	4	314
Tuen Mun	5,994	-	-	-	-	259	3	-	262
Total	36,123	4	-	-	-	1,477	37	25	1,543

APPENDIX 39

Percentage of Babies receiving BCG by Vaccination Methods, 1970 – 1993

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
1993	63.7	35.6	0.7

Note : Percentage refers to known live birth figure

APPENDIX 40

Tuberculin Tests and BCG Vaccination of School Children

1962-1993

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
1993	100,895	97,189	69,723	68,598	70.6	3.7

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

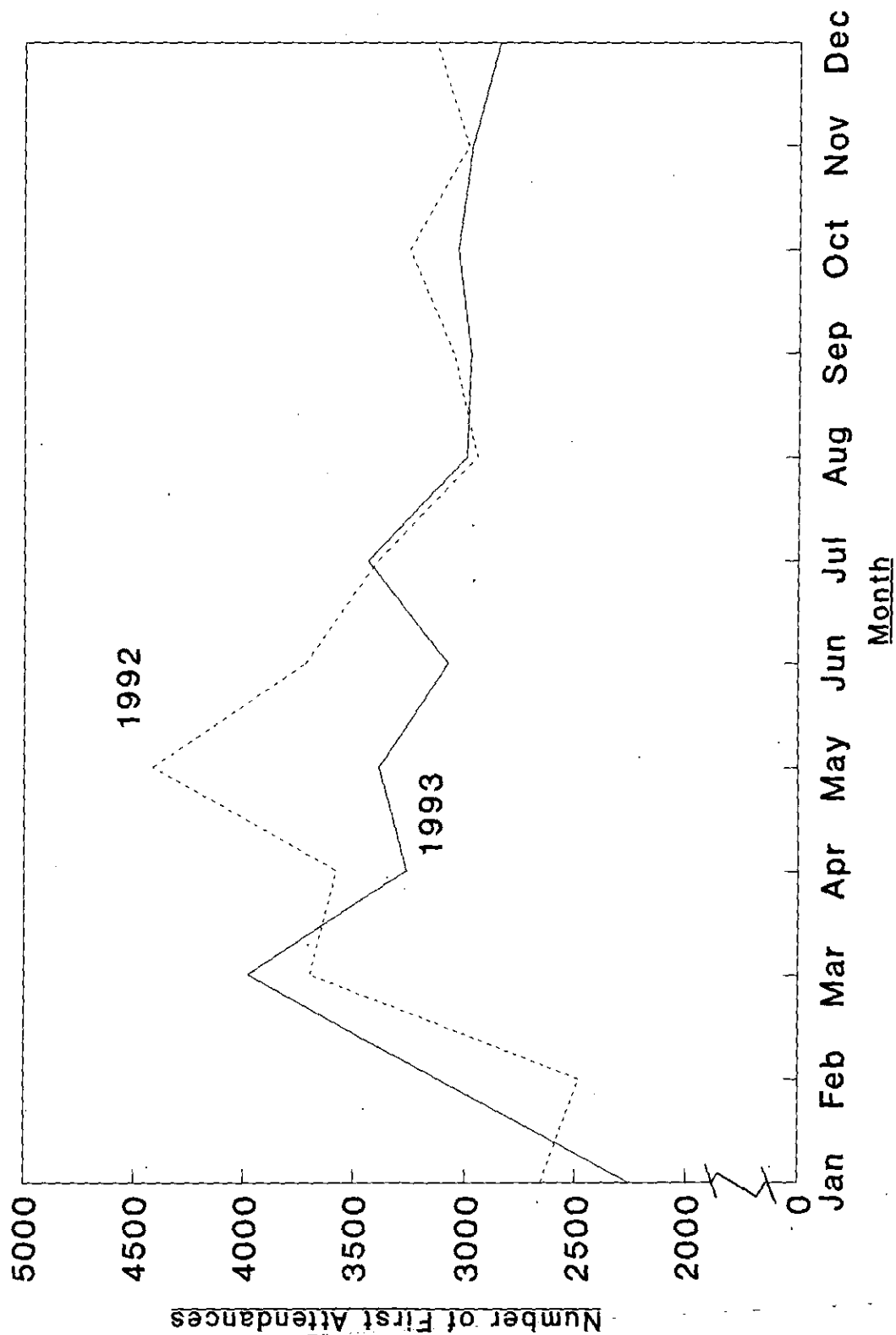
Examination of Contacts, 1990 – 1993

Particulars	1990	1991	1992	1993
No. of patients (new & old) listed	7025	7010	5695	5572
No. of contacts listed	18750	18722	17649	16170
(a) No. of children with –ve tuberculin/tine* test	710	695	647	485
No. of children given BCG	693	681	620	476
(b) No. of contacts x-rayed	14112 (100.00%)	14122 (100.00%)	13785 (100.00%)	12508 (100.00%)
<u>Results</u>				
NSD & Unknown	13410 (95.03%)	13395 (94.85%)	12862 (93.31%)	11338 (90.64%)
Disease other than TB	157 (1.11%)	161 (1.14%)	246 (1.79%)	325 (2.60%)
<u>Respiratory TB</u>				
Active A (radiologically)	92 (0.65%)	95 (0.67%)	123 (0.89%)	116 (0.93%)
B (bacteriologically)	48 (0.34%)	46 (0.33%)	24 (0.17%)	27 (0.22%)
C (incomplete)	10 (0.07%)	11 (0.08%)	6 (0.04%)	13 (0.10%)
Not active	360 (2.55%)	372 (2.63%)	440 (3.19%)	495 (3.96%)
Non – respiratory TB	3 (0.02%)	4 (0.03%)	6 (0.04%)	4 (0.03%)
Result not yet known	32 (0.23%)	38 (0.27%)	78 (0.57%)	190 (1.52%)

* for NT Chest Clinics only

APPENDIX 42

Monthly First Attendances at Government Chest Clinics 1992 & 1993



APPENDIX 43a

Formulas for Computing Rate of Treatment Completed & Complete Defaulter to no. of case put on treatment in Appendix 43

* column for stat. unit use.

N a m e o f i n i c /	Standard regimen										Others																																																		
	Brought in					Treatmen					Completed					Discontinued					Treatmen					Completed					Discontinued																														
	N p t u u t e b e o t r n m e n t	B r o u g h t i n	(i) (ii)	At 4 6 mth	At 6 6 mth	At > 6 mth	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA																																	
	b/f	(i) (ii)	At 4 6 mth	At 6 6 mth	At > 6 mth			%	%	%	%	%	%	%	%	%	b/f	(i) (ii)	(ii) No.	%	%	%	%	%	%	%	%	%																																	
		C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA																																			
		$\frac{E+F+G}{B+C+D-J-M} \times 100$															$\frac{S}{P+Q+R-V-Y} \times 100$															$\frac{W}{P+Q+R-V-Y} \times 100$																													

Brought in (i) newly started + transferred from other chest clinic/hospital w/o treatment started at any chest clinics.

(ii) other transferred/restarted from hospital, chest clinic with treatment started previously.

Discourteined - All cases stopping treatment except completed defaulters. eg. admission to hospital, leaving colony etc.

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

#Shatin chest clinic closed since September 1993, and Yuen Chau Kok chest clinic started operation w.e.f. September 1993.

APPENDIX 44

Annual Admissions to Hospitals from Government Chest Clinics 1957 - 1993

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
1993	5,159
Clinic	Year 1993
East Kowloon	547
Kowloon	1,124
Kwai Chung	423
Sai Ying Pun	340
Shau Kei Wan	330
Shek Kip Mei	369
Wanchai	683
Yaumati	313
NT Unit	316
Yan Oi	380
Yuen Chau Kok *	56
Yung Fung Shee	278
Total	5,159

Note: Yuen Chau Kok Chest Clinic was opened on 13.9.1993.

APPENDIX 45

Hospital Admissions (Chest Medical Wards Only) 1992 - 1993

Hospital	1992			1993		
	From Gov't Chest Clinics	Total Admissions	Turnover (Admission /Beds)	From Gov't Chest Clinics	Total Admissions	Turnover (Admission /Beds)
Grantham	1,537	2,894	9.10	1,543	2,782	12.31
Ruttonjee	1,218	2,518	13.25	1,122	2,804	15.58
Haven of Hope	392	952	6.43	471	1,315	13.70
Wong Tai Sin	554	1,608	9.99	553	1,815	11.27
Kln Hospital	1,528	2,811	22.13	1,470	3,091	23.24
Total	5,229	10,783	11.42	5,159	11,807	14.83

APPENDIX 46

Total Number of Sputum Smears, Cultures and Sensitivity Tests Carried out by the Government Pathological Institute for all Agencies, 1986 – 1993

Investigation	1986	1987	1988	1989	1990	1991	1992	1993
Sputum Smears for TB	101,337	92,770	92,534	90,310	93,567	90,779	96,220	82,427
Sputum Cultures for TB	75,638	73,182	82,383	81,168	85,524	83,443	92,662	82,430
Total number of Sensitivity Tests	33,184	35,297	34,173	32,495	30,109	20,548	23,038	16,120
Streptomycin	7,082	9,223	9,114	9,248	8,944	5,401	5,980	3,718
P.A.S.	11	6	4	—	—	—	—	—
I.N.A.H.	7,082	9,223	9,114	9,248	8,944	5,486	5,981	3,718
Ethionamide	2,221	2,337	1,918	1,140	822	868	865	495
Thiacetazone	5	—	—	—	—	—	—	—
Pyrazinimide	4,807	2,591	2,324	1,176	821	870	865	495
Cycloserine	73	107	118	162	121	301	347	186
Kanamycin	119	122	127	167	122	301	347	186
Viomycin	9	—	—	—	—	—	—	—
Rifampicin	7,082	9,223	9,114	9,248	8,944	5,401	5,981	3,718
Ethambutol	4,620	2,340	2,098	1,588	1,072	894	867	2,271
Capreomycin	67	107	117	162	121	301	346	186
Ofloxacin	—	—	—	345	—	410	416	240
Other	6	18	125	11	198	315	1,043	907

APPENDIX 47

No. of Doctor Sessions, Cases seen by Doctor and Patient/Doctor Session
1992 - 1993

Clinic/Hospital	Doctor Sessions		Cases seen by Doctor		Patient/ Dr Session	
	1992	1993	1992	1993	1992	1993
East Kowloon Chest Clinic	1116	1132	23318	24746	21	22
Kowloon Chest Clinic	1316	1372	28025	29146	21	21
Kwai Chung Chest Clinic	1294	1177	29741	31384	23	27
Sai Ying Pun Chest Clinic	922	964	20980	20907	23	22
Shaukiwan Chest Clinic	546	544	14359	14607	26	27
Shek Kip Mei Chest Clinic	1044	997	19719	17488	19	18
Wanchai Chest Clinic	1694	1680	35843	35563	21	21
Yan Oi Chest Clinic	637	615	15277	15062	24	24
Yaumati Chest Clinic	1115	1150	23623	23392	21	20
Yuen Chau Kok Chest Clinic *	—	222	—	4046	—	18
Yung Fung Shee Chest Clinic	543	553	12559	13477	23	24
Castle Peak Hospital	50	52	1202	1113	24	21
Cheung Chau Chest Clinic	25	25	531	533	21	21
Hei Ling Chau ATC	12	12	136	111	11	9
Sai Kung Chest Clinic	50	48	892	892	18	19
Shatin Chest Clinic	293	199	8678	6290	30	32
Sheung Shui Chest Clinic	192	154	3779	3947	20	26
Stanley Prison Hospital	24	26	751	647	31	25
Wong Siu Ching Chest Clinic	199	206	5092	5645	26	27
Shek Pik Prison Hospital	10	11	81	107	8	10
Yuen Long Chest Clinic	248	250	5975	6321	24	25
Total	11330	11389	250561	255424	22	22

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

* Yuen Chau Kok Chest Clinic functions as full-time clinic w.e.f. September 1993.

APPENDIX 48

Beds for Treatment of Tuberculosis, 1993

Hospital		No. of T.B. Beds
Hospital Authority	Grantham Hospital	226
	Kowloon Hospital	133 *
	Ruttonjee Hospital	180
	Haven of Hope Hospital	96
	Wong Tai Sin Infirmary	161
Total (Hospital Authority)		796
Private	St. Paul's Hospital	3
	Hong Kong Sanatorium	—
Total (Private)		3
Custody	Victoria Prison Hospital	—
	Stanley Prison Hospital	20
	Tai Lam Correctional Institution	—
Total (Custody)		20
Grand Total (1993)		819
Grand Total (1992)		985
Grand Total (1991)		965

* Including two beds in the Intensive Care Unit

APPENDIX 49

Beds for Treatment of Tuberculosis 1968 – 1993

<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
1993	819

APPENDIX 50

Work Done by Medical Social Workers of Chest Clinics 1989 – 1993 (Financial Year)

Particulars	1989	1990	1991	1992	1993
Total no. of families receiving financial assistance	247	165	131	173	169
Total financial help to patients	\$85,886.4	\$37,057.8	\$26,496.9	\$55,594.3	\$30,384.3
Disbursement of Samaritan Fund	\$3,710.6	\$3,744.0	\$2,872.5	\$1,376.7	\$5,641.5
Total no. of interviews (in – patients)	6,906	4,986	5,473	2,812	3,174
Total no. of interviews (out – patients)	9,869	10,034	10,079	6,040	7,620
No. of home visits made	254	179	240	115	179

APPENDIX 51

First Visits to Chest Clinics

1983 - 1993

Clinic/Hospital	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
East Kowloon Chest Clinic	3,525	4,082	3,549	2,992	2,755	2,704	2,442	2,570	2,390	2,523	2,391
Kowloon Chest Clinic	12,524	13,625	11,657	9,750	8,184	8,469	7,818	7,080	6,578	7,042	6,594
Kwai Chung Chest Clinic	7,745	8,053	7,348	6,347	6,487	6,714	5,869	5,275	4,783	4,495	5,021
Sai Ying Pun Chest Clinic	4,215	4,419	4,351	3,290	3,294	2,997	3,172	3,283	2,907	3,596	3,074
Shauiwan Chest Clinic	2,159	2,284	2,353	2,108	2,337	1,841	1,923	1,795	1,661	2,438	2,027
Shek Kip Mei Chest Clinic	4,034	4,388	4,190	3,259	2,946	2,690	2,805	2,832	2,933	3,178	2,202
Wanchai Chest Clinic	9,665	10,736	9,062	7,397	6,760	6,929	6,331	5,796	5,061	5,965	5,317
Yan Oi Chest Clinic	1,771	2,451	2,381	2,220	2,171	2,591	2,562	2,707	2,572	2,400	2,786
Yaumatei Chest Clinic	4,456	5,453	4,490	3,718	3,168	2,995	2,774	2,987	2,527	2,713	2,419
Yuen Chau Kok Chest Clinic	-	-	-	-	-	-	-	-	-	-	561
Yung Fung Shee Chest Clinic	-	146	1,273	1,484	1,367	1,509	1,415	1,980	1,886	2,032	2,106
Aberdeen Chest Clinic	347	566	527	475	391	336	342	60	-	-	-
Castle Peak Hospital	18	12	8	16	24	31	24	15	19	18	16
Cheung Chau Chest Clinic	144	170	115	84	97	95	83	59	54	42	52
Hei Ling Chau ATC	46	42	58	66	73	107	143	92	39	37	34
Pik Uk Prison	-	-	-	-	-	-	-	-	-	-	-
Sai Kung Chest Clinic	119	127	121	106	135	179	145	194	167	128	113
Shatin Chest Clinic	470	534	604	690	770	857	959	983	858	1077	804
Shek Pik Prison Hospital	-	27	17	15	13	19	15	17	27	35	24
Sheung Shui Chest Clinic	451	565	356	329	299	332	318	338	292	345	375
Stanley Prison Hospital	38	34	56	31	43	54	40	46	13	26	34
Tai Lam Addiction Rx Centre	57	68	66	62	47	74	-	-	-	-	-
Tai O	16	-	-	-	-	-	6	12	-	-	-
Tai Po Chest Clinic	452	582	792	645	538	641	544	572	468	564	696
Tuen Mun	-	-	-	-	-	-	-	-	-	-	-
Victoria Prison Hospital	3	3	-	5	-	-	-	-	-	-	-
Yuen Long Chest Clinic	1,214	1,165	1,131	869	786	699	639	839	620	682	720
Total	53,469	59,532	54,505	45,958	42,685	42,863	40,369	39,532	35,855	39,336	37,366

APPENDIX 52

Total Attendances at Chest Clinics

1983 - 1993

Clinic/Hospital	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
East Kowloon Chest Clinic	109,245	108,436	73,855	77,464	77,094	72,970	62,829	62,479	58,667	64,659	64,473
Kowloon Chest Clinic	109,831	110,480	104,355	95,674	82,387	92,142	88,012	87,277	88,930	77,817	80,576
Kwai Chung Chest Clinic	83,568	85,796	90,658	87,728	91,386	83,329	79,775	79,395	80,144	84,721	86,912
Sai Ying Pun Chest Clinic	59,806	61,560	57,196	50,159	50,944	52,048	52,134	54,239	51,161	52,478	51,036
Shaokwan Chest Clinic	34,430	34,302	34,887	35,789	37,319	37,285	37,004	41,733	47,614	46,348	45,250
Shek Kip Mei Chest Clinic	70,091	77,723	80,599	72,173	69,220	70,006	67,702	64,588	60,032	67,636	59,342
Wanchai Chest Clinic	73,614	84,656	79,951	78,295	84,835	95,998	98,548	94,052	89,769	89,945	88,826
Yan Oi Chest Clinic	25,621	40,557	41,985	38,272	36,786	38,611	39,288	46,409	51,660	52,075	51,077
Yaumati Chest Clinic	87,820	99,429	91,235	81,349	85,081	75,855	80,885	80,088	78,008	74,709	78,565
Yuen Chau Kok Chest Clinic	-	-	-	-	-	-	-	-	-	-	10944
Yung Fung Shee Chest Clinic	-	7,637	53,410	54,167	51,520	52,880	50,420	57,085	53,925	53,042	53,726
Aberdeen Chest Clinic	4,683	5,909	6,230	5,378	4,739	4,506	5,055	1,601	-	-	-
Castle Peak Hospital	1,678	1,069	1,601	1,703	1,639	1,224	1,378	1,693	2,695	4,850	3,736
Cheung Chau Chest Clinic	1,711	2,782	2,342	1,919	2,234	1,605	2,075	1,614	3,114	1,903	1,927
Hei Ling Chau ATC	2,334	2,038	1,954	842	2,228	2,846	2,398	2,159	877	1,636	1,335
Pik Uk Prison	102	99	77	187	47	15	178	386	110	112	46
Sai Kung Chest Clinic	1,553	1,665	1,584	1,618	1,374	1,508	1,381	1,960	1,902	1,529	1,504
Shatin Chest Clinic	6,534	8,852	9,314	10,536	10,959	11,826	13,887	14,567	14,989	16,567	12,974
Shek Pik Prison Hospital	-	184	163	169	261	158	444	188	179	584	882
Sheung Shui Chest Clinic	7,235	7,615	7,311	7,831	6,741	6,139	6,298	7,043	6,274	6,770	7,217
Stanley Prison Hospital	3,150	3,795	2,432	2,932	2,057	5,287	7,831	9,737	9,430	9,166	7,745
Tai Lam Addiction Rx Centre	1,931	2,569	2,552	3,184	4,031	1,738	-	-	-	-	-
Tai O	65	63	78	63	8	1	63	47	7	-	-
Tai Po Chest Clinic	5,330	6,514	7,461	6,986	7,056	7,089	7,917	8,174	8,504	9,385	10,852
Tuen Mun	-	-	-	-	-	-	-	-	-	-	-
Victoria Prison Hospital	14	60	12	7	-	-	-	-	-	-	-
Yuen Long Chest Clinic	12,604	12,473	12,178	11,870	10,336	10,402	10,474	11,996	10,967	11,149	11,618
Total	702,950	766,263	763,420	726,295	720,282	725,468	715,976	728,510	718,958	727,081	730,563

APPENDIX 53

Classification of New Patients Attending Government Chest Clinics, 1993

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	8,349	11,293	11,448	7,807	4,127	6,498	8,259	8,406	5,561	5,027	292	7,473	84,540
Number of new patients	2,391	6,594	5,021	3,074	2,027	2,202	5,317	2,419	2,786	2,106	92	3,337	37,366
Total with examination completed	2,391	6,562	5,021	3,052	2,015	2,197	5,293	2,400	2,760	2,097	93	3,277	37,158
N.S.D. & Unknown	618	1,575	3,116	1,400	613	871	1,635	1,024	1,565	787	23	1,459	14,686
Disease other than tuberculosis	979	2,663	658	842	863	619	2,114	663	454	656	27	774	11,312
Non-respiratory tuberculosis													
(a) Meninges	1	2	4	-	-	-	-	-	2	1	-	-	10
(b) Bones & Joints	2	8	10	2	-	4	3	-	4	1	-	2	36
(c) Others	19	99	40	29	9	12	60	29	35	34	-	59	425
Respiratory tuberculosis													
(a) Not active and unknown activity	462	1,247	621	464	337	391	785	384	382	325	24	517	5,939
(b) Active	310	968	572	315	193	300	696	300	318	293	18	466	4,749
By bacteriology and extent *													
Negative : 1	124	481	222	146	49	91	375	143	140	108	18	172	2,069
2	24	54	25	15	22	12	8	7	24	7	-	31	229
3	3	12	-	-	2	2	5	-	1	3	-	10	38
Positive : 1	97	308	199	100	34	124	261	119	81	98	-	108	1,529
2	45	87	92	38	53	38	25	24	31	34	-	61	528
3	8	20	17	6	29	25	16	2	12	29	-	68	232
Incomplete : 1	7	4	17	8	2	8	6	5	23	13	-	15	108
2	1	-	-	1	2	-	-	-	4	-	-	-	8
3	1	2	-	1	-	-	-	-	2	1	-	1	8
By bacteriology and cavity													
Negative : Yes	3	19	20	5	1	3	6	10	9	3	-	11	90
No	148	528	227	156	72	102	382	140	156	115	18	202	2,246
Positive : Yes	31	49	74	12	12	44	30	38	39	66	-	65	460
No	119	366	234	132	104	143	272	107	85	95	-	172	1,829
Incomplete : Yes	1	-	-	-	-	-	-	-	6	1	-	2	10
No	8	6	17	10	4	8	6	5	23	13	-	14	114
By previous history and treatment													
No previous history of tuberculosis	292	842	546	294	184	268	630	286	209	277	18	431	4,277
Previously diagnosed no treatment	-	53	1	-	-	2	-	-	87	-	-	7	150
Previously diagnosed and treatment	18	58	25	21	9	30	66	13	21	16	-	28	305
Previous history not known	-	15	-	-	-	-	-	1	1	-	-	-	17

* 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, 1993

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	—	3	—	—	1	5
011	Pulmonary Tuberculosis	288	948	552	286	187	282	664	289	277	281	18	409	4,481
012	Other Respiratory Tuberculosis	22	20	20	29	6	17	23	10	38	12	—	55	252
013	Tuberculosis of Meninges	1	2	4	—	—	—	—	—	2	1	—	—	10
014	Tuberculosis of Intestines	—	4	2	2	1	—	4	—	3	—	—	1	17
015	Tuberculosis of Bones & Joints	2	8	10	2	—	4	3	—	4	1	—	2	36
016	Tuberculosis of Genito-urinary System	2	5	4	1	—	—	—	2	2	2	—	5	23
017	Tuberculosis of Other Organs	16	90	34	25	8	11	52	27	27	27	—	50	367
018	Miliary Tuberculosis	1	—	—	1	—	1	4	—	3	5	—	3	18
137	Late effects of Tuberculosis	462	1,247	621	464	337	391	785	384	382	325	24	517	5,939
160-165	Malignant Neoplasm of Respiratory System	60	287	114	70	45	73	111	46	86	44	—	76	1,012
212	Benign Neoplasm of Respiratory System	—	—	—	—	—	2	2	—	—	—	—	—	4
460-466	Acute Respiratory Infection	176	604	12	342	237	215	610	98	20	272	2	2	2,590
470-478	Other Diseases of Upper Resp Tract	22	14	2	—	2	1	14	7	1	3	1	—	67
480-486	Pneumonia	72	293	165	124	118	50	111	45	153	53	5	161	1,350
487	Influenza	—	—	—	—	—	—	1	1	—	—	—	—	2
490-491	Bronchitis, (not specified as acute or chronic) & chronic bronchitis	504	873	87	85	254	141	720	204	105	113	9	316	3,411
492	Emphysema	4	20	31	4	13	6	15	13	24	3	2	11	146
493	Asthma	12	88	15	18	12	7	71	11	5	6	1	8	254
494	Bronchiectasis	14	157	88	53	42	22	138	35	31	39	—	68	687
495-496	Others	33	115	31	81	43	10	77	27	2	40	—	12	471
501	Asbestosis	—	1	—	—	4	—	—	1	—	—	2	—	8
502	Silicosis	3	6	3	1	3	1	30	22	—	—	—	5	74
505	Pneumoconiosis, unspecified	1	1	—	—	4	—	1	1	—	—	—	—	8
506-508	Others	—	—	1	—	—	—	—	—	—	—	—	—	1
510	Empyema	1	2	—	2	2	3	2	—	1	—	—	1	14
511	Pleurisy	16	37	1	11	15	16	25	12	—	34	3	31	201
512	Pneumothorax	8	26	11	5	14	6	21	8	3	5	—	7	114
513-519	Other Diseases of Respiratory System	15	89	49	5	9	9	41	105	13	33	2	26	396
786	Unknown	33	297	43	52	19	33	174	26	1	12	—	15	705
V71	N.S.D.	266	503	659	146	298	142	776	390	578	368	8	409	4,543
	Diseases Other than TB & Resp System	38	50	48	41	46	57	133	28	10	11	—	51	513
Total		2,072	5,787	2,607	1,850	1,719	1,501	4,608	1,792	1,774	1,690	77	2,242	27,719

APPENDIX 55

Extent of Active Respiratory TB in First Attenders at Chest Clinics 1985 - 1993

Extent *	1985		1986		1987		1988		1989		1990		1991		1992		1993	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
1. Minimal	3653	64.9	3830	72.8	4012	72.7	3842	68.7	3702	71.6	3750	73.0	3651	76.8	3789	78.2	3706	78.0
2. Moderate	1479	26.3	1122	21.3	1166	21.1	1373	24.6	1125	21.8	1095	21.3	864	18.2	811	16.7	765	16.1
3. Extensive	497	8.8	308	5.9	337	6.1	375	6.7	342	6.6	291	5.7	238	5.0	248	5.1	278	5.9
Total	5629	100.0	5260	100.0	5515	100.0	5590	100.0	5169	100.0	5136	100.0	4753	100.0	4848	100.0	4749	100.0
No. of first attenders	54,505		45,958		42,685		42,863		40,369		39,532		35,855		39,336		37,366	
% of active TB	10.3		11.4		12.9		13.0		12.8		13.0		13.3		12.3		12.7	

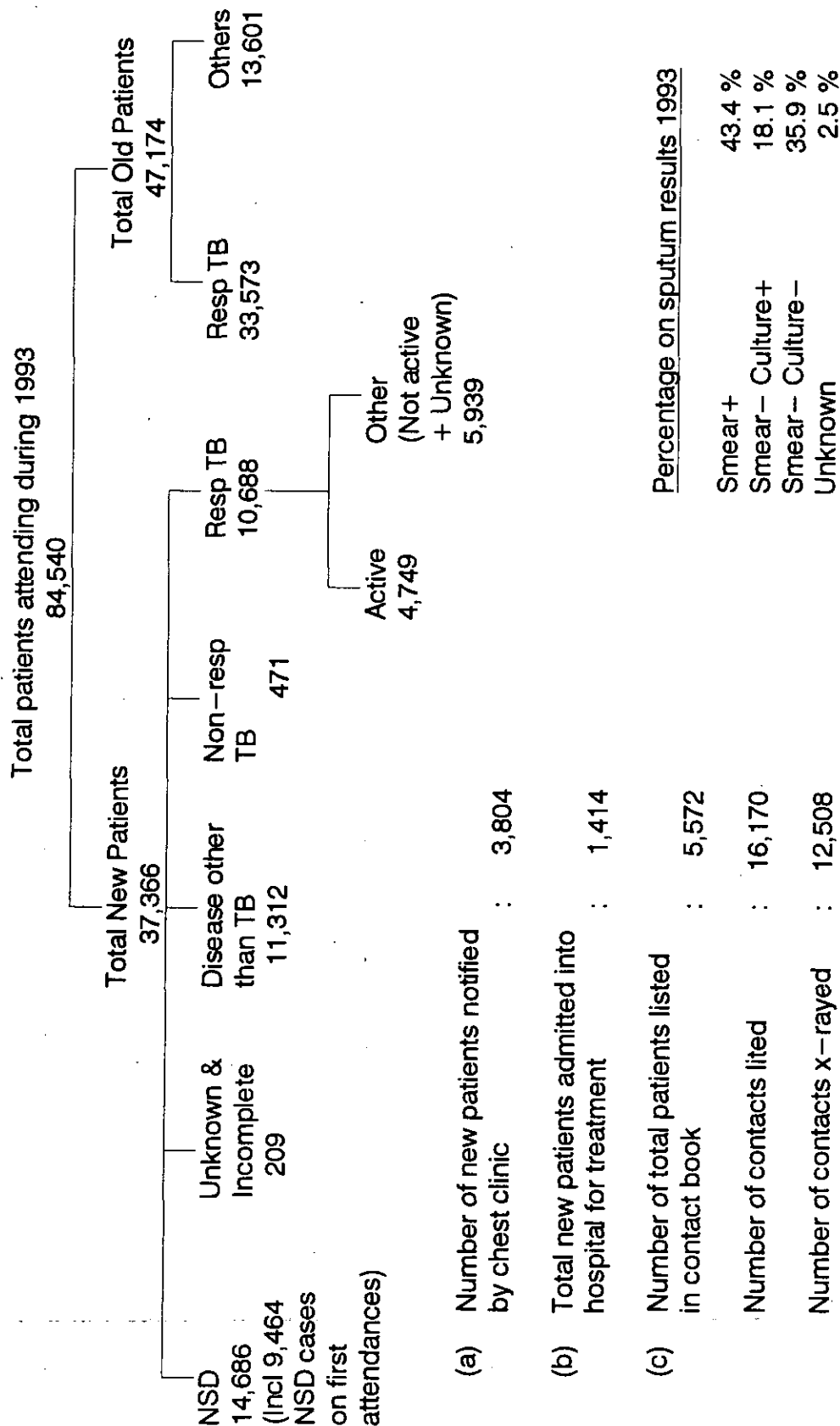
* 1. Minimal : Less than right upper lobe

2. Moderate : More than right upper lobe

3. Extensive : More than a lung

APPENDIX 56

Flow Chart of Patients Attending Chest Clinics, 1993



- (a) Number of new patients notified by chest clinic : 3,804
- (b) Total new patients admitted into hospital for treatment : 1,414
- (c) Number of total patients listed in contact book : 5,572
- Number of contacts listed : 16,170
- Number of contacts x-rayed : 12,508
- Number of cases of active TB found in contacts : 156 (1.25 %)

Percentage on sputum results 1993	
Smear+	43.4 %
Smear- Culture+	18.1 %
Smear- Culture-	35.9 %
Unknown	2.5 %

APPENDIX 57

Chest X-ray, 1992 & 1993

Chest X-ray Unit	No. of full size films used	
	1992	1993
East Kowloon	21,248	21,792
Kowloon	25,571	27,139
Kwai Chung	19,928	24,491
Sai Ying Pun	16,119	14,470
Shaukeiwan	12,663	13,065
Shek Kip Mei	21,638	17,665
Wanchai	33,030	32,151
Yan Oi	11,958	11,860
Yaumati	20,612	19,389
Yuen Chau Kok *	—	5,951
Yung Fung Shee	10,729	11,493
Cheung Chau	24	2
Sai Kung	586	418
Shatin	5,516	—
Sheung Shui	2,007	1,684
Stanley P H	84	30
Tai Lam A T C	59	21
Tai O	15	1
Tai Po	3,332	2,697
Yuen Long	3,517	2,800
Pik Uk Prison	2	—
Total (Chest Service)	208,638	207,119
Total (Other Service) #	23,624	50,311
Grand Total	232,262	257,430

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

* Yuen Chau Kok Chest Clinic took over the place of Shatin Chest Clinic w.e.f. September 1993.

APPENDIX 58

Cost of Anti-Tuberculosis Drug, 1993

Drug	Average Daily Dose	Price (HK\$)	Daily Cost	
			1992 (HK\$)	1993 (US\$)
Streptomycin	1 gm	\$3.20/gm	\$ 3.19	\$ 3.20
INH Tablets	300 mgm	\$2.27/100	6.78 cents	6.81 cents
Ethionamide	0.5 - 0.75 G.	\$508.76/100 of 0.125 G	\$ 4.12	\$ 20.35
Prothionamide	0.5 - 0.75 G.	\$170.00/100 of 0.250 G	\$ 3.40	\$ 3.40
Pyrazinamide	1.5 - 2 G.	\$31.42/100 of 0.5 G	92.52 cents	94.26 cents
Kanamycin	3/4 gm	\$6.5/gm	\$ 4.88	\$ 4.88
Ethambutol	800 - 1200 mgm.	\$72.80/100 of 0.4 G	\$ 1.46	\$ 1.46
Rifampicin	450 - 600 mgm.	\$110.65/100 of 150 mgm.	\$ 3.26	\$ 3.32

Average dose		Regimen	Average Cost	
S	1 G. H 800mg	2SHRZ ₃ /4HR ₃	\$ 476.40	\$ 483.44
Z	2.5 G. R 600mg	4SHRZ ₃	\$ 481.64	\$ 487.69
				\$ 61.98
				\$ 62.52

NOTE : US\$1.00 = HK\$7.80

APPENDIX 59

Establishment & Strength of Chest Service As at 31.12.93

Post	Establishment	Strength
Consultant Chest Physician	1	1
Senior Medical & Health Officer	6 (a)	3
Medical & Health Officer	21	24 (b)
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) 1 MO 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 1993/94

	<u>1993/94</u>	<u>1992/93</u>
	\$	\$
1. Drugs, Dressings, Instruments, Consumables and Sundries, and BCG vaccine	11,889,000 (a)	9,667,000
2. X-ray films and radiology equipment	796,324	908,630
3. Investigation at Pathological Institutes (b)	7,049,000	6,568,000
4. Department of Health		
Staff Cost (Chest Service) (c)	84,523,000	73,050,000
Other Charges	1,152,000	745,000
GRAND TOTAL	<u>105,409,324 (d)</u>	<u>90,938,630</u>

Note : (a) Cost on T.B. drugs 11,323,254
 BCG vaccine 281,054

(b) Excluded services for Hospital Authority.

(c) Recharge of expenditure from other Institutions or Government Departments are not included.

(d) Annual expenditure of DH for 1993/94 is HK\$1,782.46 million, thus, expenditure on Chest Service account for 5.9% only.

PART 2

MALIGNANT NEOPLASM OF
TRACHEA, BRONCHUS AND LUNG

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7. Mortality Rate of Tuberculosis and Malignant Neoplasm of Trachea, Bronchus and Lung by age and sex, 1993 (Graph)
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9. Deaths and death rate per 100,000 population by Epidemiological districts by place of last residence, 1993
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APPENDIX 1

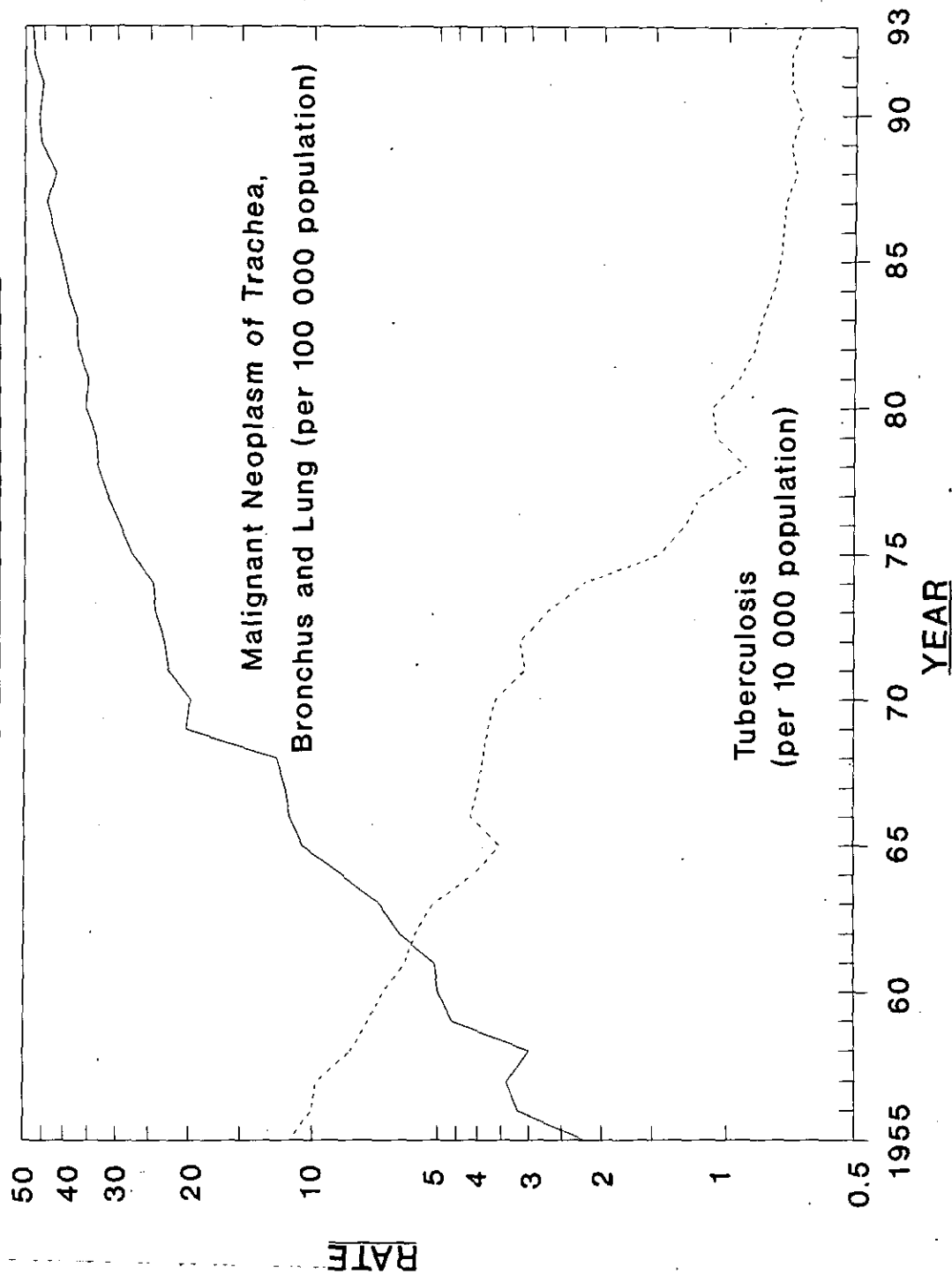
Deaths from Malignant Neoplasm of Trachea, Bronchus & Lung by age and sex 1984 – 1993

Age	Sex	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
0 – 9	M	1	–	–	–	–	–	–	–	–	–
	F	–	–	–	–	–	–	–	–	–	–
10 – 19	M	1	–	1	–	1	–	–	–	–	–
	F	–	–	–	–	–	–	–	1	–	–
20 – 29	M	1	6	2	1	1	3	2	1	4	2
	F	–	4	1	4	–	5	1	4	2	1
30 – 34	M	10	7	5	7	4	6	4	9	10	8
	F	8	2	2	2	4	5	4	4	6	2
35 – 39	M	11	14	9	12	16	17	8	11	21	14
	F	2	9	7	12	13	12	12	5	10	13
40 – 44	M	21	19	39	18	19	34	27	38	33	32
	F	10	7	10	11	10	14	13	15	22	24
45 – 49	M	46	56	46	55	40	43	47	49	50	45
	F	20	12	22	17	9	7	11	23	17	21
50 – 54	M	134	149	130	120	109	120	97	103	93	80
	F	33	40	42	38	33	33	31	24	29	30
55 – 59	M	186	210	201	204	188	204	225	178	190	202
	F	69	61	67	51	64	75	70	46	47	64
60 – 64	M	258	248	291	279	257	286	300	297	269	302
	F	93	110	113	107	98	92	88	86	114	86
65 – 69	M	274	269	311	318	275	343	329	321	368	367
	F	117	138	143	141	150	136	144	132	140	134
70 – 74	M	222	260	249	313	286	336	325	318	326	365
	F	167	140	165	170	153	172	146	167	182	182
75+	M	228	219	253	282	304	339	412	389	442	465
	F	216	243	239	303	327	310	342	374	385	394
All ages	M	1393	1457	1537	1609	1500	1731	1776	1716 (2)	1807 (1)	1882
	F	735	766	811	856	861	861	862	881	954	952 (1)
	T	2128	2223	2348	2465	2361	2592	2638	2597	2761	2834

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 - 1993



APPENDIX 3

Deaths and Death rate 1951 – 1993 (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
1993	5,919,000	2,834	47.9	37.0 #	69

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

Standardisation based on 1981 mid-year population estimate for 1981 to 1993.

APPENDIX 4

Sex Ratio of Deaths 1951 – 1993

Year	Number of Deaths			Sex Ratio	Death Rate per 100,000 population		
	Male	Female	Total	Male/Female	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
1993	1,882	952	2,834	2.0	62.4	32.8	47.9

APPENDIX 5

Percentage Distribution of Deaths by Age Group 1983 - 1993

Age Group	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
0 - 9	-	- *	-	-	-	-	-	-	-	-	-
10 - 19	-	- *	-	- *	-	-	-	-	- *	-	-
20 - 29	0.2	-	0.4	0.2	0.2	-	0.3	0.1	0.2	0.2	0.1
30 - 34	0.2	0.8	0.4	0.3	0.4	0.3	0.4	0.3	0.5	0.6	0.4
35 - 39	0.7	0.6	1.0	0.7	1.0	1.3	1.1	0.8	0.6	1.1	1.0
40 - 44	1.2	1.5	1.2	2.1	1.2	1.3	1.9	1.5	2.0	2.0	2.0
45 - 49	3.6	3.1	3.1	2.9	2.9	2.1	1.9	2.2	2.8	2.4	2.3
50 - 54	7.5	7.9	8.5	7.3	6.4	6.0	5.9	4.8	4.9	4.4	3.9
55 - 59	12.9	12.0	12.2	11.4	10.3	10.7	10.8	11.2	8.6	8.6	9.4
60 - 64	19.3	16.5	16.1	17.2	15.7	15.0	14.6	14.7	14.8	13.9	13.7
65 - 69	19.0	18.4	18.3	19.3	18.6	18.0	18.5	17.9	17.5	18.4	17.7
70 - 74	16.7	18.3	18.0	17.6	19.6	18.6	19.6	17.9	18.7	18.4	19.3
75+	18.7	20.9	20.8	21.0	23.7	26.7	25.0	28.6	29.4	30.0	30.3
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

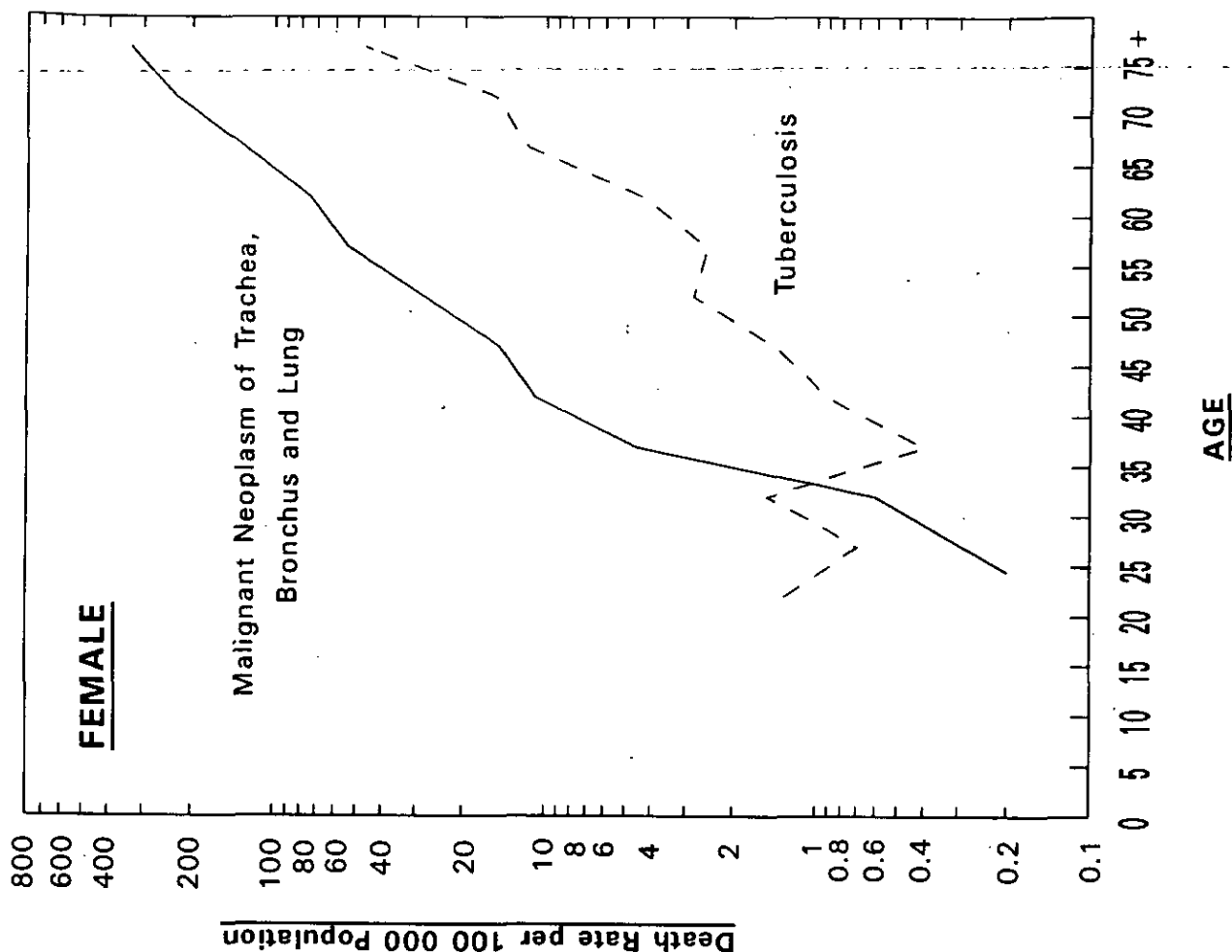
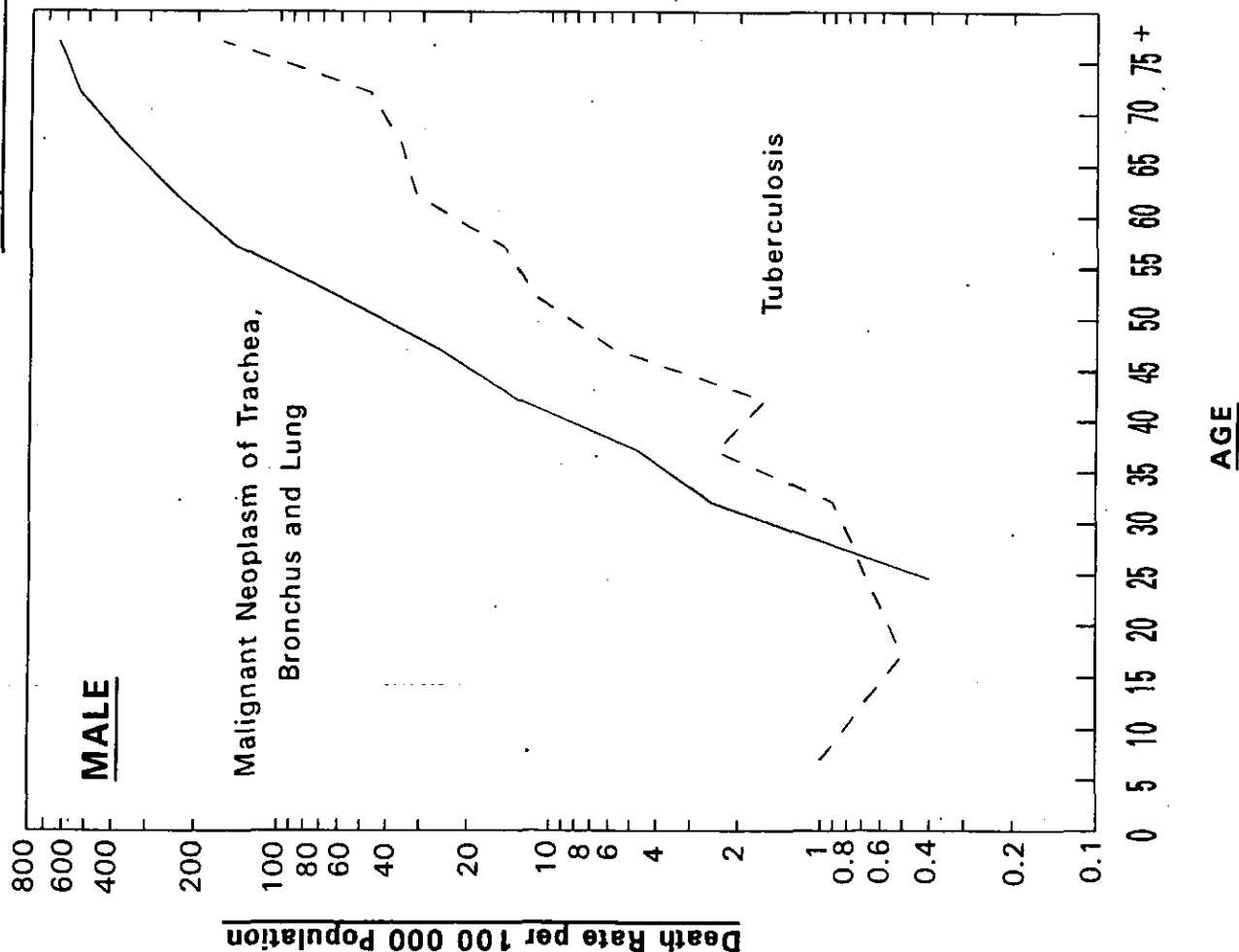
APPENDIX 6

Age-specific-death rate per 100,000 population
1978, 1983, 1988 and 1993

Age Group	1978			1983			1988			1993		
	M	F	T	M	F	T	M	F	T	M	F	T
0-9	-	-	-	-	-	-	-	-	-	-	-	-
10-19	-	-	-	0.2	-	0.1	0.2	-	0.1	-	-	-
20-29	0.4	0.5	0.4	0.3	0.4	0.3	0.2	-	0.1	0.4	0.2	0.3
30-34	4.5	-	2.5	1.6	0.5	1.1	1.4	1.4	1.4	2.5	0.6	1.5
35-39	7.6	2.2	5.2	8.0	0.7	4.7	6.5	5.9	6.2	4.7	4.6	4.7
40-44	16.7	6.8	12.2	13.9	5.6	10.2	11.1	6.9	9.2	13.0	10.9	12.0
45-49	45.5	28.4	32.4	38.2	12.9	26.7	30.2	8.2	20.2	25.9	14.6	20.8
50-54	99.7	30.6	66.1	83.9	22.9	55.4	74.7	26.4	52.4	59.8	28.2	45.8
55-59	161.5	63.6	113.4	159.8	53.9	108.6	135.5	51.4	95.7	143.8	53.9	102.6
60-64	239.9	152.8	180.6	282.5	111.7	197.1	222.5	86.8	155.4	236.7	74.0	159.1
65-69	342.6	136.6	229.1	386.2	116.2	245.0	315.7	162.2	236.6	365.2	130.2	246.3
70-74	439.9	184.5	281.3	463.9	199.3	313.0	475.1	211.3	331.1	534.4	229.2	370.3
75+	406.8	217.5	270.0	518.5	243.6	328.6	564.0	316.9	401.7	637.9	334.7	450.7
Total	41.8	24.7	33.4	49.4	24.6	37.5	51.4	31.1	41.6	62.4	32.8	47.9

APPENDIX 7

Mortality Rate of Tuberculosis and Malignant Neoplasm of Trachea, Bronchus & Lung by Age & Sex, 1993



APPENDIX 8

Deaths by age group and sex by rate per 100,000 population, 1993

Age Group	Deaths			Rate		
	Male	Female	Total	Male	Female	Total
0 - 9	—	—	—	—	—	—
10 - 19	—	—	—	—	—	—
20 - 29	2	1	3	0.4	0.2	0.3
30 - 34	8	2	10	2.5	0.6	1.5
35 - 39	14	13	27	4.7	4.6	4.7
40 - 44	32	24	56	13.0	10.9	12.0
45 - 49	45	21	66	25.9	14.6	20.8
50 - 54	80	30	110	59.8	28.2	45.8
55 - 59	202	64	266	143.8	53.9	102.6
60 - 64	302	86	388	236.7	74.0	159.1
65 - 69	367	134	501	365.2	130.2	246.3
70 - 74	365	182	547	534.4	229.2	370.3
75+	465	394	859	637.9	334.7	450.7
Total	1,882	952 (1)	2,834 (1)	62.4	32.8	47.9

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
1993

Epidemiological District	Deaths	Death Rate
<u>Hong Kong Island</u>	634	50.3
Central & Western	133	50.8
Wanchai	96	51.1
Eastern	286	51.5
Southern	119	46.9
<u>Kowloon</u>	1,186	59.9
Yau Ma Tei	82	65.1
Mong Kok	67	39.4
Sham Shui Po	248	67.4
Kowloon City	178	46.7
Wong Tai Sin	305	79.4
Kwun Tong	306	55.7
<u>New Territories</u>	1,000	38.2
<u>Imported</u>	1	2.4
<u>Marine</u>	—	—
Unknown	13	—
Total	2,834	47.9

APPENDIX 10

Deaths by place of Origin, 1993

Place of Origin	Deaths
Hong Kong	6
Canton, Macau and adjacent places	1,542
Sze Yap	492
Chiu Chau	236
Elsewhere in Kwantung Province	226
Elsewhere in China	193
Other Asian Countries	7
British	4
All Other Countries	3
Unknown	125
Total	2,834

APPENDIX 11

Deaths by Hospital/Place of death, 1993

Hospital/place of death	Cases
Queen Elizabeth	286
Kowloon	104
Princess Margaret	85
Queen Mary	134
Prince of Wales	188
St. John	1
Fanling	43
Kwong Wah	103
Tung Wah	20
Tung Wah Eastern	10
Sandy Bay	28
Wong Tai Sin Infirmary	119
Caritas Medical Centre	117
Alice Ho Miu Ling Nethersole	12
United Christian	84
Maryknoll	22
Hong Kong Buddhist	107
Pok Oi	45
Yan Chai	5
Nam Long	347
Grantham	86
Ruttonjee Sanatorium	116
Haven of Hope Sanatorium	155
Cheshire	1
Pine Hill	79
St Teresa's	44
Hong Kong Sanatorium & Hospital	58
St Paul	34
Canossa	3
Hong Kong Adventist Sanatorium & Hospital	1
Adventist Sanatorium & Hospital	3
Baptist	55
Hong Kong Central	4
Precious Blood	3
Matilda	1
Evangel Medical Centre	1
British Military	3
At home	3
Public Place	1
Monastery/old people's home	1
Died before arrival/on arrival to hospital	154
Unknown	168
Total	2,834

APPENDIX 12

Main Causes of Death from Cancer in Hong Kong 1984 - 1993

Causes of Death Detailed List No. 9th Revision	1984		1985		1986		1987		1988		1989		1990		1991		1992		1993	
	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)	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	9311	157.3
Malignant Neoplasm of Nasopharynx (147)	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	453	7.7
Malignant Neoplasm of Oesophagus (150)	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	392	6.6
Malignant Neoplasm of Stomach (151)	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	552	9.3
Malignant Neoplasm of Colon (153)	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	669	11.3
Malignant Neoplasm of rectum, rectosig- moid junction and anus (154)	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	309	5.2
Malignant Neoplasm of Liver and Intrahepatic Bile Ducts (155)	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	1168	19.7
Malignant Neoplasm of Trachea, Bronchus and Lung (162)	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	2834	47.9
Malignant Neoplasm of Breast (174) *	250	9.6	262	9.9	243	9.1	262	9.7	260	9.5	283	10.2	277	10.0	333	11.8	331	11.6	313	10.8
Malignant Neoplasm of Cervix Uteri(180) *	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	144	5.0

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 - 1993

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
1993	N.A.	N.A.	10,888	1,483	12,371	1,882	952	2,834

* Including in-patients treated in hospital in Correctional Institutions for 1951-1990, excluding in-patients treated in hospital in Correctional Institutions for 1991-1993.

PART 3

PNEUMOCONIOSIS

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APPENDIX 1

Notifications of Silicosis attending the Pneumoconiosis Clinic in Hong Kong 1956 - 1993

Year	Number Notified				Cumulative Total Compensated	
	Government Workers	Non-government Workers	Total	Cumulative Total	R1	R2
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 (a)	544	1,992	386 (a)	—
1981	8	608	616	2,608	1,332	162
1982	4	511	515	3,123	1,434	634
1983	2	292	294	3,417	1,469	945
1984	1	231	232	3,649	1,477	1140
1985	1	179	180 (b)	3,829	1,479	1322
1986	3	176	179 (3)	4,008	1,485	1513
1987	4	166	170 (2)	4,178	1,485	1679
1988	6	172	178 (4)	4,356	1,488	1877
1989	—	156	156 (1)	4,512	1,488	2023
1990	2	147	149 (1)	4,661	1,489	2142
1991	—	171	171 (1)	4,832	1,489	2151
1992	2	171	173 (3)	5,005	1,490	2340
1993	2	247	249 (c) (4)	5,254	1,492 (d)	2492

Note: (a) The Pneumoconiosis Compensation Scheme was initiated in 1980, before that notifications were voluntary.

(b) The figures in this column denote the patient of asbestos.

(c) Up to the moment that this report is being compiled, only 229 of the 249 cases notified in 1993 had been assessed and confirmed Pneumoconiosis by the Pneumoconiosis Medical Board. And the following tables (Appendix 2 to Appendix 8) are compiled based on the data of these 229 cases.

(d) Under Revised Ordinance 1993: 522 out of 1,492 pneumoconiotics receive each monthly ex-gratia payment of \$3,000.

APPENDIX 2

Age Distribution of Pneumoconiosis Cases 1993

Age	Number of Cases	%
25 - 29	—	—
30 - 34	1	*
35 - 39	12	5
40 - 44	27	12
45 - 49	26	11
50 - 54	37	16
55 - 59	38	17
60 - 64	39	17
65 - 69	24	11
70 - 74	6	3
75+	19	8
Total	229	100

Note: * denote percentage less than 0.5.

APPENDIX 3

Pneumoconiosis Patients by Duration of Exposure to Dust 1993

Duration	Number of Cases	%
< 5 years	6	3
5 - 9	10	4
10 - 14	37	16
15 - 19	40	18
20 - 24	39	17
25 - 29	37	16
30+	57	25
Unknown	3 *	1
Total	229	100

* Old fatal cases, no information available.

APPENDIX 4

Pneumoconiosis Patients with Tuberculosis, 1993

Type of T.B.	Number of Cases	%
Bacteriological Positive	64	28
Bacteriological negative	46	20
No T.B.	117	51
N.A.	2	1
Total	229	100

APPENDIX 5

**Pneumoconiosis Patients by Degree of Incapacity,
by New or Old Scheme, 1993**

Degree of Incapacity (%)	No. of Cases Compensated under Compensation Ordinance		%	
	Old Scheme	New Scheme	Old Scheme	New Scheme
5	—	85	0	50
10	40	18	67	11
15	1	14	2	8
20	4	16	7	10
25	—	—	0	0
30	6	10	10	6
35	—	—	0	0
40	2	7	3	4
45	—	—	0	0
50	2	2	3	1
55	—	—	0	0
60	—	5	0	3
70	—	2	0	1
80	1	3	2	2
100	—	2	0	1
N.A. *	4	5	7	3
Total	60	169	100	100

* Fatal cases.

APPENDIX 6

Confirmed Pneumoconiosis Patients Classified by Radiological Appearance, 1993

Type of Opacity	Profusion			Sub - Total
	1	2	3	
<u>Small opacities</u>				
<u>Rounded</u>				
p (up to 1.5 mm diameter)	19	3	1	23
q (1.5 to 3.0 mm diameter)	28	48	2	78
r (3.0 to 10.0 mm diameter)	—	5	4	9
<u>Irregular</u>				
s (fine irregular or linear)	42	7	—	49
t (medium irregular)	16	33	1	50
u (coarse irregular)	5	4	7	16
Sub-total	110	100	15	225
<u>Combined opacities</u>	1	—	—	1
<u>N.A.</u>	—	—	—	3
Total				229

53 out of the 229 patients have large opacities as follows :

<u>Large opacities</u>	
A (Single opacity 1 – 5 cm or multiple opacities > 1 cm each but sum of diameter < 5 cm)	32
B (Single or multiple opacities with combined area < the equivalent of right upper zone)	17
C (Single or multiple opacities with combined area > the equivalent of right upper zone)	4
Total	53

APPENDIX 7

Confirmed Pneumoconiosis Patients by Other Particulars 1993

Characteristics		Number of Cases	%
Smoking	Smoker/Ex-smoker	195	85
	Non-smoker	30	13
	Unknown	4	2
	Total	229	100
Still exposed to dust when seen by the Pneumoconiosis Clinic	Yes	75	33
	No	151	66
	Unknown	3	1
	Total	229	100
General Condition	Good	212	92
	Fair	6	3
	Poor	2	1
	Died	9	4
	Total	229	100

APPENDIX 8

Occupation Distribution of Confirmed Silicosis 1993

Type of occupation *	Number of Cases	%
Construction	141	61.6
Construction/Quarry	73	31.9
Others	15	6.5
Total	229	100.0

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

