

ANNUAL REPORT 1994

CHEST SERVICE

OF THE

GOVERNMENT DEPARTMENT OF

HEALTH

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Preface

In 1994, tuberculosis continued to be a disease of worldwide concern. The global resurgence of tuberculosis was attributed to various factors: public health neglect, loss of the effective infrastructure for the control of TB, problem of HIV infection, demographic factors, poverty, and others.

In Hong Kong, there are various challenges to the control of tuberculosis. The structure of the local population has been changing, with an increasing proportion of elderly and people who can have prolonged survival despite having severe medical illnesses. The overcrowding environment, the high incidence of TB in neighbouring areas in Southeast Asia, and the large daily number of travellers in and out of the territory are issues of concern. These groups are at higher risk of developing TB. The combined effect of all these factors is likely to maintain the local incidence of TB at a relatively high level.

The local TB control service has changed since 1991 with the establishment of the Hospital Authority. The TB & Chest Service of the Department of Health (the Service) continues to provide ambulatory care to the majority of TB patients in Hong Kong. It collaborates closely with other health sectors, in particular the various hospital TB & Chest units which have been taken up by the Hospital Authority.

WHO has called for the individual countries and international collaboration in the fight against this disease. Fully supervised treatment and case-finding are the most important measures used in TB control. There is a need to maintain a strong infrastructure

for TB control in Hong Kong. Hence, the role of the Service in providing effective passive case-finding and supervised treatment should not be underestimated. In addition, other functions of the Service, such as BCG vaccination, contact tracing, defaulter tracing, health education, and public health surveillance, are also important measures for TB control locally. In view of the changing global and local scenes, the various measures are to be continuously reviewed and optimised for the vigilant control of tuberculosis.

During the year, 93,199 patients attended the Service compared with 84,540 in 1993, the total attendance was 774,864 compared with 730,563 in 1993. Most of the increase was related to the establishment of the full time Yuen Chau Kok Chest Clinic in September 1993. Among the 93,199 patients, 37,218 patients were new attendants of whom 38.4% were found free of any chest disease. The diagnoses among other new patients included active pulmonary tuberculosis (11.5%), active tuberculosis of other forms (1.9%), inactive tuberculosis (16.6%), bronchitis not specified as acute or chronic (7.5%), acute respiratory infection (8.9%), pneumonia (4.1%), malignant neoplasm of trachea and bronchus (2.4%), bronchiectasis (1.5%), asthma (0.6%) and emphysema (0.4%). Among all the attendances, 5,176 hospital admissions were arranged.

Part I: Tuberculosis

The number of tuberculosis notifications in 1994 was 6,319 making a notification rate of 104.2 per 100,000 population, the corresponding figures in 1993 were 6,537 and 110.4.

The number of tuberculosis deaths was 409 in 1994 compared with 396 in 1993, with the mortality rate for both years being the same at 6.7 per 100,000.

Tuberculosis ranked ninth in the leading cause of death and tuberculosis deaths accounted for 1.4% of the total registered deaths in Hong Kong. The average age of TB deaths was 71.

In 1994, 99.5% of the newborns were given direct BCG vaccination at birth. 90% of primary schoolchildren aged 6-10 took up tuberculin test, of which 76.5% were found to be tuberculin-negative and given BCG revaccination.

Tests for HIV infection among tuberculosis patients of the Service were done on a voluntary basis after obtaining their consent. The positive rate was very low.

Part II: Pneumoconiosis

The Pneumoconiosis Compensation Ordinance was amended in July 1993. A monthly payment was introduced to replace the previous lump sum payment. Reassessment at 2-yearly interval was also introduced at the same time. Previously compensated post-1981 pneumoconiotics can also apply for reassessment for compensation for additional incapacity under the amended Ordinance. The new scheme is being kept under continuous review by the Labour Department in collaboration with other concerned parties.

327 new cases of pneumoconiosis were registered in the Service in 1994, and

322 new cases (including 7 cases of asbestos-related lung diseases) were assessed by the Pneumoconiosis Medical Board. Up to the end of 1994, a total of 4263 patients had been compensated. The attendance at the clinic had increased from 2,677 in 1993 to 3,559 in 1994. The Pneumoconiosis clinic was relocated to the Shaukeiwan Jockey Club Clinic in November 1994 with expansion of its service.

Notes: The content and presentation of this issue of the annual report has been revised to make it more concise and easier to read.

PART 1

TUBERCULOSIS

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APPENDIX 1

Notification & Death Rate of Tuberculosis (All Forms) 1947 - 1994

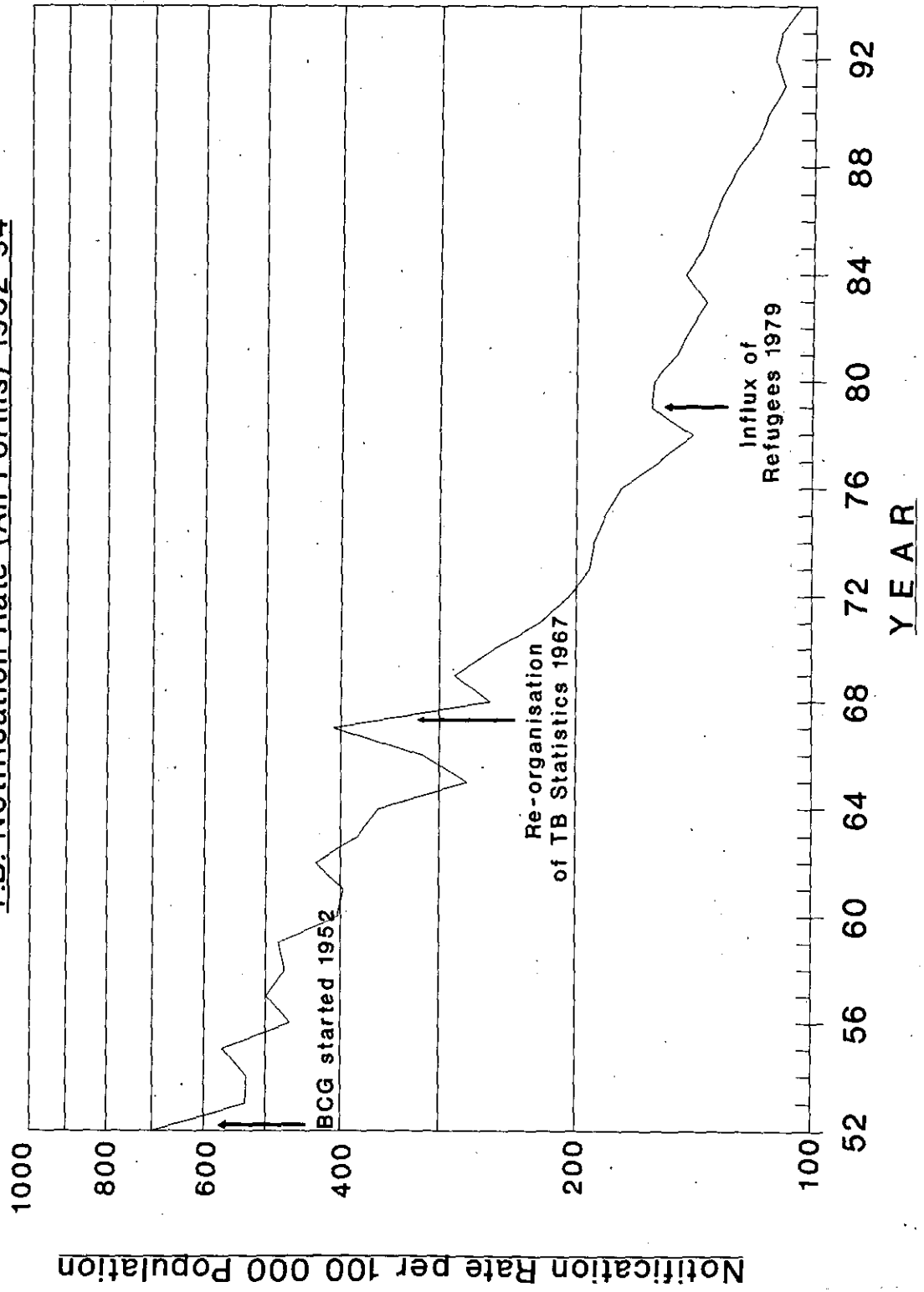
Year	T.B. Notification	Notification Rate per 100,000 Pop	T.B. Deaths	Death Rate per 100,000 Pop	Ratio (Notifications/ Deaths)	Deaths ----- x 100% Notifications
1947	4,855	277.4	1,861	106.3	2.61	38.33
1948	6,279	348.8	1,961	108.9	3.20	31.23
1949	7,510	404.4	2,611	140.6	2.88	34.77
1950	9,067	405.3	3,263	145.9	2.78	35.99
1951	13,886	689.0	4,190	207.9	3.31	30.17
1952	14,821	697.2	3,573	168.1	4.15	24.11
1953	11,900	530.7	2,939	131.1	4.05	24.70
1954	12,508	528.9	2,876	121.6	4.35	22.99
1955	14,148	568.1	2,810	112.8	5.03	19.86
1956	12,155	464.9	2,629	100.6	4.62	21.63
1957	13,665	499.4	2,675	97.8	5.11	19.58
1958	13,485	472.5	2,302	80.7	5.86	17.07
1959	14,302	482.0	2,178	73.4	6.57	15.23
1960	12,425	404.0	2,085	67.8	5.96	16.78
1961	12,584	397.2	1,907	60.2	6.60	15.15
1962	14,263	431.5	1,881	56.9	7.58	13.19
1963	13,031	380.9	1,762	51.5	7.40	13.52
1964	12,557	358.3	1,441	41.1	8.71	11.48
1965	9,927	275.9	1,278	35.5	7.77	12.87
1966	11,427	314.8	1,515	41.7	7.54	13.26
1967	15,253	409.7	1,493	40.1	10.22	9.79
1968	9,792	257.5	1,483	39.0	6.60	15.15
1969	11,072	286.5	1,470	38.0	7.53	13.28
1970	10,077	254.5	1,436	36.3	7.02	14.25
1971	9,028	223.2	1,250	30.9	7.22	13.85
1972	8,420	204.2	1,312	31.8	6.42	15.58
1973	8,152	192.2	1,154	27.2	7.06	14.16
1974	8,320	190.0	974	22.2	8.54	11.71
1975	8,192	183.6	646	14.5	12.68	7.89
1976	7,928	175.5	568	12.6	13.96	7.16
1977	7,191	156.9	532	11.6	13.52	7.40
1978	6,623	141.9	420	9.0	15.77	6.34
1979	7,907 (498)*	160.4	523	10.6	15.12	6.61
1980	8,065 (712)	159.3	551	10.9	14.64	6.83
1981	7,729 (254)	149.1	489	9.4	15.81	6.33
1982	7,527 (112)	143.0	454	8.6	16.58	6.03
1983	7,301 (73)	136.6	446	8.3	16.37	6.11
1984	7,843 (69)	145.3	420	7.8	18.67	5.36
1985	7,545 (59) 580 #	138.3	409	7.5	18.45	5.42
1986	7,432 (46) 544	134.5	407	7.4	18.26	5.48
1987	7,269 (41) 495	130.3	405	7.3	17.95	5.57
1988	7,021 (121) 433	124.8	388	6.9	18.10	5.53
1989	6,704 (226) 387	117.9	403	7.1	16.64	6.01
1990	6,510 (288) 341	114.1	382	6.7	17.04	5.87
1991	6,283 (281) 293	109.2	409	7.1	15.36	6.51
1992	6,534 (309) 264	112.4	410	7.1	15.94	6.27
1993	6,537 (264) 89	110.4	396	6.7	16.51	6.06
1994	6,319 (230) 87	104.2	409	6.7	15.45	6.47

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

Figure in this column denote the number of Chinese immigrants staying in Hong Kong for less than 7 years.

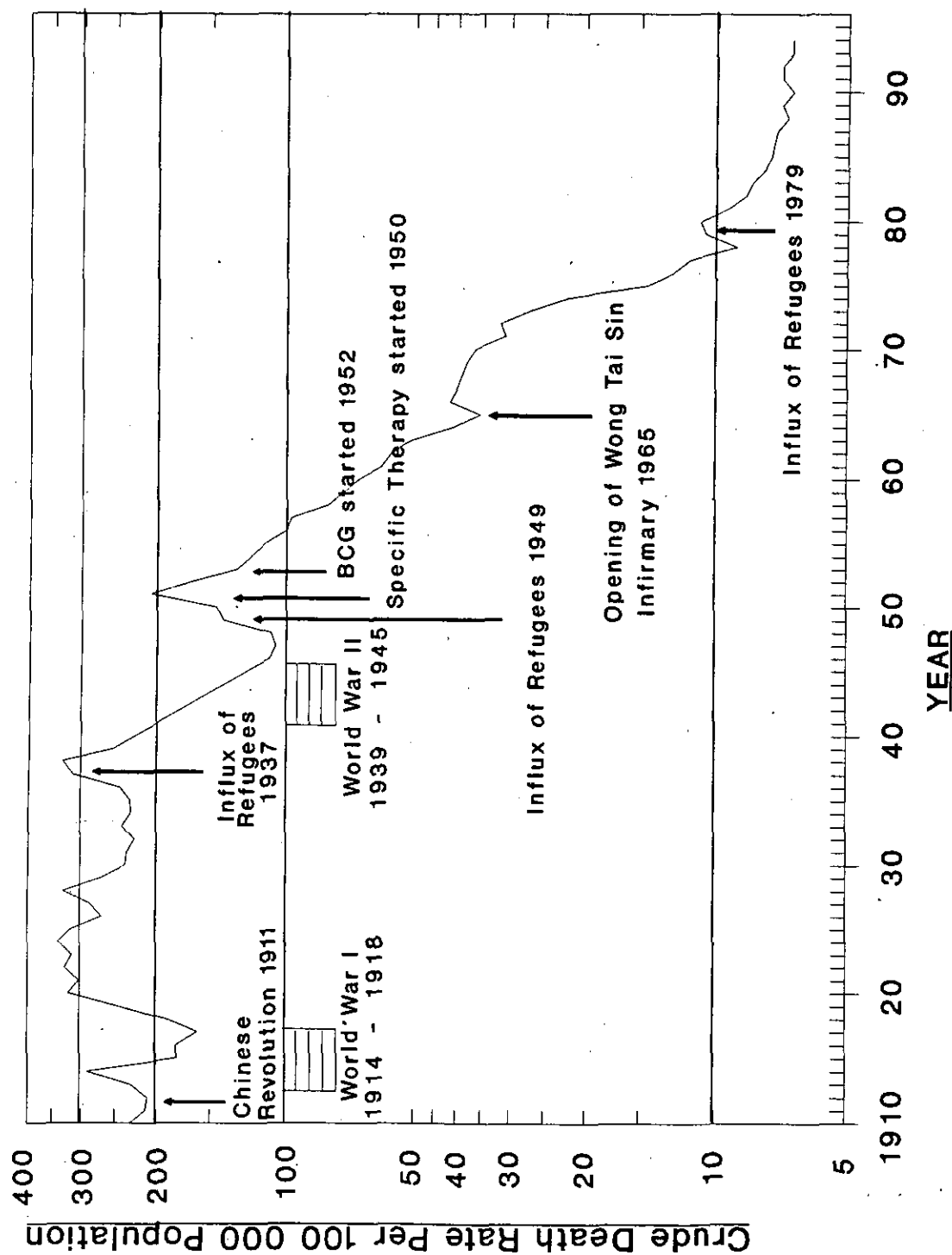
APPENDIX 2

T.B. Notification Rate (All Forms) 1952-94



APPENDIX 3

Crude Death Rate due to Tuberculosis (All Forms) 1910-1994



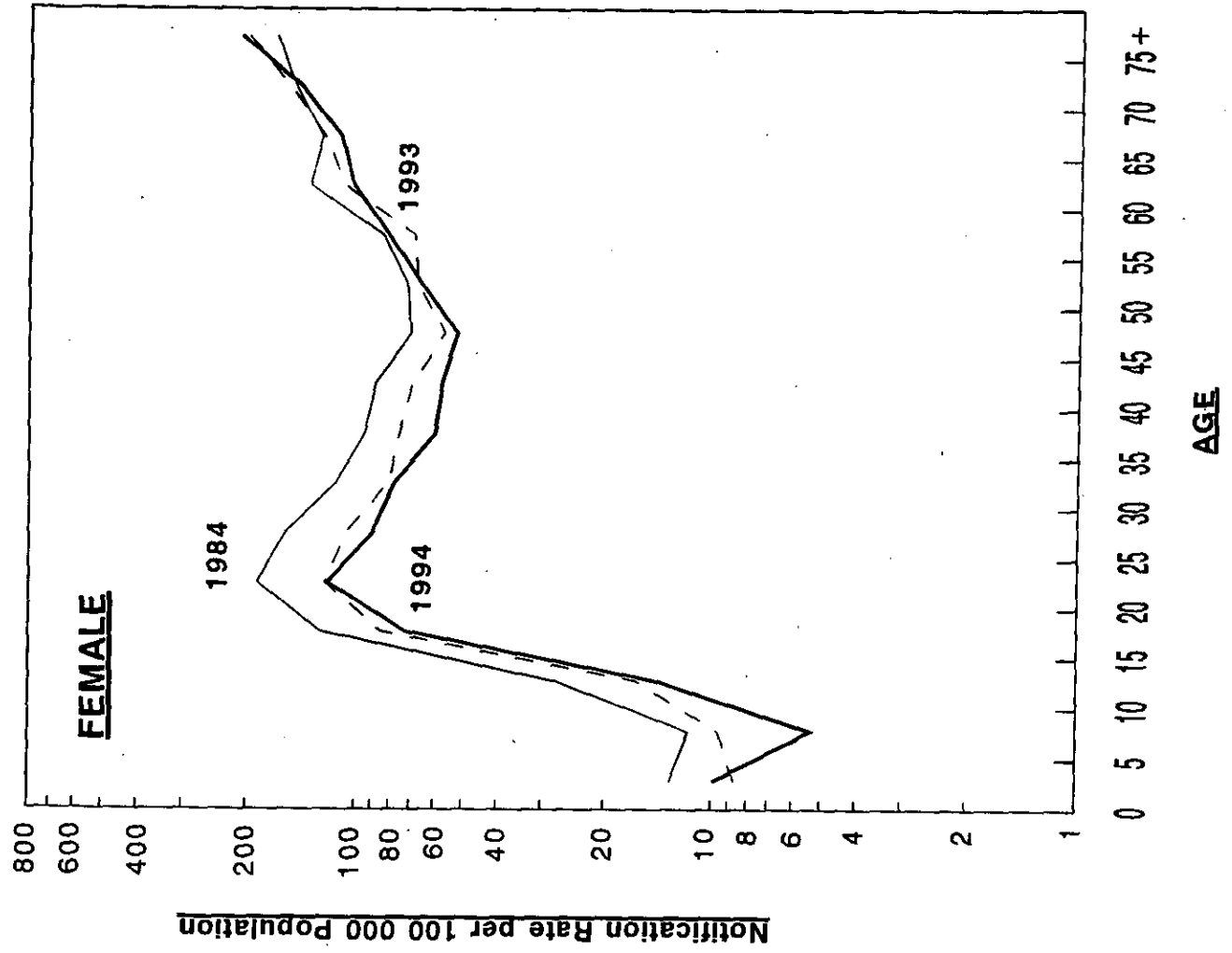
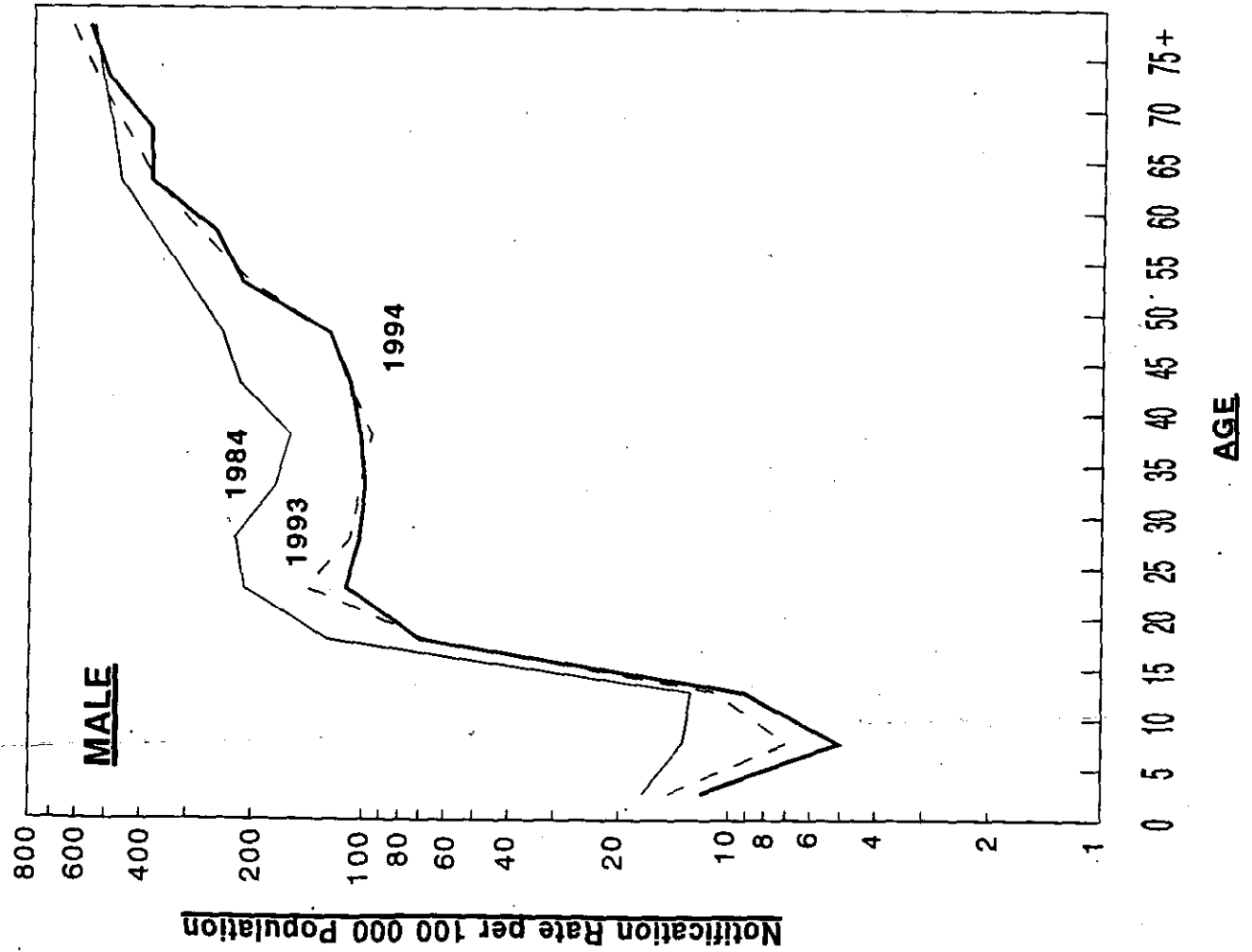
APPENDIX 4

Tuberculosis Notifications (All Forms) & Rate by Age and Sex 1994

Age Group	Tuberculosis Notification (All Forms)				Tuberculosis Notification Rate (per 100,000 population)		
	M	F	T		M	F	T
Under 1	7	3	10				
1	7	4	11				
2	3	2	5	>	11.9	8.4	10.2
3	4	4	8				
4	2	2	4				
5 - 9	10	8	18		5.0	4.4	4.7
10 - 14	20	25	45		9.1	12.3	10.6
15 - 19	147	128	275		70.0	66.1	68.1
20 - 24	263	271	534		112.9	111.7	112.3
25 - 29	279	239	518		103.6	82.8	92.8
30 - 34	331	239	570		100.4	71.6	85.9
35 - 39	330	165	495		103.7	54.8	79.9
40 - 44	288	122	410		110.7	52.2	83.0
45 - 49	249	78	327		126.1	47.4	90.4
50 - 54	290	63	353		216.7	60.2	148.1
55 - 59	361	88	449		257.5	75.3	174.6
60 - 64	496	111	607		383.9	95.4	247.3
65 - 69	404	110	514		385.1	104.2	244.2
70 - 74	360	112	472		505.6	135.6	306.9
75 - 79	246	106	352				
80 - 84	147	71	218	>	570.3	199.5	342.7
85 & over	50	70	120				
Unknown	3	1	4				
Total	4297	2022	6319		139.2	68.0	104.2

APPENDIX 5

T.B. Notification Rate by Age & Sex 1984, 1993 & 1994



APPENDIX 6

Notifications of Tuberculosis by Type by Age & Sex 1994

Age Group	Respiratory System (010 - 012)			Meninges (013)			Bones & Joints (015)			Others (014,016-018 & 137)		
	M	F	T	M	F	T	M	F	T	M	F	T
Under 1	6	2	8	-	-	-	-	-	-	1	1	2
1	5	3	8	-	-	-	-	-	-	2	1	3
2	2	2	4	1	-	1	-	-	-	-	-	-
3	3	-	3	-	2	2	-	-	-	1	2	3
4	1	2	3	-	-	-	-	-	-	1	-	1
5 - 9	7	5	12	-	1	1	1	-	1	2	2	4
10 - 14	19	22	41	-	-	-	-	-	-	1	3	4
15 - 19	138	118	256	-	1	1	2	-	2	7	9	16
20 - 24	245	243	488	-	2	2	-	-	-	18	26	44
25 - 29	257	212	469	-	1	1	-	1	1	22	25	47
30 - 34	309	195	504	1	-	1	-	2	2	21	42	63
35 - 39	317	130	447	-	-	-	-	-	-	13	35	48
40 - 44	275	91	366	2	-	2	2	2	4	9	29	38
45 - 49	234	58	292	-	1	1	2	-	2	13	19	32
50 - 54	282	54	336	-	-	-	2	1	3	6	8	14
55 - 59	350	73	423	-	-	-	1	2	3	10	13	23
60 - 64	483	100	583	1	-	1	2	2	4	10	9	19
65 - 69	390	100	490	1	-	1	2	1	3	11	9	20
70 - 74	353	98	451	-	2	2	2	1	3	5	11	16
75 - 79	241	97	338	-	-	-	-	1	1	5	8	13
80 - 84	142	70	212	-	-	-	2	-	2	3	1	4
85 & over	47	67	114	-	-	-	-	2	2	3	1	4
Unknown	3	1	4	-	-	-	-	-	-	-	-	-
Total	4109	1743	5852	6	10	16	18	15	33	164	254	418 *

* Including : TB Lymph Node
 TB Kidney/Urinary System
 TB Peritonitis
 TB Pleural Effusion

250
 28
 18
 15

TB Laryngitis
 Others
 Unspecified

4
 22
 81

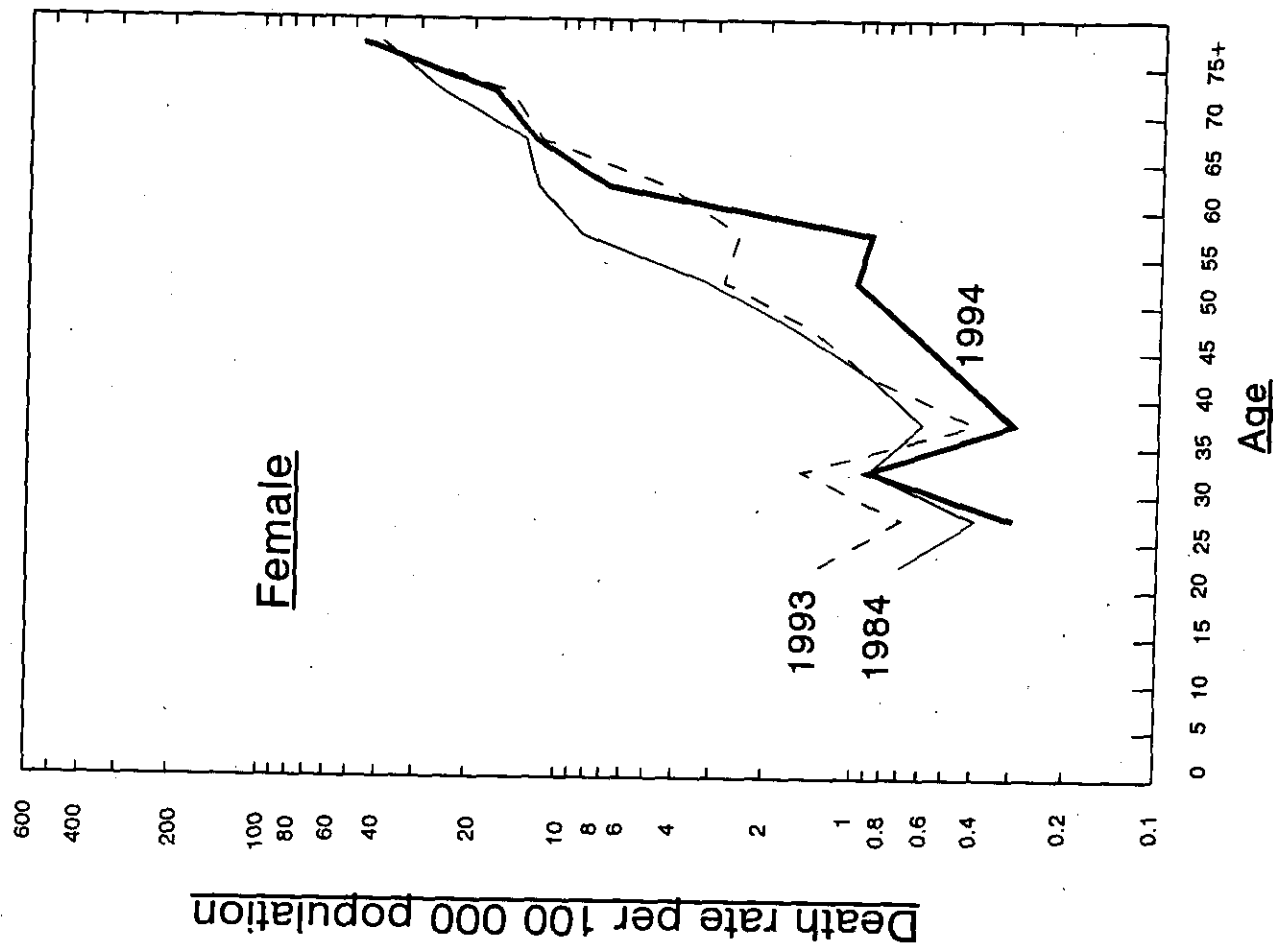
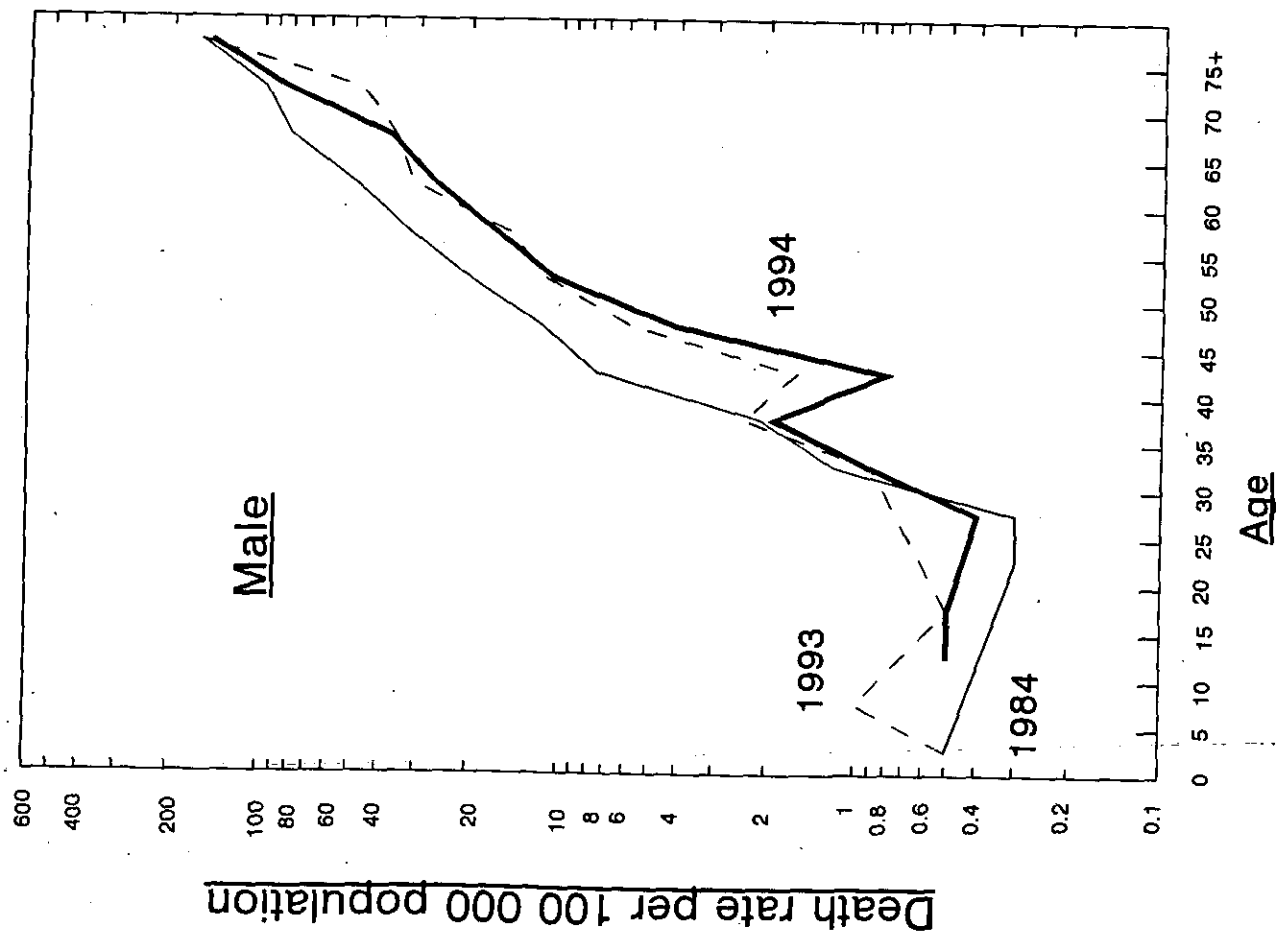
APPENDIX 7

TB Death (All Forms) & Death Rate by Age & Sex 1994

Age Group	T.B. Death (All Forms)			Death Rate (per 100,000 population)		
	M	F	T	M	F	T
Under 1	-	-	-			
1	-	-	-			
2	-	-	-	>	-	-
3	-	-	-			
4	-	-	-			
5 - 9	-	-	-	-	-	-
10 - 14	1	-	1	0.5	-	0.2
15 - 19	1	-	1	0.5	-	0.2
20 - 24	-	-	-	-	-	-
25 - 29	1	1	2	0.4	0.3	0.4
30 - 34	3	3	6	0.9	0.9	0.9
35 - 39	6	1	7	1.9	0.3	1.1
40 - 44	2	-	2	0.8	-	0.4
45 - 49	8	-	8	4.1	-	2.2
50 - 54	14	1	15	10.5	1.0	6.3
55 - 59	23	1	24	16.4	0.9	9.3
60 - 64	34	8	42	26.3	6.9	17.1
65 - 69	39	13	52	37.2	12.3	24.7
70 - 74	60	14	74	84.3	16.9	48.1
75 - 79	37	16	53			
80 - 84	50	18	68	>	149.6	46.7
85 & over	30	24	54			
Total	309	100	409	10.0	3.4	6.7

APPENDIX 8

I.B. Mortality Rate by Age & Sex 1984, 1993 & 1994



APPENDIX 9

TB Deaths by Type by Age & Sex 1994

Age Group	Respiratory System			Meninges			Bones & joints			Others		
	M	F	T	M	F	T	M	F	T	M	F	T
Under 1	-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-
5 - 9	-	-	-	-	-	-	-	-	-	-	-	-
10 - 14	-	-	-	-	-	-	-	-	-	1	-	1
15 - 19	-	-	-	-	-	-	1	-	1	-	-	-
20 - 24	-	-	-	-	-	-	-	-	-	-	-	-
25 - 29	1	1	2	-	-	-	-	-	-	-	-	-
30 - 34	1	3	4	1	-	1	-	-	-	1	-	1
35 - 39	4	-	4	1	-	1	-	-	-	1	1	2
40 - 44	1	-	1	-	-	-	-	-	-	1	-	1
45 - 49	6	-	6	2	-	2	-	-	-	-	-	-
50 - 54	12	1	13	-	-	-	-	-	-	2	-	2
55 - 59	19	-	19	-	-	-	-	-	-	4	1	5
60 - 64	30	3	33	1	-	1	-	-	-	3	5	8
65 - 69	34	10	44	-	-	-	-	-	-	5	3	8
70 - 74	45	9	54	1	1	2	1	-	1	13	4	17
75 - 79	27	10	37	1	1	2	-	1	1	9	4	13
80 - 84	41	12	53	-	-	-	1	-	1	8	6	14
85 & over	26	22	48	-	-	-	1	-	1	3	2	5
Total	247	71	318	7	2	9	4	1	5	51	26	77 *

* Breakdown of Deaths from other forms of TB: -

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

Number

4

3

6

21

43

Total 77

APPENDIX 10

Tuberculosis Mortality 1949 - 1994

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
1994	0.00	0.00	0.00	1.4	71.0

NOTE : There were no infant death from TB in 1970, 1976, 1977, 1981, 1982, 1983, 1985, 1986, 1987, 1990, 1991, 1992 & 1994.

APPENDIX 11

Top Ten Causes of Death 1994

Rank	Causes of Death	Detailed List No.	1994		
			Male	Female	Total
	All Causes	001 - 999	17,166	12,938	30,106 (2)
1	Malignant Neoplasms	140 - 208	5,856	3,534	9,390
2	Heart diseases, including hypertensive heart diseases	390 - 429	2,624	2,285	4,909
3	Cerebrovascular disease	430 - 438	1,543	1,682	3,225
4	Pneumonia, all forms	480 - 486	1,093	915	2,008
5	Injury and poisoning	800 - 999	1,080	638	1,718
6	Nephritis, Nephrotic syndrome and Nephrosis	580 - 589	406	447	853
7	Septicaemia	038	252	445	697
8	Chronic liver disease and cirrhosis	571	332	109	441
9	Tuberculosis (including late effects of tuberculosis)	010 - 018 137	309	100	409
10	Bronchitis, chronic and unspecified, Emphysema and Asthma	490 - 493	262	121	383
	Certain conditions originating in the perinatal period	760 - 779	94	72	167 (1)
	All other causes	Residues of 001 - 999	3,145	2,402	5,548 (1)

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

APPENDIX 12

Origin of Tuberculosis Notifications 1985 - 1994

Origin	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	Origin
East Kowloon Chest Clinic	393	358	371	338	293	311	269	280	298	280	East Kowloon Chest Clinic
Kowloon Chest Clinic	1191	1275	1149	1191	1227	1218	1117	950	894	823	Kowloon Chest Clinic
Kwai Chung Chest Clinic	601	594	584	504	478	490	515	556	583	552	Kwai Chung Chest Clinic
Sai Ying Pun Chest Clinic (a)	357	324	286	231	262	259	245	262	288	271	Sai Ying Pun Chest Clinic (a)
Shauiwan Chest Clinic	199	211	165	138	131	150	141	188	180	176	Shauiwan Chest Clinic
Shek Kip Mei Chest Clinic	497	392	346	320	357	331	352	392	290	272	Shek Kip Mei Chest Clinic
Wanchai Chest Clinic	648	627	629	771	729	643	580	729	717	603	Wanchai Chest Clinic
Yaumati Chest Clinic	552	447	367	330	370	332	264	343	296	349	Yaumati Chest Clinic
NT Chest Clinic	255	436	481	449	406	422	402	422	511	706	NT Chest Clinic (e)
Yan Oi Chest Clinic	219	225	202	190	226	282	330	291	313	303	Yan Oi Chest Clinic
Yung Fung Shee Chest Clinic	206	207	174	163	206	226	238	281	276	296	Yung Fung Shee Chest Clinic
Sub-total	5118	5096	4754	4625	4685	4664	4453	4694	4646	4631	Sub-total
Tung Wah Group (b)	394	254	309	274	240	218	238	238	338	274	Kowloon Hospital
Ruttonjee Hospital	651	626	744	792	651	544	493	305	346	418	Wong Tai Sin Hospital
Grantham Hospital	335	227	379	384	347	323	423	273	269	290	Ruttonjee Hospital
Haven of Hope Hospital	288	235	174	165	158	88	51	91	117	208	Grantham Hospital
Other Govt Institutions (c)	432	577	493	464	374	466	463	593	612	80	Haven of Hope Hospital
Maryknoll Hospital	96	89	91	105	63	79	50	55	48	18	Other Govt. Institutions (f)
United Christian Hospital	16	26	11	26	13	33	24	32	36	327	Other H.A. Hospitals
Caritas Medical Centre	7	3	5	7	8	13	8	11	29		
Others (d)	208	299	309	179	165	82	80	219	89	53	Private Practitioners
Private Hospitals	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	23	7	20	Private Hospitals
Total	7545	7432	7269	7021	6704	6510	6283	6534	6537	6319	Total
% of cases from Chest Clinics among the total	67.8	68.6	65.4	65.9	69.9	71.6	70.9	71.8	71.1	73.3	% of cases from Chest Clinics among the total

Note: (a) Including Notifications from Cheung Chau Chest Clinic.

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

(c) Sources are from former Government Hospitals, Public Mortuaries, Prison Hospitals, Army Hospitals.

(d) Sources are mainly from Private Practitioners.

(e) Including Yuen Chau Kok Chest Clinic.

(f) Sources are from Public Mortuaries, Prison Hospitals, & Army Hospitals.

APPENDIX 13

Tuberculosis Notifications & Notification Rates by Epidemiological Districts

Epidemiological Districts	1994	
	Notification	Notification Rate (per 100,000 pop.)
<u>Hong Kong Island</u>	1,217	92.5
Central & Western	263	97.8
Wanchai	206	111.4
Eastern	527	90.7
Southern	221	78.6
<u>Kowloon</u>	2,411	122.0
Yau Ma Tei	146	125.9
Mong Kok	230	158.6
Sham Shui Po	490	129.6
Kowloon City	423	114.9
Wong Tai Sin	440	114.6
Kwun Tong	682	116.4
<u>New Territories (East)</u>	1,092	86.4
North	188	90.8
Tai Po	245	90.4
Shatin	451	80.5
Sai Kung	155	87.6
Islands	53	108.2
<u>New Territories (West)</u>	1,359	93.0
Tsuen Wan	238	83.5
Kwai Chung & Tsing Yi	581	128.3
Tuen Mun	302	69.7
Yuen Long	238	82.1
<u>Others</u>	240	
Imported	3	
Vietnamese Refugees	230	
Unknown	7	
Total	6,319	104.2

APPENDIX 14

Establishment & Strength of Chest Service As at 31.12.94

Post	Establishment	Strength
Consultant Chest Physician i/c	1	1
Consultant Chest Physician	1	—
Senior Medical & Health Officer	8 (a)	4 (b)
Medical & Health Officer	21	23
Senior Nursing Officer	—	—
Nursing Officer	14	10
Registered Nurse	51	51
Enrolled Nurse	128	128
Senior Dispenser	1	1
Dispenser	11	10
Senior Inoculator	3	2
Inoculator	23	17
Executive Officer I	—	1 (c)
Senior Clerical Officer	1	1
Statistical Officer II	2	2
Senior Personal Secretary	1	1
Clerical Officer I	15	15
Clerical Officer II	27	27
Clerical Assistant	46	46
Typist	2	2
Office Assistant	25	25
Workman II	59	59
Watchman	2	2
Medical Social Worker	—	12 (d)
Senior Radiographer	1	1
Senior X-ray Assistant	15	14
X-ray Assistant	21	18
Darkroom Technician	14	14

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

(b) 1 SMO on study leave

(c) Supernumerary post

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

APPENDIX 15

Total Attendances at Chest Clinics

1985 - 1994

Clinic/Hospital	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Shauiwan Chest Clinic	34,887	35,789	37,319	37,285	37,004	41,733	47,614	46,348	45,250	43,128
Sai Ying Pun Chest Clinic	57,196	50,159	50,944	52,048	52,134	54,239	51,161	52,478	51,036	47,995
Wanchai Chest Clinic	79,951	78,295	84,835	95,998	98,548	94,052	89,769	89,945	88,826	85,106
Kowloon Chest Clinic	104,355	95,674	82,387	92,142	88,012	87,277	88,930	77,817	80,576	83,223
Yaumati Chest Clinic	91,235	81,349	85,081	75,855	80,885	80,088	78,008	74,709	78,565	83,555
Shek Kip Mei Chest Clinic	80,599	72,173	69,220	70,006	67,702	64,588	60,032	67,636	59,342	65,676
East Kowloon Chest Clinic	73,855	77,464	77,094	72,970	62,829	62,479	58,667	64,659	64,473	64,845
Yung Fung Shee Chest Clinic	53,410	54,167	51,520	52,880	50,420	57,085	53,925	53,042	53,726	55,740
Kwai Chung Chest Clinic	90,658	87,728	91,386	83,329	79,775	79,395	80,144	84,721	86,912	91,095
Yan Oi Chest Clinic	41,985	38,272	36,786	38,611	39,288	46,409	51,660	52,075	51,077	59,698
Yuen Chau Kok Chest Clinic	-	-	-	-	-	-	-	-	10,944	51,089
Tai Po Chest Clinic	7,461	6,986	7,056	7,089	7,917	8,174	8,504	9,385	10,852	9,620
Yuen Long Chest Clinic	12,178	11,870	10,336	10,402	10,474	11,996	10,967	11,149	11,618	8,963
Sheung Shui Chest Clinic	7,311	7,831	6,741	6,139	6,298	7,043	6,274	6,770	7,217	7,644
Sai Kung Chest Clinic	1,584	1,618	1,374	1,508	1,381	1,960	1,902	1,529	1,504	1,446
Castle Peak Hospital	1,601	1,703	1,639	1,224	1,378	1,693	2,695	4,850	3,736	2,442
Cheung Chau Chest Clinic	2,342	1,919	2,234	1,605	2,075	1,614	3,114	1,903	1,927	1,781
Hei Ling Chau ATC	1,954	842	2,228	2,846	2,398	2,159	877	1,636	1,335	1,232
Shek Pik Prison Hospital	163	169	261	158	444	188	179	584	882	594
Stanley Prison Hospital	2,432	2,932	2,057	5,287	7,831	9,737	9,430	9,166	7,745	9,991
Pik Uk Prison	77	187	47	15	178	386	110	112	46	1
Shatin Chest Clinic	9,314	10,536	10,959	11,826	13,887	14,567	14,989	16,567	12,974	-
Aberdeen Chest Clinic	6,230	5,378	4,739	4,506	5,055	1,601	-	-	-	-
Tai Lam Addiction Rx Centre	2,552	3,184	4,031	1,738	-	-	-	-	-	-
Tai O	78	63	8	1	63	47	7	-	-	-
Victoria Prison Hospital	12	7	-	-	-	-	-	-	-	-
Total	763,420	726,295	720,282	725,468	715,976	728,510	718,958	727,081	730,563	774,864

APPENDIX 16

No. of Doctor Sessions, Cases seen by Doctor and Patient/Doctor Session 1994

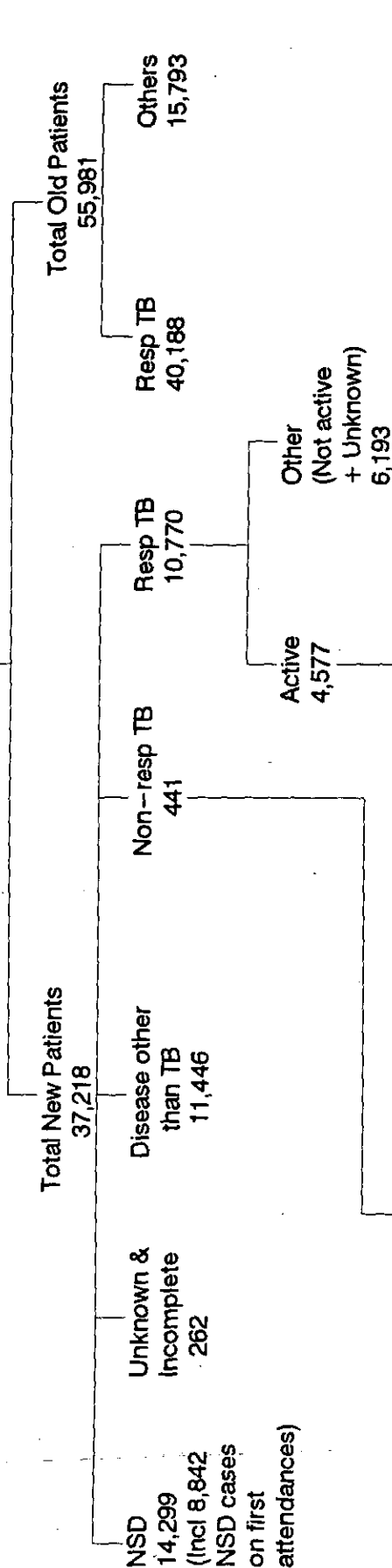
Clinic/Hospital	Doctor Sessions	Cases seen by Doctor	Patient/ Dr Session
East Kowloon Chest Clinic	1,096	25,129	23
Kowloon Chest Clinic	1,237	30,213	24
Kwai Chung Chest Clinic	1,216	31,601	26
Sai Ying Pun Chest Clinic	904	20,828	23
Shauiwan Chest Clinic	571	14,326	25
Shek Kip Mei Chest Clinic	919	18,519	20
Wanchai Chest Clinic	1,753	34,572	20
Yan Oi Chest Clinic	634	16,506	26
Yaumati Chest Clinic	1046	26,479	25
Yuen Chau Kok Chest Clinic	705	16,907	24
Yung Fung Shee Chest Clinic	543	14,436	27
Castle Peak Hospital	51	899	18
Cheung Chau Chest Clinic	25	625	25
Hei Ling Chau ATC	11	110	10
Sai Kung Chest Clinic	50	823	16
Shatin Chest Clinic	—	—	—
Sheung Shui Chest Clinic	144	3,754	26
Stanley Prison Hospital	26	875	34
Wong Siu Ching Chest Clinic	196	4,852	25
Shek Pik Prison Hospital	9	55	6
Yuen Long Chest Clinic	245	4,702	19
Total	11381	266,211	23

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

APPENDIX 17

Flow Chart of Patients Attending Chest Clinics, 1994

Total patients attending during 1994
93,199



Bacteriology	Extent	Number
Negative	1	1968
	2	215
	3	37
Positive	1	1525
	2	554
	3	165
Incomplete	1	100
	2	8
	3	5

Bacteriology	Cavity	Number
Negative	Yes	68
	No	2152
Positive	Yes	432
	No	1812
Incomplete	Yes	12
	No	101

Previous History of TB	Previous Treatment for TB	Number
No	No	4256
Yes	No	33
Yes	Yes	284
Unknown	Unknown	4

APPENDIX 18

Classification of Patients of First Attendance with New Case Card Completed By Clinics According to International Classification of Diseases Code 1994

Code	Classification	Total
010	Primary Tuberculosis Infection	6
011	Pulmonary Tuberculosis	4,288
012	Other Respiratory Tuberculosis	272
013	Tuberculosis of Meninges	10
014	Tuberculosis of Intestines	13
015	Tuberculosis of Bones & Joints	34
016	Tuberculosis of Genito-urinary System	23
017	Tuberculosis of Other Organs	347
018	Miliary Tuberculosis	14
137	Late effects of Tuberculosis	6,193
160-165	Malignant Neoplasm of Respiratory System	903
212	Benign Neoplasm of Respiratory System	9
460-466	Acute Respiratory Infection	3,301
470-478	Other Diseases of Upper Resp Tract	57
480-486	Pneumonia	1,512
487	Influenza	4
490-491	Bronchitis, (not specified as acute or chronic) & chronic bronchitis	2,895
492	Emphysema	150
493	Asthma	240
494	Bronchiectasis	566
495-496	Others	571
501	Asbestosis	1
502	Silicosis	69
505	Pneumoconiosis, unspecified	7
506-508	Others	0
510	Empyema	12
511	Pleurisy	219
512	Pneumothorax	88
513-519	Other Diseases of Respiratory System	352
786	Unknown	1,006
V71	N.S.D.	4,413
	Diseases Other than TB & Resp System	501
Total		28,076

APPENDIX 19

Extent of Active Respiratory TB in First Attenders at Chest Clinics 1992 – 1994

Extent *	1992		1993		1994	
	No.	%	NO.	%	No.	%
1. Minimal	3,789	78.2	3,706	78.0	3,593	78.5
2. Moderate	811	16.7	765	16.1	777	17.0
3. Extensive	248	5.1	278	5.9	207	4.5
Total	4,848	100.0	4,749	100.0	4,577	100.0
No. of first attenders	39,336		37,366		37,218	
% of active TB	12.3		12.7		12.3	

- * 1. Minimal : Less than right upper lobe
 2. Moderate : More than right upper lobe
 3. Extensive : More than a lung

Percentage on Sputum Results of Active T.B. in First Attenders at Chest Clinics 1994

	Number	%
Smear+	1378	30.1%
Smear-Culture+	967	21.1%
Smear-Culture-	1832	40.0%
Incomplete	400	8.8%
Total	4577	100.0%

Treatment Return for the year of 1994

* Please refer to appendix 20a

N a m e o f c l i n i c / a l l	Standard regimen SHRZ(E)3/HR3											Others																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	Npt n u r s e b e a t e o t r n m e n t	B r o u g h n e t	(i) (ii)	T r a t m e n t			D r o p o u t	I n t e r m e d i a t e	C o m p l e t e	N a t u r a l d e a t h	I s t u r u m e n t	b/f	(i) (ii)	No. %	T r a t m e n t	C o m p l e t e	D r o p o u t	I n t e r m e d i a t e	C o m p l e t e	N a t u r a l d e a t h	I s t u r u m e n t																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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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.

Discontinued = 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.

[illegible]

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.
Discontinued = 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.

APPENDIX 21

Examination of Contacts in the Chest Clinics 1994

Particulars	1994
No. of patients (new & old) listed	5357
No. of contacts listed	15304
Number of children with negative tuberculin test	550
Number of children given BCG	543
Number of contacts x-rayed	12086 (100.00%)
<u>Results</u>	
(a) NSD & Unknown	10826 (89.57%)
(b) Disease other than TB	352 (2.91%)
(c) Inactive respiratory TB	574 (4.75%)
(d) Active respiratory TB	
A (radiologically)	100 (0.83%)
B (bacteriologically)	13 (0.11%)
C (incomplete)	6 (0.05%)
(e) Non-respiratory TB	18 (0.15%)
(f) Result not yet known	197 (1.63%)

APPENDIX 22

Scheme for Tuberculin Testing and BCG Administration in Hong Kong, 1994

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
Primary School Children (aged 6 - 10)	BCG history and BCG scar no action TT with 1 TU RT 23, negative - BCG positive - no action or chest x-ray
Contact	under 5 (Source DS +ve) * under 5 (Source DS -ve) X-ray, if normal, in 3 months repeat x-ray and do TT, negative - BCG TT with 1 TU RT 23, negative - BCG positive - x-ray chest
Vietnamese Refugees	5 years and over over 14 years 14 years and under x-ray chest x-ray chest Direct BCG

Positive ---> Give full course of chemoprophylaxis
TT

* For those aged under 1
Do TT
(Exclude active TB)

Repeat TT ---> Stop chemoprophylaxis
Negative and give BCG

Negative ---> Give chemoprophylaxis ---> Repeat TT
for 3 months

Repeat TT ---> Exclude active TB and complete full course of chemoprophylaxis
positive

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) Evans freeze dried BCG used

Intradermal strength - viability count of $8 - 26 \times 10^5$ per 0.1 ml dose

Percutaneous strength - viability count of $50 - 250 \times 10^5$ per 0.03ml dose

(4) Any child with symptoms and BCG complication should be seen by a doctor

APPENDIX 23

BCG Vaccinations at Birth, 1994

Institution		No. of Live-births	BCG Vaccination	% Vaccinated
Hospital under HA management	P.Y. Nethersole	3,303	3,240	98.1
	Queen Mary	783	823	105.1 *
	Tsan Yuk	4,829	4,791	99.2
Private Hosp.	Canossa	1,225	1,201	98.0
	H.K. Adventist	688	644	93.6
	HK Sanatorium	1,484	1,576	106.2 *
	Matilda	737	693	94.0
	St. Paul's	3,109	3,085	99.2
Total (HK Island)		16,158	16,053	99.4
Hospital under HA management	Caritas	2,527	2,505	99.1
	Kwong Wah	5,246	5,220	99.5
	Maryknoll	2,333	2,305	98.8
	Queen Elizabeth	6,185	6,199	100.2 *
	United Christian	3,529	3,499	99.1
Private Hosp.	Baptist	8,104	8,047	99.3
	Evangel	1,599	1,580	98.8
	Precious Blood	336	330	98.2
	St. Teresa's	4,721	4,657	98.6
British Military Hospital		369	371	100.5
Total (Kowloon)		34,949	34,713	99.3
Hospital under HA management	Pok Oi	496	484	97.6
	Prince of Wales	7,916	7,931	100.2 *
	Princess Margaret	4,444	4,443	100.0
	Tuen Mun	6,518	6,497	99.7
Private Hosp.	Adventist	1,493	1,480	99.1
	Union	57	55	96.5
Government Maternity Home		341	321	94.1
Total (NT Areas)		21,265	21,211	99.7
GRAND TOTAL		72,372	71,977	99.5

Note : * Including vaccinations of live births transferred from other maternity institutions and vaccinations of live births at end of 1994.

Vaccination Method 1994	Percentage
Intradermal	62.6
Percutaneous	36.9
Not Vaccinated	0.5

APPENDIX 24

Tuberculin Tests and BCG Vaccination of School Children 1962 - 1994

Year	Number (a) Eligible	% Agree for TT	Number TT Tested	Number TT Negative	Number Given BCG	% of TT Tested Given BCG
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	56.1	125,975	25,794	25,766	20.5
1968	208,029	68.2	141,922	30,328	30,314	21.4
1969	126,906	70.4	89,306	16,831	16,821	18.8
1970	194,298	65.7	127,680	49,655	49,547	38.8
1971	213,457	68.0	145,205	50,115	50,020	34.4
1972	201,537	61.7	124,385	54,340	54,100	43.5
1973	120,797	69.4	83,882	29,713	29,554	35.2
1974	295,287	60.7	179,169	47,591	47,378	26.4
1975	136,175	65.3	88,987	38,334	(b) 39,120	44.0
1976	230,861	63.7	147,057	77,085	76,790	52.2
1977	137,465	55.4	76,143	43,752	43,502	57.1
1978	134,218	66.9	89,732	52,504	54,137	60.3
1979	133,697	66.1	88,375	49,555	49,355	55.8
1980	101,215	66.8	67,633	42,419	43,830	64.8
1981	111,121	68.7	76,342	47,093	47,089	61.7
1982	115,042	71.9	82,675	52,654	52,455	63.4
1983	121,392	77.9	94,578	65,487	65,627	69.4
1984	71,950	85.3	61,359	47,086	47,705	77.7
1985	90,771	82.4	74,802	56,646	56,625	75.7
1986	100,116	82.0	82,057	65,251	64,985	79.2
1987	84,610	79.2	67,038	53,695	53,419	79.7
1988	78,806	89.2	70,318	58,796	59,237	84.2
1989	68,367	91.3	62,390	50,747	50,794	81.4
1990	121,280	86.0	104,263	78,244	78,540	75.3
1991	120,705	91.3	110,193	75,343	75,107	68.2
1992	102,580	91.2	93,533	63,550	(c) 63,234	67.6
1993	100,895	96.3	97,189	69,723	68,598	70.6
1994	91,593	94.8	86,817	65,075	66,372	76.5

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.

(b) Direct BCG was introduced in remote areas w.e.f. 27.10.1975 and number of BCG given includes direct BCG without TT.

(c) No direct BCG was given in 1992 and number of direct BCG given in previous years were not recorded separately.

APPENDIX 25

Beds for Treatment of Tuberculosis, 1994

Hospital		No. of T.B. Beds
Hospital Authority	Grantham Hospital	226
	Kowloon Hospital	132 *
	Ruttonjee Hospital	114
	Haven of Hope Hospital	101
	Wong Tai Sin Hospital	161
Total (Hospital Authority)		734
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 (1994)		757
Grand Total (1993)		819
Grand Total (1992)		985

* Including two beds in the Intensive Care Unit

APPENDIX 26

Annual Admissions to Hospitals
from Government Chest Clinics
1985 - 1994

Year	Total Admissions
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
1994	5,176

Admissions by Clinic	Year 1994
East Kowloon	490
Kowloon	867
Kwai Chung	618
Sai Ying Pun	343
Shau Kei Wan	304
Shek Kip Mei	397
Wanchai	537
Yaumati	503
NT Unit	131
Yan Oi	478
Yuen Chau Kok	224
Yung Fung Shee	284
Total	5,176

PART 2

PNEUMOCONIOSIS

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APPENDIX 1

Notifications of Silicosis attending the Pneumoconiosis Clinic in Hong Kong 1956 – 1994

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 (4)	5,254	1,492	2492
1994	—	327	327 (c) (7)	5,581	1,493 (d)	2770

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

(b) The figures in this column denote the number of patient with asbestos-related lung disease.

(c) Up to the moment that this report is being compiled, only 322 of the 327 cases notified in 1994 had been assessed and confirmed Pneumoconiosis by the Pneumoconiosis Medical Board. And the following tables (Appendix 2 to Appendix 8) are compiled basing on the data of these 322 cases.

(d) Under Revised Ordinance 1993: 544 out of 1,493 pneumoconiotics were each receiving a monthly ex-gratia payment of \$3,230 in 1994.

APPENDIX 2

Age Distribution of Pneumoconiosis Cases 1994

Age	Number of Cases	%
25 - 29	—	—
30 - 34	3	1
35 - 39	15	5
40 - 44	32	10
45 - 49	29	9
50 - 54	54	17
55 - 59	49	15
60 - 64	57	18
65 - 69	33	10
70 - 74	32	10
75+	18	5
Total	322	100

APPENDIX 3

Occupation Distribution of Confirmed Silicosis 1994

Type of Occupation	Number of Cases	%
Construction	187	58
Construction/Quarry	98	30
Others	37	12
Total	322	100

APPENDIX 4

Pneumoconiosis Patients by Duration of Exposure to Dust 1994

Duration	Number of Cases	%
< 5 years	7	2
5 - 9	16	5
10 - 14	50	16
15 - 19	49	15
20 - 24	52	16
25 - 29	53	17
30+	91	28
Unknown	4 *	1
Total	322	100

* Fatal cases, no reliable information available.

APPENDIX 5

Pneumoconiosis Patients by Degree of Incapacity, 1994

Degree of Incapacity (%)	No. of New Cases Compensated under Compensation Ordinance
5	119
10	42 #
15	39
20	37
30	16
40	18
50	14
60	15
70	4
80	4
100	10
N.A. *	4
Total	322

Including one case compensated for pneumoconiosis diagnosed before 1981.

* Fatal cases.

APPENDIX 6

Confirmed Pneumoconiosis Patients Classified by Radiological Appearance, 1994

Type of Opacity	Profusion			Sub - Total
	1	2	3	
<u>Small opacities</u>				
<u>Rounded</u>				
p (up to 1.5 mm diameter)	56	5	—	61
q (1.5 to 3.0 mm diameter)	33	47	6	86
r (3.0 to 10.0 mm diameter)	3	11	2	16
<u>Irregular</u>				
s (fine irregular or linear)	53	5	1	59
t (medium irregular)	26	19	1	46
u (coarse irregular)	1	8	2	11
Sub-total	172	95	12	279
<u>Combined opacities</u>	1	—	—	1
<u>N.A.</u>	—	—	—	42
Total				322

61 out of the 322 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)	47
B (Single or multiple opacities with combined area < the equivalent of right upper zone)	8
C (Single or multiple opacities with combined area > the equivalent of right upper zone)	6
Total	61

APPENDIX 7

Pneumoconiosis Patients with Tuberculosis, 1994

Type of T.B.	Number of Cases	%
Bacteriological Positive	67	21
Bacteriological Negative	47	15
No T.B.	204	63
N.A.	4	1
Total	322	100

APPENDIX 8

Confirmed Pneumoconiosis Patients by Other Particulars 1994

Characteristics		Number of Cases	%
Smoking	Smoker/Ex-smoker	288	89
	Non-smoker	34	11
	Unknown	—	—
	Total	322	100
Still exposed to dust when seen by the Pneumoconiosis Clinic	Yes	101	31
	No	213	66
	Unknown	8	3
	Total	322	100
General Condition	Good	304	94
	Fair	12	4
	Poor	2	1
	Died	4	1
	Total	322	100

