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#### **Contributors**

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ANNUAL
DEPARTMENTAL
REPORTS
1959-60

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DIRECTOR OF MEDICAL AND HEALTH SERVICES



### HONG KONG

# ANNUAL DEPARTMENTAL REPORT

BY THE

DIRECTOR OF MEDICAL
AND HEALTH SERVICES

FOR THE

FINANCIAL YEAR 1959 - 60

### **EXCHANGE RATES**

When dollars are quoted in this Report, they are, unless otherwise stated, Hong Kong dollars. The official rate for conversion to pound sterling is HK\$16=£1 (HK\$1=1s. 3d.). The official rate for conversion to U.S. dollars is HK\$5.714=US\$1 (based on £1=US\$2.80).

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### THE COLONY'S HEALTH SERVICE

#### INTRODUCTION

The Colony of Hong Kong occupies a land area of 398½ square miles. The estimated mid-year population in 1959 was 2,857,000 of which approximately 86% is concentrated in the urban areas of Kowloon and Hong Kong Island. This distribution of a population of 2,457,000 within 21 square miles of the urban areas gives rise to an average density of 117,000 persons to the square mile. It is a young population and although the age structure will not be known accurately until after the 1961 census, there is good reason to believe that one third is aged 15 years or under, that there are some 460,000 children of pre-school age and that there is a predominance of males amongst the young adults.

- 2. At the end of a decade and during World Refugee Year it is appropriate to review the demands on the medical and health services and the progress made towards meeting these demands. Despite shortage of land, housing and domestic water supplies an increase of population of some 1,000,000 due to the influx of refugees has been accepted. These refugees have not been segregated as such but have become part of the community and the medical and health services of Government and other agencies have been operated on a basis of serving the medical need of the individual without query as to origin.
- 3. The impact on all services has been of staggering proportions and heavy public expenditure on water supplies, housing, communications and social services has been met from the Colony's own resources. Shortage of trained medical, nursing and health staff has so far been the most important factor limiting the expansion of the medical services. As a result, the building and staffing of clinics and hospitals has not been able to keep pace with the rapidly increasing demands for western medicine. Thus more and more work has fallen on already overburdened institutions. Nevertheless by applying modern methods of prevention and cure the results as measured by the vital statistics of the past ten years, have been encouraging. However there can be no complacency in the face of the enormity of the task ahead and the necessity for an increasing tempo of development if the needs of a population increasing by approximately 3% per annum are to be met,

even according to standards imposed by local resources rather than those considered desirable in the modern industrial state.

- 4. During the past five years emphasis has been on the development of training facilities for the greatly increased numbers of doctors and nurses needed to staff the very large programme of clinic and hospital development in hand. The building of such new clinics or hospital accommodation that has been undertaken during this period has had to be geared to the annual output of trained staff available each year and has thus necessarily been limited.
- 5. The pressure on existing institutions has to a certain extent been met by holding evening clinic sessions, by accelerating, as far as possible within the limits of safety, the turnover of patients in hospital and by developing measures for the prevention of disease that can be applied under local conditions.
- 6. Such results as have been achieved during the past ten years are outlined in more detail in the relevant sections of this report. The salient features have been a considerable reduction in infantile mortality rates, the absence of the formidable epidemic diseases during the past seven years, the cessation of malaria transmission in the urban areas, the elimination of rabies and the progressive reduction of the tuberculosis mortality rate from 208 per 100,000 in 1951 to 76.2 per 100,000 in 1959.

# EVENTS OF IMPORTANCE DURING THE YEAR 1959/60

- 7. The Society of Apothecaries in London again held examinations for the L.M.S.S.A. in Hong Kong. Of the 118 candidates who entered for the examinations, 106 sat the examinations. Of these 39 passed in all subjects and 45 passed in one or more subjects. Prior to the written examinations a 3 months refresher course was conducted by University and Government clinicians at the Queen Mary Hospital.
- 8. There are now 82 refugee doctors who have obtained the L.M.S.S.A. as a result of the facilities which, with the approval of the General Medical Council of the United Kingdom, have been so generously accorded by the Society. A third and last L.M.S.S.A. examination will be held in Hong Kong towards the end of 1960.
- 9. Work continued on the drafting of legislation for the registration and licensing of medical clinics operating in the Colony.

### Salaries Commission

10. The Commission completed its work during the year and those recommendations which were accepted by Government became effective in January 1960. The consolidation of the former high cost of living and expatriation allowances into the basic salary, 90% of which is now pensionable, has considerably improved career prospects. More promotion posts have enhanced the opportunities for the accelerated promotion of well qualified and able officers in the junior ranks of the service. Women Medical Officers who have completed their probationary service and who are members of the permanent and pensionable establishment are now receiving pay equal to that of their male counterparts.

### Drug Addiction

- 11. The publication in November 1959 of a White Paper on the Problem of Narcotic Drugs in Hong Kong focussed attention on the widespread use of addicting narcotic drugs, particularly heroin. The treatment and rehabilitation of drug addicts amongst convicted prisoners has been placed on a sound basis at H.M. Prison Tai Lam where 700 prisoners can be accommodated. There is however a demand for accommodation for the treatment of addicts on a voluntary basis and the details of a pilot scheme, within the new Castle Peak Hospital of 1,000 beds for mental patients, have been worked out. A ward block of 120 beds will be set aside for this purpose and addicts coming forward as voluntary patients will be expected to surrender their liberty for a period of six months. During this time treatment and training will be given which is designed to build up the individuals physically and psychologically for rehabilitation and re-absorption into the community. Full social and medical records will be obtained with a view to assessing the local circumstances giving rise to addiction and the measures best fitted to prevent it. A vital necessity in any such rehabilitation programme is the cutting off of sources of supply and thus of temptation. To this end a vigorous drive against traffickers is being maintained by the police and preventive services, with considerable success.
- 12. The secondment of a trained Psychiatrist to the Prison Medical Service has enabled some preliminary investigation into the causes of drug addiction amongst prisoners to be started.

### Dental Council

13. The statutory regulation of the practice of dentistry in Hong Kong dates from the promulgation of the Dentistry Ordinance No. 16

- of 1914. Since that time successive Dental Boards have maintained a Register and acted as the examining and disciplinary bodies. During 1957 work started on the drafting of a new Dentists Registration Ordinance which was designed to bring the legislation up to date and more in line with the Medical Registration Ordinance. The Dentists Registration Ordinance 1959 replaces the Dental Board by a Dental Council and the new Council met for the first time on the 7th October, 1959. The new Council will continue to function as an examining body.
- 14. A tribute is paid to the work of successive Boards over the past 45 years which has culminated in a project approved in principle by the University of Hong Kong and the Government to establish a University Dental School. Arrangements for the pre-clinical training of dental students have been made in conjunction with the development of pre-clinical facilities in the Faculty of Medicine, due to become effective during 1962. Meantime the planning of a Dental Hospital has started with site investigations and the drafting of schedules of accommodation.

### Mental Deficiency

- 15. A report on the problem of Mental Deficiency in Hong Kong was compiled in 1955 by a Sub-Committee of the Hong Kong Council of Social Services. This report recommended the building of an institution to care for a number of known defectives who were being accommodated in a variety of institutions unsuited to this purpose. Tentative plans were made thereafter to develop an institution of some 200 beds but the problem of recruiting an adequacy of suitable trained staff had proved to be almost insuperable.
- 16. In view of modern trends in the policy governing institutional care for mental defectives, Government decided to invite Dr. L. T. HILLIARD of the Fountain Hospital, London, who is a member of the W.H.O. Expert Committee in Mental Deficiency, to visit Hong Kong and to report on the local situation and to make recommendations. Dr. HILLIARD accepted the invitation and spent six weeks in Hong Kong during February and March 1960. His report was submitted to Government at the end of March and is now being studied.

# Planning

17. An important innovation during the year was the establishment of a Planning Section within the Medical Headquarters organization. In charge of a Principal Medical Officer assisted by an Hospital

Secretary all development projects are processed by this unit which is responsible for the co-ordination of all requests for accommodation and equipment for new Medical & Health Department institutions. The first task was to work out in some detail the development proposed for the five years 1960-65 and to make provisional estimates of the cost entailed. This task was completed and the proposals submitted to Government in December, 1959. In addition to work on departmental projects, assistance was also given to the Tung Wah Hospitals Medical Committee in connexion with the re-building of the Kwong Wah Hospital.

#### ADMINISTRATION OF THE MEDICAL AND HEALTH SERVICES

18. Statutory responsibility for the administration of the services safeguarding the public health in Hong Kong lies jointly with the Director of Medical and Health Services, the Urban Council, the District Commissioner New Territories and the Commissioner of Labour. Executive functions in connexion with curative medical services and a number of aspects of preventive medicine throughout the Colony are the responsibility of the Medical and Health Department. The Urban Council is concerned with environmental sanitation in the urban areas of Hong Kong and Kowloon through the Urban Services Department. The District Commissioner has executive functions as the Health Authority for the New Territories and administers its environmental sanitary services. Health Officers are seconded in an advisory capacity to the Urban Services Department and the District Administration, New Territories. The Labour Department has an Industrial Health section which also has officers of the Medical and Health Department on its staff

#### STAFF

- 19. The Director of Medical and Health Services is the Head of the Department, the chief adviser to Government on medical and health policy, and an official member of the Legislative Council. He is a member of a number of the Boards and Committees of voluntary organizations engaged in medical and health work whose activities receive substantial support by way of Government subventions. He is also the Chairman of the Radiation Board and of the Statutory Boards dealing with the registration and disciplinary control of Medical Practitioners, Dentists, Pharmacists, Nurses and Midwives.
- 20. The Deputy Director of Medical and Health Services is the chief executive medical and health officer who co-ordinates the work of the

Medical and Health Divisions. Each of these divisions is in charge of an Assistant Director. The Principal Matron is the Chief Nursing Officer and administers the Nursing Division which provides nursing, midwifery, health visitor and health sister services.

- 21. The Health Division, which is the administrative responsibility of the Assistant Director of Health Services, is composed of units dealing with tuberculosis, malaria, port health and epidemiology, maternal and child health, school health and social hygiene, the latter including venereal diseases, leprosy and dermatology. Each of the component units of the Health Division is in the charge of a Specialist or of a Medical Officer with special experience and training. In addition, advisory services are given to the Urban Services Department, the District Administration New Territories and the Labour Department. The Assistant Director of Health Services is Vice-Chairman of the Urban Council. He is assisted in the work of the Division by a Principal Health Officer at Headquarters.
- 22. The Assistant Director of Medical Services, responsible for the administrative routine of the Medical Division, is assisted by a Principal Medical Officer at Headquarters and by two Principal Medical Officers who are respectively Medical Superintendents of the two Government general hospitals, one on Hong Kong Island and one in Kowloon. There are clinical units of general medicine, general surgery, anaesthesia, ear, nose and throat, neurosurgery, obstetrics and gynaecology, ophthalmology, orthopaedics, pathology, psychiatry and radiology, each of which works under the clinical direction of a Specialist. There are two infectious diseases hospitals, one on either side of the harbour. The Government Dental Service is under the direction of a Senior Dental Specialist and the Government Chemist is responsible for the work of the Government Laboratory. The work of the Government outpatient clinics throughout the Colony is co-ordinated by the Medical Division although certain of the services rendered from these clinics are provided by the Health Division. The Medical-Social, Occupational Therapy and Physiotherapy Services are also part of the Medical Division.
- 23. The Auxiliary Medical Service, which is a branch of the Civil Defence Services, is administered by the Medical Defence Staff Officer who is a member of the Medical and Health Department Headquarters staff. The Director of Medical and Health Services is the Unit Controller.
- 24. The routine administrative, secretarial, establishments and clerical work of the Department is under the general direction of the

Secretary, while the Principal Accountant and his staff deal with the financial and accounting duties. The Boards section is supervised by the Boards Secretary.

- 25. The pharmaceutical and dispensing activities are the responsibility of the Chief Pharmacist who also has inspectorial duties in connexion with the Dangerous Drugs and Pharmacy and Poisons Ordinances.
- 26. The Chief Hospital Secretary is responsible for the supply of equipment and the day-to-day lay administration of the hospital and clinic services. The hospitals and clinics are at present grouped into two large units to each of which is posted an Hospital Secretary. Assistant Hospital Secretaries are posted to the larger and more important institutions within the groups.
  - 27. Appendix 1 shows the establishment at 31st March, 1960.

#### FINANCE

- 28. The actual expenditure of the Medical and Health Department for the financial year ended 31st March, 1960 was \$45,925,081 to which should be added a further \$18,988,424 disbursed in the form of subventions. Capital expenditure on medical projects under the Public Works Non-Recurrent head totalled \$15,442,311. These amounts represent 11.32% of the Colony's total expenditure during the year. This does not include expenditure on environmental sanitation by the Urban Services Department and the District Administration of the New Territories.
- 29. A Statement of Expenditure for the ten years from 1950-51 to 1959-60 is shown at Appendix 2.
- 30. The total revenue collected by the Department during the year from all sources totalled \$3,097,438.
- 31. The largest subvention was made to the Tung Wah Group of Hospitals which received \$8,500,000; in addition, a further capital grant of \$4,381,719 was made towards the cost of Phase II of the re-development of the Kwong Wah Hospital.
- 32. Other major subventions were \$2,926,482 to the Grantham Hospital, \$1,346,979 to the Hong Kong Anti-Tuberculosis Association and \$550,000 to the Mission to Lepers, Hong Kong Auxiliary.

#### LEGISLATION

33. The following legislation dealing with medical and health matters was enacted during the year 1959/60:

### Ordinances:

(1) Dentists Registration Ordinance, 1959.

### Rules and Regulations:

- (a) Poisons (Amendment) Regulations, 1959. (G.N.A. 22/59).
- (b) Poisons List (Amendment) Regulations, 1959 (G.N.A. 23/59).
- (c) Poisons List (Amendment) (No. 2) Regulations, 1959. (G.N.A. 35/59).
- (d) Poisons (Amendment) (No. 2) Regulations, 1959 (G.N.A. 36/59).
- (e) Nurses Registration (Amendment) Regulations, 1959. (G.N.A. 51/59).
- (f) Dentists (Registration and Disciplinary Procedure) Regulations, 1959. (G.N.A. 54/59).
- (g) Poisons (Amendment) (No. 3) Regulations, 1959. (G.N.A. 58/59).
- (h) Poisons List (Amendment) (No. 3) Regulations, 1959. (G.N.A. 59/59).
- (i) Importation (Prohibition) (Radiation) Regulations, 1959. (G.N.A. 73/59).
- (j) Dangerous Drugs (Amendment of Schedule) (No. 2) Order, 1959. (G.N.A. 104/59).
- (k) Poisons (Amendment) Regulations, 1960 (G.N.A. 5/60).
- (1) Poisons List (Amendment) Regulations, 1960. (G.N.A. 6/60).

#### PROFESSIONAL REGISTERS

34. There are five statutory bodies dealing with the registration of medical practitioners, dentists, pharmacists, nurses and midwives. The Hong Kong Medical Council is responsible for the registration of medical practitioners and has responsibilities in connexion with disciplinary proceedings and offences; it is not an examining body. The Dental Council, Pharmacy Board, Nursing Board and Midwives Board all maintain registers, regulate training, hold examinations leading to registration or enrolment and have disciplinary powers.

35. At the 31st March, 1960 the numbers of persons on the statutory registers were as follows:

31st March, 195	1	31st	March, 1960
401	Register of Medical Practitioner	s	913
357	Register of Dentists		389
47	Register of Pharmacists		88
837	Register of Nurses { Female	***	1,646
52 5	Register of Nurses Male		88
831	Roll of Midwives		1,618

#### WORK OF THE STATUTORY COUNCILS AND BOARDS

#### Medical Council

36. The Council met ten times during the year for the transaction of routine business; 9 notices to medical practitioners were issued for guidance on points of ethics. There were no disciplinary inquiries but the Preliminary Investigation Committee met once to consider a complaint which was not referred to the Council for an inquiry.

### Dental Council

37. The Dental Board met three times before the enactment of the new Ordinance and thereafter the Dental Council met four times. There were nineteen applications considered for registration as dentists, of which fourteen were accepted without examination. Of the remaining five applicants, two were required to pass the Council's examinations before being accepted for registration and the three other applicants were rejected as their curriculum of training was not up to the standard required by the Council for entry to its examinations.

# Pharmacy Board

- 38. The Board met five times for the transaction of routine business, mainly in connexion with the control of habit-forming drugs, of certain phosphorus compounds in use as insecticides and of antibiotics.
- 39. Proposals for the amendment and re-enactment of the Pharmacy and Poisons Ordinance were completed and were submitted to Government for approval to prepare a draft Bill.
- 40. These proposals included the Board's suggestions for the restriction of the employment of part-time pharmacists and for simplification of the control of antibiotics together with a number of other suggestions designed to make the Ordinance more easily understood by the lay public.

- 41. Proposals for a scheme to provide scholarships overseas for pharmacy students were also prepared and submitted to Government for consideration. It is hoped that provision of a scheme on the lines of the one proposed will ensure an adequate supply of well trained pharmacists for the future, since the absence of any training facilities in the Colony is making recruitment to the profession difficult.
- 42. There were 18 applications for registration, of which 5 were accepted without examination and one accepted after passing the Board's examinations. Two applications were rejected and 10 applicants were required to undertake further practical training, under the supervision of a registered pharmacist for periods of one to two years, before becoming eligible for examination.

### Nursing Board

- 43. The qualification of Registered Nurse granted by the Board has been recognized by the Nursing Councils in the United Kingdom since 1939. Statutory preliminary and final examinations are held twice each year in the English and Chinese languages, under the general supervision of the Board, which appoints examiners, conducts the examinations and approves the results.
- 44. The Nursing Board met four times during the year. In addition to business in connexion with examinations, amendments to the Regulations governing eligibility of candidates for examination were proposed and subsequently approved by Government. Work continued on the drafting of a revised Nurses Registration Ordinance.
- 45. Following the decision to open a supplementary part of the Register for Mental Nurses, an agreement for reciprocal registration was under negotiation with General Nursing Council of England and Wales and approval was obtained during March 1960 for the use of the General Nursing Council Syllabus of training. Six students are at present in training and the first full intake of new student is expected to take place in July 1960. The Board is now making examination arrangements for a Certificate of Mental Nursing, in preparation for the first Final Examination to be held in July, 1961.
- 46. During the year, 315 candidates were entered by the approved training schools for the preliminary examination in General Nursing held by the Board and 156 passed in all subjects; there were 226 candidates accepted for the final examinations and 156 passed in all subjects.

47. There were 167 applicants for registration as general nurses and 163 were accepted. Of these 147 were nurses who had qualified at the Hong Kong Training Schools recognized by the Board and their names were entered in the Register after passing the Board's final examination; 14 trained outside the Colony were accepted without examination and 2 trained outside the Colony were accepted after passing the Board's final examination.

### Midwives Board

- 48. This Board meets four times each year and conducts examinations in April, July, October and January. The course of training in midwifery lasts two years for pupil midwives entering the course direct but registered nurses are accepted for entry to the examination after one year's full time training in midwifery.
- 49. Owing to the social conditions existing in the Colony there is very little scope for domiciliary midwifery and the majority of confinements take place in hospitals and maternity homes. Therefore the qualification given by the Board is not fully recognized by the Central Midwives Board of the United Kingdom for registration there. There is, however, a remission of three-quarters of the period of training in the United Kingdom granted to midwives registered in Hong Kong who may wish to sit the State Certified Midwives examinations.
- 50. There were 145 candidates from approved training schools in the Colony accepted for the Board's examinations; of these 132 passed the examinations. There were a further 6 applications for enrolment, of these 2 trained in the United Kingdom were accepted; in addition, 4 names were restored to the Roll.
- 51. A first draft of the revised Midwives Ordinance Bill and Regulations were considered at the March meeting and a revised draft is now in preparation.

### Radiation Board

52. This Board which was constituted by the Radiation Ordinance No. 35 of 1957, met once during the year to consider draft regulations for the control of irradiating apparatus. A drafting sub-committee is at work on the preparation of these and other regulations, but due to the complexity of the subject and the necessity to conform as far as possible with international standards still the subject of discussion, progress in drafting has been necessarily slow.

Storage of radioactive materials and fire precautions

- 53. The Board was consulted by the Chief Officer, Fire Brigade, on the precautions to be taken in fire-fighting operations where radio-active materials were involved and on the Board's advice a Fire Brigade Order was compiled and issued.
- 54. The Board also gave attention to the storage of radio-active materials and advised on the proper precautionary measures both for the storage of goods and the protection of personnel.

### II. PUBLIC HEALTH

#### GENERAL COMMENTS

55. Despite the very large movements of people in and out of Hong Kong each year there has continued to be a remarkable freedom from major epidemics. Again there was no case of smallpox, cholera, typhus, plague or relapsing fever. Influenza remained at a low level of incidence but diphtheria and typhoid continued to levy an unnecessarily high toll of morbidity and mortality. The incidence of diphtheria rose by 34% over the previous year but the number of deaths was smaller than in 1958. There was no case of human or animal rabies for the fourth year in succession.

#### VITAL STATISTICS

56. Registration of all deaths and live births occurring in the Colony is compulsory under the Births and Deaths Registration Ordinance. Still births are not registrable but the numbers received by cemeteries for burial are recorded. Table 1 shows the annual returns for births and deaths during the period 1950-59.

TABLE 1 BIRTHS AND DEATHS 1950/59

Year		Estimated Mid-Year Population	Total Live Births	Crude Live Birth Rate (per 1,000 population)	Still Births recorded	Total deaths	Crude Death Rate (per 1,000 population)
1950	 	2,265,000	60,600	26.8	1,343	18,465	8.2
1951	 	2,013,000	68,500	34.0	1,180	20,580	10.2
1952	 	2,250,000	71,976	32.0	1,157	19,459	8.6
1953	 	2,250,000	75,544	33.6	1,158	18,300	8.1
1954	 	2,277,000	83,317	36.6	1,341	19,283	8.5
1955	 	2,340,000	90,511	38.7	1,250	19,080	8.2
1956	 	2,440,000	96,746	39.7	988	19,295	7.9
1957	 	2,583,000	97,834	37.9	1,245	19,365	7.5
1958	 	2,748,000	106,624	38.8	1,297	20,554	7.5
1959	 	2,857,000	104,597	36.6	1,393	20,250	7.1

- 57. For the first time since the war, there was a fall in both the birth rate and in the total number of live births registered. The net natural increase in the population during the year was 84,347 which is 1,723 less than for 1958. Without accurate census data, the low crude death rate has little significance but could be said to reflect the youth of the population, one third of which is estimated to be under fifteen years of age; from such survey data as are available it seems evident that there is a preponderance of males in the young adult age groups.
- 58. Table 2 shows the recent trends in infantile and maternal mortality. The reduction of both the infantile and the maternal mortality rates by over 50% in a period of 10 years has been achieved in spite of the rapidly increasing number of births.

TABLE 2

MATERNAL AND INFANT MORTALITY

Year	ntile Mortality te (per 1,000 live births)	Neo-natal mortality rate (per 1,000 live births)	Maternal Mortality Rate (per 1,000 total births)
1950	 99.6	30.0	1.70
1951	 91.8	31.3	1.59
1952	 77.1	26.3	1.14
1953	 73.6	25.8	0.97
1954	 72.4	24.6	1.24
1955	 66.4	23.1	1.16
1956	 60.9	24.2	0.90
1957	 55.6	23.8	1.06
1958	 54.3	23.4	0.85
1959	 48.3	21.3	0.73

59. Table 3 shows a comparison of the main causes of infantile mortality for 1950 and 1959. It will be seen that there have been marked reductions in the mortality from infectious and other febrile conditions, although much still remains to be done in the control of bronchopneumonia and gastroenteritis. The neonatal mortality rate has declined but by no means to the same extent, an experience shared by many other countries; the epidemiological implications of this in Hong Kong have yet to be studied.

TABLE 3
INFANTILE MORTALITY 1950/59

	International	15	050	19	59
Disease Group	International List Numbers	Total Deaths under I year	Deaths under 1 per 1,000 live births	Total Deaths under 1 year	Deaths under I per 1,000 live births
Respiratory Tuberculosis	 001-008	91	1.5	25	0.2
Tuberculosis Meningitis	 010	146	2.4	91	0.9
Other Forms Tuberculosis	 011-019	83	1.4	5	0.05
Tetanus	 061	84	1.4	62	0.6
Bronchopneumonia	 491	2001	33.0	1667	15.9
Pneumonia—other forms	 490,492-3	116	1.9	16	0.15
Bronchitis	 500-502	402	7.0	21	0.2
Gastroenteritis over age of 4 weeks	 571	1534	25.3	926	8.8
Congenital Malformations	 750-759	70	1.1	172	1.6
Birth Injuries	 760 & 761	49	0.8	37	0.3
Post-natal Asphyxia	 762	36	0.6	292	2.8
Pneumonia of Newborn	 762	190	3.1	322	3.1
Diarrhoea of Newborn	 764	89	1.5	60	0.6
Blood Diseases of Newborn	 770 & 771	70	1.1	83	0.8
Nutritional Maladjustment	 772	27	0.4	81	0.8
Immaturity	 776	706	11.6	766	7.3
Ill-defined Causes	 795	75	1.2	123	1.2

- 60. The fall in the maternal mortality rate has been mainly brought about by reductions in the incidence of death from toxaemias and haemorrhages of pregnancy. Deaths from septic complications of pregnancy, childbirth, and the puerperium have remained satisfactorily low.
- 61. Table 4 shows the changes in the mortality pattern which have occurred over the last ten years. Deaths from infectious diseases have declined considerably due to therapeutic advances and possibly to a rise in the general standard of health. Respiratory diseases are declining only slowly, mainly because of the rapidly increasing child population which is particularly vulnerable to bronchopneumonia. Diseases of the later years of life can be seen to be of increasing importance with the gradual rise in the relative incidences of cardiovascular, central nervous (mainly cerebrovascular), and neoplastic lesions; this is to be expected from the "freezing" of a swollen and relatively young population in the Colony 10 years ago. The effect of a rapid natural expansion of such a population in a confined area such as Hong Kong is reflected in the figures for accidents and violence.

TABLE 4

ANALYSIS OF MORTALITY FOR THE YEAR 1950, 1953, 1956 AND 1959

(Given as Percentage Total Deaths)

	Disease Group	Detailed List Numbers	1950	1953	1956	1959
1.	Infectious & Parasitic	001-138	22.0	19.3	16.2	14.2
2.	Neoplastic	140-239	3.7	5.6	7.0	9.3
3.	Allergic, Endocrine, Metabolic & Blood	240-299	0.7	1.3	1.2	1.1
4.	Nervous System &	200 200	2.4	2.5	4.0	
-	Sense Organs	300-398	2.4	3.5	4.9	6.2
٥.	Circulatory System	400-468	5.5	6.2	7.6	8.9
6.	Respiratory	470-527	29.9	23.0	21.3	22.3
7.	Intestinal	530-587	16.3	17.2	15.1	11.3
8.	Genito-Urinary	590-637	1.6	2.2	2.1	2.1
9.	Pregnancy, Child-birth					
	& Puerperium	640-689	0.6	0.4	0.5	0.4
10.	Skin & Musculo-Skeletal	690-749	0.2	0.2	0.4	0.4
11.	Congenital Malformations &					
	Diseases of Early Infancy	750-776	6.8	9.7	11.2	9.3
12.	Ill-defined Causes	780-794	6.4	7.4	7.5	8.7
13.						
	Violence	E800-E999	3.9	4.0	5.0	5.8

### III. WORK OF THE HEALTH DIVISION

#### HYGIENE AND SANITATION

### Urban Areas

- 62. Responsibility for environmental sanitation in the urban areas rests with the Urban Council and Health Officers are seconded to the Urban Services Department from the Medical and Health Department. The Assistant Director of Health Services as Vice-Chairman of the Urban Council is the co-ordinating link between the two Departments in so far as communicable disease control, through better environmental sanitation, food hygiene and vector control, is concerned. The Health Officers are concerned with the guidance of and advice to the Health Inspectorate in the day to day management of these health problems.
- 63. Through the medium of routine house inspections carried out quarterly by the Health Inspectorate there is a close link with health education activities in connexion with immunization against diphtheria and typhoid and with the control of intestinal infections.
- 64. During a greatly intensified diphtheria immunization campaign, mobile inoculation teams worked closely with the health inspectorate in

a systematic drive to ensure that the children at most risk in the densely populated tenement and resettlement areas on both sides of the Harbour were adequately protected against diphtheria. As a result the number of second and booster doses of APT rose to a much more satisfactory level and in the Kowloon urban area alone it was estimated that some 50,000 children received the requisite first and second doses. This was achieved by establishing inoculation posts at strategic points working at times convenient to parents while Health Inspectors conducting house inspections made known the facilities offered. Inoculation teams also visited roof-top squatter families at least once during the campaign and a second round of visits was under way at the end of the year. Although the drive was primarily against diphtheria, typhoid vaccine and smallpox vaccination were also available when required and accepted.

- 65. The Health Officers also maintained investigations into the source of known cases of diphtheria, typhoid, dysentery, amoebiasis, poliomyelitis and tetanus. Where applicable contact examinations were arranged and carriers treated.
- 66. Special attention continued to be given to food hygiene, the education of food handlers and of the proprietors of establishments selling raw or cooked foods being a major activity. The incidence of unsatisfactory samples of milk and ice cream continued to be unduly high and an average of 30% of samples taken were below standard.
- 67. This problem must be considered against the background of the density of population, the number of individuals who depend on low priced food establishments close to the place of work, and the wide-spread indifference to and lack of knowledge about elementary food hygiene. Therefore improvement in standards will only become significant as the many squatters are adequately rehoused, as more adequate piped water supplies are available and as modern sewerage replaces the many insanitary closets still existing in the old tenement and squatter areas.

### Rural Areas

68. The District Commissioner New Territories is the statutory Health Authority in the Rural Areas. The appointment of a Principal Medical Officer of Health for the New Territories, whose function it is to co-ordinate the curative and preventive work, became effective in October. Assisted by two Health Officers and 10 Health Inspectors, attention to practical health education stemming from the centres of curative medicine, the clinics, is now receiving priority in environmental sanitation. Routine work on the control of licensed food premises and

food handling has been intensified with some encouraging results. Nearly all licensed food premises not provided with water-borne sanitation now have aqua privies in place of dry latrines. Ways and means of improving sanitation in the villages are under consideration by the Rural Development Committee and pilot co-operative village cleansing schemes are being set up in two villages in co-operation with the Departments of Agriculture, Fishery and Forestry and Co-operative Development. Other such schemes are under consideration.

69. The pilot scheme of malaria prophylaxis started in two villages in the Sai Kung area during 1959 led to a considerable reduction in the number of cases of malaria. However after the initial interest of the villagers in the scheme had waned, it had to be discontinued owing to lack of co-operation. Further epidemiological investigations are continuing which include a survey of malaria parasites in the blood of children under ten years of age, with febrile conditions, attending clinics and dispensaries throughout the New Territories.

#### **EPIDEMIOLOGY**

- 70. During the year 1959 there was an increase in the number of cases of the more common notifiable diseases, the main exceptions being acute anterior poliomyelitis, measles and amoebiasis. The major factors in this increase are the rapidly-increasing population, mainly in the young and most susceptible age-groups, and the greater use of the medical facilities provided by Government and other agencies. The most disturbing feature of the year was a 34% rise in the incidence of diphtheria, an event which is discussed more fully later.
- 71. The total mortality from the notifiable diseases, however, continued to decline; even in the case of diphtheria, the number of deaths was less than recorded in the previous year.
- 72. Appendix 3 gives the numbers of cases and deaths from notifiable infectious diseases recorded during 1959.

#### Amoebiasis

73. Compared to 1958, there was a slight fall in the incidence of cases recorded. The mildness of the initial symptoms commonly met with militates against an accurate assessment of the problem but it is interesting to note that, of the cases recorded, 57% of cases occurred in the Kowloon Peninsula, 33% on Hong Kong Island and 10% in the New Territories; this accords fairly closely with the estimated distribution of population in these three areas of the Colony.

### Bacillary Dysentery

74. A 50% increase was recorded in the notifications of this disease but mortality remained low. Just over half the cases reported were in children under 10 years of age. The preponderant organism found is Sh. flexneri, while both Sh. boydii and Sh. sonnei are reported from time to time.

### Enteric Fever

75. The increase in the notifications of this disease was due to the recurrence, during 1959, of a summer peak after a lapse of four years. The incidence rate in the 5-9 and 10-14 age groups remained high, children in these groups accounting for 44% of the cases reported. This disease is particularly prevalent in the parts of the Kowloon Peninsula where squatters are concentrated with consequent lowered standards of sanitation and increased dependence on water sources other than the Government mains supply.

# Chickenpox

76. There was no change in the number of notifications as compared with 1958 and mortality remained low. It is primarily a disease of the colder months, the great majority of the cases occurring during the first four months of the year.

# Cerebro-Spinal Meningitis

77. The incidence remained at a low level and this disease is not a public health problem in the Colony at present.

# Diphtheria

- 78. As previously mentioned, there was a disturbing rise in the incidence and the number of cases was the highest ever recorded; 80% of the cases occurred in children under the age of 10 years. However, the case fatality rate was the lowest ever recorded.
- 79. As usual, the rise occurred during the cooler months, reaching a peak during December, 1959. The main concentration of the disease was in the densely-populated tenement areas of Kowloon and in the Mainland portion of the New Territories. The incidence on Hong Kong Island remained comparatively low but there also the majority of cases were reported from the densely-populated areas.
- 80. The clinical picture was predominantly that of laryngeal diphtheria due to *C. diphtheriae mitis*; only in rare instances was a *gravis* strain isolated. The occurrence of "bull-neck" in many patients who had

previously had herbal throat powders insufflated onto the fauces, a traditional practice referred to in last year's Report, was further investigated. In the samples of powder analysed there were varying concentrations of realgar (arsenic disulphide) and investigations are continuing with a view to determining whether or not the condition is due to a non specific irritant effect of the powder itself rather than due to the arsenic content.

### Measles

81. There was a slight drop in the number of notifications of this disease but the high case fatality rate, 23.7% during 1959, is a strong indication that reporting of this disease is by no means complete. As in other diseases spread by droplet infection, most of the cases occur during the first quarter of the year.

### Poliomyelities

82. There was a marked drop in the incidence of this virus infection, and cases occurred uniformly throughout the year, there being no peak during the summer months as in 1958/59. There was, however, an increase in the case fatality rate. Most of the cases and deaths amongst Chinese were in the 0-1 year age group; seven non-Chinese cases were reported, mainly in Europeans recently arrived in the Colony. Two-thirds of the cases occurred on the Kowloon Peninsula.

# Whooping Cough

83. There was a considerable drop in the number of notifications, and only two deaths were recorded. As in the cases of chicken-pox and measles, the number of unreported cases is estimated to be considerable.

# Puerperal Fever

84. Only one instance of this disease was recorded in a patient who, having been attended by a qualified midwife, left the Maternity home against advice.

# Ophthalmia Neonatorum

85. This disease, made notifiable in June 1958, showed a marked increase in the number of notifications, 98% of which came from Government Ophthalmic Clinics; these cases were investigated by Health Visitors working in the Government Ophthalmic Service.

### Malaria

86. There was a drop of 33% in the number of notifications of this disease during 1959 as compared to 1958. Of these, 89% were amongst

residents of the New Territories, mainly in the district around Sai Kung on the south-eastern part of the mainland. There was one death.

### **Tuberculosis**

87. Cases notified during the year were 817 more than during 1958, but there was a further fall in the mortality rate to 76.2 deaths per 100,000 estimated population. This disease is the greatest public health problem in the Colony and is considered in detail later in this report.

### Influenza

88. Influenza was made voluntarily notifiable following the wide-spread outbreak of 1957. During 1959, a total of 11,659 notifications were recorded; of these, 73% occurred in the first half of the year. There were only 26 deaths attributed to influenza.

### Other communicable diseases which are not notifiable

#### Tetanus

- 89. Of 131 cases of tetanus reported, 76 cases were of tetanus neonatorum. The case fatality rate was high, particularly in the new born. The infection amongst the latter is attributed to the application of ground ginger root as a styptic to the umbilical cord.
- 90. The risk of tetanus neonatorum due to the improper preparation of ginger root was brought to the notice of the representatives of the Chinese Herbalists and their co-operation sought to try and insure proper cleansing of the raw ginger root before it is prepared as an herbal remedy.

# Food Poisoning

91. There were 527 cases of food poisoning recorded of which 81 were due to coagulase positive staphylococci.

# Vaccination and Inoculation Campaigns

- 92. Free prophylactic vaccinations against enteric fever, diphtheria, cholera and smallpox continued to be available to members of the public at all Government Hospitals and Clinics, Port Health Inoculation Centres, and District Health Offices.
- 93. During April and May, the occurrence of smallpox in Singapore, a port with which Hong Kong has close links by sea and air, called for special precautions to prevent the establishment of the disease in the Colony; one of these precautions was the intensification of the annual

vaccination campaign, resulting in a total of just over one million persons being vaccinated during 1959.

- 94. The anti-typhoid campaign held during the summer months produced a fairly satisfactory response. While the numbers presenting themselves for the first dose of vaccine were not as high as in some recent years, there was a marked improvement, mainly amongst school children, in those presenting themselves to receive the second inoculation; 29% of those initially inoculated failed to return for a second dose.
- 95. At the beginning of the year, an Interdepartmental Committee on Health Education was formed consisting of representatives of the Secretariat for Chinese Affairs, the District Administration New Territories, the Government Information Services, the Labour, Education, Urban Services, Resettlement and Medical & Health Departments under the Chairmanship of the Assistant Director of Health Services. Its initial task was, and still is, to obtain maximum co-operation by the public in all attempts to raise the level of immunity against preventable diseases posing serious public health problems. The first activity of this committee was the intensification of the annual anti-diphtheria campaign which commenced in September. An Inoculation Record Card was introduced for general distribution and it is encouraging to note that in many instances this is now regarded as an important personal document for the child; as an incentive, a plastic figurine symbolizing 'Health' was given to each child receiving the complete course of two doses of P.T.A.P. Further, there was an intensification of the general propaganda programme in support of the campaign, which received considerable support from the local Kaifong Associations, including the Women's sections.
- 96. At first, the inoculations were carried out by mobile teams of inoculators visiting certain strategic points on both sides of the harbour in rotation. The initial response was good but after two months, numbers began to decline and it became apparent that to achieve a high level of immunity amongst the child population it would be necessary to offer protection against the disease as near as possible to the individuals home. To affect this, inoculators were attached to teams of Health Inspectors of the Urban Services Department making their daily house inspection visits, teams were sent to squatter areas both on hillsides and rooftops and there was block-by-block coverage of Resettlement Estates. By December, it was obvious that the main sources of the disease were in Kowloon; accordingly, after the commitments on Hong Kong Island

had been met, all available inoculators were concentrated in the Peninsula. At the end of March, 1960, it was estimated that at least 50% of children in the 0-9 age group had received full protection against diphtheria either in this campaign or in those held in previous years.

97. The numbers of prophylactic immunizations carried out during 1959 are detailed in Appendix 4.

### Recent Trends in Infectious Diseases

98. Table 5 shows annual morbidity and mortality rates during the period 1950 - 1959 for the main infectious diseases occurring in Hong Kong.

TABLE 5

MORBIDITY AND MORTALITY RATES OF CERTAIN
NOTIFIABLE DISEASES

### (per 100,000 estimated population)

1950/59

Diseas	e		1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Tuberculosis	I.R. M.R.		400.3 144.1	689.8 208.1	658.7 158.8	528.9 130.6	549.3 126.3	604.7 120.1	498.2 107.7	529.0 103.6	490.7 83.8	500.6 76.2
Diphtheria	I.R. M.R.		23.1 6.0	28.5 6.0	43.9 7.0	49.6 5.9	48.5 5.1	35.9 3.0	29.3 3.1	48.0 5.0	56.6 4.9	73.0 4.1
Enteric fever	I.R. M.R.	::	40.0 7.1	50.9 6.7	54.7 7.0	63.7 5.7	48.3 3.6	31.4 2.5	32.3 2.0	28.2 1.3	29.7 1.2	34.9 1.1
Amoebiasis	I.R. M.R.		7.8 0.4	7.7 0.4	8.9 0.3	12.7	10.4 0.3	9.0 0.3	7.5 0.2	8.4 0.3	9.5 0.4	8.4 0.6
Bacillary dysentery	I.R. M.R.		11.4 0.7	18.6 1.4	14.9 1.0	29.4 1.2	23.5 1.6	22.4 1.6	23.0 0.2	21.3 0.3	15.4 0.9	23.2
Malaria	I.R. M.R.		24.4 3.9	37.6 1.7	58.0 2.0	40.0 2.0	37.7 0.7	18.4 0.4	20.3 0.2	17.3	24.0 0.04	15.5 0.04
Acute poliomyelitis	I.R. M.R.		0.7 0.1	1.4 0.1	0.8 0.2	1.0 0.1	2.2 0.4	2.2 0.1	1.3 0.1	1.7 0.3	9.5 1.5	3.0 0.7
Measles	I.R. M.R.		20.0 2.8	26.2 1.9	30.0 3.4	29.4 2.2	26.2 5.5	23.2 3.8	29.1 3.5	33.9 3.6	28.6 7.0	26.0 6.2

I.R. = Incidence Rate-calculated from notifications received.

M.R. = Mortality Rate.

99. In general, there is a sharp increase in incidence of these diseases during the years 1951/53, followed by a decline during the next two or three years; in the last three years of the decade, there has been a levelling-off or rise in the general morbidity. The general mortality trend is downwards, after a sharp rise during 1951/52, although there are exceptions, namely amoebiasis, poliomyelitis, and measles. The pattern thus presented must be considered against the background of a great influx of people, followed by expansion of all public services and a high birth rate giving a rapid increase in the number of susceptibles.

100. Consideration of the individual diseases reveals the following points:

### (a) Tuberculosis

The incidence of this disease would appear to be gradually subsiding after the peak of 1951. The mortality rate, however, has declined markedly, and in 1959 was only 37% of that recorded in 1951.

# (b) Diphtheria

This showed a rapid increase during the early years of the decade reaching a peak in 1953. The first organized anti-diphtheria campaign started in 1952, using alum-precipitated toxoid supplied by UNICEF. The ensueing campaigns of 1953 and 1954 resulted in a raising of the level of immunity to produce a marked decline in the incidence of the disease during the next two years. Since 1955 a combination of rapidly-rising population under 5 years of age plus increasing public apathy have resulted in a great increase in morbidity, although mortality has by no means been so greatly affected. In fact, the case fatality rate for diphtheria during 1959 was the lowest on record.

### (c) Enteric Fever

Gradual improvements in sanitation and environmental hygiene have resulted in a markedly lower incidence of this disease. However, the elimination of annual fluctuations and the production of a further marked decrease in the morbidity rate is to a great extent dependent on the provision of an adequate water supply. The introduction of the use of Chloramphenicol is reflected in the rapidly-decreasing mortality from this disease.

# (d) The Dysenteries

Both amoebiasis and bacillary dysentery have remained comparatively steady and reflect the need for a rise in the standards of individual personal hygiene.

# (e) Malaria

This disease has declined markedly and only two deaths from it have been reported during the last three years.

# (f) Poliomyelitis

Poliomyelitis has in general remained sporadic except in 1958 when there was a marked rise in incidence during the summer months. The mortality rate is, however, rising and, in view of the increasing population of young children and the gradual spread of water-borne sewerage, will no doubt continue to do so until widespread immunization of the most vulnerable age groups has been attained. A polio virus laboratory unit has now been established and an investigation into the types and prevalence of enteric viruses is under way.

### (g) Measles

The incidence rate of this disease, as measured by the number of notifications, has remained comparatively steady over the decade, but the mortality rate has shown a consistent rise, so that at present measles ranks second only to tuberculosis as a cause of death from infectious disease; this rise, at least in part, is due to improvements in death certification and must be considered in conjunction with the considerable fall in mortality from bronchopneumonia which has occurred since 1950.

#### PORT HEALTH

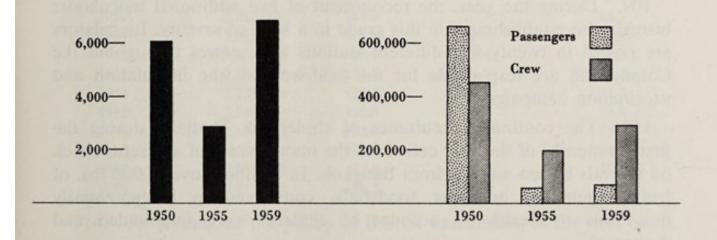
- 101. The Port Health Administration is responsible for all measures designed to prevent the introduction of infectious diseases into the Colony by land, sea, or air; for the sanitary control of the port areas and of the airport; for the carrying out of the provisions of the International Sanitary Regulations as embodied in the Quarantine and Prevention of Diseases Ordinance; for the compilation of epidemiological statistics and reports and for the organization of prophylactic vaccination campaigns. There are also statutory responsibilities under the Hong Kong Merchant Shipping Ordinance and the Asiatic Emigration Ordinance.
- 102. A weekly exchange of epidemiological information is maintained with the W.H.O. Epidemiological Station, Singapore, and copies of reports are forwarded for the information of the Secretary of State for the Colonies.
- 103. All persons entering the Colony are subject to a quarantine inspection, arrivals by sea at the two quarantine anchorages in Kowloon Bay and off Stonecutters Island, arrivals by air at Kai Tak Airport and persons crossing the land frontier, at the Lo Wu Quarantine Post. All immigrants without valid certificates are vaccinated against smallpox.
- 104. Other routine work carried out includes the deratting and disinsecting (including fumigation) of ships; sanitary duties in the port area and airport, including supervision of water supplies and control of mosquito breeding on small craft in the harbour; control measures to keep the port and airport free from *Aedes aegypti*; inspection of all vessels carrying over twenty unberthed emigrants; and issue of Bills of

Health which, although no longer required for international voyages, continued to be applied for by the masters of many vessels.

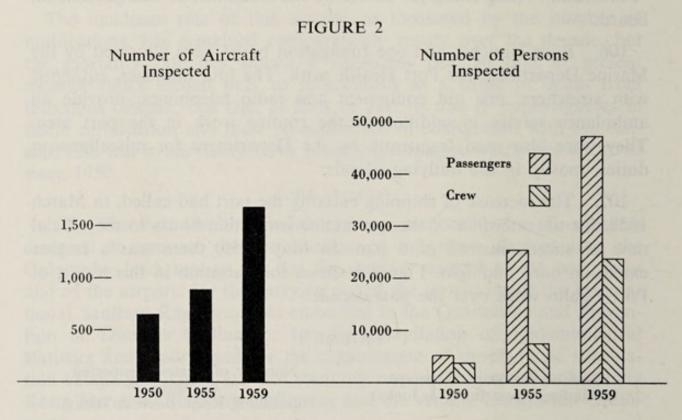
- 105. An important service rendered to shipping is to give medical advice by wireless to ships at sea; during 1959, twenty ships cabled "Porthealth" Hong Kong for advice on the treatment of sick persons on board.
- 106. Four launches and one fumigation barge were allocated by the Marine Department for Port Health work. The four launches, equipped with stretchers, first aid equipment and radio telephones, provide an ambulance service in addition to the routine work in the port area. They were also used frequently by the Department for miscellaneous duties, mostly in the outlying islands.
- 107. The increase of shipping entering the port had called, in March 1958, for an extension of the quarantine inspection hours to the official time of sunset, instead of 6 p.m. In May 1959, there was a further extension until midnight. Figure 1 shows the variation in this aspect of Port Health work over the past decade.

#### FIGURE 1

Number of Ships Inspected (excluding River Boats & Junks) Number of Persons Inspected on Ships (excluding River Boats & Junks)



108. The night landing service at Kai Tak Airport was officially inaugurated during July. The medical inspection hours were extended accordingly to midnight, or later as required, and the additional staff necessary for this service was provided. Figure 2 shows the expansion of work at the Airport during the last 10 years.



Prophylactic Vaccinations and other measures

- 109. During the year, the recruitment of five additional inoculators brought the establishment in this grade to a total of seventy. Inoculators are posted to twenty five different stations and centres throughout the Colony and are responsible for the field-work of the inoculation and vaccination campaigns.
- 110. The continued occurrence of cholera in Thailand during the first six months of the year called for the maintenance of a careful check on arrivals by sea and air from Bangkok. In addition, over 1,000 lbs. of fruit, vegetables, or other foodstuffs, considered to be potentially dangerous to health on account of cholera, were impounded and destroyed.
- 111. A small outbreak of smallpox occurred in Singapore during April and May; a careful survey was made of all passengers and crews

arriving from that port by sea or air, but no case of the disease was detected or occurred.

112. The number of persons arriving at Lo Wu showed an increase of 33% over the previous year. The modifications to the Frontier Port, which were completed at the end of 1958 enabled a smoother traffic flow and hence there was no difficulty in coping with the increased numbers. Of the 416,133 persons entering through Lo Wu during the year 50,543 were vaccinated against Smallpox.

Year			Number	of Persons	Inspected
1950	 	 	 	1,452,698	
1955	 	 	 	113,871	
1959		 	 	416,133	

#### TUBERCULOSIS

113. While progress in the prevention of tuberculosis in the youngest age groups has been substantial during the past ten years, morbidity in the adult groups has remained very much the same. There has been nevertheless an encouraging fall in the mortality rate and those with tuberculosis are living longer, the average age at death from tuberculosis now being 37 years whereas in 1952 it was 25 years.

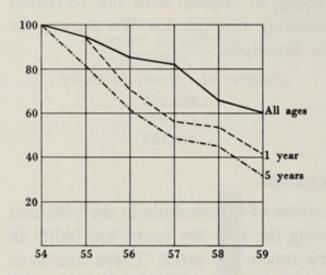
TABLE 6

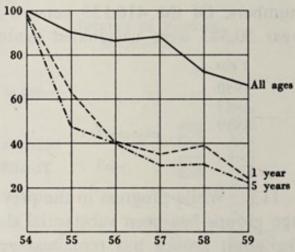
				TUBERCULOSI	S
Year		Population	Death rate per 100,000	Percentage of total deaths	Percentage of tuberculosis deaths below 5 years
1950		2,265,000	144.0	17.7	38.3
1951		2,013,000	208.0	20.0	34.0
1952		2,250,000	158.8	18.4	34.3
1953		2,250,000	130.6	16.0	36.2
1954		2,277,000	126.3	14.9	31.2
1955	1	2,340,000	120.0	14.7	28.0
1956		2,440,000	107.0	13.6	25.0
1957	1	2,583,000	103.6	13.9	21.2
1958		2,748,000	83.8	11.2	19.6
1959		2,857,000	76.2	10.7	19.2

114. As a result of the policy of B.C.G. vaccination of the new born, chemo-prophylaxis of tuberculin positivity naturally acquired under 3 years of age and contact examination and treatment, the death rates at 5 years of age and under have declined very sharply since 1954.

### FIGURE 3A

Graphs Showing the Rate of Decline of Death Rates from various Forms of Tuberculosis in Selected Age Groups based on 1954



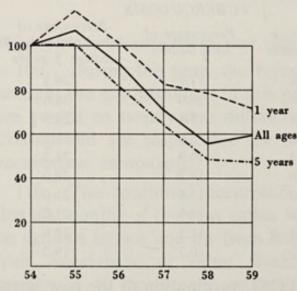


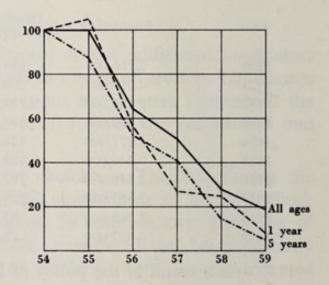
Tuberculosis Deaths All Forms

Pulmonary Tuberculosis Deaths

FIGURE 3B

Graphs Showing the Rate of Decline of Death Rates from various Forms of Tuberculosis in Selected Age Groups based on 1954





Tuberculosis Meningitis Deaths

Tuberculosis (Other Forms) Deaths

- 115. During this five year period there has been a fall of 78% in the deaths from pulmonary disease under five years of age, a fall of 94% in the deaths from other forms of tuberculosis but a comparatively small reduction in the death rate from tubercular meningitis. This latter suggests little reduction in the morbidity in the total population and that only B.C.G. vaccination is affecting meningeal tuberculosis which, unlike the other more chronic forms of tuberculosis, is practically unaffected by treatment.
- 116. With regard to morbidity, tuberculosis notifications bear little relation to the total problem and the stage has not yet been reached when a population X-ray survey can be conducted with the certainty of offering treatment to all active cases detected. Nevertheless, evidence accumulated as a result of surveys over the last decade gives good reason to believe that an average of 2% of the total population have active tuberculosis; a further 10% have radiological evidence of quiescent or arrested disease which may require little more than supervision. It is therefore assumed that facilities for the treatment of up to 60,000 cases of active disease will be necessary before any significant impact can be made on tuberculosis morbidity. About half this number of cases are already recorded at the Government Chest Clinics and an unknown number may be under treatment by other sources.

# Agencies engaged in tuberculosis control

- 117. Government policy is to encourage and assist all voluntary agencies to participate in medical, social and welfare schemes which can be integrated into the programme of tuberculosis control. Because of the magnitude of the morbidity problem the greatest number of cases are being treated by ambulatory chemotherapy and most of this group are under treatment at the Government Chest Clinics. Hospital treatment on the other hand is provided largely by the Hong Kong Antituberculosis Association, the Tung Wah Group of Hospitals, the Junk Bay Medical Relief Council and the Society for the Relief of Disabled Children. All these organizations receive recurrent grants-in-aid from Government; certain other hospitals also maintain a limited number of beds for tuberculosis patients. There is a close liaison between the voluntary agencies and the Government Tuberculosis Service.
  - 118. The control programme is based on the following measures:
    - (i) Ambulatory chemotherapy of known cases.
    - (ii) Prophylactic chemotherapy of young contacts.

- (iii) B.C.G. vaccination of new-born children and older tuberculin negative reactors.
- (iv) Hospital treatment of selected cases that will respond to medical or surgical in-patient treatment.
- (v) Limited case finding through X-ray surveys subject to sick leave and re-employment guarantees.
- (vi) An annual X-ray survey of all Government employees.

## Government Tuberculosis Service Facilities

# Ambulatory Chemotherapy

- 119. First introduced in 1950, using P.A.S. for a group of 45 cases, ambulatory chemotherapy now plays the major part in the control programme. Experience of the combined use of P.A.S. and I.N.A.H. was not so successful as had been expected from the good reports of its use elsewhere. Therefore two years ago streptomycin by daily injection on six days of each week was added to the course of treatment with combined P.A.S. & I.N.A.H. The three drugs are now given as a standard until no further improvement is seen, which may be for a period of up to fifteen months. Thereafter the combined P.A.S. & I.N.A.H. tablets are continued, the minimum duration of treatment being for two years. Complications arising from this course of treatment are relatively rare and the few cases of hyper-sensitivity seen at the Chest Clinic are admitted to hospital; however, the total incidence of skin sensitivity reactions is not yet known and a number of cases attend dermatology clinics without informing the chest clinics. This aspect of the problem is now under investigation.
- 120. The principal problems of ambulatory chemotherapy are the failure to continue with treatment once symptoms are relieved, irregular attendance and the failure to take the PAS/INAH tablets in addition to the streptomycin injections. During 1959, 21% of the cases under treatment failed to continue treatment despite home visits and follow-up; of those patients attending the clinics, a sample of 6000 examined showed that between 87% and 90% had PAS in the urine. This indicates that the combined PAS/INAH tablets are on the whole taken regularly.
- 121. There are three fulltime chest clinics operating, one on Hong Kong Island and two in Kowloon. In addition there are eleven part-time out-patient clinics and nine injection centres. Evening sessions have been continued at three clinics and are beginning to prove more popular.

The establishment of the injection centres conveniently sited for those at work has greatly improved attendances for treatment. In addition, in the New Territories the staff of the clinics at Tsuen Wan, Yuen Long, Ho Tung, Tai Po, Sai Kung, Lamma, Peng Chau & Cheung Chau maintain an injection service. This also applies to the clinics at Stanley and Aberdeen on Hong Kong Island.

- 122. All treatment is given free of charge at the Government Chest Clinic.
- 123. The volume of work now undertaken at the Government Chest Clinics has strained the facilities to the utmost and has imposed a limit on the number of new cases that can be accepted at the major chest clinics each day. This limit applies only to cases presenting voluntarily for investigation and does not apply to referred cases. The expansion of the work at the Chest Clinics during the ten year period is shown in Table 7.

TABLE 7
GOVERNMENT CHEST CLINICS 1950/59

		- CITITUTE IN	CILCOI C	Linico 1	30133		
		1950	1955	1956	1957	1958	1959
First attendances		19,282	40,061	34,607	35,126	39,454	39,008
Cases of tuberculosis							
discovered		6,944	10,449	10,733	11,428	12,270	14,406
Total attendances for							
treatment		40,324	320,426	401,568	539,282	803,326	1,655,100*
Under treatment from		100000000					
previous year		_	_	1,703	5,887	9,132	13,733
Started treatment durin	g						
the year		-	ALL MAN	7,861	7,964	11,546	11,357
Completed treatment		_	3,386	1,037	1,213	1,048	2,064
Failed to attend		_	852	2,022	2,868	3,048	5,391†
Admitted to Hospital							75
from Chest Clinics		586	965	1,029	1,078	1,511	1,587
Still on treatment at							
end of year		_	2,824	5,887	9,132	13,733	16,062
							-

<sup>\*</sup> Due to expansion of injection facilities.

124. During 1959 there has been noted for the first time a substantial reduction in the severity of the disease in new cases and there is no doubt that the proportion of early cases diagnosed is increasing. The percentage of infectious cases dropped from 29% in 1958 to 20% in 1959. This reduction gave cause for a bacteriological cross check of patients entering and leaving hospital and the hospital results, after multiple smears and culture, compared more closely than was expected with the clinic results, which are based on a single sputum examination.

<sup>†</sup> A large proportion are recorded as 'returned to village outside Hong Kong'.

## Chemoprophylaxis

- 125. Starting in 1958, INAH has been given for a period of one year to children under the age of three years with a positive tuberculin test not due to B.C.G. and who shew no radiological or other sign of tuberculosis. This is part of the contact examination scheme but is also applied to other children attending the Maternal & Child Health Clinics. The number treated totalled 328 of which 200 were attending the Maternal & Child Health Clinics. In this way, acute post primary tuberculosis which constitutes a considerable proportion of infant deaths, mainly from tubercular meningitis, has also been attacked.
- 126. With the widening cover by B.C.G. vaccination the proportion of contacts in this group who would be suitable for INAH therapy is diminishing and is expected to continue to do so.

## B.C.G. vaccination

- 127. A B.C.G. vaccination campaign was started in 1952 under the sponsorship of and with assistance from U.N.I.C.E.F., and continued in this way until 1955. The campaign as such was then discontinued and the activities incorporated into the general organization of the Tuberculosis Service. The personnel employed in this work were dispersed into other sections of the Tuberculosis Service where it was considered they could operate more conveniently. The central B.C.G. office has now become a supply organization with a total staff of five, under the administrative control of the Tuberculosis Service and is responsible for the examination and vaccination of contacts, surveys of children in certain groups and for the operation and control of the B.C.G. campaign in new born children.
- 128. The B.C.G. Vaccination figures since the beginning of the campaign in 1952 are as follows:

			1	TABLE 8	ARRIVA	
			Tubercu	din Test	BCG Va	ccination
Year			Completed Test	Negative Vaccinated	New Born Babies Vaccinated	Grand total Vaccinated
1952			 176,728	38,173	3,120	41,293
1953			 77,422	27,024	4,883	31,907
1954			 52,620	15,234	3,050	18,284
1955			 58,606	15,775	9,587	25,362
1956			 38,523	5,629	23,418	29,047
1957			 34,737	10,074	35,149	45,223
1958			 29,107	10,390	49,865	60,255
1959			 16,568	8,518	62,261	70,779
	Tota	d	 484,311	130,817	191,333	322,150

## B.C.G. vaccination of New-born Babies

- 129. B.C.G. vaccination of new-born babies is carried out by the multipuncture method using 20 mgm/c.c. vaccine. This vaccine is freely available to all private medical practitioners, midwives and clinics.
- 130. The vaccinators attached to the central B.C.G. office visit the principal hospitals as often as appears necessary to achieve maximum results; in certain hospitals this entails a daily visit. The calls upon their time are increasing and to maintain the tempo further increases of staff will be required. Of the 104,579 babies born during the year, 62,261, or 59.53%, were vaccinated with B.C.G. The success of this aspect of the work can be gauged from the returns over the past eight years:

Year				Percentage vaccinated
1952	 	 	 	4.33
1953	 	 	 	6.49
1954	 	 	 	3.66
1955	 	 	 	10.59
1956	 	 	 	24.21
1957	 	 	 	35.93
1958	 	 	 	46.86
1959	 	 	 	59.53

131. The returns each month show a steadily mounting total and it is anticipated that the current year will show further substantial increases. This aspect of the control programme probably gives the best return for the work done in the group to which it is applied and should, if reports from elsewhere are to be believed, show excellent long term results in reducing morbidity as well as mortality.

# B.C.G. Vaccination of Other Groups

132. Vaccination of other age groups is carried out by the classical method using vaccine of 1 mgm./c.c. strength. Vaccination is given to tuberculin negative contacts of known cases of tuberculosis, through the tuberculosis clinics; it is also carried out in the Maternal and Child Health Clinics and at the B.C.G. clinic operated by the Hong Kong Anti-Tuberculosis Association. A certain amount of vaccination is also carried out by the School Health Service. The total number of children vaccinated during 1959 was 8,518 out of a total of 16,568 children tested. This side of the work is steadily decreasing and, with the rapid increases in the number of B.C.G. vaccinated new-born children, should eventually be reduced, it is hoped, to a minimum.

## Chest Surgical Clinics

133. A Clinic is held weekly at the Government Chest Clinic in Wan Chai by the Government Chest Surgeon where he sees cases referred for an opinion and the follow-up cases already operated upon. The attendances during the year were as follows:

		Total	 	 	735
Revisits	 	 	 	 	612
First visits	 	 	 	 	123

134. A further session is held once in two weeks by the Chest Surgeon attached to the Grantham Hospital who is assisting with the treatment of chest clinic surgical cases.

	 	 			 	226
Revisits	 	 			 	144
					-	-
		Tota	al	***	 	370

- 135. As more patients come under ambulatory treatment the number of cases suitable for chest surgery is increasing. Thus there has been a slight rise recently in the numbers on the waiting list, despite the combined efforts of the two thoracic surgeons.
- 136. The thoracic surgery done in connexion with clinic patients was as follows:

TABLE 9

	Govt. Thoracic Surgeon	Grantham Hospital Surgeon
Thoracoplasty	 18	The state of the
Corrective Thoracoplasty	 16	71
Wedge resection	 6	6
Segmental resection	 55	26
Lobectomy	 48	60
Pneumonectomy	 8	21
Other operations (a) Minor	 12	18
(b) Major	 16	2

With the recent participation of the Ruttonjee Sanatorium Surgeons it is anticipated that the waiting time for chest surgery, now less than three months, can be reduced to a minimum or even abolished, despite the increasing number of cases for which surgery is indicated.

# The Orthopaedic Clinic

137. Started in 1957, this clinic is held at the Wan Chai Chest Clinic, under the joint direction of the University Consulting Orthopaedic

Surgeon to the Government and the Government Orthopaedic Specialist. Medical, clerical, nursing and social assistance is provided by the Government Tuberculosis Service and chemotherapy and supervision are carried out in the Government Chest Clinics. The X-ray service is provided by the Hong Kong Anti-Tuberculosis Association at Ruttonjee Sanatorium, on a repayment basis. A plaster clinic operates in association with this Clinic and physiotherapy is also available at Wan Chai.

- 138. Treatment is initially mainly by chemotherapy and, at the appropriate time, hospital treatment is available in the surgical wards of Queen Mary Hospital, at the Grantham Hospital, at the Sandy Bay Convalescent Home and at the Ruttonjee Sanatorium.
- 139. Attendance at the Orthopaedic clinics for consultation were as follows:

				1957	1958	1959
First visits		 	 	543	629	617
Return visits		 	 	768	2,083	3,503
	Total	 	 	1,311	2,712	4,120

140. An analysis of the 1959 cases in relation to the site of disease showed the following:

Spine	 	 	 	 	303
Hip Joint	 	 	 	 	125
Other	 	 	 	 	189
		Total	 		617

141. The Orthopaedic Surgeons are now of the opinion that most of the old chronic cases have been treated and that the new cases being seen are of comparatively recent origin. It is also possible that as a result of B.C.G. vaccination there has been a true drop in the incidence of tubercular bone disease in the youngest age groups.

# Radiology

- 142. All X-ray work in connexion with the Tuberculosis Service is carried out by the staff of the Radiological section who are administratively responsible to the Senior Radiological Specialist. Static units are installed in the main clinics and branch clinics are served as far as possible by two mobile units.
- 143. First examinations are now all done on large papers which satisfactorily serve the purpose and are considerably cheaper than films. In addition they are less subject to the effects of the humid climate.

144. The total number of exposures rose again by almost 10% to 194,181, of which 128,894 were on large papers or films.

## Bacteriological Examinations

- 145. The bacteriological work done for the Tuberculosis Service is carried out under the direction of the Government Pathologist. The total number of sputum smears examined was 44,785, a rise of 1,714 as compared with last year. Gastric cultures totalled 186 while laryngeal cultures, which have largely replaced gastric cultures, reached a total of 1,131.
- 146. Wide publicity is being given to the occurrence of atypical acid fast organisms in various parts of the world and the culture procedure in the laboratories has been adjusted to find examples in Hong Kong. Already a few have been isolated but the present indications are that this is likely to be a curiosity rather than a local problem.

## Hospital Treatment

- 147. The detailed distribution of beds for tuberculosis in the civil hospitals throughout the Colony is shown in Appendix 5 and the total figure can be accepted as the average number of beds set aside throughout the year for the in-patient treatment of tuberculosis. Of this number 252 beds are maintained in Government Hospitals, 876 in hospitals managed by the Hong Kong Anti-Tuberculosis Association, 200 are in the Tung Wah Group of Hospitals and 180 in the Haven of Hope Sanatorium. This number may fluctuate from time to time particularly in the Government Hospital at Lai Chi Kok where this year the greatly increased diphtheria incidence called for a temporary redistribution of convalescent and tuberculosis beds, over a period of two months, for the nursing of cases of severe diphtheria.
- 148. In addition to the beds available to the Tuberculosis Service in Government Hospitals, there are 444 beds in the Grantham Hospital and 336 beds in the Ruttonjee Sanatorium, which includes the Freni Memorial Convalescent Home. Admission is governed by the policy of utilizing the beds to the best possible advantage of patients whose recovery can be hastened by medical, pulmonary surgical or orthopaedic treatment or who require emergency admission for complications arising during ambulatory chemotherapy. It is not yet possible to use hospital beds entirely for the segregation of open cases whose home conditions are such that isolation is desirable. This aspect of the control programme is being investigated with a view to providing an institution for

the open chronic cases who do not respond to chemotherapy. Unfortunately staff and financial considerations have so far prevented the formulation of any positive steps in this direction.

# The Hong Kong Anti-Tuberculosis Association

- 149. Incorporated by statute, the Association administers two Hospitals, a Convalescent Home, a B.C.G. Clinic, a Tuberculosis Insurance Scheme and a Health Education Service. The two hospitals are the Grantham Hospital and the Ruttonjee Sanatorium; the Freni Memorial Convalescent Home is adjacent to the Ruttonjee Sanatorium and the two institutions are managed as one. The Hong Kong Anti-Tuberculosis Association Board is the governing body of the Association; the Grantham Hospital is the responsibility of the Grantham Hospital Management Board and the Ruttonjee Sanatorium and Freni Memorial Home are managed by the Ruttonjee Sanatorium Management Board. The Hospitals Management Boards are appointed annually by the Board of the Association and consist of nominated members of the Association Board; members of the staff of each institution attend the respective Management Board meetings.
- 150. The Association's work receives considerable voluntary support and the hospitals are generously subsidized by Government. Treatment at the Ruttonjee Sanatorium and the Freni Memorial Home is entirely free; at the Grantham Hospital maintenance fees are charged on a non-profit making basis and Government now subsidizes 444 of the beds at the rate of \$18 per day for each bed occupied by a Government-sponsored non-fee-paying patient.

# Ruttonjee Sanatorium & Freni Memorial Convalescent Home

- 151. Operated as a single unit by a Board of Management these two institutions accommodate 336 beds of which 120 are in the Convalescent Home. Treatment is free and 42 beds are maintained by sponsoring bodies at an annual endowment cost of \$3,500 per bed per annum. A Government subvention of \$1,346,979 towards capital and maintenance costs was made during the year.
- 152. Medical and senior nursing staff are provided by the Sisters of the St. Columban Roman Catholic Mission and staff of the Medical Faculty of the Hong Kong University act in a consultant capacity. Full medical and surgical treatment are given free of charge and there is a close liaison with the neighbouring Wan Chai Government Chest Clinic. Admission is through the sponsoring agencies, the University Clinical Units and the Government Chest Clinic.

- 153. The Sanatorium staff conduct a follow-up clinic for all patients discharged from Ruttonjee Sanatorium and the Freni Memorial Convalescent Home. All the necessary social work in these institutions is the responsibility of the Almoners working in the Tuberculosis Service.
- 154. During the last few months of the year more pulmonary cases in need of thoracic surgery have been under treatment and more beds have been set aside for the surgical treatment of orthopaedic tuberculosis cases referred from the Wan Chai Orthopaedic Clinic referred to in paragraph 137 above.

#### TABLE 10

The number of patients admitted for treatment during the year was:

Adults through Government clinics				 279
Children (pulmonary) through Govt.	clinics			 55
Children (orthopaedic) through Govt.	clinics			 51
Other admissions and re-admissions				 277
	Total a	admissi	ons	 662

## Grantham Hospital

- 155. Designed and built as a modern hospital of 540 beds for the treatment of tuberculosis, this institution was opened in June 1957. Until August 1958 it was possible to staff only 360 beds of which 96 beds were set aside for paying patients. During the last quarter of 1958 the hospital became fully operational and now 444 beds are maintained by a Government subvention of \$2,926,482.
- of Management and free treatment is given in the 444 subsidized beds. Of these beds, 180 are under the clinical supervision of the Government Tuberculosis Service, the remainder of the hospital beds being the clinical responsibility of the Board's medical and surgical staff, consisting of a Medical Superintendent, a Chest Surgeon, an Anaesthetist and 4 Medical Officers. Government clinical staff consists of the Senior Tuberculosis Specialist, the Orthopaedic Specialist and the Thoracic Surgical Specialist, all of whom give part time services, and 3 full time seconded Medical Officers.
- 157. Subsidized patients on discharge attend the Government Chest Clinics for further treatment but the Grantham medical staff have full follow-up facilities, as desired, through the Government clinics. Medical social work for all subsidized patients is carried out by the Almoners in the Government Tuberculosis Service.

158. The number of subsidized patients admitted for treatment during the year was:

#### TABLE 11

Grantham H	ospita	al:						
Direct a							 	225
Transfer							 	40
Government	Unit	(pulmo	onary)				 	173
Government	Unit	(ortho	paedic):					
Male	30						 )	
Female	28						 }	115
Children	57	14.7					 )	115
				Total	adm	issions	 	553

# The Tung Wah Group of Hospitals

159. This Group of Chinese Charitable Hospitals maintain some 200 beds for the medical treatment of tuberculosis, mainly cases of a more chronic nature. In addition, outpatient clinics are held for cases under ambulant chemotherapy. In these hospitals approximately one third of the total births in the Colony take place each year and accordingly great emphasis is placed on B.C.G. vaccination of the new-born. Throughout the year 73.06% of these new born babies were given B.C.G. in the hospital wards.

# The Haven of Hope Sanatorium

- 160. Situated in the New Territories and managed by the Junk Bay Medical Relief Council, this Sanatorium has maintained 180 beds throughout the year for the medical treatment of tuberculosis. The Sanatorium is supported by a group of Protestant Missions of various denominations which sponsor the majority of the beds. Government gives an annual subvention of \$108,000 for the maintenance of 45 beds for the free treatment of villagers suffering from tuberculosis, and for the provision of certain X-ray services to local residents. The Council also maintains an outpatient clinic for tuberculosis patients in Rennie's Mill.
- 161. Surgical facilities for pulmonary and orthopaedic cases in the Sanatorium are provided by the Alice Ho Miu Ling Nethersole Hospital on Hong Kong Island where patients are temporarily transferred for surgical treatment.

# The Sandy Bay Convalescent Home

162. This Home of 54 beds is maintained by the Society for the Relief of Disabled Children and staffed in part by the Hong Kong

Branch of the British Red Cross Society. It is designed for the convalescent care of children suffering from orthopaedic conditions many of which are due to tuberculosis. The Society receives a Government subvention of \$15,000 towards maintenance costs.

## X-Ray Surveys

- 163. Up to the present time, X-ray surveys of the general population have not been practicable in that the facilities for subsequent investigation and treatment have been fully occupied in dealing with the existing case load. Certain selected groups are X-rayed annually however and X-ray surveys are carried out on request, for commercial and industrial organizations prepared to guarantee certain sick leave and re-employment facilities for active cases of tuberculosis detected. There has been a considerable expansion of this latter activity during the year.
- 164. For the past ten years, Government employees have been required to undergo an annual X-ray examination of the chest. This follows a strict pre-employment examination during which all cases showing radiological changes are fully investigated. Therefore incidence of active disease in Government employees gives an indication of the effects of the impact of a high tuberculosis morbidity on a selected group in full employment. During 1959 an incidence of 1.29% of active tubercular disease was uncovered amongst Government employees; however there were only two deaths from tuberculosis in the group, which gives a mortality rate of 6 per 100,000.
- 165. All convicted prisoners are also X-rayed annually and here the percentage of active disease rises to 5.15%. As a considerable proportion of prisoners are also drug addicts and are drawn from an unstable element of the community, this high morbidity is not unexpected.
- 166. A total of 76 firms participated in the X-ray survey scheme and 1.78% of active cases were diagnosed. Many of these firms also have annual surveys carried out so that this group of individuals is also selected. It is of interest that the number of firms and individuals participating rose from 51 to 76 and 8,768 to 12,995 respectively when compared to 1958.

#### School Teachers

167. Teachers in Government schools are X-rayed annually in the course of the Government survey. In private schools, teachers are required to register with the Education Department and before being passed fit to teach they have to undergo a chest X-ray, not necessarily

by the Government X-ray units. Accordingly records are available only for these teachers in private schools referred to the Government Chest Clinics because of an unsatisfactory X-ray. The figures for the past five years are:—

	TABL	E 12			
	1955	1956	1957	1958	1959
Referred to Chest Clinics Unfit to teach on account of	348	455	318	249	179
pulmonary tuberculosis	36	49	53	23	32
Percent	10.6%	10.7%	16.6%	9.2%	17.9%

This high incidence is undoubtedly due mainly to the referral of cases showing suspicious radiological findings for further investigation.

- 168. Those teachers found to be unfit are offered priority of admission to hospital but there is no compulsion and it is suspected that a number of teachers with active disease may be teaching in unregistered schools.
- 169. With the opening of another major full-time chest clinic in 1960 and plans in hand for two static X-ray survey centres in addition to the mobile units at present in use, it is hoped to start certain general population surveys in the near future, beginning in Resettlement Estates.

## Medical Social Work.

- 170. This is carried out by a staff of Almoners assisted by 35 Tuberculosis Workers. The importance of this aspect of the work within a system of ambulatory chemotherapy needs no emphasis. Dense overcrowding, no comprehensive social insurance, low economic standards and the wide extent of out-patient therapy make imperative the earliest possible development of the home contact if the fullest use is to be made of the limited social assistance available.
- 171. The roles of the Tuberculosis Almoner and the staff of Tuberculosis workers are complementary. As soon as a diagnosis has been made, the Almoner concerned interviews the patients and the social and economic circumstances are recorded. Thereafter, within one month if possible, a Tuberculosis Worker pays a home visit.
- 172. Once admission to hospital, other than as an emergency, has been recommended, names are placed on the waiting lists maintained by the Almoners according to the category of treatment required. The categories are chest medical (three units), chest surgical (three units), orthopaedic (four units), and special investigation (one unit). As far as

possible all forseeable social problems are thus settled before admission, saving much work at a later date.

- 173. Visits are paid by the Almoner to patients in hospital, a weekly visit being the usual practice. When possible the visit is paid in conjunction with the medical officer concerned. On discharge from hospital all patients are given a small supply of drugs to ensure continuity of treatment until arrangements have been made for further care at the clinic most convenient to the place of residence.
- 174. For patients under ambulatory treatment at a clinic, attendance registers are kept by the Almoners so that failure to attend or irregularity in attendance can be noted. Defaulters are visited by Tuberculosis Workers without delay and are encouraged to resume attendance, the dangers of failure being outlined and explained.
- 175. Drugs for oral administration are distributed through the Almoners section, usually by the Tuberculosis Workers. As the total of patients on ambulatory chemotherapy at any one time is in the neighbourhood of 16,000 the magnitude of this aspect of the work is considerable. The distribution of oral drugs as made up by the manufacturers in packs containing one week's supply has been a great advantage.

## Assistance to Patients

- 176. A sum of \$250,000 was available during 1959 for assistance to patients. This aid was disbursed in the form of cash grants or additional food. During the year, 282 families received average cash grants of \$23.25 each week compared to 238 families receiving average grants of \$21.45 during 1958. Other cash grants, for travelling expenses, domestic help, rehabilitation grants and surgical appliances for orthopaedic cases, were also made.
- 177. Additional food, in the form of one pound of milk powder per patient each week, cost \$99.488. This form of aid was supplemented by assistance in kind consisting of 10,982 C.A.R.E. food parcels and 6,000 lbs. of fortified noodles.

## The Tuberculosis Workers

178. The greatest part of the home visiting is carried out by the Tuberculosis Workers. Trained specifically for duties most suited to local conditions, they have no nursing training as their work is mainly on the social side. They are responsible through the Senior Tuberculosis Workers to the Almoner and each has duties in a clinic which

cover reception, the maintenance of records and registers and assistance in the special clinics. Outside the clinic, each T.B. Worker is responsible for a district and afternoons are devoted to home visiting, health education and the organization of contact examinations.

179. The training is an 'In service' one and lasts for six to twelve months, the emphasis being on the practical side with a minimum of lectures on the elements of medical social work, record keeping and health education.

## Tuberculosis Contacts

180. Efforts are made in the course of home visiting to have every close family contact of known cases of tuberculosis examined to exclude tuberculosis. Contacts under the age of 8 years are tuberculin tested, negative reactors being offered B.C.G. vaccination, positives being X-rayed. Other contacts are X-rayed at their convenience and without the need to first register at the chest clinics.

The findings during the year were as follows:

T	ABLE 13		
Under 8 years of age		1958	1959
Tuberculin Tests { Negatives		1,163 2,254	996 1,928
of T.T. Positive   Inactive   Suspicion	Tuberculosis Tuberculosis	148 37 384	110 65 324
Percentage of active tuberculo	Tuberculosis	1,685 4.33%	1,429 3.72%
Examination Inactive following Suspicion	Tuberculosis Tuberculosis us Tuberculosis Tuberculosis	385 183 746 7,070	336 159 658 6,856
Percentage of contacts over 8 tuberculosis Grand total of contact		4.59% 11,801	4.19% 10,933

181. There has been a drop in the total number of contacts examined as compared with previous years, but there appears to be no significant change in the findings.

## MALARIA BUREAU

182. The Malaria Bureau, under the direction of the Government Malariologist, is responsible for all malaria control undertaken in the Colony and, in certain instances, deals with the breeding of culicine mosquitoes. It also offers expert advice to the Armed Services, the Pest

Control Unit of the Urban Services Department and to Hei Ling Chau Leprosarium. Lectures are given on malaria and allied subjects to various groups of health personnel under training.

## Control operations

- 183. The important malaria vectors are A. minimus and A. jeyporiensis var. candidiensis, while A. maculatus and A. hyrcanus have
  also been proved to be potential carriers. For control purposes the
  Colony is divided into 'protected' and non-protected areas.
- 184. The whole of the urban area comprising Hong Kong Island, Kowloon, and New Kowloon is a protected area. In addition there are relatively small zones in the New Territories, at Rennie's Mill Camp, Kau Wa Keng, Chi Ma Wan Prison and the township on Cheung Chau Island, where control measures are maintained. Since the 1st April, 1959, similar measures have also been instituted at the new Shek Pik Reservoir site for the protection of workers engaged in the construction of the dam.
- 185. The extension of the control programme to Rennie's Mill and Kau Wa Keng only commenced in 1950, to Cheung Chau Island in 1951 and to Chi Ma Wan in 1955. From 1952 onwards, in the face of progressive urban development, protection has been gradually extended to the Ngau Tau Kok, Kwun Tong, Cha Kwo Ling and Lei Yue Mun areas in New Kowloon.
- 186. The method of control of malaria is based predominantly on anti-larval measures consisting of the rough training of streams, ditching and larviciding. Anti-malaria oil was at first employed as the main larvicide but, starting in 1950, Gammexane dispersible powder was used instead of oil. This continued satisfactorily until 1957 but, on account of development of resistance on the part of malaria vectors elsewhere against chlorinated hydrocarbon insecticides after prolonged use and in order to delay the possibility of the development as long as possible, it was considered advisable to reintroduce the use of oil, except in agricultural lands where its application would be unsuitable. Under local conditions this use of oil has proved to be safe and economical.
- 187. In certain instances, the Bureau also undertakes the control of culicine mosquito breeding. Against *Culex fatigans*, which has shown definite resistance to Gammexane, Diazinon dispersible powder has been found very useful, particularly when breeding takes place in sumps. For *Aedes togoi* which breeds profusely in brackish water in numerous rock

pools along the shore, Gammezane 'bricks' have continued to prove their effectiveness without any sign of resistance developing.

- 188. Results of the malaria control work in the urban areas have so far been satisfactory and the incidence of natural malaria transmission has virtually been reduced to zero. Routine adult mosquito catches and larval surveys were carried out in the protected areas of Kowloon and Hong Kong throughout the year. Except in one or two instances when young larvae of A. maculatus and A. hyrcanus were detected, all the other findings were negative. However vector mosquitoes abound just outside the protected areas and, given a favourable opportunity, can regain a foothold at any time. Therefore constant vigilance is necessary and there is no room for complacency or relaxation of the control measures.
- 189. In the New Territories, except in the few selected areas as mentioned above, there is as yet no overall vector control programme. In the rural districts, where the population is scattered and wet cultivation is traditional, to adopt anti-larval measures as currently practised in the urban areas would not yet be feasible owing to the agricultural practices in use. Further, comprehensive anti-adult mosquito measures, once instituted, would have to be continued as long as unprotected contiguous borders are present, with a grave risk of resistance developing.
- 190. Police personnel and troops stationed in the New Territories continue to depend on paludrine prophylaxis as their main line of defence against malaria.
- 191. In the Sai Kung district, in the eastern part of the New Territories where the majority of malaria notifications originate, chemoprophylaxis by weekly distribution of paludrine tablets was started towards the end of March 1959 in the two comparatively small villages of Pak Kong and Pak Sha Wan. This was designed as a pilot experiment in control by chemoprophylaxis but, unfortunately, the experiment had to be discontinued in January 1960 as the necessary co-operation from the public began to dwindle. The initial results of the scheme were however encouraging, since not a single case of fresh infection had been reported in either of these two villages throughout the period of medication; indeed, up to time of writing this report, although cases continued to appear in neighbouring villages, no fresh infections have been reported from the two villages concerned.

## Cost of operation of the Bureau

192. The entire Colony population is at risk of the infection but approximately 2,367,000 persons are now under protection by anti-larval methods. For the year, the cost of the control operations, including action against nuisance mosquitoes in certain areas, was 37 cents (about five pence half penny) per head. This takes into account the emoluments of all staff and the expenditure on anti-malaria oil, insecticides and equipment.

## Malaria incidence

1957 ...

1958 ...

1959 ...

- 193. Notification of malaria was made compulsory for the first time in the Colony in September 1945. The enforcement was discontinued in May 1948, but since June 1950 has been reintroduced.
- 194. Since 1950 the reduction in malaria mortality has been striking as may be seen from the following figures:

TABLE 14

Year				C	ases notified	Deaths
1950	 	 	 		552	89
1951	 	 	 		756	35
1952	 	 	 		1,305	46
1953	 	 	 		899	46
1954	 	 	 		858	16
1955	 	 	 		431	9
1956	 	 	 		496	4

447

659

442

0

1

1

- 195. Just over 90% of all cases notified during 1959 were from outside the urban protected areas, and of these 72.6% came from the Sai Kung district; 27.1% of the Sai Kung notifications were from the boat population, the remainder being scattered amongst 43 small villages in the district. Of the blood parasites identified, 89.1% were *P. vivax*, 10.2% *P. falciparum*, 0.5% *P. malariae*, and 0.2% mixed infection of *P. vivax* and falciparum. All cases notified from the protected urban areas were fully investigated and not one could be proved to have contracted the infection in the protected zones.
- 196. There was one death recorded as due to malaria and again, as in the previous year, the victim had been the subject of repeated blood transfusions, this time for a malignant condition of the blood.

## Malaria surveys

- 197. Two malaria surveys were carried out, one in the urban protected areas and the other in the border zone in the north of the New Territories between Lo Wu and Sha Tau Kok. The former survey was amongst children between 2 and 14 years of age and was carried out in co-operation with the School Health and Maternal & Child Health Services. Between April and October 1959, 1,744 children aged two to five years were examined; the spleen rate was zero. From April to June 1959, 6,676 school children aged five to fourteen years were also examined and the number with palpable spleens was 18 or 0.27%. In addition 4,033 blood smears were taken from infants under one year of age attending urban Maternal & Child Health centres. All smears were cross checked at the Government Institute of Pathology and all were reported negative for malaria.
- 198. In the border areas 907 children between the ages of two and ten years were investigated in eleven villages of whom 11 or 1.1% had palpable spleens. There were no smears positive for malaria in 1,005 blood smears taken from children under 10 years of age.
- 199. At present, another survey of the incidence of malarial infection in children under 10 years of age in the New Territories is in progress. Blood slides are being taken by the medical staff from all febrile children under 10 attending dispensaries in the New Territories and are being examined at the Government Institute of Pathology. An endeavour will then be made to trace and treat all positive cases thus revealed. The survey is expected to give valuable information as to the prevalence of malaria parasites in the blood of children of this age group and at the same time expose at least some of the cases in which the diagnosis which might have been missed without blood examination. At the same time, as more and more cases are being treated, the reservoir of infection, it is hoped, will diminish.

# Laboratory

200. The Bureau laboratory continued to carry out the routine identification and dissection of mosquitoes and the staining and examination of blood smears collected during the surveys. Field tests were conducted of the efficacy of insecticides and the susceptibility of anophelines to insecticides. Information on tests of insecticide resistance in adult mosquitoes was forwarded to the World Health Organization.

#### SOCIAL HYGIENE

201. The Social Hygiene Service provides free facilities for the diagnosis and treatment of venereal disease and leprosy. It is under the direction of the Senior Social Hygiene Specialist who is also the Government Specialist in Dermatology. The service operates from six centres in the urban districts and four part-time centres in the New Territories; it also maintains the Wan Chai Female Social Hygiene Hospital which contains 30 beds and a female out-patient clinic.

### Venereal Diseases

- 202. During 1959, there was a rise in the number of cases of primary and secondary syphilis and of chancroid, the figure for gonorrhoea was virtually unchanged and that for lymphogranuloma venereum had decreased. This rise in the incidence of syphilis after a period of continuous decline corresponds to experience in many other cities, where the lowest incidence of syphilis was recorded five to six years after the introduction of general penicillin therapy; this introduction took place in Hong Kong 1952/53. The annual incidences and trends of these diseases are shown in Appendix 6.
- 203. No death was recorded from congenital syphilis during the year. In 1950 the number was 29, and it was in that year that free Kahn tests were made available to all pregnant women; in 1953 the Kahn test was replaced by the more sensitive V.D.R.L. and Table 15 shows both the increasing use made of this facility and the declining sero-positive rate amongst the population.

TABLE 15
ANTE-NATAL BLOOD TESTS ON PREGNANT WOMEN

	1953	1954	1955	1956	1957	1958	1959
No. of tests Clinic Hospitals % of Positive Rate	 N/A N/A	20,748 8.5	23,716 4.5	26,803 3.8	27,330 3.5	28,026 3.3	46,932 2.6
No. of tests Private Midwives	 5,255	5,697	5,439	5,464	4,623	5,583	6,269
% of Positive Rate	 7.2	6.0	4.2	3.4	2.7	3.2	2.3

- 204. There has been little change in the incidence of the late cardiovascular or neurological complications of syphilis.
- 205. Penicillin continues to be the first choice for the treatment of syphilis and gonorrhoea, but in the case of syphilis the slightest manifestation of a reaction to the drug is followed by a change to chloramphenicol. One death due to anaphylactic shock occurred in an

elderly female patient following a penicillin-in-oil injection, a preparation which has also caused a few severe reactions and which is now being replaced by an aqueous suspension.

- 206. Since the introduction of penicillin as the standard treatment of gonorrhoea, there has been a gradual rise in the numbers of penicillin-resistant gonoccocci. An interesting feature is that the present high figure in males of 23.7% resistant strains, which is obtained from laboratory results, is not found in clinical practice, there being only a 9% failure rate on the standard dosage of 400,000 units.
- 207. An investigation into the incidence of venereal disease in prostitutes attending the Social Hygiene clinics was made during the year. The following results are of interest.

### TABLE 16

No of Duo	 e attan	dina	No UD		Syphilis		
No. of Pro	t time	aing	No. V.D. found	Gonorrhoea	Early latent	late latent	
1,086	 		692	235	63	96	
Percentage	 		63.8	21.6	5.8	8.8	

208. An increase in the establishment of social hygiene visitors has resulted in a considerable expansion of follow-up activities. In each case defaulting from treatment, the patient is contacted by letter and one-quarter of those so contacted return to continue treatment. Visits are then made to the addresses of those who do not respond, when, more often than not, the address given has been a false one.

# Leprosy

- 209. In 1954 the first clinic for treating leprosy on an out-patient basis was organized and by the end of the year 1959 ten sessions were being held weekly in eight out-patient centres, while four other sessions each week are being held at social hygiene centres in conjunction with other clinics; one session is held monthly at Tsuen Wan. Infectious cases numbering 138 were admitted to the Hei Ling Chau Leprosarium which is maintained by the Hong Kong Auxiliary of the Mission to Lepers, as were also some cases either in reaction or in need of surgical attention. A very close liaison with this institution, which is referred to in paragraph 330 of this report, is maintained by the Social Hygiene Service.
- 210. For routine treatment at the Leprosy Clinics, dapsone is still the drug of choice; the use of diaminodiphenyl sulphoxide which was introduced for selected cases in 1958 has been discontinued following

upon conclusions reached at the W.H.O. seminar held in Tokyo in November, 1958. A clinical trial of ditophal, was commenced in 1959; bi-weekly inunctions of the drug are administered, combined with dapsone either orally or intramuscularly. Preliminary results have been encouraging and ditophal will soon be made available for general use. Diphenyl thiourea is now produced in tablet form and is used in selected cases showing intolerance to dapsone.

- 211. The surgical rehabilitation of patients suffering from deformities and disfigurements has been still further developed in the Maxwell Memorial Hospital at the Hei Ling Chau Leprosarium. Orthopaedic treatment and plastic surgery is also provided in the Government hospitals where a limited number of beds is available for this purpose.
- 212. A review of 500 clinic patients was carried out by the University Orthopaedic Surgeon with a view to determining the number of cases of leprosy in need of surgical rehabilitation. The results are now being analysed and will be a valuable aid to the planning of the further development of the rehabilitation facilities.
- 213. Contact investigations are increasing steadily in numbers and child contacts are vaccinated with B.C.G. It is routine procedure for the home of each new patient to be visited within a month of the diagnosis being made and the contacts requested to attend for examination; they are thereafter examined once every six to twelve months. Defaulting patients and contacts who do not attend for examination are visited and 36% return for treatment and examination; unfortunately many contacts are unwilling to attend after a year as they neither see nor feel any indication of disease.
- 214. The work done by the leprosy Out-patient Service during the past five years is outlined in Table 17.

TABLE 17
LEPROSY OUT-PATIENT SERVICE

				1955	1956	1957	1958	1959
Admission to Clinics				762	751	981	976	767
Lepromatous				170	160	173	160	111
Tuberculoid				198	262	262	214	183
Mixed Type				0	1	1	5	3
Total Attendances				22,012	25,789	31,204	36,338	31,986
Number of Cases Ling Chau	Admitt	ed to	Hei	98	165	132	111	138

## Dermatology

- 215. Patients with skin diseases may attend any of the Social Hygiene Clinics and, in addition, there are six consulting sessions each week, three on Hong Kong Island and three in Kowloon, for cases referred for a specialist opinion. Female in-patients are treated in the Wan Chai Social Hygiene Hospital, while beds for male in-patients are available at the Lai Chi Kok Hospital. The rapid expansion of the Dermatological service can be seen from the fact that 777 new cases were seen during 1951, while in 1959 the figure was 11,046.
- 216. Contact dermatitis, boils, subcutaneous abscesses and eczema continue to be the main diseases encountered. Appendix 7 shows the classification and frequency of the dermatological cases seen. All cases of industrial dermatitis and certain cases of contact dermatitis were notified to the Industrial Health Officer.
- 217. The advent in May of greisofulvin, which has radically altered the treatment of all fungus infections, has been a notable therapeutic advance in this field. The present high cost however limits its general use.

#### DISTRICT MIDWIFERY SERVICES

- 218. The value of skilled attention during childbirth is widely appreciated in Hong Kong and over the past decade an average of 97.94% of the registered live births have been attended by qualified persons. Under the conditions of overcrowding existing, domiciliary midwifery is neither practicable as a general rule nor desirable, and domiciliary deliveries by Government and private midwives have fallen from 15% of the total births attended in 1950 to 6% during 1959. On the other hand the number of maternity beds in institutions throughout the Colony is approaching an adequate level. At the end of 1959 there were 1,498 maternity beds in public and private hospitals, clinics and maternity homes which, at a ratio of 1 bed for every 70 births, indicates that one service at least is not gravely short of beds.
- 219. In the past the Government policy has been to provide institutional care in the urban areas mainly in the maternity hospitals at the new Tsan Yuk and Kowloon General Hospitals. These institutions are however becoming more and more used for difficult or abnormal cases seen at the ante-natal clinics, while normal midwifery is dealt with at maternity homes attached to clinics or in private hospitals and maternity homes. New clinics to be built in the urban areas will now include a maternity home for normal cases where this service is warranted for

the district served. In this way pressure on maternity hospital beds will be eased and services for the uncomplicated case will be sited more conveniently and nearer home.

- 220. There are now fourteen Government maternity homes in clinics in the New Territories, two in the urban areas at the Eastern Maternity and Hung Hom clinics respectively. At 23 centres there are 53 domiciliary midwives available to undertake midwifery in nearby housing schemes and resettlement estates.
- 221. Table 18 sets out the categories of maternity services provided during the period 1950 to 1959 and the proportion of live births where a qualified person—doctor or midwife—was in attendance.

TABLE 18

LIVE BIRTHS 1950/59
according to type of Maternity Service

Type of Service	1950	1955	1959
HOSPITALS  Government Government-Assisted Private	10,333 (20.93)	13,986 (15.45) { 28,272 (31.24) 2,654 ( 2.93)	15,244 (14.58) 34,646 (33.13) 3,152 ( 3.01)
Total Live Births in Hospitals	26,496 (43.72)	44,912 (49.62)	53,042 (50.72)
MATERNITY HOMES { Government	2,576 ( 4.25) 21,226 (35.03)	6,144 ( 6.79) 30,972 (34.22)	9,572 ( 9.15) 34,253 (32.75)
Total Live Births in Maternity Homes	23,802 (39.28)	37,116 (41.01)	43,825 (41.90)
DOMICILIARY { Government	2,558 ( 4.22) 6,949 (11.47)	3,614 ( 3.99) 1,807 ( 2.00)	3,081 ( 2.95) 3,073 ( 2.94)
Total Live Births by Domiciliary Services	9,507 (15.69)	5,421 ( 5.99)	6,154 ( 5.89)
TOTAL LIVE BIRTHS ATTENDED BY QUALIFIED PERSONS	59,805 (98.69) 60,600	87,449 (96.62) 90,511	103,021 (98.51) 104,579

Figures in brackets show the various numbers as a percentage of total live births registered.

- 222. The total number of cases attended by the Government District Midwifery Service during 1959 was 13,427 including still births and cases referred to hospitals. There were 168 still births recorded giving a still birth rate of 12.77 per 1,000 live births. The average annual case load for midwives was 263 compared to 280 during 1958 and the range varied from 52 to 795.
- 223. There is a continuing improvement in the frequency of antenatal attendances and approximately 80% of women attended by Government or private midwives had at least one ante-natal examination; the average number of ante-natal attendance for each case has risen from 3.4 in 1958 to 3.5 in 1959; the percentage of cases delivered without any ante-natal care was 13.44% the relevant figure for the previous year being 16.94%.

- 224. The Supervisor of Midwives who is a Government Medical Officer is responsible for the regular inspection and supervision of registered maternity homes and of the work of domiciliary midwives. Since September 1959 she has been assisted in this aspect of her work by a Health Visitor. There were 891 visits of inspection to the 122 maternity homes in the register during 1959.
- 225. Important aspects of the work are the vaccination of new born babies with B.C.G. and primary vaccinations against Smallpox. Altogether 54.74% of babies delivered by Government and private midwives were given B.C.G.; 81.08% of this cover was given by the Government midwives and 44,025 primary vaccinations were performed.
- 226. Table 19 gives a comparative outline of the development of the service during the past 10 years.

-		-	
	A D		19
	4 13		1 9

	1950	1959
	16	23
	21	51
	45	151
	5,207	13,427
	2,633	10,321
	2,574	3,106
	210	193
	114	122
	379	524
	2	5
	28,512	37,605
	21,489	34,496
	7,023	3,109
	nes mese	
	861	1,565
am-		
	69	128
	1.70	0.73
		16 21 45 5,207 2,633 2,574  210 114 379 2 28,512 21,489 7,023  861 am 69

#### MATERNAL AND CHILD HEALTH

227. In this most important branch of the service the emphasis is on the prevention of disease and on health education. Once disease, exclusive of minor ailments, is detected the individual concerned is referred to the appropriate curative centre. All facilities are provided free and are available at seven full-time and twenty one part-time centres. No new centres were opened during the year but two of the existing centres were moved into more adequate premises. Additional

work undertaken was a regular visit by a Health Visitor to the North Point Relief Camp and, starting in January, 1960, a monthly visit by a M.C.H. team to the British 'Save the Children Fund Nursery' at the Wong Tai Sin Resettlement Estate.

- 228. Ante-natal sessions are held regularly in 28 centres and postnatal sessions in 16 centres. Total attendances at ante-natal sessions numbered 61,891 of which 17,418 were first visits; abnormal conditions were detected in 9.27% of mothers, oedema and hypertension being the commonest defects encountered. The routine chest X-ray, started in 1958, uncovered 2.1% of active tuberculosis in need of treatment. Pregnant women in need of dental care are referred to the Government Dental Clinic.
- 229. Post natal sessions were, on the whole, relatively poorly attended there being 3,530 first attendances out of a total of 4,870. Of those attending 22.15% were in need of some form of treatment, mainly for affections of the cervix, vagina and misplacement of the uterus, in that order. The records suggest that consciousness of some defect is the main cause for attendance and that those women who feel fit do not take advantage of a routine post-natal examination. This is undoubtedly related to economic and family pressures arising from employment or home commitments.
- 230. The infant health sessions for children in the 0-2 years age group and the toddler sessions are very popular. Here health education and immunization sessions are the main activities. There were 399,633 attendances at 13,497 health education sessions when simple talks, film and puppet shows, flannel graph illustrations and practical demonstrations of infant care and child hygiene are given. It is stimulating to see the interest and practical participation of the parents, not infrequently including fathers, on these occasions.
- 231. Immunization against diphtheria, typhoid and tetanus are given as a routine using A.P.T. combined antigen and triple vaccine according to circumstances. All total 20,166 infants received a full course of immunization during the year. Smallpox vaccination is given where necessary and all children not known to have had B.C.G., are tuberculin tested, those who are negative receiving B.C.G. Those who are tuberculin positive but without radiological signs of active disease are given prophylatic INAH for a period of one year.
- 232. Home visiting constitutes one of the major activities and this activity increased by 18% to a total of 46,248 visits.

- 233. The M.C.H. service participates in the undergraduate training of medical students, student health nurses and pupil midwives. In-service training courses are run by the Health Sisters for health visitors and health nurses; courses are maintained for midwives in private practice and classes held for social workers and high school girls. An elementary child care course run by the Social Welfare Department was given a series of lectures on child development and care during June and July, 1959 by M.C.H. staff.
- 234. Food supplements, mainly milk and baby foods, were distributed, according to need, to nursing mothers and infants. UNICEF skimmed milk powder was again generously provided free for all centres; half-cream and full-cream milk is supplied by Government; Heinz Baby Foods and Farley's Rusks were also donated for distribution from the centres.
- 235. It is of interest to record developments during the period 1950 to 1959. During that period, the in-service training of doctors and nurses was started in 1952, UNICEF aid in the form of equipment and skimmed milk powder began in 1953, and WHO assistance with staff was given during 1953 to 1955. The course of training for Health Visitors was inaugurated in 1954.

TABLE 20 M.C.H. DEVELOPMENTS 1950/59

Centres				1950	1959
Full-time		 		3	7
Subsidiary		 		4	17
Staff					
M.O. i/c M.C.	.н	 			1
M.O. i/c Centr	es	 		3	9
Health Sisters		 		_	3
Health Visitors		 		2	34
Health Nurse		 		18	26
Attendances					
Ante-natal	New visits	 	***	-	17,418
	Revisits	 		_	44,473
	Total	 		3,019	61,891
Post-natal	New Visits	 		-	3,530
	Revisits	 		-	1,340
	Total	 		-	4,870
Infant Health	New Visits	 		9,551	28,227
	Revisits	 		105,889	299,671
	Total	 		115,440	327,898
Infant Mortality	Rate	 		99.6	48.3

#### SCHOOL HEALTH

- 236. During the year the Report of the Working Party, set up by Government in 1955 to examine the problem of providing a comprehensive school health service, was submitted to Government. Pending the submission and study of this report, particularly the degree of implementation the Colony can afford, the scope of the curative aspect of the school health service has been 'frozen' at the 1955 level.
- 237. Broadly speaking there are two aspects to the Service. The first is the control of environmental sanitation and communicable disease as a general public health measure applied to the Government and Government subsidized schools. This aspect of the work continues and, in addition, aid is given when requested for the control of communicable disease in any registered school. During the year, effort was concentrated on raising the level of immunity to diphtheria and typhoid and the results were more satisfactory than any previously recorded.
- 238. The problem of providing personal curative services however has been seriously aggravated by the very sharp increase in the size of the population of school age. These services were available on a voluntary fee paying basis to all pupils in Government schools from 1946 onwards; during 1951 and 1952 children in private schools and grant-in-aid schools respectively were included in the scheme. The facilities offered were routine medical examinations at fixed intervals, the treatment of ailments, the correction of physical defects and specialist attention, including dental and ophthalmic treatment with the provision of spectacles at a subsidized price. The tremendous demand for voluntary participation however suddenly swamped the facilities available and in 1955 the scheme therefore had to be frozen, if staff and funds were not to be diverted to the grave detriment of the essential general curative services provided by Government.
- 239. During 1959 the total participants in the scheme dropped to 26,342 and there has been little more than the maintenance of routine activities as far as the personal services are concerned.
- 240. One event of considerable importance was the pre-fluoridation dental survey carried out on 10,000 school children during February and March 1960. Dental examinations were carried out on these children in the age groups of 6 to 8 and 9 to 11 in 46 different schools. Further reference is made to the School Dental Service in paragraphs 355 to 359.

TABLE 21

STATISTICAL SUMMARY OF DENTAL TREATMENT CARRIED OUT DURING 1958 & 1959 IN THE SCHOOL DENTAL SERVICE

No. of Sch. Child. rendered fit	783	1,788	592	554	727	1,425	2,102	3,767
Prophy- lactic	351	1.068	523	662	462	106	1,336	2,631
Conservative Dressings Perm. Decid.	1,051 169 Total = 1,220	1,531 235 Total = 1,766	151 237 Total= 388	228 315 Total= 543	432 95 Total = 527	387 44 Total= 431	1,634 501 Total = 2,135	2,146 594 Total = 2,730
Fillings Perm. Decid.	6,237 434 Total = 6,671	11,089 907 Total = 11,996	1,610 955 Total = 2,565	1,393 990 Total= 2,383	4,510 328 Total = 4,838	4,233 351 Total = 4,584	12,357 1,717 Total = 14,074	16,715 2,248 Total = 18,963
Other Surgical Operations	59	10	Z	И	13	9	27	18
Extractions Perm. Decid.	2,244 9,407 Total = 11,651	1,958 8,596 Total = 10,554	108 1,778 Total = 1,886	84 1,590 Total = 1,674	304 1,389 Total = 1,691	534 1.076 Total = 1,610	2,656 12,574 Total = 15,230	2,576 11,262 Total = 13,838
Visits	23,737	24,100	3,588	3,260	7,014	7,810	34,339	35,170
No. of Sch. Child. found to require treatment	6,254	3,594	2,082	2,533	4,870	3,318	13,206	9,445
No. of School Child. dentally examined	6.819	4,886	3,175	3,343	6,442	4,851	16,436	13,080
Type of Schools	1958	s   1959	, 1958	imary 8 1959	9261 )	s (1959	1958	959
Туре	Government &	Schools	Hennessy Road &	Hill Primary Schools	Private &	Schools	i i	Lotals

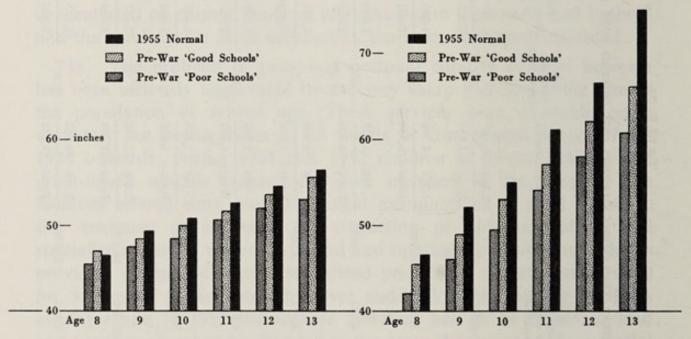
- 241. Sanitary inspections and health education activities were maintained at the same level as the previous year. Table 21 sets out a comparative statement of the work done in 1958 and 1959 by the Dental Service.
- 242. It is of interest to record the improvement in heights and weights amongst school children in 1955 compared to those at school in pre-war years. These figures which have only recently come to light are illustrated in graphic form in Figures 4 and 5.

# FIGURE 4 Average Height of Hong Kong Schoolchildren 1940 & 1955

## FIGURE 5

Average Weight of Hong Kong Schoolchildren 1940 & 1955

80 - lbs.



'Good Schools'

refer to nutritional status amongst fee paying pupils from higher income groups.

'Poor Schools'

refer to nutritional status amongst pupils from the lower income groups who paid either nominal or no fees.

#### INDUSTRIAL HEALTH

243. The rapid expansion of industry in Hong Kong during the last ten years has created a number of new health problems. The health of workers in factories and in other industrial undertakings is the statutory responsibility of the Commissioner of Labour. In October, 1954, a start was made towards the organization of an Industrial Health

Section by the secondment of a specially-trained Medical Officer to the Labour Department. Since then, the Industrial Health Section has expanded and its work now covers most aspects of the problem in the Colony. Investigations are made into the working environments of the trades known to be hazardous to health, first aid facilities in factories have been developed and the medical supervision of workers in certain dangerous trades such as those dealing with lead or radio-active powders has been instituted, while two Health Visitors carry out individual case work on injured persons claiming compensation under the Workmen's Compensation Ordinance.

- 244. During the year, one more occupational disease came to light, namely "brassfounder's ague"; the disease is caused by exposure to zinc fumes and its effect, though unpleasant, is only temporary.
- 245. With the co-operation of private practitioners and Government Medical Officers, cases of silicosis and industrial dermatitis are notified to the Industrial Health Section, while surveys of the environmental working conditions in quarries and stone grinding factories continue and further X-ray surveys have been carried out on quarry workers. A clinical survey has also been conducted on all bitumen workers in one of the Government quarries; no sign of skin reactions to bitumen was observed.
- 246. The serious effects of over-exposure to certain insecticides have caused world wide concern; consequently workers in the Pest Control Unit of the Urban Services Department and officers of the Department of Agriculture, Fisheries, and Forestry working in close contact with these insecticides were medically examined and blood cholinesterase estimations were carried out. No evidence of any toxic effect was recorded.
- 247. Lectures are given on Industrial Health to probationer Labour Inspectors, Health Visitors, and Medical Students of the Hong Kong University. The Industrial Health Officer also took part in a course of Industrial Relations organized by the Labour Department, giving lectures on certain physiological and psychological aspects of industrialization.

#### HEALTH EDUCATION

248. A better appreciation by the Colony's population of the basic principles of hygiene and preventive medicine continues to be the main

health objective. A very wide field is covered by many branches of the Medical & Health Department while certain other departments are also concerned with various aspects of the subject in their respective spheres. Pooling of experience and co-ordination of effort are obvious necessities and so an Inter-departmental Committee on Health Education has been created. This committee, to which reference has previously been made in connexion with the anti-diphtheria campaign, consists of representatives from the Departments of Education, Labour, Urban Services, Information Services, and Resettlement, and from the Secretariat for Chinese Affairs and the District Administration, New Territories, under the chairmanship of the Assistant Director of Health Services.

- 249. All available methods are used in the various health education programmes undertaken by the Department with varying success. Programmes based on methods designed for individual or group education have in general proved satisfactory, being used with success by the Maternal and Child Health Service, the Tuberculosis Service, the School Health Service and the Social Hygiene Service. On the other hand, mass campaigns directed towards widespread utilization of the facilities offered for prophylactic immunization against certain diseases are given a somewhat apathetic reception and have to be supplemented, as has been described in paragraph 96 on diphtheria, by various measures designed to make such prophylaxis available as close to the home as possible.
- 250. The co-operation of all voluntary bodies interested in health topics is actively encouraged, and during the year talks on such matters were given by members of the Department to Kaifong Associations, Welfare Societies, and similar organizations.

## IV. THE WORK OF THE MEDICAL DIVISION

#### HOSPITALS

251. During the next five years the programme of hospital construction by Government, by the Tung Wah Hospitals Board of Directors, and by missionary bodies will result in seven new hospitals accommodating 3,872 beds. In addition, extensions to existing hospitals will add a further 318 beds to this total. The details in Table 22 give an indication of the phasing of this building programme which is estimated to cost \$135,637,000 of which \$124,537,000 will be from public funds.

#### TABLE 22

New construction		1960	1961	1962	1963	1964
Queen Elizabeth Hospit	al				1,320	
Kwong Wah Hospital				1,230		
Canossan Hospital		 203				
*Castle Peak Hospital		 1,000				
Maryknoll Hospital			50			
Lutheran Hospital		 52				
South Lantao Hospital		 17				
Extensions						
Kowloon Hospital		 68				
Pok Oi Hospital		 50				
†Queen Mary Hospital						200

- \* Mental Hospital.
- † Approved in principle but construction not started.
- 252. To staff this number of beds over a period of five years is an undertaking of considerable magnitude and a programme for the training of doctors and nurses has been under way for some time. Trained nursing staff is likely to be the limiting factor and therefore priority in the construction of teaching and residential accommodation has been essential. A School of Nursing for the Tung Wah Group of Hospitals was opened in January 1960 and work on the Queen Elizabeth Hospital School of Nursing is well advanced. This latter School with residential accommodation for 562 sisters, staff nurses and student nurses will be opened in September 1960. At the Castle Peak Mental Hospital a course of training in Mental Nursing will start towards the end of 1960 but meantime there has been an intake of student mental nurses to the existing Victoria Mental Hospital, using the Queen Mary Hospital Preliminary Training School facilities for this part of the course.
- 253. At the Kowloon Hospital a new block containing two operating suites each with two theatres and two surgical wards of 34 beds each will be put into use in April, 1960. The pressure on the Kowloon Hospital surgical beds has been such that the theatre facilities were totally inadequate to deal with the emergency surgery let alone other essential operative work. Therefore this new surgical block, which can be used for thoracic surgery when Kowloon Hospital becomes a tuberculosis hospital, has been built to give some relief, pending the completion of the Queen Elizabeth Hospital.
- 254. The pressure on the Maternity Wards has also been acute and a temporary ward of 36 beds was completed and opened in September, 1959.

- 255. Phase II of the re-development of the Kwong Wah Hospital was almost completed by the end of the year. This includes the School of Nursing and the East wing which will accommodate 437 beds. The Canossa Hospital of 203 beds, which will replace the original hospital of this name destroyed during the Occupation, will be opened in April 1960. Work on the site of the Maryknoll Hospital at Wong Tai Sin is now under way.
- 256. In the New Territories the Lutheran Hospital of 52 beds at Fanling, built from funds donated by the Jockey Club, was opened by H.E. the Governor in March 1960. A cottage hospital of 17 beds at Cheung Sha, South Lantau is nearing completion and will serve the Shek Pik Water Development Scheme staff as well as the local villagers. At Pok Oi Hospital work on an extension of 50 beds is now well under way.
- 257. At the end of March 1960 there were 31 civil hospitals in the Colony of which 12 are wholly maintained by Government; 10 are managed by voluntary or missionary bodies which receive recurrent subventions from public funds. There are 9 private hospitals and 5 nursing homes. Details of the accommodation provided are at Appendix 5. An analysis of the work done at the Government and Government assisted hospitals is at Appendices 8 & 9.

# Queen Mary Hospital

- 258. This, the largest of the Government Hospitals, is an acute hospital and also the main specialist centre for the Colony. It is the teaching hospital for the Medical Faculty of the University of Hong Kong and the main Government centre for the training of nurses.
- 259. Of the hospital's 601 beds, 234 are allocated to the University Departments of Medicine, Surgery, Obstetrics and Gynaecology. The Professor and the staff of the respective Departments provide the clinical care of the patients admitted to these wards. Within the Department of Surgery is an Orthopaedic and Traumatic Surgical Unit, headed by the Senior Lecturer in Orthopaedic Surgery. As from April 1st 1959 the University Department of Pathology assumed complete responsibility for all clinical pathology in the hospital, except for chemical analyses which are still performed by the Government Chemist and for forensic pathology. There is also a combined University and Government Paediatric Unit of 29 beds headed by the Senior Lecturer in Pediatrics of the University Department of Medicine. The remaining 336 beds are allocated to the Government clinical units in general surgery, medicine,

radiology, thoracic surgery, neurosurgery, tuberculosis and otorhinolaryngology, each unit being headed by a Government Specialist; in addition a limited number of beds are available for ophthalmology, dermatology and midwifery.

- 260. The administration of the hospital is the responsibility of the Medical Superintendent, who is a Principal Medical Officer of the Department, and who is assisted by a lay Hospital Secretary. Radiological services, including radio-therapy, anaesthetic services, all nursing care, medical social work, physiotherapy, occupational therapy, pharmacy and hospital supplies are maintained by Government.
- 261. The Government Medical Unit conducts three specialist outpatient sessions each week at the Violet Peel Polyclinic and weekly specialist clinics at both Shau Kei Wan Dispensary and St. John Hospital on the island of Cheung Chau. Research into hypertension and renal disease, clinical trials of hypotensive drugs and studies of new investigatory techniques have been continued throughout the year. The treatment of the withdrawal symptoms in heroin addiction by using meprobamate only and electromyography in muscular and neuromuscular diseases have been other clinical research activities.
- 262. In the field of thoracic surgery, the number of cases of bronchogenic carcinoma seen in the Government Thoracic Surgical Unit is increasing; in most of the patients the disease is far advanced and in only 18% was a successful resection possible. Cardiac surgery is at present limited to closed heart operations.
- 263. The resignation of the Neurosurgical Specialist in September, 1959, has restricted the scope of the Government Neurosurgical Unit temporarily to the treatment of traumatic neurosurgical cases only.
- 264. The staff of the Pediatric Unit conduct regular outpatient clinics at the Sai Ying Pun Outpatients Department and, in addition, hold three clinic sessions a week at Queen Mary Hospital, one for nephritic cases, one for haematological and cardiac cases and the third for the follow-up of cases presenting unusual clinical features.
- 265. The scope of the Government General Surgical Unit remains limited by the great pressure on beds and emergency surgery has perforce to take priority. Surgical clinics are held regularly each week at the Violet Peel Polyclinic by the Specialist and his staff but, owing to pressure of emergency work, waiting lists for elective surgery are increasing.

- 266. There is no outpatient department at the Queen Mary Hospital but the Casualty Department, which was opened late in 1956, is the only public casualty centre on Hong Kong Island with the requisite emergency specialist cover. The Casualty Department thus receives most of the traumatic, emergency and forensic cases arising in a densely populated area of over one million inhabitants.
- 267. Table 23 gives some indication of the increasing pressure on the facilities at the Queen Mary Hospital over the past ten years, the bed state during that time increasing from 576 beds in 1950 to 601 beds in 1959.

#### TABLE 23

	1950	1955	1958	1959
Inpatients treated	9,819	12,516	14,439	14,620
Operations performed	4,663	6,895	7,230	7,212
First attendances at Casualty	(No rec	ord)	26,828	29,838

## Kowloon Hospital

- 268. This is the main acute hospital for Kowloon and the New Territories and the Casualty Centre for that area. At the end of March 1960 there were 407 beds providing the general casualty and emergency cover for a population of approximately 1,700,000 persons. The hospital is staffed and maintained by Government and there are general medical, including paediatrics, general surgical, orthopaedic and traumatic, midwifery and gynaecology and anaesthetic units all headed by Specialists. The Hospital is also a training school for nurses and midwives.
- 269. The appointment of an Orthopaedic Specialist early in 1959 made it possible to establish a much needed Orthopaedic Traumatic Unit to deal with the greatly increased number of accidents brought to the Casualty Department. All fractures and injuries needing orthopaedic care, either on an in-patient or out-patient basis, are cared for by this Unit. The general surgical wards have at the same time been able to concentrate on the treatment of acute head injuries and of serious injuries to the soft tissues such as burns and ruptured viscera.
- 270. During the year a special investigation into the cases of trauma admitted to the wards revealed that the majority of accidents are caused by objects falling from a height—an interesting and not unexpected finding in a densely populated urban area becoming highly industrialized and with many multi-storey buildings. During 1958 and 1959 respectively 1,025 and 1,538 persons were injured in this way. Traffic accidents were next in frequency accounting for 964 casualties and 62 deaths during

- 1959. Then burns and scalds accounted for 392 admissions, the majority of whom were children residing in squatter settlements.
- 271. During the year the Orthopaedic traumatic unit admitted 1,483 patients and carried out 1,182 operations of which 1,035 were major operations.
- 272. An indication of the pressure on the Kowloon Hospital is given in an analysis below of the work carried out during the past 10 years. In 1950 there were 179 beds in the hospital; to-day there are 407. There were 4,559 general in-patients treated during 1950 and 13,242 during 1959. During that time the overall mortality rate has fallen from 8.7% in 1950 to 6.4% in 1959. This should be viewed in the light of the acute nature of the work undertaken and the very many seriously ill patients admitted. Table 24 indicates on a percentage basis the increase in the work carried out during the 10 year period.

#### TABLE 24

### KOWLOON HOSPITAL 1950/59

		1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Maternity Cases	 	100	147	172	154	167	172	169	171	207	218
General In-patients (excluding maternity)	 	100	112	125	124	141	145	154	170	232	288
Out-patients Attendances (including casualty)	 	100	251	284	265	222	224	213	261	268	256
Operations (excluding minor)	 	100	133	149	159	169	184	204	216	252	291

The returns for 1950 are taken as 100%.

- 273. A number of specialist sessions are held by the staff of Kowloon Hospital at the Out-patient department and at certain outlying clinics. Owing to the limitation of beds the medical and paediatric unit particularly has had to expand its activities mainly in the realm of outpatient care. During the year specialist clinic sessions were started at Shek Kip Mei, Tsuen Wan, Tai Po and Tai O.
- 274. The large general out-patient department adjacent to the Kowloon Hospital which includes the hospital casualty department dealt with 532,492 out-patient attendances during the year. The Casualty Department attended to an average of 196 emergency and accident cases every 24 hours throughout the year.

# Lai Chi Kok Hospital

275. This hospital, built on two levels, is accommodated in buildings which were formerly a prison camp and it performs three functions; it accommodates all cases of infectious disease requiring admission to

hospital which occur on the mainland part of the Colony; it serves as a convalescent unit for Queen Mary and Kowloon Hospitals; and it accommodates a number of tuberculosis patients. The expansion of Kowloon, the increasing pressure on the two main acute hospitals, and the re-arrangement of the facilities for the hospital treatment of tuberculosis can be seen from the changing number of beds allocated to each of these units shown in Table 25.

TABLE 25
BED ALLOCATIONS IN LAI CHI KOK HOSPITAL 1950/59

				1950	1955	1959
Infectious Di	seases	 		88	94	120
Convalescent	Cases	 		180	180	267
Tuberculosis		 	10	202	208	88
	Total	 		470	482	475

- 276. The unusually heavy incidence of diphtheria in the latter part of the year threw a great strain on the infectious diseases unit, and in December 144 beds were re-allocated to deal with the number of cases of diphtheria requiring admission; by the end of March, 1960, 57 of these beds had been returned to the tuberculosis unit.
- 277. The case mortality rate of 6.6% for diphtheria was the lowest ever recorded, the cause of death being either overwhelming toxaemia or 'late' bronchopneumonia not responding to the 'various antibiotics administered. A few reactions to antitoxin occurred and these responded well to adrenaline and antihistamine drugs. Over 90% of the children admitted with diphtheria had received no immunization, and of the remainder most had only received one injection of toxoid.
- 278. During the summer months there was, as is usual, a marked increase in the number of typhoid cases admitted. Only one death occurred, underlining the dramatic change which has taken place during the last ten years in the prognosis of this disease resulting from the introduction of chloramphenicol for routine treatment.
- 279. Bronchopneumonia accounted for a case mortality rate of 34.3% amongst children admitted with measles; many such patients are in extremis when they arrive and, while some respond well to antibiotics, others are too ill for treatment to have any effect. Tetanus showed a 48.8% case mortality; this high figure was due to the high proportion of tetanus neonatorum. Other infectious diseases seen were

tuberculosis meningitis, amoebic and bacillary dysenteries, encephalitis, and poliomyelitis.

- 280. For the convalescent and tuberculosis patients both physiotherapy and occupational therapy are provided on a full-time basis, while the Hong Kong Branch of the British Red Cross maintains a school for long-term child patients.
- 281. Owing to the increasing pressure on beds in Kowloon Hospital, the convalescent unit is having to admit more and more acute conditions, such as threatened abortions and appendicular abscesses not in need of immediate surgical treatment and the term 'convalescent unit' is now to a great extent a misnomer.

## Tsan Yuk Maternity Hospital

- 282. This is the main obstetric hospital in the Colony. Built and equipped from funds donated by the Hong Kong Jockey Club, this modern institution of 200 beds was opened in 1955, replacing the Old Tsan Yuk Hospital of 85 beds. It is maintained by Government, which also provides the Medical Superintendent, resident house officers and nursing and administrative staff. Clinical work in the wards is the responsibility of the Professor of Obstetrics and Gynaecology in the University of Hong Kong assisted by members of the University Unit and some Government Medical Officers. All tuition of medical students in obstetrics is conducted here, and Tsan Yuk is also the Colony's main training centre for midwives undertaking the two year course conducted in Cantonese; refresher courses are also held from time to time for the benefit of practising midwives.
- 283. Ante-natal, post-natal and infant welfare clinics are held regularly. In addition, there is a special clinic for medical conditions complicating pregnancy, a social hygiene clinic for venereal diseases, and a Family Planning Clinic staffed and run by the Family Planning Association of Hong Kong. All three of these clinics are held once or twice each week.
- 284. Owing to the demand for institutional midwifery, it has become necessary to limit routine admissions to cases registered in the antenatal clinics and these formed 95.5% of the 8,196 admissions during 1959. These in turn were restricted as far as possible to primipara, to women with a previous history of abnormal pregnancy or labour, to

'grand' multigravidae or to referred cases requiring specialist care. Cases not falling into these categories were referred to maternity homes or hospitals dealing with normal cases. The 'non-booked' cases admitted were suffering from complications of pregnancy or of labour and were referred by practising midwives, private practitioners, the Tung Wah group of hospitals and the Government midwifery service.

285. With the great rise in the number of births in the Colony during the last ten years and the greatly improved facilities in this specialized hospital, the proportion of operative deliveries has shown a marked increase. As can be seen from Table 26 this has resulted in a lowering of the still-birth and neo-natal mortality rates; the rise in the maternal mortality rate during 1959 does not reflect increased post-operative risks as five of the six deaths recorded were due to medical conditions complicating pregnancy.

TABLE 26
WORK OF THE TSAN YUK HOSPITAL 1950/59

	1950	1959
Hospital beds	85	200
Total number of admissions	5,380	8,196
Total number of deliveries	5,085	7,440
Still-birth rate (per 1,000 total births)	23.20	13.97
Neo-natal mortality rate (per 1,000 live births)	17.31	14.31
Maternal mortality rate (per 1,000 total births)	0.39	0.80
Percentage operative deliveries	2.73	14.12

286. In addition to a hospital laboratory for routine clinical pathology investigations, there is a research laboratory which is staffed by members of the University of Hong Kong. Projects undertaken by the latter during the year were studies of blood groups in multiple pregnancies, serological factors in cases of still-birth and hydrops foetalis, haematological values in primipara and multipara, and serum protein changes in pregnancy.

# Mental Hospital

- 287. During February 1960 a further block containing 120 beds was completed at the new Castle Peak Hospital with the result that, at the end of March 1960, 230 patients were accommodated at Castle Peak. This new hospital of 1,000 beds is expected to be ready by the end of 1960.
- 288. In the meantime the Victoria Mental Hospital continued to be housed in two old and unsuitable buildings situated in a congested

part of the City. Originally designed to accommodate 140 patients, this institution housed during 1959 a daily average of 428.7 patients, as opposed to 156.4 in 1950. There was also an average of 266.3 patients a day on parole. Due to this great pressure on space, arrangements had to be made during the year to increase the accommodation. These arrangements consisted of temporary extensions to the Male Block, the erection of temporary buildings in the grounds, the enclosure of verandahs and an enlargement of the hospital kitchen.

- 289. Despite such unfavourable conditions the most modern methods of diagnosis and treatment are available to both in-patients and out-patients. During 1959, a standard electroencephalograph machine was installed, regular anaesthetic assistance became available for the introduction of scoline-pentothal E.C.T., and weekly group psychotherapy sessions were commenced. All orthodox physical methods of treatment were employed including leucotomy. Later in the year difficulty was encountered due to the loss of the services of a neuro-surgeon, a loss which also affected the diagnosis of obscure organic cases.
- 290. Chlorpromazine is still used to a great extent but several other tranquillizers have been used on a trial basis. Towards the end of the year a supply of the monoamine-oxidase inhibitors became available and were employed in the treatment of depressive states. Owing to pressure on facilities for treatment, no controlled therapeutic trials of the various drugs in use were possible.
- 291. Important expansion in the work of the Mental Health Service took place during the year. This was reflected not only in the recruitment of younger doctors interested in psychiatry, but also in the intensification of both undergraduate and post-graduate training, including monthly clinical meetings which attracted interest from members of the profession outside the Department. From the legal aspect, important innovations were the posting of a psychiatrist to the Prisons Department, assistance in the detailed planning of a 'Prisons Department Mental Hospital' and advice on the preparation of a draft Mental Health Ordinance.
- 292. The impending transfer to Castle Peak Hospital will end an era. It seems appropriate, therefore, to review the advances made over the past decade. The increase in in-patient treatment has already received comment, but the added burden imposed by rapid expansion

of outpatient treatment can be visualized from the following figures of out-patient attendances:

						1950	1955	1959
New	cases		949	***	)		583	752
Old	cases				}	306	1,081	5,205
Atter	ndances	of disc	charged	l in-pat	ients		723	449
			Tota	al		306	2,387	6,406

293. It is, however, in the administrative aspects of psychiatric treatment that the main advances have been made. Voluntary treatment became legal during 1950, and the number of patients taking advantage of this has risen from 8 in that year to 1,343 during 1959. Treatment on an informal day basis was introduced in 1953, but the number of patients so treated has remained small due to limited accommodation and to the inability of many cases to make the daily journey to and from the hospital. Since 1956 a liberal policy with regard to patients' visitors has been in force; visiting times have been more flexible; children have been allowed to enter wards; and, on occasions, relatives or friends have been able to stay overnight with patients. Finally, during 1959, certain of the temporary wards have been run as 'open wards', while the chronic wards in Castle Peak Hospital were also conducted in a liberal fashion with patients taking part in field trips and visits of interest. Unfortunately, a true trial of the 'open ward' system cannot be attempted due to the presence of a certain number of criminal lunatics who cannot be accommodated elsewhere until a Prison Mental Hospital is available.

# Sai Ying Pun Hospital

- 294. This hospital on Hong Kong Island, with a nominal capacity of 88 beds, is used entirely for the treatment of cases of infectious diseases. There is a wide seasonal fluctuation in the demands on the accommodation and as many as 163 in-patients may be in hospital at peak periods.
- 295. During the year there were 563 admissions for diphtheria with 28 deaths, 179 cases of typhoid with 1 death and 167 cases of bacillary dysentry. Cases of infective hepatitis, scarlet fever and streptococcal infections of the throat are becoming more and more common, as is rheumatic fever. Altogether there were 1,548 admissions during 1959 compared to 1,617 the previous year.

296. The level of morbidity of infectious diseases treated in Sai Ying Pun has not altered materially during the past decade. Mortality rates, however, have declined markedly.

TABLE 27
CASE MORTALITY RATES 1950/59

		1950	1959
Diphtheria	 	 25.1%	4.9%
Typhoid Fever	 	 10.0%	0.5%
Tetanus neonatorum	 	 100.0%	52.9%
Whooping cough	 	 12.1%	Nil
Tuberculosis meningitis	 	 92.0%	44.0%

(Mortality expressed in percentage of cases admitted).

These improvements are attributed to the use of modern chemotherapeutic and antibiotic agents in addition to the more widespread use of immunizing agents, even though the latter have not been given according to the recommended schedules, due to lack of parental cooperation. On the other hand there has been a considerable emergence of strains of pathogens resistant to the suphonamides and the commoner antibiotics. For example there is an increasing number of cases of staphylococcal gastro-enteritis. In addition to numerous cases of sulphonamide resistant bacillary dysentry, there were thirty cases of chloramphenicol resistance and three cases of terramycin resistance. Nevertheless the reduction in mortality rates in the major infectious diseases has been encouraging.

- 297. The Medical Officer in charge of the Infectious Diseases Hospital assists with the training of medical students and is part-time lecturer in infectious diseases at the University. He is also responsible for the general supervision of the out-patient work at the associated Sai Ying Pun Out-Patients Department, now temporarily accommodated at the old Tsan Yuk Hospital. This is one of the busiest institutions in the Colony and there were 241,091 out-patient attendances in 1959 compared to 232,760 in 1958. This is the out-patient teaching centre for medical students and the University clinical units in the Queen Mary Hospital hold regular out-patient sessions here.
- 298. The new Sai Ying Pun Polyclinic built with funds donated by the Jockey Club is now nearing completion and will be opened in July 1960. This nine-storey building will give enhanced and up-to-date facilities serving the very densely populated western district of the Island and will include a major full-time chest clinic.

## St. John Hospital

- 299. This hospital, situated on the island of Cheung Chau, is the property of the St. John Ambulance Association and Brigade, but since the war, by agreement, it has been staffed and maintained by Government. It not only offers in-patient and out-patient facilities to Cheung Chau's population but also serves as a base hospital for the floating clinic covering the Colony's south western waters and a convenient centre for various specialist clinics—medical, tuberculosis, ophthalmic, social hygiene, maternal and child health and dental. Patients requiring major surgical procedures or other specialist in-patient treatment are transferred to the appropriate hospitals on Hong Kong Island. In addition to the general facilities, there is a 42-bed unit for the accommodation of patients convalescing from pulmonary tuberculosis.
- 300. There were 2,085 in-patients treated during the year of whom 87 were transferred to hospitals in Hong Kong. There were 59,628 outpatient first attendances. The comparative figures for 1958 inpatients and outpatients were 2,212 and 56,870 respectively.

## Prison Hospitals

- 301. Hospitals are maintained at the Stanley Male Prison, the Victoria Remand Prison, the Lai Chi Kok Female Prison, and the Tai Lam Centre for the treatment and rehabilitation of drug addicts.
- 302. At Stanley Prison there is a hospital of 82 beds for the accommodation of prisoners who require treatment for conditions that do not warrant transfer to another hospital. The bulk of the cases treated are suffering from the effects of drug addiction, from various minor psychiatric disturbances and from tuberculosis.
- 303. An important step in the development of psychiatric services was the secondment to the Prisons Department of a Psychiatrist, in November, 1959. This Psychiatrist attends to remand prisoners awaiting trial in the Victoria Remand Prison and pays regular visits to the Stanley Prison and the various Training Centres to advise on the numerous psychiatric and personality problems encountered amongst prisoners, particularly in relation to drug addiction.
- 304. At the Remand Prison in Victoria there is a small ward of eight beds for the treatment of acute illness. The duration of stay in the Remand Prison is necessarily short but there are a number of cases of acute illness, particularly amongst drug addicts suffering from withdrawal symptoms, which have to be treated in this ward.

- 305. The effects of drug addiction amongst convicted prisoners is a major problem in H.M. Prisons and medical treatment during the period of withdrawal is followed by rehabilitation through routine occupation in prison workshops. The specialized prison for the treatment and rehabilitation of convicted male drug addicts maintained at Tai Lam Chung has given encouraging immediate results and it is striking to see the physical and psychological improvement which takes place within a relatively short period of weeks. However it is too early yet to gain any assessment of the relapse rate after discharge.
- 306. The female prison at Lai Chi Kok maintains a small hospital of ten beds under the supervision of the Medical Officer in charge of the Lai Chi Kok Hospital. Any cases of major illness are transferred to the custodial ward in the Kowloon Hospital.

## Wan Chai Social Hygiene Hospital

- 307. This small 30-bed hospital was originally intended for the inpatient treatment of venereal disease amongst women and children. However, modern methods of treatment have reduced the importance of this aspect of the work and the tendency is for this institution to become a centre for the treatment of patients with acute skin disease who are now being admitted more and more frequently.
- 308. There is a busy out-patient department for the treatment of women suffering from venereal disease and a large number of examinations of known contacts are carried out every year.

#### GOVERNMENT ASSISTED HOSPITALS

# The Alice Ho Miu Ling Nethersole Hospital

309. This hospital, operated by the London Missionary Society, offers general medical, surgical and maternity care. There are 287 beds including a modern maternity section of 80 beds. There is also a large out-patient department. The hospital caters for all classes of patients but the major part of the work is amongst the poor. This valuable contribution towards the Colony's medical services is supported by a substantial annual subvention from Government funds. In spite of staffing difficulties encountered during the year, 6,941 in-patients were treated and there were 63,785 out-patient attendances.

## Tung Wah Group of Hospitals

310. Established 90 years ago, the Tung Wah is a charitable organization providing medical care, primary school education and

various welfare services for the poor. It is managed by a Board of Directors who are elected annually and who raise large sums of money for charitable purposes. A considerable proportion of the money raised is devoted to the maintenance of the three hospitals controlled by the group, namely the Tung Wah and the Tung Wah Eastern Hospitals situated on Hong Kong Island, and the Kwong Wah Hospital in Kowloon. The remainder of the expenses incurred by these hospitals are met by a large annual subvention from Government.

- 311. The work of the hospitals is subject to the general direction of the Tung Wah Hospitals' Medical Committee, which under the Chairmanship of the Director of Medical and Health Services, consists of the Chairman and Principal Directors of the Tung Wah, two members of the Tung Wah Hospital Advisory Board, the Medical Superintendents of the three Hospitals and the Deputy Financial Secretary (Finance). The Medical Superintendents are Government Medical Officers on secondment.
- 312. All three hospitals maintain large and very busy out-patient departments, but do not normally accept casualties. The general medical and surgical wards provide, in addition to care and treatment of many acute cases, much needed accommodation for those suffering from chronic illnesses requiring prolonged hospitalization. Two infirmaries are maintained for the care of persons suffering from incurable diseases.
- 313. Consultant services are provided, mainly by specialists in private practice whose services are given voluntarily; certain Government Specialists also act as consultants to hospitals within the Tung Wah Group.
- 314. The important part that the Tung Wah Hospitals play in the medical services of the Colony can be seen from the following table:

TABLE 28
WORK OF THE TUNG WAH GROUP OF HOSPITALS, 1959

		Beds	Total in-patients admitted	Total out-patient attendances
Kwong Wah	 	659	42,380	285,773
Tung Wah	 	652	13,139	113,535
Tung Wah Eastern	 	336	8,245	170,527
Total	 	1,647	63,764	569,835

- 315. The maternity wards of these three hospitals which give a free service are the busiest in the Colony. Approximately one third of all births registered take place in these wards. At the Kwong Wah Hospital 22,698 births took place during 1959, an average of 58 births each day.
- 316. At the end of the year, Phase II of the Kwong Wah Hospital Re-development Scheme was nearing completion. The Nurses' Training School was opened by the Director of Medical and Health Services in January, 1960, while the opening ceremony for the Nurses' Quarters was performed at the end of March, 1960, by the Secretary for Chinese Affairs.

## Pok Oi Hospital

- 317. This hospital, situated near Yuen Long in the New Territories, is a charitable institution of 50 beds. It is maintained by a Board of Directors and is largely supported by charitable donations augmented by an annual Government subvention. Originally, hospital treatment was mainly by traditional Chinese herbal medicines, but these have now been largely replaced by Western medicines.
- 318. An extension to the hospital, expected to be completed by July, 1960, will increase the number of beds to 100. The cost of this extension has been met partly by subscriptions from the public and the Directors and partly by a capital grant from Government.
- 319. During 1959, a number of administrative changes were made. The general administration of the hospital is now under an Executive Committee comprising 6 representatives of the Board of Directors and 6 representatives of Government. At the same time, a Government Medical Officer has been seconded to the hospital to act as Medical Superintendent; this officer is responsible for the day-to-day running of the hospital and also acts as a liaison between unofficial and official members of the Executive Committee.

## Hei Ling Chau Leprosarium.

320. Maintained by the Mission to Lepers Hong Kong Auxiliary with the aid of a substantial recurrent subvention from Government, the Leprosarium is situated on the island of Hei Ling Chau which lies off the east coast of Lantau Island. It provides hostel accommodation for up to 540 leprosy patients and there are 50 beds for medical and surgical care in the Maxwell Memorial Hospitals; there are also 15 beds for leprosy patients with tuberculosis.

- 321. The average number of patients in residence throughout the year was 531. There were 138 admissions, and 119 patients discharged of whom 87 were in possession of 'negative' certificates; there were 2 deaths.
- 322. All patients receive regular and controlled treatment, the majority receiving D.D.S. in its various forms. An increasing number are being given thiambutosine by mouth and a small group was put on ditophal by inunction.
- 323. Much work has been done on the prevention of damage to anaesthetic hands and feet and the importance of this aspect is continually emphasized to the patients so afflicted. In the surgical wards reconstructive surgery was carried out on a number of patients and 189 operations were performed for this purpose.
- 324. The detailed radiological study of the hands and feet of all patients was continued and a flouroscopy survey was done of all patients and staff. The laboratory undertakes regular skin smears and other routine investigations while a start was made on the taking, preparation and examination of skin biopsies from all patients.
- 325. All patients on the Island are expected to work in accordance with physical ability and previous occupation. Even the severely disabled and bedridden are encouraged to do basket work and embroidery. Patient-farmers supplied most of the vegetables consumed and pigs, rabbits and poultry are raised. Cattle breeding was discontinued on the advice of the Government Veterinary Department. Patients also carried out routine maintenance work and hospital and domestic duties.
- 326. A new activity was the planting, by the Forestry Department, of 10 acres of pine seedlings as a prelude to future afforestation to be carried out by patients. A start was made on the raising of seedlings on the Island and a small area was planted by the patients.
- 327. There is a primary school for child patients, the staff of which hold evening classes for adults. An average of 27 children attended the school and 137 adults attended evening classes.
- 328. Trade training is carried out in workshops and the scope of training will be extended to tailoring and embroidery when a new workshop, now under construction, is ready. The new building is being built from funds donated by the Marianne Reichl Aid to Lepers Group and it will also contain a clothing store and laundry.
- 329. Church activities and religious services for both Protestants and Catholics were continued and a new Church is being planned. Social

activities continued as in a normal community with games, a Drama group, a fortnightly film show and Boy Scouts and Girl Guides troops.

330. There is a close liaison with the Government Social Hygiene Service which undertakes the out-patient treatment of leprosy in Hong Kong, Kowloon and the New Territories. The majority of admissions to Hei Ling Chau are arranged in co-operation with this Service which also carried out the medical follow-up of discharged patients. There is also a close liaison between the Island Welfare Officer and the Government Social Welfare and Resettlement Departments.

## Tuberculosis Hospitals

331. Reference has already been made in paragraphs 151 to 158 and 160 to 162 of the work carried out by the Grantham Hospital, the Ruttonjee Sanatorium, the Haven of Hope Sanatorium and the Sandy Bay Convalescent Home.

#### **OUT-PATIENT SERVICES**

332. In addition to the large increase in the size of the population during the past ten years there has been a considerable expansion in the demand for treatment by Western medicines. This has necessitated a rapid expansion of out-patient facilities at hospitals, clinics, health centres and public dispensaries throughout the Colony. The impact on the Government services alone is shown in Table 29 below and this does not take into account the work done by Government-assisted institutions or the service provided from numerous charity or low cost clinics maintained by a variety of welfare and other organizations.

TABLE 29
GOVERNMENT OUT-PATIENT SERVICES 1950/59

			. 1950	1955	1959
Number of out-patient centres	(inclu	iding			
Hospital O.P. Departments)			36	46	70
New out-patient attendances			852,328	1,604,856	1,732,832
Total out-patient attendances			1,538,268	2,869,045	5,107,644

333. During the year regular specialist out-patient sessions were maintained at a number of centres by the tuberculosis, social hygiene, surgical, ophthalmic, maternal and child health, and ear, nose and throat services. In addition, consultant sessions in general medicine have been started at seven centres in the urban and rural areas.

- 334. Evening sessions are held at seven of the larger clinics in the more densely populated areas. Lasting from 6 p.m. until midnight, they have proved to be very popular, providing as they do a service to the public outside the normal working hours.
- 335. During June 1959 it was possible to start clinic sessions on Sundays and public holidays at four centres in the urban area, two on each side of the harbour. These are designed to cater for patients requiring emergency or urgent attention and have been made possible by a re-arrangement of working hours during the week which will release staff for these emergency sessions. There has been an average attendance of 243 persons during each of these holiday sessions since this additional service was inaugurated.
- 336. In the rural mainland and island areas of the New Territories there are fourteen centres at which out-patient treatment is given; at seven of these one or more doctors are stationed permanently. There are two travelling dispensaries operating from Tai Po and Yuen Long respectively which visit a number of subsidiary centres on the mainland. The remoter villages on the Islands and certain points on the mainland are now served by two launches the M.Vs. 'Chee Hong' and 'Chee Wan'. These are fitted out as 'floating clinics' and have a doctor, nurse and inoculator on the staff of each vessel. The M.V. 'Chee Wan', which is a twin screw launch, was donated by The Jockey Club and put into commission in October, 1959. Thus both the eastern and western seaboards of the New Territories now have a 'floating clinic' service.
- 337. During June 1959 a medical officer was posted to the Shek Pik Reservoir Scheme on Lantau Island where a First Aid post is maintained and a general out-patient service will be available shortly at the South Lantau Hospital. Regular daily visits are paid to the maternity home at Mui Wo in Silvermine Bay when there are also outpatient facilities.
- 338. At appendices 10, 11, 12 and 13 are details of the work done during 1959 at the out-patient departments of Government and Government-assisted institutions throughout Hong Kong.

#### SPECIALIST SERVICES

339. There are Government Specialist Clinical Units of medicine, surgery, obstetrics & gynaecology, anaesthesiology, dentistry, neuro-surgery, ophthalmology, orthopaedic surgery, otorhino laryngology, pathology, psychiatry, radiotherapy, radiodiagnosis, social hygiene,

thoracic surgery and tuberculosis. In addition the Professors and certain Senior Lecturers of the University Faculty of Medicine act as consultants in medicine, surgery, obstetrics and gynaecology, orthopaedics, pathology and pediatrics. Certain of the Government Specialists act as Honorary Consultants to the Tung Wah Group of Hospitals in surgery, radiology, obstetrics and otorhinolaryngology. Part-time specialist services are also given to the Grantham Hospital by the Senior Tuberculosis Specialist, the Thoracic Surgeon and the Orthopaedic Surgeon.

#### RADIOLOGY

340. The Radiological Service, under the direction of the Senior Radiological Specialist, serves all Government medical and health institutions, reports on X-ray films taken at the hospitals of the Tung Wah Group and offers consultation facilities in all aspects of radiology for other institutions and, when requested, for private medical practitioners; it is also responsible for the teaching of medical radiology at the Hong Kong University. The service consists of 3 main branches, namely Radiodiagnosis, Radiotherapy and Medical Physics; the first two are headed by specialists and the third by an experienced Senior Physicist. Other activities include training for the Diploma of Medicinal Radiology (Diagnostic) & (Therapy) and the Membership of the Society of Radiographers. There is also a Clinical Photography unit.

# Radio-diagnosis

- 341. This branch, which has its headquarters at the Queen Mary Hospital, provides a diagnostic service in nine institutions and clinics in Hong Kong and Kowloon; in addition it now operates two Mobile Mass Radiography Units, the second of which was put into service in August, 1959. All aspects of radiodiagnostic work required by the Department are covered, including the radiological work for the tuberculosis service. In addition it undertakes the routine X-ray work for the Medical Examination Board and the annual X-ray survey of all Government employees.
- 342. During the year 339,269 X-ray examinations were made on 190,719 patients. The total of examinations increased by 49,944 over the 1958 figure. The three image intensifiers installed during the previous year have been of great benefit in cutting down exposure to radiation without any loss in diagnostic detail.

## Radiotherapy

- 343. This section is at present entirely based in the Queen Mary Hospital but serves patients from throughout the Colony. Whereas 10 years ago it had only one deep X-ray machine, five obsolete radium needles, and a small amount of radiocobalt, there are now two deep X-ray machines, a 60-curie telecobalt service, a contact X-ray therapy machine, a large stock of radium needles and tubes, radio cobalt tubes, two implantation guns for radiogold grain implantation and other facilities for the use of radio-isotopes in the diagnosis and treatment of disease.
- 344. During 1950, only 31 malignant and 48 benign conditions were treated. In 1959 treatment was given to 1,113 patients of whom 901 were new cases; 893 cases of cancer were treated of whom 684 were new cases. There were 348 cases of nasopharyngeal carcinoma, 152 cases of cancer of the cervix and 134 cases of cancer of the breast. There were 220 benign conditions treated of which 180 were skin conditions. Radio-iodine tracer studies were carried out on 23 patients.
- 345. Because of the shortage of beds the majority of these cancer patients were treated as outpatients. There was a total of 11,865 attendances of which 852 attended the clinic for gynaecological conditions conducted by a team of Government radiotherapists and University gynaecologists.

# Medical Physics

- 346. Established in 1956, this is now an essential branch of the Radiological Service. It assists in the physical aspect of planning radiation treatment, operates a radio protection service, assists in the development of new or improved radiological techniques, undertakes the teaching of radiological physics, calibrates the various irradiating machines at regular intervals, prepares radium or radiocobalt sources for application and maintains a workshop.
- 347. During the year the physicists took part in 975 X-ray or telecobalt plannings, made 198 plaster casts with wax seatings for the positioning of beam applicators and 88 plaster strip casts. In addition to maintaining full records of monitoring carried out in conjunction with the radio protection service, the branch gave advice to both Government and non-Government organizations on problems related to radiation hazards and protection.
- 348. Two important researches were conducted into the determination by actual measurement of the radiation doses received by the lenses

of the eyes and the nasopharynx during a radical course of deep therapy.

349. Much work was done by the workshop in the maintenance and repair of radiological equipment, the assembly and installation of new equipment, the production of spare parts and of gadgets required for the development of new techniques. This has resulted not only in more efficient work but has effected considerable economies in operating costs.

#### OPHTHALMOLOGY

- 350. There are two full-time major ophthalmic centres one at Arran Street in Kowloon and the other at the Violet Peel Polyclinic on Hong Kong Island. From these centres, ophthalmic teams hold 75 out-patient sessions each month at 14 part-time centres situated throughout Hong Kong, Kowloon and the New Territories. There are three 'sight saving' refraction centres and an optical workshop for participants in the School Health Service. Eleven Ophthalmic beds are available in Government Hospitals for the treatment of out-patients. An extension to the Service during the year is the British Red Cross Society Mobile Ophthalmic Unit, based at Arran Street, which pays a regular schedule of visits to centres in the New Territories. Donated to the Hong Kong Branch of the Red Cross Society by Mr. Tang Shiu-kin, C.B.E., it is maintained by the Branch, the professional staff of the Unit being provided by the Ophthalmic Service. It has been in operation since June 1959.
- 351. There were altogether 161,302 out-patient attendances of which 73,846 were new cases. This constitutes an increase of 26% above the 1958 figures. The optical workshop issued 2,702 new pairs of spectacles and replaced lenses in a further 425 instances. Treatment was given to 440 in-patients and 4,787 operations performed of which 1,424 were classified as major operations. The major part of the operative work is carried out in the theatres of the ophthalmic clinics and, with the services of two Health Visitors and two Almoners available, the risk of post-operative complications is little different between in-patient and out-patient surgery.
- 352. The Health Visitors paid 2,562 home visits and gave 4,389 health talks to new patients. The Almoners interviewed 20,868 persons and compiled 2,770 detailed case records; 480 patients who sustained industrial eye injuries were referred to the Labour Department and 435 new cases of blindness were referred to the Social Welfare Department for registration and rehabilitation.

#### DENTAL SERVICE

- 353. The Senior Dental Specialist, assisted by one Dental Specialist and 27 Dental Officers, maintains a general dental service for the Civil Service and a School Dental Service. In addition emergency treatment is given in Government hospitals, in Her Majesty's Prisons and at certain Government Outpatient clinics.
- 354. The general dental service offers treatment to all monthly paid Government officers and their families, with whom Government has a contractual obligation to provide such facilities. Emergency services for the general public, mainly extractions for the relief of pain, are held twice weekly at the Sai Ying Pun Hospital on Hong Kong Island and the Li Kee Memorial Dispensary in Kowloon, fortnightly at Tai Po and Yuen Long, and monthly at Cheung Chau and Tai O.
- 355. The six School Dental Clinics are maintained for participants in the School Health Service and, although a larger number of fillings was possible during the year, extractions continued to be necessary in many cases—an indication of the extent of the problem of dental caries in Hong Kong. In this connexion a Colony-wide dental survey was carried out during March 1960, prior to the start of fluoridation of the domestic water supplies in Hong Kong. A preliminary assessment of the results of the survey, in which more than 8,000 school children aged between 6 and 11 were examined, indicates that less than one per cent within this age group are free from some degree of dental caries.
- 356. During the year two small additional Dental Clinics were opened, one static clinic for the general service at Farm Road, Kowloon and one Mobile Dental Unit. The latter was designed and built locally to provide full dental services for Government personnel in the New Territories, who are living considerable distances away from static clinic facilities; it also visits schools in the New Territories to undertake dental examinations and treatment for participants in the School Health Service. The Mobile Unit also provides a limited service for prisoners and certain other patients in the rural areas.
- 357. The work done during the year is detailed in the following table:

### TABLE 30

Government Servants		1958	1959
Inspections prior to treatment	 	7,164	7,544
Attended for the first time	 	2,390	2,850
Total visits by Government servants	 	23,256	27,026
Total visits by dependants	 	24,162	27,615
Completed treatment and dentally fit	 	5,653	6,945

- 358. The delays in starting routine inspections and treatment for those on waiting lists who are not suffering from emergency conditions was reduced from an average of 11 weeks in 1958 to  $8\frac{1}{2}$  weeks in 1959. There is still a considerable delay of six months or more in supplying prosthetic appliances, again excluding emergencies. However the appointment for the first time of an experienced and fully qualified Dental Technologist has enabled a re-organization of this aspect of the service to be started and systematic training of technicians has begun. Plans for a course of training of Dental Technicians at the Technical College have advanced to the stage where it is probable that the first intake of students will occur in September 1960.
- 359. In the School Dental Service the number of participating children again fell from 28,094 in 1958 to 26,123 in 1959; the ratio of fillings to extractions rose from 92:100 to 137:100. However the number of teeth which had to be extracted because they could not be saved is still very high, 2,576 permanent and 11,262 deciduous teeth being extracted.

## Dental Services provided by Welfare & Missionary organizations

360. Welfare organizations maintain a number of dental clinics either for their own members or for the poor in their respective districts. The Hong Kong Dental Society continues to staff four free evening clinics each week, three in Kowloon and one in Hong Kong together with a fortnightly clinic at the Ruttonjee Sanatorium. The St. John Ambulance Brigade sends a Penetration Squad, which includes a dentist, each Sunday to the more remote areas of the New Territories where free treatment is given to those in need. A mobile dental unit built and operated by the Church World Service began operations in the New Territories during June 1959, where it provides emergency and routine dental treatment for poor people at low cost.

## Control of Dental Practice

361. Two Dental Inspectors were employed throughout the year in connexion with the supervision and control of private dental practice. Premises used or proposed to be used by private dental practitioners were inspected regularly. There were four prosecutions for alleged dental practice by unregistered persons and three individuals were convicted of this offence.

### GOVERNMENT INSTITUTE OF PATHOLOGY

- 362. The Institute has occupied premises in Caine Lane on Hong Kong Island since its foundation in 1905. It is the headquarters of the Government clinical pathology and public health laboratory service with branches in the Kowloon, Tsan Yuk, Lai Chi Kok and Sai Ying Pun Hospitals. In addition, vaccine production, supervision of the Blood Banks, and the management of the two public mortuaries are undertaken by the staff of the Institute.
- 363. As from the first of April 1959, the University Department of Pathology at the Queen Mary Hospital has carried out all the routine clinical pathology, excluding medico-legal work and blood chemistry analyses, for this Hospital. In co-operation with the University a small polio-virus unit has also been established in the University Pathology Department, which is designed for investigation of the enteric viruses in Hong Kong and the laboratory control of the use of oral poliomyelitis vaccine should the need arise. The medical and technician staff are provided by Government and other staff by the University.
- 364. The new premises for the Institute in the Sai Ying Pun Polyclinic are now almost ready and will be occupied in July 1960. Vaccine production will however have to be continued at Caine Lane until the Vaccine Institute, to be built in the New Territories, is ready.
- 365. During the year 471,573 specimens were dealt with as compared to 439,042 during 1958. This increase is again considerable, particularly since the major part of the Queen Mary Hospital clinical pathology has been undertaken by the University. There was a marked rise in the number of samples of water, milk, ice cream and food products, and in the sensitivity tests on M. tuberculosis. The results of the latter are set out in table 31 below.

TABLE 31 SENSITIVITY TESTS FOR MYCO. TUBERCULOSIS

		Strep	tomycin	P.	A.S.	I.N.H.	
Strongly resistant	 	502	24.4%	51	2%	193	9.6%
Resistant	 1	557	27.7%	302	15%	433	21.5%
Doubtfully resistant	 0.41	340	16.9%	426	21.2%	513	25.5%
Sensitive	 	610	31%	1,230	61.8%	870	43.3%

366. The isolation of atypical strains of acid-fast organisms was further studied and, in addition, 51 sputa were examined for the presence of paragonimus ova; 8 were found to be positive.

- 367. At appendix 14 is a summary of the examinations carried out at the Institute and its branches during 1959.
- 368. Courses of lectures and practical work for student technicians were continued throughout the year and separate short courses of instruction in laboratory techniques were run for Health Visitors, Health Inspectors and Student Nurses.
- 369. One additional qualified technologist was recruited during the year and four others returned from study leave in the U.K. with the A.M.I.L.T. Three other technicians were sent on study leave to the United Kingdom to undertake advanced training in various branches of technology prior to sitting the examinations for the Associateship.

## Vaccine Production

370. Vaccines to the value of \$282,891 were manufactured during the year, which for the most part are issued free as a public health measure. The quantities of vaccines manufactured were:

TABLE 32

VACCINE PRODUCTION

					Vaccine prepared	Vaccine issued
Anti-smallpox vaccin	ne				 48,279 ml.	40,197 ml.
Anti-cholera vaccine					 _	50,500 ml.
Anti-typhoid-paratyp	hoid	vaccir	ne (Ac	dult)	 62,950 ml.	69,250 ml.
Anti-typhoid-paratyp	hoid	vaccin	e (Ch	ildren)	 48,900 ml.	92,070 ml.
Anti-plague vaccine					 _	160 ml.
Anti-rabies vaccine	2%				 41,900 ml.	46,240 ml.
Anti-rabies vaccine	4%				 25,800 ml.	30,930 ml.
		Grand	total		 227,829 ml.	329,347 ml.

5,650 ml.

### The Public Mortuaries

P.P.D. Tuberculin diluted and issued

371. The two public mortuaries are situated one on either side of the harbour and to these are brought cases of sudden or unnatural death. In addition all rodent specimens sent in for examination for plague are dealt with at the two mortuaries, which each have a special section designed for this work. Table 33 sets out the work performed during the year.

TABLE 33

Total Automics and and	Kowloon	Victoria
Total Autopsies performed	3,084	1,256
Number of identified bodies	898	658
Number of unidentified bodies	2,186	598
Deaths due to natural causes	2,621	948
Deaths due to unnatural causes	463	308
Sex { Males	1,107	802
Sex { Females	1,973	450
Unknown	4	4
Race { Chinese	3,079	1,239
Non-Chinese	5	17
Age Groups Over 60 years	135	181
45 - 60 years	380	290
30 - 45 years	662	222
15 - 30 years	134	108
1 - 15 years	511	227
1 month - 1 year	563	81
under 1 month	585	122
Stillbirths	110	18
Age unknown	4	7

## Examination of rodents for plague

#### TABLE 34

	Kowloon	Hong Kong
Total number examined	133,469	162,295
Dissection and mascroscopic examination	36,920	65,895
Complete bacteriological examination	61	92
Positive for plague	Nil	Nil

- 372. The prevalence of suicide as a cause of death has given rise to a detailed investigation by the Government Senior Psychiatric Specialist. A monograph on this subject was published by the Hong Kong University Press in November 1958.
- 373. It is of interest to record the frequency and pattern of causes of deaths occurring in this way during 1959. Table 35 is an analysis of suicide cases brought to the two public mortuaries.

TABLE 35 SUICIDES IN HONG KONG, 1959

				Victoria	Kowloon
Drowning		***	 	37.9%	6.4%
Hanging			 	17.8%	26.4%
Jumping from heigh	nts		 	26.4%	25.4%
Poisoning by Insecti	cides		 	6.4%	20.0%
Other Poisonings			 	8.6%	19.5%
Others			 	2.9%	2.3%
cricial sis to dry	Total	Suisidas		100%	100%
	Total	Suicides	 	140	220

#### FORENSIC PATHOLOGY

374. All medico-legal work in connexion with the investigation of crime is carried out from laboratories situated in the Police Head-quarters building. The laboratories are staffed jointly by the Medical and Health and Police Departments, the staff consisting of the Senior Forensic Pathologist in charge, two M.O.s and one Assistant Chemist, and five members of the Police Force, one of whom is a woman constable. Table 36 details the work done during the year.

# TABLE 36 STATISTICS FROM 1ST APRIL, 1959 TO 31ST MARCH, 1960.

Examination of victims	and suspects				 416
Attendance at scenes of					 99
Attendance at courts					 61
Medico-Legal post mo	rtems				 184
Medico-Legal examina	ation of weap	ons			 84
Examination of hairs,	fibres and o	ther	slides		 364
Examination of cloth	ing				 642
Miscellaneous examina	ations (Article	es)			 275
Blood Grouping (Med	ico-legal)				 1,582
Blood Grouping (Police	ce Officers)				 653
Lectures to Police Off	ficers including	g adv	anced c	ourse	 38
Assistance in Raids					
Breach of Pharmacy &	Poisons Ord.	and	Penicilli	n Ord.	 47
Unregistered Medical	Practitioners		***		 12
Abortions					 Nil
Illegal dental practice					 4

375. The Senior Forensic Pathologist is Lecturer in Forensic Medicine at the Hong Kong University and also lectures on the medicolegal aspects of crime to the Advanced Detective Training Course.

Lectures are also given by the Assistant Chemist at the Police Training School on the handling of exhibits and on narcotics.

### GOVERNMENT CHEMIST'S LABORATORY

- 376. This Laboratory carries out a wide range of analytical and consultant work for Government, for the Armed Services and for commercial and industrial concerns. The Government Chemist, four Chemists, one Scientific Officer, four Assistant Chemists and Bio-Chemists and nineteen other staff maintain the work of the Laboratory.
- 377. The total number of analyses carried out during the year was 42,086 which is an increase of 13% over the 1958 total. Of the samples analysed, 18,708 were bio-chemical analyses of blood carried out for hospitals and private practitioners. The next largest group of analyses was in connexion with 12,453 seizures of narcotics, mostly heroin, sent in for examination and certification.
- 378. The chemical examination of public water supplies is carried out as a routine, as is the analysis of samples of food and drugs for adulteration. Work for the Police, in addition to that done on narcotics, includes the investigation of poisoning and examinations in connexion with acid-throwing, arson, counterfeiting, drunken driving, robbing, and the unlawful possession of poisons and dangerous goods. Homicide by poisoning is rare in Hong Kong but suicide by poisoning is common. Organophosphorous insecticides, now placed under much stricter control, were most commonly used, followed in frequency by barbiturates, cyanide and lysol.
- 379. Work in connexion with dutiable commodities was carried out for the Department of Commerce and Industry and 6,409 samples of liquor, tobacco, fine gold and hydrocarbon oils were analysed. For the Government Stores and for certain commercial firms the checking of standards of a wide variety of commodities was undertaken. In the industrial health field, investigations were carried out in connexion with air pollution in work places due to sulphur dioxide, silica dust, lead and zinc fumes and industrial solvents.
- 380. An interesting aspect of the year's work was the checking of standards of locally made-up pharmaceuticals exported to neighbouring countries as part of the U.S. foreign aid programme. All such exports must be supported by a certificate to show that the standards of the U.S. Pharmacopoeia have been met.

## 381. The categories of analysis undertaken during the year were:

Water & water	erworks o	chemic	cals					782
Food and Dr	ugs							431
Forensic								890
Toxicology								598
Commercial								623
Miscellaneous								1,183
Dangerous D	rugs and	Duti	iable	Commo	dities	Ordina	inces	18,862
Importation/E								TO A DOMESTIC
Order								9
Bio-Chemical	0							18,708

#### THE PHARMACEUTICAL SERVICE

- 382. This branch, in charge of the Chief Pharmacist, has its head-quarters at the Central Medical Store at North Point on Hong Kong Island. Next to the Government Unallocated Stores, it is the main supply depot for pharmaceuticals, medical and surgical equipment and supplies and medical gases. There is a branch Medical Store in Kowloon which is the distribution centre for that side of the harbour, including the New Territories.
- 383. Manufacturing units for the supply of pharmaceuticals in bulk, usually in concentrated form, are maintained at both North Point and Kowloon. Parenteral fluids are also manufactured in bulk at North Point and the Queen Mary Hospital. During the year 104,325 litres of parenteral fluids were manufactured and distributed to Government institutions. In addition, 106,362 sterile preparations were prepared which included a wide range of injections, burn dressings, bone wax, eye preparations and other items in general use at hospitals, clinics and dispensaries.
- 384. The Chief Pharmacist, who is a member of the Pharmacy Board, has important responsibilities in connexion with the enforcement of the Ordinances dealing with Dangerous Drugs, Pharmacy and Poisons and Penicillin. He has a staff of qualified pharmacists of whom two are occupied full time on inspectorial duties. The inspection of premises both manufacturing and retail and of records is carried out regularly. Table 37 sets out the work done in this field.

### TABLE 37

	1958	1959
Wholesale Poisons Licences issued	 344	350
Authorized Sellers Licences issued	 29	32
Listed Sellers Licences (Part II Poisons only)	 251	282
Antibiotic Permits issued	 209	203
Licences for movements of Dangerous Drugs	 233	309
Premises inspected	 988	1,104
Prosecutions initiated	 4	3

#### THE ALMONER SERVICE

- 385. Under the social conditions existing in Hong Kong there is a vast amount of medical social work necessary to support the curative services. The Principal Almoner has her headquarters at the Harcourt Health Centre and she has a staff of 10 Almoners Class I and 30 Almoners Class II distributed between the Hospitals, the larger clinics and certain specialist services. Responsibilities additional to the actual medical social work include the administration of the Samaritan Fund, the Special Treatment vote, the distribution of free foods donated by C.A.R.E. and other welfare organizations, and the in-service training of newly recruited Almoners. There is also participation by the Almoners in the training of medical students, student nurses, social studies students and in the in-service training courses run by the Social Welfare Department.
- 386. The staffing situation has improved over the past two years and during 1959 six Almoners completed their first year of in-service training and seven more were recruited. The ratio of experienced to inexperienced Almoners is still too low and only 24% of the staff had had six years experience or more.
- 387. At the Queen Mary Hospital more work was possible amongst cancer patients undergoing radiotherapy and more time could be devoted to orthopaedic patients, particularly those attending the fracture clinic. At Kowloon Hospital the increase of over 2,600 hospital admissions proportionately increased the calls on the Almoners' time, particularly in connexion with the orthopaedic accident service aimed at early rehabilitation. There is necessarily a close contact with the Lai Chi Kok convalescent wards and one Almoner's time was devoted to this aspect of the orthopaedic work in both hospitals. At Lai Chi Kok the most difficult problems continued to arise in the finding of suitable employment for the disabled and in the rehabilitation of the paraplegics.
- 388. At the Mental Hospital, where full social records of all patients are most important, there are now four Almoners. The large number of patients who are out on parole requires a continuing close family contact if out-patient attendance are to be maintained and relapse avoided. Full case work was carried out for 951 cases compared to 724 in 1958.
- 389. The Tsan Yuk Maternity Hospital posed many problems dealing as it does with the complications of pregnancy. Arrangement for the care of the children of expectant mothers who required prolonged

ante-natal in-patient treatment, referrals of babies to the M.C.H. centres, the care of orphaned children and advice, where sought, on family planning are all making greatly increased demands on the service.

- 390. At the larger out-patient clinics the medical-social needs of various aspects of the general curative service are met as far as possible. These include, particularly, child care problems arising from unsatisfactory home conditions and the difficulty of regular attendance at physiotherapy, maternal and child health and other clinics due to the household or employment ties of the mother.
- 391. Almoners work full-time with the Tuberculosis, Social Hygiene and Ophthalmic Services. There have been encouraging developments in the attitude of patients and parents to these services as a result, particularly in leprosy work.

### Samaritan Fund

392. During the year, expenditure totalled \$14,487.75 disbursed in 3,305 grants which is an increase of more than 40% over that of last year. The majority of the grants were, as previously, in the form of travelling expenses and the re-imbursement of loss of earnings to the escorts of disabled patients.

## Special Treatment Vote

- 393. Expenditure rose from \$10,790 in 1958 to \$20,518 in 1959 for the provision of surgical appliances to those who cannot afford the cost either in part or in toto. The Almoner concerned submits a social report on each patient together with the surgeon's recommendation and an estimate of the cost of the appliance. The Principal Almoner, after the appliance has been fitted, is then responsible for the submission of the account for payment from this vote. The arrival during February, 1960, in the Colony of a Surgical Appliance Technician on first appointment will greatly facilitate this aspect of the work of the Almoners.
- 394. The assistance and co-operation of the Family Welfare Society, the Silvermine Bay Holiday Camp, the Family Planning Association, CARE, the B.G.C.A. the Po Leung Kuk, the Bishop Ford Centre, and UNICEF in the medical social work are gratefully acknowledged. The close co-operation given by the Social Welfare Department of Government in the solution of problems of mutual concern in this field has been particularly valuable.

### PHYSIOTHERAPY

- 395. The Headquarters of this service is at the Wan Chai Polyclinic on Hong Kong Island and there are physiotherapy units at the Queen Mary, Kowloon and Lai Chi Kok Hospitals. The Superintendent Physiotherapist, who is also a trained Tutor, has a staff of 18 physiotherapists and assistant physiotherapists. One of the physiotherapists is also a Tutor and it is planned to start a course of training, locally, in temporary premises and towards the end of 1960, based on the curriculum of the U.K. Chartered Society of Physiotherapists. There are at present two local girls on study leave in the United Kingdom working for the M.C.S.P.
- 396. Apart from the Wan Chai Centre, which was designed for physiotherapy, none of the units is accommodated in adequate premises. Much work has therefore to be done individually in the wards of the hospitals. Nevertheless considerable progress has been made and group therapy in classes has greatly expanded the scope of the work.

## Poliomyelitis

397. At the Wan Chai Centre, the Orthopaedic Specialist holds a weekly clinic for poliomyelitis cases advising on treatment and the fitting of appliances. Classes are held for babies under two and their mothers so that exercises can be continued at home. There are also two classes for older children, one for those who can walk unaided and the other for those who need appliances; the aim of the latter is to get them fitted with an appliance and on their feet as soon as possible. A large post poliomyelitis clinic is also held at the Kowloon Hospital where a similar system is being developed. There are hydrotherapy tanks at both centres.

### General

398. There are now classes for hemiplegics, for arm disabilities including 'frozen' shoulders, elbow classes for small boys with fractures and dislocations and classes for industrial hand injuries in young men and women. Cases of the latter referred by the Labour Department are seen once weekly by a Health Visitor from the Industrial Health Section. Individual treatments in cubicles are also carried out as required and the installation of overhead suspension at the various centres has greatly aided the rehabilitation of those suffering from injuries affecting individual muscle groups.

- 399. Physiotherapy sessions for patients suffering from leucoderma are now held weekly instead of fortnightly.
- 400. The appointment of another physiotherapist specially trained in chest work has enabled more time to be devoted to the Thoracic Surgical Unit in the Queen Mary Hospital.
- 401. There is close co-operation with the occupational therapists in rehabilitation, particularly at Lai Chi Kok, where exercises are followed up by employment on machine work best suited to the re-education of the muscle groups affected.

#### OCCUPATIONAL THERAPY

- 402. The Senior Occupational Therapist, assisted by a staff of three Occupational Therapists and nine Handicraft Instructors, has her head-quarters in the Queen Mary Hospital with units working in the Mental Hospital and Lai Chi Kok Hospital where the majority of 'long stay' in-patients are accommodated.
- 403. A sum of \$50,000 was allocated for the purchase of raw materials and miscellaneous stores, and articles produced were sold by the Welfare Shop in Kowloon and at the Annual Exhibition of Crafts at the Mental Hospital. In addition, the Controller of Stores purchased bamboo crutches, brooms, waste-paper baskets and other such items made by the patients. The total revenue received from the sale of articles was \$17,100.80, of which \$1,974 came from sales at the Annual Exhibition.
- 404. Incentive payments are made to the patients turning out articles which are sold, and this money is used to pay for entertainments such as film shows, Chinese operas, concerts and Chinese dinners.
- 405. The service is concerned mainly with in-patients but a few outpatient sessions have now been started. An innovation has been the start of 'relaxation exercises' classes conducted by a voluntary helper one evening a week for mental hospital out-patients. In-patient relaxation exercises have been held daily in the Victoria Mental Hospital and have proved to be very popular with those patients who are able to join in.
- 406. Occupational Therapy for mental hospital patients is carried out both at the Victoria and Castle Peak Hospitals. At the former there has been a high standard and wide variety of work maintained. The female patients have made toys, puppets, quilts, tapestries, plastic and paper flowers, scrap books, rattan wastepaper baskets, and plastic and rattan shopping baskets. They have also done needlework, embroidery,

crochet work and knitting. The male patients have done bamboo and rattan work, carpentry and furniture making in addition to broom making, splint making and basket work.

- 407. Some interesting work has been done by the Senior Occupational Therapist in connexion with diagnostic painting and drawing by mental patients. Several paintings of good quality have been completed by patients, framed and used as ward decorations.
- 408. Outings to places of interest and to shop for materials used in the occupational crafts have been organized for selected groups of mental patients and have proved popular and beneficial.
- 409. At the Castle Peak Mental Hospital where the patients are mainly retarded and suffering from chronic conditions, occupation has been limited to relatively simple tasks in rattan work, machine sewing, needle work and gardening.
- 410. At the Queen Mary Hospital an overhead suspension was installed during the year and the standard of specific medical treatments has improved. It is now possible to treat disabilities of the hands, elbows, shoulders, legs and ankles in both early and late stages. Much more use is now being made of occupational therapy, particularly for orthopaedic conditions.
- 411. There is a wide field for specific occupational therapy at Lai Chi Kok, and the addition of a foot power loom and an electric lathe to the equipment has expanded the scope of the work. Plastic flowers, animals and baskets, rattan work, hooked rugs, dolls furniture, toys, jigsaw puzzles and pattern weaving have all produced articles of high standard. As many of the patients so occupied are permanently disabled much effort has been concentrated on instruction in the use of aids for essential activities such as eating, washing, dressing and walking.

### MEDICAL EXAMINATION BOARD

412. The functions of this Board are to examine medically all candidates for appointment to the Government Service, all recruits to the Auxiliary Defence Service and all members of the Service prior to entry to the permanent establishment, to promotion or to transfer outside Hong Kong. Work is also undertaken in connexion with the medical certification of prospective emigrants to a number of countries where an official certificate is demanded by the respective Immigration Authorities. All medical examinations include a full physical examina-

tion, an X-ray of the Chest, and such laboratory investigations as may be required.

413. The Board consists of a Chairman and four other Medical Officers, one of whom is a woman. Specialist advice is available on request from the Government specialist clinical units. Work done during the year is summarized in Table 38.

#### TABLE 38

		Gov't Appointments			Defence nits	Miscellaneous		Total	
		1958	1959	1958	1959	1958	1959	1958	1959
New examinations		6,232	7,125	2,539	2,192	149	137	8,920	9,454
Re-examinations		3,640	3,764	1,962	2,436	65	81	5,667	6,281
Annual Total		9,872	10,889	4,501	4,628	214	218	14,587	15,735
Referred f	or a	speciali	st opinio	n				2,513	2,411

- 414. Pulmonary tuberculosis still remains the commonest cause for rejection, and 1,712 cases were referred to the Senior Tuberculosis Specialist for an opinion on abnormal chest findings; of these 10.5% were rejected on account of active tuberculosis, 13.9% because of quiescent tuberculosis, and 13.0% because of arrested tuberculosis, a total of 37.4% of persons thus referred. The percentage of the total candidates examined who had healed pulmonary tuberculosis and who were eventually accepted for appointment was 4.7%.
- 415. Out of a total of 15,735 candidates examined by the Board, 1,128 were found medically unfit. Table 39 gives an analysis of the causes of rejection.

#### TABLE 39

					Per 1,000 examinations
Pulmonary tuberculosis		a			60.12
Diseases of the Respiratory System	(exclu	iding	tubercul	osis)	2.41
Diseases of the Circulatory System					2.66
Diseases of the Alimentary System			11 1		1.01
Diseases of the Skeletal System					0.50
Diseases of the Genito-Urinary Sy	stem			1.44	0.50
Diseases of the Nervous System			1		0.57
Diseases of the Endocrine System					0.38
Diseases of the Eye			***		1.90
Diseases of the Skin					0.69
Miscellaneous					1.14

416. The Board also undertakes the immunization of candidates appointed to posts which carry special risks. Tuberculin testing followed by B.C.G. vaccination when necessary, T.A.B. inoculations and Schick testing are employed routinely for this purpose.

#### BLOOD BANKS

417. The blood donation centre, maintained by the Hong Kong Branch of the British Red Cross Society on the Hong Kong water front, continued to collect and distribute blood to the Blood Banks at the Queen Mary and Kowloon Hospitals. The Society collected 4,311 pints of blood during the year, which is 1,002 pints more than in 1958. The total of blood received into the two Blood Banks was 5,871 pints, of which 73.4% came from the Red Cross, 22.5% from patients' relatives and friends, and 4.1% from other sources. The distribution of blood from the Banks, amounting to 5,805 pints, was:

Government Hospitals	 ***	 	 	76.1%
Grant-in-aid Hospitals	 	 	 	19.4%
Private Hospitals	 	 	 	4.1%
Military Hospitals	 	 	 	0.4%

- 418. The laboratory work in connexion with blood donations is undertaken by the Government Institute of Pathology. Of the 66 pints of blood not used, some was made into plasma, the rest proving to be unusable for various reasons.
- 419. The greater part of the blood donated again came from the Armed Services in the Colony or from visiting Royal Navy and United States warships. There is an increasing band of regular donors amongst the Chinese residents and the Donors Club was again active under the guidance of the Chairman of the H.K. Branch of the British Red Cross Society, Mr. Wilfred Wong. There are now 145 Club members of whom 15 have given blood more than five times.

#### HOSPITAL ADMINISTRATION AND SUPPLY

420. This branch of the Service is the responsibility of the Chief Hospital Secretary assisted by four Hospital Secretaries and six Assistant Hospital Secretaries. There are two Group Hospital Secretaries, one in Hong Kong at the Queen Mary Hospital and one in Kowloon Hospital, who are responsible for the routine administration and supply of the medical institutions on the two sides of the harbour respectively. One Hospital Secretary is now working full time with the Headquarters Planning Unit and another, who will eventually take over at the Castle

Peak Mental Hospital, has the overall responsibility meantime for the Tsan Yuk Maternity Hospital, the Sai Ying Pun Hospital and Out Patient Department, and the Mental Hospital. Assistant Hospital Secretaries are posted to Lai Chi Kok, the Mental Hospital and Sai Ying Pun Hospital and Polyclinic.

- 421. The recommendations of the Salaries Commission regarding the creation of a definite cadre of Hospital Secretaries and their qualifications, recruitment and training have been accepted in principle. This has enabled the necessary re-organization to be put in hand and further recruitment of Assistant Hospital Secretaries started. During the year a fourth qualified and experienced Hospital Secretary was recruited.
- 422. The function of this branch is the routine administrative work in the hospitals and clinics, which includes the supply of fuel, rations and medical and surgical equipment, the maintenance of equipment and furniture, the recruitment and discipline of all male menial staff, the maintenance of transport, the accounting for hospital stores and the initiation of maintenance and repair work on the fabric of buildings. The Chief Hospital Secretary is also the Departmental Welfare Officer and the UNICEF Liaison Officer.

## Staff Welfare

423. The new Staff Recreation Centre at Kowloon Hospital has been completed so that there is now a focus for welfare activities at each of the two main hospitals. The Welfare Club continued to support schemes for the schooling of members' children, aid to pensioners and relief of families in distress. Chinese chess, football, table tennis competitions, and social gatherings and outings were organized and proved very popular. Staff relations continued to be very good and there were few cases requiring disciplinary action in relation to the size of the staff concerned.

## UNICEF Projects

424. The skimmed milk distribution programme continued at the same level and 203,115 lbs. of milk powder were distributed to welfare organizations throughout the Colony. The total number of supplementary meals given at Feeding Centres was 1,275,670.

#### AUXILIARY MEDICAL SERVICE

425. Established ten years ago under the provisions of the Essential Services Corps Ordinance, the total strength at the end of March 1960

was 4,485 members of whom 1,002 were women. The Service is designed to duplicate the Medical Department staff in the event of a Colony-wide emergency, so that treatment can be given to all casualties while the day to day clinic and hospitals services to the general population are maintained as far as is possible. In addition an expanded ambulance and first aid service, which comes under the operational control of the Civil Aid Services in an emergency, is staffed by A.M.S. personnel. The Medical Defence Staff Officer is responsible for the routine administration of the service and the Director of Medical & Health Services is the Unit Controller.

- 426. One new unit was formed in Cheung Chau which has an island population of over 20,000 residents. This unit includes a large and keen women's section. The overall increase in membership of the Service was 134 members.
- 427. Emphasis is on training, and the First Aid Demonstration teams, one on each side of the harbour, have continued to do very good work, with a noticeable increase in efficiency and enthusiasm resulting from the efforts of these two teams.
- 428. There is a close liaison with the Civil Aid Services and 8 combined Civil Defence Zone exercises were held during the year. 'Live' casualties, using wound-faking and acting techniques, have made for realism and the more careful handling of casualties by rescue and first aid groups. Ambulance team members have also attended regularly at week-ends at the Casualty Departments of the Queen Mary and Kowloon Hospitals, where they have gained valuable experience by watching the handling and treatment of casualties by trained personnel. A new venture has been the secondment of members, trained in first aid, for voluntary part time work with the Ambulance Service maintained by the Fire Brigade.
- 429. The auxiliary Ambulance Depots now have 1,200 members who carry out up to 14 hours of training each month; during the year 1,006 members were awarded proficiency certificates, 42 with distinction.
- 430. The training of pharmacists and dispensers in the preparation of intravenous fluids, and the storage of drugs and equipment for emergency use, continued under the supervision of the Chief Pharmacist. This training takes place on two Sundays each month.

431. Table 40 sets out some details of the work done during the year:

#### TABLE 40

#### COURSES OF INSTRUCTION

			Officers	Basic First Aid	Driving	Telephonists & message writing
Members attending			72	47	134	78
			Store- keeping	Aux. Dresser Ward course (4 days)	s Aux. Nurses (Hospital) (2 weeks)	Basic Aux. Dressers
Members attending			57	55	98	63
		WARD	REFRESH	IER COURSE		
			(5 day	/s)		
Members attending						533
Number of Qualified	Auxiliary	Dress	sers			961
Number of Qualified	Auxiliary	y Nurs	es			223
Number of Qualified	Drivers			10 100		111

### V. TRAINING PROGRAMME

#### **DOCTORS**

- 432. Undergraduate training is carried out at the University of Hong Kong which confers the degrees of M.B., B.S., recognized, since 1911, by the General Medical Council of the United Kingdom.
- 433. Post-graduate training for higher qualifications is under the supervision of the Panel on Post-Graduate Medical Education, consisting of University and Government staff members, who advise on both general and individual aspects of the programme. Post-graduate clinical training at the Queen Mary Hospital is now recognized by the majority of the Examining bodies in Great Britain, while the Tsan Yuk Maternity Hospital is also recognized by the Royal College of Obstetricians and Gynaecologists as a training hospital. It is mainly due to this programme that 65% of the specialist appointments in the Department are now held by locally-recruited personnel, and that a number of medical officers have also been able to obtain higher qualifications.
- 434. During 1959 a further Part I examination for the Diplomas in Medical Radiology in Diagnosis and Therapy was held in the Colony. This was the second such examination and this facility accorded by the Examining Board in England is gratefully acknowledged.

### DENTISTRY

- 435. As yet, Hong Kong has no School of Dentistry although the proposal to establish a Faculty of Dental Science at Hong Kong University has been approved in principle. To meet the Colony's needs meantime, a Government Dental Scholarship scheme was started in 1954 to ensure a supply of qualified dentists until such time as the University Dental School comes into being. Seven of these Scholarships are granted annually by a Committee consisting of senior officers of Government and the University. Those who qualify as dental surgeons under the scheme may be required to work in the Government Dental Service for one or two years upon their return and in any case are required to practise in Hong Kong for not less than four years.
- 436. Three more scholarship students were sent to the Dental School of the University of Adelaide in January and four in February 1960 to the University of Melbourne. Five students graduated as Bachelors of Dental Surgery of the University of Malaya and returned to Hong Kong in 1959, leaving a total of 34 dental scholars still studying overseas at the end of the financial year.
- 437. Two additional Dental Surgery Assistants were awarded W.H.O. Fellowships for training as Dental Nurses in Penang, Malaya, bringing the number of students to a total of five, three of whom are in Penang and two in Wellington, New Zealand. The role of the Dental Nurse is to carry out minor operative work under the supervision of a Dental Officer and to educate children, parents and teachers in the principles of dental health.

### NURSES

- 438. There is full reciprocity of registration between the Nursing Board in Hong Kong and the General Nursing Council of England and Wales. Each year a number of qualified nursing staff, including both local and expatriate officers, go overseas to gain further experience in different aspects of nursing.
- 439. The Department maintains a Nurses Preliminary Training School at the Queen Mary Hospital, and this hospital and the Kowloon Hospital are training schools approved by the Nursing Board, in which the medium of instruction is English. Other approved nurses training schools are at the Tung Wah Hospitals, the Alice Ho Miu Ling Nethersole Hospital, and the Hong Kong Sanatorium and Hospital, in all of which the teaching is carried out in Chinese.

- 440. The continuing expansion of the work of the Department and the necessity to train nursing staff for the large new hospitals under construction has thrown a very considerable strain on the resources of teaching staff and accommodation. Up till now, the immediate demands have been met, but the strain will continue until such time as the Nurses Training School at the Queen Elizabeth Hospital in Kowloon has been fully established; the school is expected to open during September, 1960.
- 441. In December, 1959 the first course of training in mental nursing started at the Victoria Mental Hospital. It is being conducted by a male Tutor who has recently returned from the United Kingdom where he had obtained the Tutor's qualifications in mental nursing. In addition, a number of student nurses are under training in England for the Registered Mental Nurse Certificate so that a nucleus of trained mental nurses will be available when the Castle Peak Hospital has been opened.

### MIDWIVES

- 442. Registered nurses who have trained in the Government School of Nursing can then proceed to take a one-year course in midwifery, using English as the teaching medium, in the maternity wards of the Queen Mary and Kowloon Hospitals. Nurses who have trained at the Tung Wah group of Hospitals, Alice Ho Miu Ling Nethersole Hospital and Hong Kong Sanatorium and Hospital can also take a similar course, conducted in Chinese, in the maternity wards of their respective hospitals.
- 443. For student midwives who are not registered nurses there is a two-year course of training carried out by Government staff, in Chinese, at the Tsan Yuk Hospital.

### HEALTH VISITORS

444. Since 1954, a course of training has been held annually for Health Visitors at Harcourt Health Centre; all entrants to this course have previously obtained qualifications both in general nursing and in midwifery. The training, both theoretical and practical, covers a wide range of lectures, demonstrations and visits covering all aspects of public health work. At the end of the course, the students take the examination for the Health Visitor's Certificate which is conducted by the Hong

Kong Examination Board of the Royal Society for the Promotion of Health.

445. Only ten students are selected for each course so that tuition and constant assessment of the individual is possible.

### RADIOGRAPHERS

446. The training for radiographers at the Queen Mary Hospital in both radiodiagnosis and radiotherapy is recognized by the Society of Radiographers in the United Kingdom. Examinations for both Parts I and II of the Membership of the Society have been held annually in the Colony for a number of years.

### LABORATORY TECHNICIANS

- 447. The Government Institute of Pathology is recognized by the Institute of Medical Laboratory Technology in the United Kingdom as a teaching laboratory from which entrance can be gained directly to the Intermediate examination of the Institute. At present, students have to go to the United Kingdom to sit this examination and they subsequently undergo a further period of instruction there to qualify for entrance to the Associateship examinations.
- 448. In addition there is an in-service course of training for Medical Laboratory Technicians which follows closely the curriculum of the Institute of Medical Laboratory Technology and which leads to a departmental examination.

### OTHER FORMS OF DEPARTMENT TRAINING

- 449. Courses of training are held for Assistant Physiotherapists, Dispensers and Tuberculosis Visitors, which do not lead to a recognized qualification, but which prepare those concerned for admission to permanent posts on the establishment after they have passed a department examination. In addition probationer almoners, who already hold a university degree and a recognized qualification in social science, receive a series of lectures on the local aspects of medico-social work.
- 450. The following table sets out the various categories of training undertaken departmentally during the year:

TABLE 41

	Appointment	Resignation	Strength at 31.3.60	Passed
Probationer Assistant				
Physiotherapist	month - count	_	1	10000
Probationer Radiographic				
Assistant	10 10 mm	1	6	4(a)
				14(b)
Student Dispenser	11	1	36	_
Student Laboratory Assistant	5	1	6	2
Student Medical Laboratory				
Technician	14	-	38	21
Probationer Assistant Almoner	8	- 77	8	7
Student Nurse	121	35	301	42
Student Male Nurse	14	6	46	5
Student Nurse (Psychiatric)	3	_	7(c)	
Student Male Nurse				
(Psychiatric)	6	6	17(d)	_
Student Midwives	27	1	44	11
Student Midwives (Registered				
Nurses)	49	_	48	38
Student Health Visitor	10	_	10	9
Tuberculosis Visitor	_		_	6

<sup>(</sup>a) Part I.

### ATTENDANCE AT CONFERENCES AND MEETINGS INCLUDING THOSE SPONSORED BY THE WORLD HEALTH ORGANIZATION

451. The following table sets out the attendances by officers at Meetings and Conferences during 1959/60.

### TABLE 43

Appointment	Conferences etc. attended	Place
Chief Port Health Officer	*W.H.O. Seminar on Veterinary Public Health	Tokyo
Senior Medical Officer	) *Annual Congress of the Royal	Harrogate,
Health Sister	Society for the Promotion of Health	York- shire
Senior Medical Officer	Second International Hospital Equipment and Medical Services Exhibition	London
Senior Medical Officer	International Hospital Congress	Edinburgh
Senior Sister Tutor	The Course of Instruction in use of Audio & Visual Aids at the Over- seas Visual Aids Centre	London
Medical Officer	9th International Congress of Paediatrics	Montreal, Canada

<sup>(</sup>b) Final Part.

<sup>(</sup>c) All training in United Kingdom (This number includes 1 Auxiliary Trained Nurse).

<sup>(</sup>d) 12 training in United Kingdom-including 2 Registered Male Nurses Hong Kong.

### TABLE 43-Contd.

Appointment		Conferences etc. attended	Place
Director of Medical & Health			
Services		*W.H.O. World Conference on Medical Education	Chicago
Assistant Director of Medical			
Services	••	10th Session of the W.H.O. Regional Committee for the Western Pacific	Taipei, Taiwan
Senior Tuberculosis Specialist		*15th International Tuberculosis Conference	Istanbul, Turkey
Senior Dental Specialist		International Conference on Dental Public Health Centennial Session	New York
Acting Deputy Director of			
Medical & Health Services		*7th Session of the Committee on International Quarantine	Geneva
Acting Senior Health Officer		*W.H.O. Seminar on Education & Training of Sanitation Personnel	Tokyo
Senior Dental Specialist	)	W.H.O. Dental Health Seminar and	Adelaide
Dental Specialist		15th Australian Dental Congress	
Government Chemist		International Seminar on Illicit Drug Traffic	Paris
Senior Dental Specialist		Seminar of the American Academy of Implant Denture	New York

<sup>\*</sup> Funds provided by the sponsoring organization.

### COURSES OF STUDY INCLUDING WORLD HEALTH ORGANIZATION FELLOWSHIP

### 452. The following table sets out the courses of study attended by officers during 1959/60:

	Appointment	Course of Study	Place of Study	Source of Funds
2	Medical Officers	Fellowship, Royal College of Surgeons	U.K.	Government
1	Medical Officer	Plastic Surgery	U.K.	Government
1	Medical Officer	Diploma in Public Health	U.K.	Government
1	Medical Officer	Diploma in Public Health	Singapore	Jaycee Scholarship
1	Woman Medical Officer	Diploma in Public Health	Singapore	Jaycee Scholarship
1	Medical Officer	Diploma in Medical Radiotherapy	U.K.	Government
1	Medical Officer	Diploma in Medical Radiodiagnosis	U.K.	Government
1	Principal Medical and			
	Health Officer	Course in Basic Isotope	U.K.	Government
1	Specialist	New technique in diagnosis and treatment	U.K.	Government
3	Medical Laboratory			
	Technicians, Grade II	Associateship, Institute of Medical Laboratory Technology	U.K.	Government

Appointment	Course of Study	Place of Study	Source of Funds
1 Senior Malaria Inspector	Malaria Eradication	Philippines	W.H.O. Fellowship
1 Health Sister	Tutor Diploma in Public Health	U.K.	Government
1 Senior Nursing Sister	Nursing Administration (Hospital)	U.K.	Colonial Develop- ment and Welfare Fund
1 Physicist	Hospital Physics	U.K.	Government
2 Radiographers	Membership, Society of Radiographers (Therapy)	U.K.	Government
1 Almoner Class I	Certificate course in Mental Health	U.K.	Government
1 Senior Male Charge			
Nurse	Venereal Disease, Fellowship of the Institute of Tech- nician in Venerology	U.K.	Government
1 Dispenser	Training in Pharmacy	Australia	Government
1 Senior Specialist	Inplant Therapy and Relative Problems	U.K.	Government
3 Student Nurses (Psychiatric)	Mental Nursing	U.K.	Government
1 Student Male Nurse	Montal Numina	U.K.	Government
(Psychiatric) 2 Male Nurses	Mental Nursing Mental Nursing	U.K.	Government
	Anaesthesiology	Denmark	W.H.O.
	Midwife Teacher's Diploma	U.K.	Colonial
1 Nursing Sister	Midwife Teacher's Diploma	U.K.	Develop- ment and Welfare funds
1 Medical Officer	Membership, Royal College of Obstetricians and Gynaecologists	U.K.	Government
1 Specialist	Hypertension Thyroid Diseases and Clinical Neurology	U.K.	Government
1 Medical Officer	Certificate in Dermatology	U.K.	Government
Assistants	Dental Nursing	Singapore	W.H.O.
1 Woman Medical Officer	Post-graduate training in Anaesthesiology	U.K.	Own expenses
1 Woman Medical Officer	Licentiate, Medical Council of Canada	Canada	Own expenses
1 Assistant Medical Officer	Licentiate, Medical Council of Canada	Canada	Own expenses
1 Woman Assistant Medical Officer	Diploma in Anaesthetics	U.K.	Own expenses

	App	oointme	ent	Course of Study	Place of Study	Source of Funds
1	Nursing	Sister		 Chest Surgery	U.K.	Own expenses
1	Nurse			 Tuberculosis Nursing	Australia	Own expenses
1	Nurse			 Midwifery & Paediatrics	U.K.	Own expenses
1	Nurse			 Post Graduate-course	U.K.	Own expenses
1	Nurse			 Orthopaedic Nursing	U.K.	Own expenses
1	Dietitian			 Diploma in Dietitian	U.K.	Own expenses

### VISITORS

453. The following distinguished medical men and women visited the department during 1959/60:

### General

- (i) Dr. Alice Carleton of the Department of Anatomy at Oxford University.
- (ii) Dr. Sidney Hobbs, M.D. Obstetrician & Gynaecologist, Vancouver.
- (iii) Professor Ira HISCOCK, Chairman, Yale University, Department of Public Health, arrived in Hong Kong on 13.6.59 on a short visit to discuss health problems and tuberculosis control.
- (iv) Mrs. Kamala V. NIMBAR, founder of Occupational Therapy in India.
- (v) A party of 10 Portuguese nurses, 2 religious sisters and 2 doctors from Macao.
- (vi) Professor Gordan M. FAIR of Harvard University, Consultant for the Regional Seminar on the Education and Training of Sanitation Personnel which was held in Tokyo, Japan arrived in Hong Kong on 4.9.59 for a 4-day visit.
- (vii) Dr. MALLEN of Adelaide.
- (viii) Dr. J. H. MARTIN, Senior Hospital Physicist of the Cancer Institute Board of Melbourne arrived on 10.10.59 for a 5-day visit to discuss radio-therapeutic equipment for the Queen Elizabeth Hospital.
- (ix) Dr. A. M. Thomson, Deputy Director of the Obstetric Medical Research Unit, Aberdeen, arrived in Hong Kong on 19.10.59 for a two-month stay to investigate the prevalence and causes of stillbirths in Hong Kong.
- (x) Sir Robert Macintosh, Nuffield Professor of Anaesthesia at Oxford University arrived in Hong Kong on 11.11.59 on a tour of Far Eastern countries on behalf of the British Council.
- (xi) Dr. RAO, Director of Medical Services, Punjab.

- (xii) Dr. Leroy E. Burney, Surgeon General of the Public Health Services of U.S.A., & Mrs. Burney paid a short private visit to the Colony on 25.11.59.
- (xiii) Dr. Morton Krammer, Chief Biometrics Branch, National Institute of Mental Health, Maryland, U.S.A.
- (xiv) Dr. Kim Kyung-sik, Chief of the Department of Public Health, Korea.
- (xv) Mrs. B. M. Stephen, Lady Superintendent of Nursing General Hospital, Tasmania.
- (xvi) Dr. Stuart Maddin of Vancouver, specialist in Syphilology and Dermatology.

### World Health Organization staff and fellows:

- (i) Dr. Chen Te-san and Miss Chen Hsiu-chuan, W.H.O. Nutrition Fellows for Taiwan visited Hong Kong and stayed from 25.5.59-30.5.59.
- (ii) Mr. John Baxter, W.H.O. Fellowship, Architect in charge of the design, construction and maintenance of all Government medical building in Kenya arrived in Hong Kong on 1.6.59 for a week's stay.
- (iii) Mr. S. POLAK, UNICEF representative, arrived in Hong Kong on 22.7.59 for a five days visit.
- (iv) Dr. KIM Tack-lim, W.H.O. fellow from Korea arrived in the Colony on 18.8.59 for a 5-day visit.
- (v) Dr. Seigi Yoshizaki, W.H.O. fellow from Japan arrived in the Colony on 24.8.59 for a 2-week stay.
- (vi) Mrs. Patricia Hartwell, Director of Public Information Division at UNICEF Headquarters on her world tour of countries aided by UNICEF arrived in Hong Kong on 15.11.59.
- (vii) Dr. Donald R. THOMSON, Area Representative, W.H.O. arrived in Hong Kong on 7.12.59 and proceeded to Macao. Returned on 10.12.59 and stayed for 3 days.
- (viii) Dr. T. Teixeira, World Health Organization Fellow from Brazil passed through Hong Kong on a private visit on 17.2.60.
  - (ix) Dr. Don Won-choi, Health Officer, Republic of Korea and W.H.O. Tuberculosis Fellow, arrived in Hong Kong on 22.2.60, for a week's visit. Arrangements were made for him to observe the tuberculosis control activities, the social hygiene clinics and the leprosy service.

### VI. BUILDING PROGRAMME

- 454. Reference has been made throughout this report to the increasing pressure on all institutions. However, during the year the results of the planning programme began to be evident and an indication of the progress made is outlined below:
  - (a) Completed new projects or major extensions:
    - (i) The New Tai O Dispensary, a three-storey building donated by the Hong Kong Jockey Club was opened on 23.4.59.
    - (ii) The new Hung Hom Dispensary and Maternity Hospital was opened on 30.6.59.
    - (iii) The new Maternity Block at Kowloon Hospital was completed and handed over to the Department on 7.9.59.
    - (iv) The Dental Clinic in the Farm Road Government Offices was opened in March, 1960.
  - (b) Projects under construction or being planned:
    - (i) Work on the Sai Ying Pun Polyclinic is progressing and the building is expected to be completed in July, 1960.
    - (ii) Queen Elizabeth Hospital—the excavation of the basement is completed, the piling was completed by February, 1960 and the contract for construction of the basement was let in February, 1960.
    - (iii) Queen Elizabeth Hospital Sisters' & Nurses' Quarters and Training School should be completed by June 1960.
    - (iv) Kowloon Hospital 'F' Block which contains two 34-bed wards and 4 operating theatres is nearing completion and will be ready for occupation in April, 1960.
    - (v) Work is progressing on the Castle Peak Hospital and a further 120 beds were occupied in February, 1960. The remainder of the 1,000 beds should be ready by September, 1960.
    - (vi) The building of the Jockey Club Clinic Kennedy Town is progressing and the building will be ready for occupation in June, 1960.
    - (vii) The Virus Laboratory at Queen Mary Hospital will be ready for occupation in May, 1960.
    - (viii) Planning is continuing on-
      - (a) Sha Tau Kok Clinic and Maternity Home
      - (b) Jockey Club Clinic, Shek Wu Hui

- (c) Jockey Club Clinic, Aberdeen
- (d) South Lantau Hospital (Shek Pik)
- (e) Pok Fu Lam Godown
- (f) Yuen Long Clinic
- (g) Yau Ma Tei Clinic
- (h) Kwun Tong Clinic
- (i) Tsuen Wan Clinic
- (j) Cheung Sha Wan Police Clinic
- (k) Queen Mary Hospital Extension
- (1) Kowloon Hospital Kitchen

### VII. PUBLICATIONS

### 455. The following articles were published by members of the Department:

D	epartinent.		
	Title of Article	Publication	Name and Title of Author
1.	Psychiatry and Social Work.	Bulletin of the Hong Kong Medical Associa- tion.	Dr. P. M. YAP, Psychiatric Specialist.
2.	The Use of Meprobamate in the treatment of heroin withdrawal symptoms.	Bulletin on Narcotics- United Nations. April —June 1959.	Dr. C. O. LEE, Medical Superintendent, Queen Mary Hospital.
3.	Dental Health Education of the Public.	Bulletin of the American Association of Public Health Dentists. September 1959 & December, 1959.	Mr. Walter C. Allwright, Senior Dental Specialist.
4.	Treatment of Male Gonor- rhoea with a Chlorate tracycline Sulphonamide Combination.	British Journal of Venereal Disease. March, 1960.	Dr. G. M. Thomson, Senior Social Hygiene Specialist.

### ACKNOWLEDGMENT

No progress can be made without the active support and co-operation of all concerned in the task of providing a medical and health service in Hong Kong. The co-operation of other Departments of Government, of the voluntary and charitable associations and of the medical missions is acknowledged with gratitude as is the practical generosity of the Hong Kong Jockey Club. A special tribute is paid to all grades of staff of the Department who have worked with loyalty and devotion towards the solution of the many medical and health problems with which Hong Kong is faced.

D. J. M. MACKENZIE,

Director of Medical & Health Services.

### SAMARITAN FUND

# STATEMENT OF RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST MARCH, 1960

Description	Amount	Description	Amount
RECEIPTS	8 0.	PAYMENTS	00
To Balance brought forward (on deposit with Accountant General)		By Providing maintenance, capital grants, clothing, food, travelling expenses,	
Fund \$18,478.45		Incidental expenses for individual patients	16,075.45
Pensions and other monies held on behalf of in- dividual patients 2,256.13		paid out of pensions and other monies received on their behalf	1,052.80
	20,734.58	Accountant General)	
Donations	13,410.20	Fund \$15,813.20 Pensions and other monies	
Pensions and other monies received on behalf of individual patients	1,204.04	held on behalf of individual patients 2,407.37	18,220.57
	\$35,348.82		\$35,348.82

Certified correct.

(Sgd.) G. AGABEG,

for Director of Medical & Health Services. 23, 5, 60.

(Sgd.) Maura Benham,
Principal Almoner, Medical & Health Department.
23. 5. 60.

The above statement has been examined in accordance with Condition 6 of the Schedule to Legislative Council Resolution dated 24th May, 1950 (G.N. No. A. 113 of 26th May, 1950). I have obtained all the information and explanations that I have required, and I certify, as a result of this audit, that in my opinion the statement is correct.

AUDIT DEPARTMENT, Hong Kong, 10th June, 1960.

(Sgd.) W. J. D. COOPER, Director of Audit.

## NURSES REWARDS AND FINES FUND

# STATEMENT OF RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST MARCH, 1960

Description	Amount De	Description	Amount
	\$ c. PA	PAYMENTS	ن س
Fo Balance brought forward (on deposit with Accountant General)	1,000.67 By Purchase of prize the year 1960	By Purchase of prizes, certificates, etc. for the year 1960	+ IIN
2	Balance carried forward Accountant General)	Balance carried forward (on deposit with Accountant General)	1,000.67
	\$1,000.67	3	\$1,000.67

Certified correct.

(Sgd.) G. AGABEG, for Director of Medical & Health Services.

(Sgd.) M. A. GRANT,

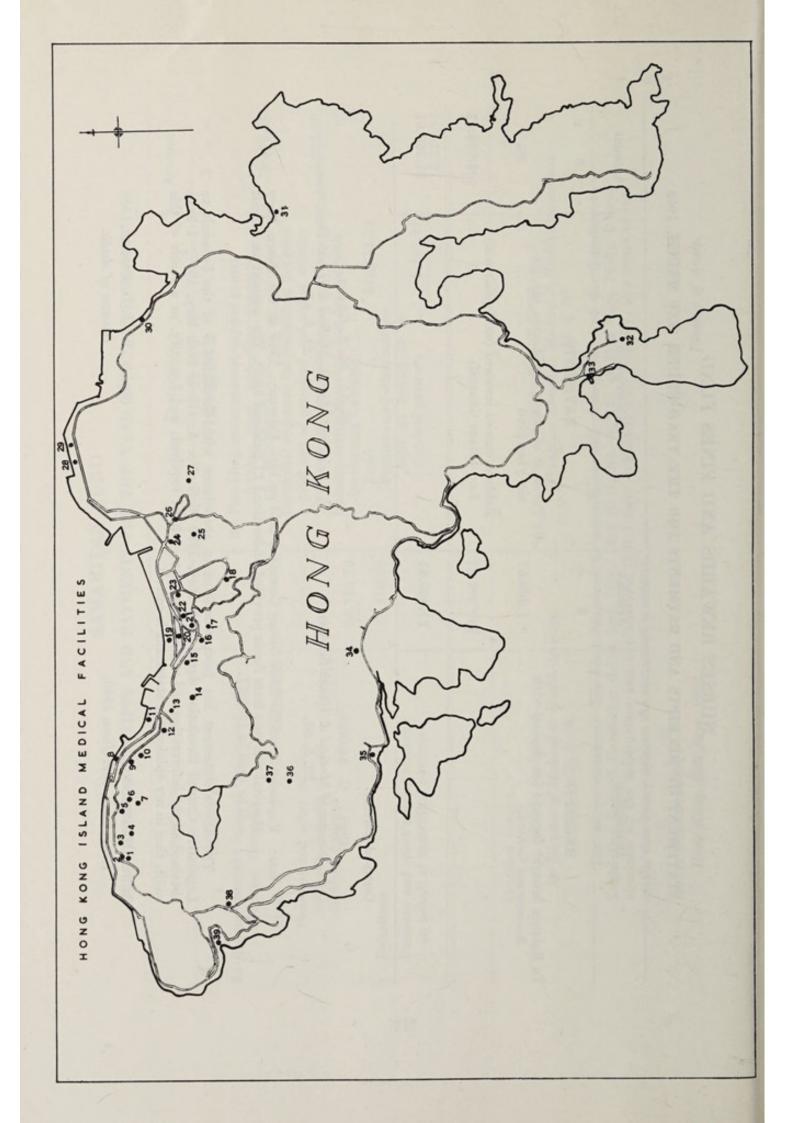
Principal Matron, Medical & Health Department.

Expenditure on the Prize Giving Ceremony held on 18th February, 1960 at the Queen Mary Hospital was met from funds provided under Head 17 Subhead 20(6). The amount on deposit will be used in 1960/61. \* Note:

The above statement has been examined in accordance with Condition 5 of the Schedule to Legislative Council Resolution dated 24th May, 1950 (G.N. No. A. 115 of 26th May, 1950). I have obtained all the information and explanations that I have required, and I certify, as a result of this audit, that in my opinion the statement is correct.

AUDIT DEPARTMENT, Hong Kong, 10th June, 1960.

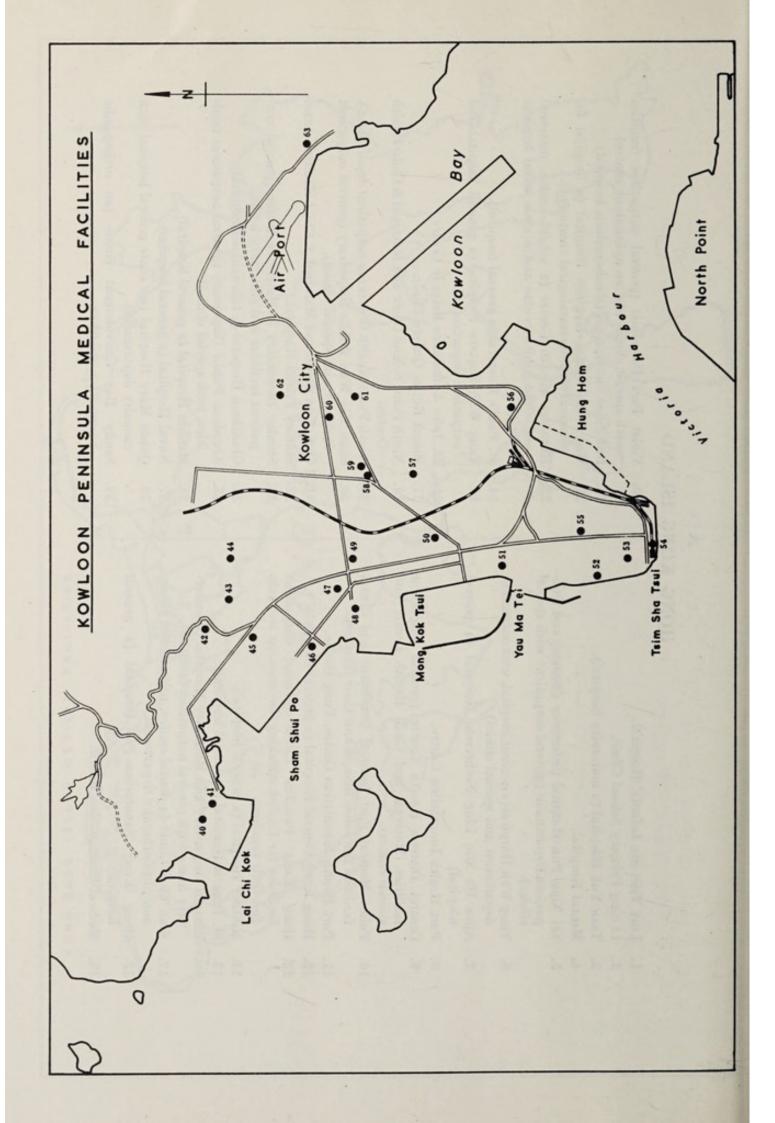
(Sgd.) W. J. D. COOPER, Director of Audit.



## HONG KONG ISLAND

- 1. Ling Yuet Sin Infants' Hospital.
- 2. Li Sing Primary School Clinic.
- . Tsan Yuk Hospital (a maternity hospital).
- 4. Mental Hospital.
- Sai Ying Pun Hospital (infectious diseases) and Outpatient Department (general outpatient with special clinics).
- Tung Wah Hospital (a general hospital, with outpatient department and special clinics).
  - 7. Alice Ho Miu Ling Nethersole Hospital (a general hospital).
- . Port Health Inoculation Centre.
- Central District Health Centre (general outpatient facilities, Maternal and Child Health Centre and special clinics).
- Police Medical Post (general outpatient and dental facilities for police officers and their families).
- 11. Port Health Inoculation Centre, Fung House.
- 12. Hong Kong Central Hospital (a general hospital).
- 3. Hong Kong Families Clinic (general outpatient facilities for English-speaking Government servants and their families).
- 4. Military Hospital (a general hospital).
- St. Francis Hospital (a general hospital).
- Eastern Dispensary and Maternity Hospital (a maternity home with general outpatient facilities).
- Wan Chai Clinic (a dental centre, tuberculosis clinic, and physiotherapy department).
- Hong Kong Sanatorium & Hospital (a general hospital).
- 19. Medical Examination Board.

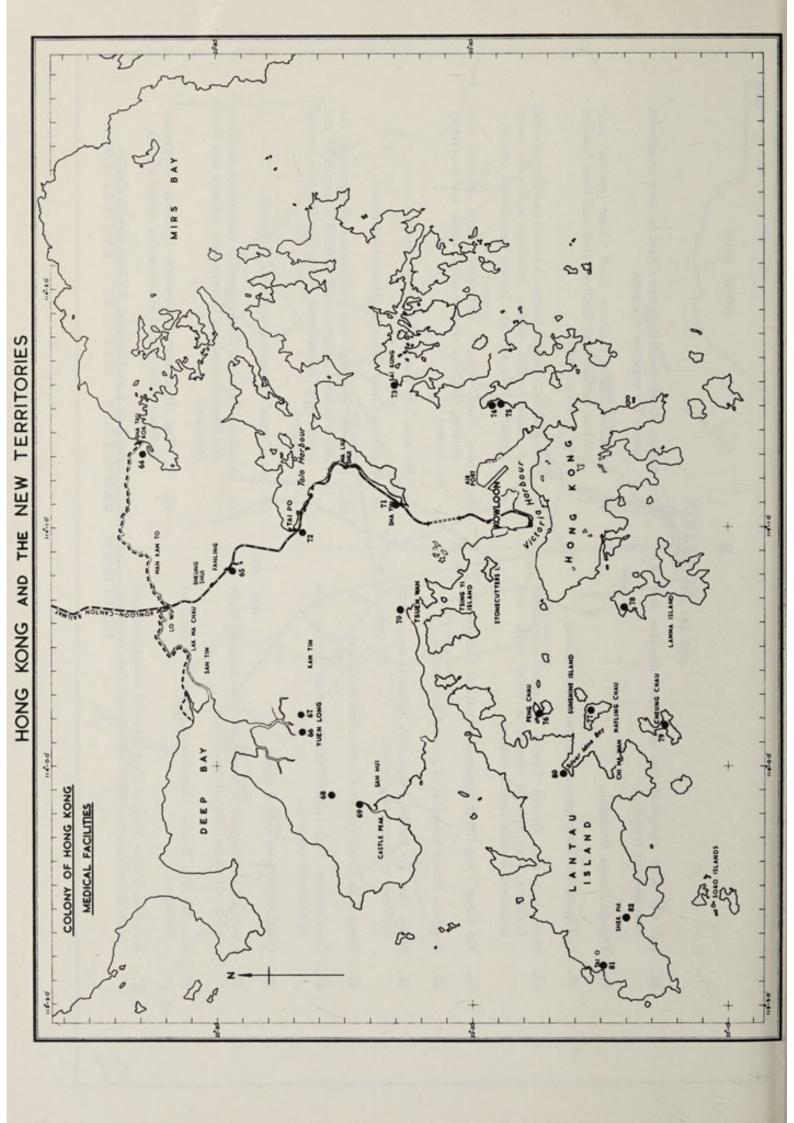
- Violet Peel Polyclinic (general outpatient facilities with special clinics and an ophthalmic centre).
- . Ruttonjee Sanatorium (a tuberculosis hospital).
- Wan Chai Social Hygiene Hospital (a hospital for venereal and dermatological treatment).
- 23. Harcourt Health Centre (a school health, maternal and child health centre and a male social hygiene clinic).
- 4. St. Paul's Hospital (a general hospital).
- Tung Wah Eastern Hospital (a general hospital and outpatient department).
- St. John Ambulance Brigade Centre.
- 27. Mount Butler Quarry Clinic.
- 28. North Point School Clinic and Maternal & Child Health Centre.
- 29. North Point Health Centre (an outpatient department).
- Shau Kei Wan Public Dispensary (general outpatient facilities with special clinics).
- 31. Chai Wan Clinic and Maternal & Child Health Centre.
  - .. Stanley Prison Hospital.
- Stanley Dispensary & Maternity Home (general outpatient facilities and maternity home).
  - 34. Grantham Hospital (a tuberculosis hospital).
- Aberdeen Public Dispensary (general outpatient facilities, with special clinics).
- 36. Matilda Hospital (a general hospital).
  - 37. Naval Hospital (a general hospital).
- Queen Mary Hospital (an acute general hospital with casualty department).
- 39. Sandy Bay Convalescent Home (an orthopaedic hospital for children).



### KOWLOON

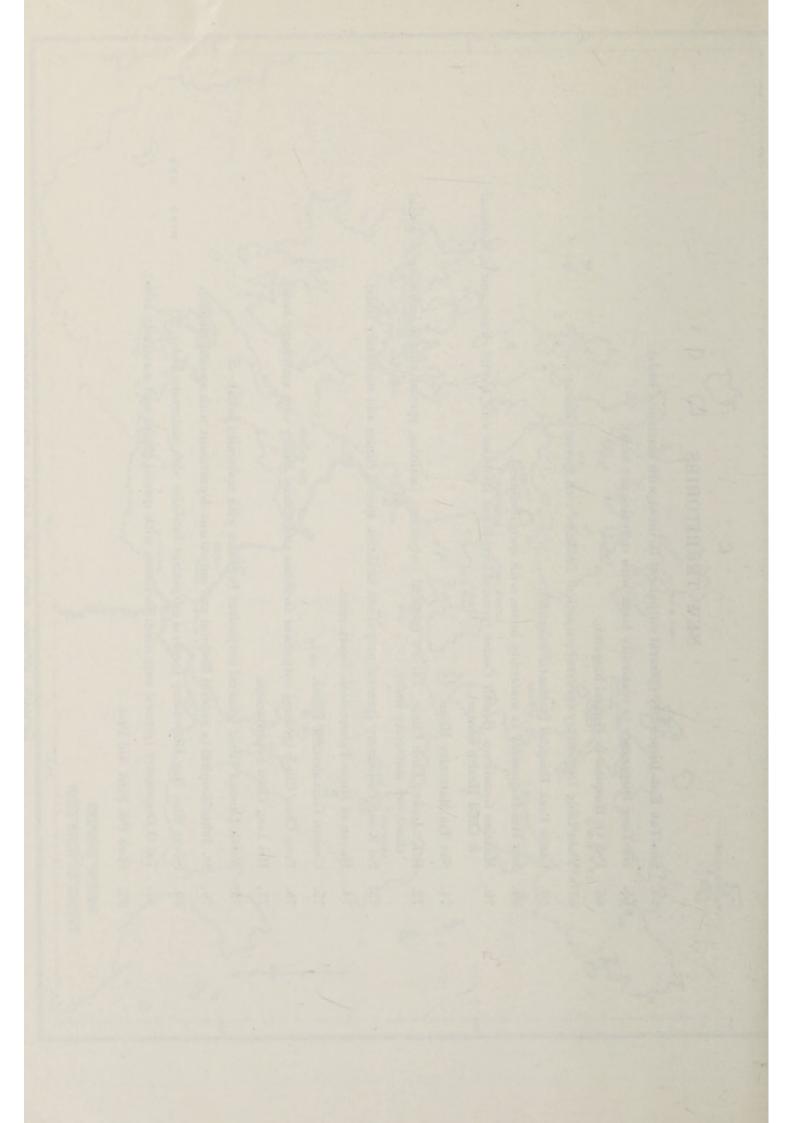
- Lai Chi Kok Hospital (an infectious diseases and convalescent hospital).
- 41. Female Prison Hospital.
- 42. Li Cheng Uk Clinic (general outpatient facilities).
- 43. Shek Kip Mei Health Centre (general outpatient facilities with special clinics, a chest clinic and maternal & child health centre).
- 44. Tai Hang Tung Clinic (general outpatient facilities).
- 45. Precious Blood Hospital (a general hospital).
- Sham Shui Po Public Dispensary (general outpatient facilities with special clinics).
- 47. Mong Kok Clinic (general outpatient facilities).
- Government Ophthalmic Clinic—Arran Street (an ophthalmic centre).
- 49. Queen Elizabeth School Clinic.
- Kwong Wah Hospital (a general hospital and infirmary with outpatient department).
- Yau Ma Tei Public Dispensary (general outpatient facilities).
- Kowloon Police Medical Post (general outpatient and dental facilities for police officers and their families).

- Ashley Road Social Hygiene Clinic (a male treatment centre for venereal disease).
- Kowloon-Canton Railway Staff Clinic (general outpatient facilities for Railway staff and their families and a dental clinic).
- 55. Tsim Sha Tsui Health Centre (a school health, maternal & child health centre, including a female social hygiene clinic and port health inoculation centre).
- Hung Hom Clinic & Maternity Home (general outpatient facilities with special clinics and maternity home).
- 57. Ho Man Tin Maternal & Child Health Centre.
- 58. Kowloon Chest Clinic (a tuberculosis clinic).
- Kowloon Hospital and Outpatient Department (an acute general hospital with casualty department and outpatient department with special and dental clinics).
- 60. St. Teresa's Hospital (a general hospital).
- Kowloon Families Clinic (general outpatient facilities for English-speaking Government officers and their families).
- Li Kee Memorial Dispensary (general outpatient facilities with special clinics and a dental clinic).
- 63. Ngau Tau Kok Maternal & Child Health Centre.



### NEW TERRITORIES

- Sha Tau Kok Dispensary (general outpatient facilities with maternity beds).
- . Ho Tung Dispensary (a maternity home with convalescent beds).
- 6. Pok Oi Hospital (a general hospital).
- 67. Yuen Long Dispensary (general outpatient facilities with special clinics).
- 68. Castle Peak Hospital (a mental hospital).
- 69. San Hui Dispensary (a maternity home, with special clinics).
- Maurine Grantham Health Centre (general outpatient facilities with special clinics and a Maternal & Child Health Centre).
- 71. Sha Tin Maternity Home.
- H.K. Jockey Club Clinic, Tai Po (general outpatient facilities, special clinics including a dental clinic and maternity beds).
- Sai Kung Dispensary (general outpatient facilities, special clinics and maternity beds).
- 74. Haven of Hope Tuberculosis Sanatorium.
- 75. Canaan Convalescent Home.
- Peng Chau Clinic (general outpatient facilities and special clinics with maternity beds).
- 77. Hei Ling Chau Leprosarium.
- 78. North Lamma Clinic (general outpatient facilities with maternity beds).
- St. John Hospital (a general hospital and outpatient department with special clinics).
- Silver Mine Bay Dispensary (general outpatient facilities with maternity beds).
- Tai O Dispensary (general outpatient facilities, with special clinics and maternity beds).
- 82. Shek Pik First Aid Post.



### APPENDIX 1

### ESTABLISHMENT OF THE MEDICAL & HEALTH DEPARTMENT AS AT 31.3.60

Radiologist Government Chem Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian Principal Almoner Almoner Class I a Executive Grade Clerical Staff Chief Pharmacist, Superintendent R Superintendent R Superintendent Pl Physicist Occupational The Chief/Senior Medic Senior Laboratory Chief Hospital Se Health Inspector Senior Inoculator Surgical Appliance Other Staff	cal Tech Assista cretary and Ind	acist, oher, S rapist, mologiant an and H laria I oculate ician	Class I Dispense enior I Physic ist and d Labor Lospital Inspector	ser and Radiographerap	l Disprapher, bist an	Radio d Assis	Supervegraphe	visor and Physiot			adiogra	pher	4 8 1 10 1,623 4 1 48 14 271 117 89 26 6 4 68 10 6 33 70 1 2,788
Government Chem Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian Principal Almoner Almoner Class I a Executive Grade Clerical Staff Chief Pharmacist, Superintendent Re Superintendent Pl Physicist Occupational The Chief/Senior Medic Senior Laboratory Chief Hospital Se Health Inspector Senior Inoculator	nist t Chemi and Alm Officer Pharma adiograp nysiother rapist cal Tech Assista cretary and Ma and Ind	st, Bio	chemis Class I Dispense enior I Physic ist and d Labo lospital Inspector	st and	Assist d Disp rapher, oist an al Lah Assist tary	ant Bio	Supervegraphe stant F	st   visor r and Physiot  nician	Assista	    t		pher	8 1 10 1 1,623 4 1 48 14 271 117 89 26 6 4 68 10 6 33 70
Government Chem Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian Principal Almoner Almoner Class I a Executive Grade Clerical Staff Chief Pharmacist, Superintendent R. Superintendent Pl Physicist Occupational Their Chief/Senior Medic Senior Laboratory Chief Hospital Set Health Inspector	nist t Chemi and Alm Officer Pharma adiograp nysiother rapist cal Tech Assista cretary and Ma	st, Bid	Class I	st and	Assist Assist I Disp rapher, bist an al Lah Assist	ant Bis	Supervegraphe tant F	st    visor r and Physiot  nician	Assista	    t		    	8 1 10 1 1,623 4 1 48 14 271 117 89 26 6 4 68 10 6 33
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Government Chem Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian Principal Almoner Almoner Class I a Executive Grade Clerical Staff Chief Pharmacist, Superintendent R Superintendent R Physicist Occupational Theo Chief/Senior Medic Senior Laboratory	nist t Chemi and Alm Officer Pharma adiograp ysiother rapist cal Tech	acist, oher, S	Class II	st and ser and Radiographerap Medicoratory	Assist	ant Bio	Supervegraphe	st	Assista	     t			8 1 10 1 1,623 4 1 48 14 271 117 89 26 6 4 68
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Government Chem Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian Principal Almoner Almoner Class I a Executive Grade Clerical Staff Chief Pharmacist, Superintendent R.	t Chemi and Alm Officer Pharma	st, Bio	 ochemis    Class I  Dispens	st and I ser and Radiogr	Assist	ant Bid	ochemi	st	      	     nt Ra	   	     pher	8 1 10 1 1,623 4 1 48 14 271 117 89
Government Chem Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian Principal Almoner Almoner Class I a Executive Grade Clerical Staff Chief Pharmacist, Superintendent R.	t Chemi and Alm Officer Pharma	st, Bio	 ochemis    Class I  Dispens	st and I ser and Radiogr	Assist	ant Bid	ochemi	st	      	     nt Ra			8 1 10 1 1,623 4 1 48 14 271 117
Government Chem Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian Principal Almoner Almoner Class I a Executive Grade Clerical Staff Chief Pharmacist,	nist t Chemi and Alm Officer Pharma	st, Bid	 ochemis    Class I	st and I ser and	Assist	ant Bid	ochemi	st					8 1 10 1 1,623 4 1 48 14 271 117
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Government Chem Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian Principal Almoner Almoner Class I a	nist t Chemi	st, Bid	ochemia	st and	 Assist 	ant Bie	ochemi	st					8 1 10 1 1 1,623 4 1 48
Government Chem Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian Principal Almoner	nist Chemi	st, Bid	ochemia	st and	 Assist 	ant Bie	ochemi	st					8 1 10 1 1 1,623 4
Government Chen Chemist, Assistant Principal Matron Scientific Officer Nursing Staff Dietitian	nist t Chemi 	 st, Bid	ochemis	st and	 Assist 	 ant Bid  	ochemi	st					8 1 10 1 1 1,623
Government Chen Chemist, Assistant Principal Matron Scientific Officer Nursing Staff	t Chemi	 st, Bio	ochemis	st and 	 Assist 	 ant Bid	ochemi	st					8 1 10 1 1 1,623
Government Chem Chemist, Assistant Principal Matron Scientific Officer	nist t Chemi 	 st, Bid	 ochemia	st and	 Assist 	ant Bi	 ochemi 	st					8 1 10 1 1
Government Chen Chemist, Assistant Principal Matron	nist t Chemi	 st, Bi	ochemis	st and	 Assist	 ant Bi	 ochemi 	 st					8 1 10 1
Government Chen Chemist, Assistant	nist t Chemi	st, Bi		 st and	 Assist	 ant Bi	 ochemi	 st					8 1 10
Government Chen	nist												8
											***		8
Radiologist													
		***	***					***	***			***	4
Pathologist													
Dental Surgeon a	nd Assis	stant 1	Dental	Surgeo	n		***						31
Officer and Hou						***							382
Medical Officer, A							al Offic		sistant		an Me		11 12
Senior Forensic P							***						1
Malariologist													1
Chief Port Health												24	1
Government Path	ologist												1
Ear, Nose & Thre	oat Spec	cialist				***			***				1
Obstetrical & Gyr	naecolog	ical Sp	pecialis	t					***		***	***	1
Orthopaedic Speci	ialist				***			***					1
Tuberculosis Spec											***		1
Surgical Specialist			***			***	***		***			***	5
Radiological Spec				***		***	***	***			***		3
Medical Specialist													2
Anaesthetic Speci			***		***			***					2
Dental Specialist					***	***							1
Ophthalmic Speci		***						***					1
Senior Psychiatric		list	***		***		***					***	1
Senior Social Hyg			t	***			•••	***				***	1
Senior Dental Spe				***	•••		***	•••				***	1
Senior Tuberculos	- CONT.						***	***				***	. 1
Senior Radiologica				***									1
Principal Health		allet	***		***		***			***	***	***	2
Principal Medical				***	***		***	***		***		***	5
Assistant Director					).)		***						1
Assistant Director				OTT C T		***		***		***			1
Assistant Director					***		•••		***		***		1
Deputy Director							***		***				1
Director of Medic					***		***		***	***	***		1
D:	-1 O TT	1.1 4											

APPENDIX 2

STATEMENT OF EXPENDITURE FROM 1950/51 TO 1959/60

	1959/60	00	45,925,081	18,988,424	15,442,311	80,355,816
	1958/59	oo.	39,792,228	14,178,093	5,755,291	59,725,612
	1957/58	40	34,864,883	9,706,931	1,408,976	45,980,790
	1956/57	60	30,048,868	7,411,263	1,706,233	39,166,364
	1955/56	40	27,002,383	6,185,682	1,779,424	34,967,489
	1954/55	w.	25,105,401	6,281,573	3,639,250	35,026,224
	1953/54	00	23,704,484	5,550,973	1,297,135	30,552,592
	1952/53	o.	21,338,770	4,543,185	210,672	26,092,627
	1951/52	so.	15,761,891	4,238,183	312,715	20,312,789
	1950/51	w	11,974,333	3,427,329	264,865	15,666,527
	Particulars		(a) Medical and Health Depart- ment	Medical Subventions	Capital expenditure on medical projects under Public Works Non-Recurrent	Total
1			(a)	<u>@</u>	<u> </u>	

APPENDIX 3

### NOTIFIABLE DISEASES REPORTED CASES AND DEATHS 1958 AND 1959

Diseases	No. of N	otifications	No. of Deaths		
Diseases	1958	1959	1958	1959	
Cholera	-	-	_	_	
Plague	-	_	_	-	
Smallpox	-	_	-	-	
Yellow fever	-	_	_	_	
Relapsing fever	_	_	_	SHELL BY	
Typhus (epidemic louse-borne)	_	_	-	-	
Turban	_	_	_	_	
Typhus Scrub	1	-	-	Hangan e	
Amoebiasis ,	262	239	12	18	
Bacillary	423	662	24	25	
Dysentery Unspecified	1	1	1	1	
Typhoid	783	970	31	31	
Enteric fever Paratyphoid	33	27	3	1	
Poliomyelitis	262	86	41	20	
Chickenpox	278	278	3	3	
Cerebrospinal meningitis	28	25	17	17	
Diphtheria	1,555	2,087	134	116	
Measles	786	743	191	176	
Scarlet fever	10	24	_	_	
Whooping cough	197	110	2	2	
Puerperal fever	4	1	-	-	
Ophthalmia neonatorum	105	244	-	_	
( Human	_	_	-	of ware	
Rabies Animal	0	0	0	0	
Malaria	659	442	1	1	
Tuberculosis	13,485	14,302	2,302	2,178	
Total	18,872	20,241	2,762	2,589	

<sup>\*</sup> Ophthalmia neonatorum was declared notifiable in June 1958.

APPENDIX 4

ANTI-EPIDEMIC PROPHYLACTIC IMMUNIZATIONS 1958 AND 1959

Immunological P	rocedure	Box to	1958	1959
ocos L piec	Mal	87	564.044	1 004 104
Anti-Smallpox Vaccination			564,244	1,034,138
Anti-Cholera Inoculation			93,155	36,245
anti-Diphtheria Inoculation	s:			
1st Dose			109,336	223,209
2nd Dose			90,396	144,118
Booster Dose			42,330	63,582
anti-Typhoid Inoculations :				
1st Dose			103,381	141,342
2nd Dose			70,833	101,174
Booster Dose			95,044	92,712
anti-Plague Inoculation			236	205
nti-Typhus Inoculation			1,082	1,597
nti-Rabies:		700		
1st Dose			3,046	3,577
Other Doses			12,266	13,872
nti-Tuberculosis (B.C.G.) V	accinations:	1- 100		
Infants			49,865	62,261
Others			10,390	8,518

APPENDIX 5

NUMBER OF HOSPITAL BEDS IN HONG KONG — 1959

	Medical	Surgical	Gynaecol- ogical	Tuber- culosis	Mental	Maternity	Infectious	Observa- tion	Total
GOVERNMENT HOSPITALS:									
Oueen Mary		229	46	48	1	37	1	14	109
Kowloon	95	123	20	1	1	825	7	12	339
		1	1	1	140	1	-	!	140
	1	1	1	1	120	1	1	1	120
	1	1	1	1	1	1	88	1	888
:	1	1	1	1	1	200	3		000
		206	14	888	-	2	120		475
ernity		1		1	1	24		1	24
							(22		
Wan Chai Social Hygiene	1	1	1	1	1	1	4 cots	1	30
							( 4 cradles		
St. John		13	1	45	1	15	10	1	100
Stanley Prison	77.	23 -	1	20	1	1	18	1	65
Lai Chi Aok Female Frison		1	1	1	1	-	1	1	13
	440	581	80	198	260	359	268	26	2.212
GOVERNMENT-ASSISTED HOSPITALS:									20062
* Tung Wah	217	151	80	217	1	49	10	1	652
Tung Wah Eastern		42	16	49	1	48	18	1	336
+ Kwong Wah		139	20	09	1	160	1	1	629
Alice Ho Miu Ling Nethersole		+ 85	64	14	1	80	1	1	287
The Hong Kong Anti-T.B. Association,									
Ruttonjee Sanatorium	1	1	1	336	1	1	1	1	336
Grantham		1	1	240	1	1	1	1	540
Pok Oi	40	1	1	1	1	10	1	1	20
Hei Ling Chau Leprosarium	1	1	1	1;	1	1	540	1	540
Haven of Hope I.B. Sanatorium	1	1:	1	210	1	1	1	1	210
Sandy Bay Convalescent Home		96	1	1	1	1	1	1	54
	762	468	93	1,426	-1	347	568	1	3,664
PRIVATE HOSPITALS: Hong Kong Sanatorium & Hospital	101	86	9.0	33		43	14		916
		10	1	57	1	2	:		108
		20	10	10	1	17	9		200
: :		24	1	10	1	: 1	0.00	1	20
St. Paul's	06	22	1	34	1	26	-	1	172
Hong Kong Central		30	9	10	1	10	4	1	06
Ling Yuet Sin Infants'	86	5	1	1	1	15	61	1	120
Matilda & War Memorial		15	20	1	1	12	1	1	52
Canaan Convalescent Home	1	1	1	70	1	1	1	1	70
	439	224	20	222	1	130	28	1	1.093
									arate.

APPENDIX 5-Contd.

	Medical	Surgical	Gynaecol- ogical	Tuber- culosis	Mental	Maternity	Infectious	Observa- tion	Total
PRIVATE MATERNITY HOMES:		1	1	1	1	527	1	1	527
PRIVATE NURSING HOMES:		1	1	1	1	1	1	1	28
GOVERNMENT DISPENSARIES AND		Core Core							
Stanley	-		1	1	-	9	- 1	1	9
Jockey Club Clinic	C3	1	1	1	1	15 61	1	1	27
Yuen Long	1	1	1	1	1	7	1	1	7
· · · · · · · · · · · · · · · · · · ·	1	1	1	1	1	3	1	1	69
	9	1	1	1	1	7	1	1	13
mg	1	1	1	1	1	7	1	1	1
		1	1	1	1	15	1	1	19
San Hui	!	1	1	1	1	65	1	1	60
Sha Tin Maternity Home	1	1	1	-	1	4	1	1	4
Silver Mine Bay Maternity Home	1	1	1	1	1	9	1	1	9
Maurine Grantham Health Centre	1	1	1	1	1	26	1	1	26
North Lamma Clinic	1	1	1	1	1	9	1	1	9
Peng Chau	1	1	1	1	1	9	1	1	7
Нипд Нот	-	1	1	1	1	14	1	1	14
	13	-	1	1	1	135	1		148
GOVERNMENT HOSPITALS	440	581	80	198	260	359	268	26	2,212
GOVERNMENT-ASSISTED HOSPITALS	762	468	93	1,426	1	347	568	1	3,664
PRIVATE HOSPITALS	439	224	50	222	1	130	28	1	1,093
PRIVATE MATERNITY HOMES	1	-	1	1	1	527	1	1	527
PRIVATE NURSING HOMES	58	1	1	1	1	1	1	1	58
GOVERNMENT DISPENSARIES AND MATERNITY HOMES	13	1	1	1	1	135	1	1	148
GRAND TOTAL	1,712	1,273	223	1,846	260	1,498	864	26	7,702
		-							

<sup>\*</sup> Including 86 T.B. beds in Infirmary, Sandy Bay.

† Including 125 beds (i.e. 40 Med. & 85 Surg.) in Infirmary at Kwong Wah Hospital.

‡ Including 43 beds used for either medical or surgical cases.

APPENDIX 6

ANNUAL INCIDENCE AND TREND OF VENEREAL DISEASE

	1921	1952	1953	1954	1955	1956	1957	1958	1959
Syphilis:									
Primary	562	672	634	393	153	93	17	6	19
Secondary	301	180	132	54	34	20	-	es	6
Early Latent	1,101	882	2,298	2,209	1,044	733	450	417	426
Late Latent	1,038	1,275	2,727	3,983	2,853	2,616	2,532	2,766	2,038
All Others	213	207	178	186	148	166	184	177	188
Gonorrhoea	6,903	8,546	11,625	10,785	11,309	10,609	8,881	8,360	8,362
Non-gonococcal Urethritis	1	1	870	770	869	776	800	644	481
Chancroid	2,347	2,400	2,507	2,365	2,468	1,614	685	294	324
Lymphogranuloma Venereum.	197	111	208	286	249	140	178	91	53
Non Venereal Disease	1,643	4,508	7,708	7,150	6,623	6,245	5,855	5,458	4,997

APPENDIX 7
CLASSIFICATION OF DERMATOLOGICAL CASES 1958 AND 1959

	Diagnosis		Total No. of Cases 1958	Percentage	Total No. of Cases 1959	Percentage
1.	Abrasions		22	0.64	110	1.09
2.	Acne		21	0.62	66	0.65
3.	Alopecia Areata		19	0.54	41	0.41
4.	Boils, Folliculitis		516	14.69	1,566	15.65
5.	Carcinoma		7	0.20	22	0.22
6.	Contact Dermatitis		604	17.19	1,667	16.66
7.	Dermatitis due to Clogs		17	0.48	59	0.59
8.	Eczema—Atopic		9	0.25	47	0.47
9.	Eczema—Infantile		172	4.90	453	4.53
10.	Eczema—Infective		137	3.90	215	2.15
11.	Farance Canatana		10	0.30	64	0.64
12.	Eczema—Scrotum Eczema—Miscellaneous	•••	285	8.11	695	6.95
13.	Exfolistive Dermatitis		200	-	8	0.08
14.	E-1- M-1-'C-	•••	20	0.57	26	0.26
15.	Emathema Nadama	***	10	0.30	10	0.10
16.	Hamas Zastas		5	0.14	33	0.33
17.			3	0.09	9	0.09
18.	Ichthyosis, Xorosis		365	10.39	671	6.71
	Impetigo					
19.	Leprosy		75	2.13	135	1.35
20.	Lichen Planus		4	0.11	12	0.12
21.	Lupus Erythematous		17	0.48	39	0.39
22.	Moniliasis	•••	7	0.20	9	0.09
23.	Neurodermatitis		105	2.99	463	4.63
24.	Porphyria		1	0.03	1	0.01
25.	Perionychia, Whitlow		4	0.11	15	0.15
26.	Pediculosis				68	0.68
27.	Pomphlolyx		5	0.14	34	0.34
28.	Prickly Heat		36	1.03	128	1.28
29.	Pruritis		91	2.59	250	2.50
30.	Psoriasis		39	1.11	73	0.73
31.	Purpura		7	0.20	11	0.11
32.	Ringworm of Scalp		13	0.37	37	0.37
33.	Ringworm of Body		27	0.77	137	1.37
34.	Ringworm of Groins		12	0.34	50	0.50
5.	Ringworm of Feet and Hands		94	2.67	247	2.47
6.	Rosacea		4	0.11	14	0.14
7.	Scabies		38	1.08	225	2.25
8.	Scleroderma, Sclerodoctyly		_	-	7	0.07
9.	Tuberculosis of Skin		27	0.77	36	0.36
0.	Undetermined (Not Classed)		497	14.15	1,554	15.54
1.	Urticaria		34	0.96	118	1.18
2.	Varicose Dermatitis/Ulcer		49	1.42	118	1.18
3.	Warts		27	0.77	196	1.96
4.	Seborrhoeic Dermatitis		43	1.22	107	1.07
5.	Leucoderma		32	0.94	158	1.58

APPENDIX 8

IN-PATIENTS TREATED IN GOVERNMENT AND GOVERNMENT ASSISTED HOSPITALS, 1959 CLASSIFIED ACCORDING TO INTERNATIONAL STANDARD CLASSIFICATION INTERMEDIATE LIST OF 150 CAUSES

Inter-	-re	Datailed	The state of the latest and the state of the	Cases 1	Cases Treated	Deaths	ths		Deaths	ths	
mediate List	iate	List	Cause Groups	Govern-	Govern-	Govern-	Govern-		Whole Colony	Colony	
Number	per	Number		Hospitals	Pa	ment Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
A 1		001 - 008	Tuberculosis of respiratory system	876	3,834	19	814	1,246	445	1	1,691
A 2		010	Tuberculosis of meninges and		-	0.00	,,,,	100			
		110	system	108	554	30	340	224	199	1	423
A		1110	toneum and mesenteric glands	19	31	1	2	9	9	1	12
A 4		012 - 013	Tuberculosis of bones and joints	102	503	1	11	9	10	1	16
A 5		014 - 019	Tuberculosis, all other forms		131	10	21	24	12	1	36
A 6		020	Congenital syphilis		1	1	1	1	1	i	1
A . 7		021	Early Syphilis		1	1	1	1	1	1	1
A 8		024	:		6	1	64	3	I	1	3
A 9		025	General paralysis of insane	-	7	* 17	-	17	1	I	18
A 10		022 - 023	All other syphilis	62	34	7	9	55	1	1	26
		026 - 029									
A 11		030 - 035	Gonococcal infections		1	1	1	1	T	1	1
A 12		040		487	304	9	21	13	18	1	31
		041 - 042	Paratyphoid fever and other								
			Salmonella infections	22	4	_	1	23	1	1	2
A 14		043	Cholera	1	1	1	1	I	I	1	1
A 15		044	Brucellosis (undulant fever)	1	1	1	1	1	I	1	1
A 16	16 (a)	045	Bacillary dysentery		32	6	3	20	S	1	25
	(3)	046	Amoebiasis	107	28	2	00	12	9	1	18
	(E)	047 - 048	Other unspecified forms of dysentery		1	1	1	-	1	1	-
A 17		020	:	18	1	1	1	1	T	1	1
			Carried forward	2,658	5,471	145	1,238	1,629	703	1	2,332

\* Including 1 death from A114(c)

Inter-	Detailed		Cases Treated		Deaths		Deaths	ths	
List	List	Cause Groups	Govern-	Govern- ment Govern-	Govern-		Whole Colony	Colony	
Number	Jammy		Hospitals	Assisted Hospitals Hospitals	VH.	Male	Female	Sex Un- known	Total
		Brought forward	2,658	5,471 145	1,238	1,629	703	1	2,332
A 18	051	Streptococcal sore throat	4	1	1	1	1	1	1
4 19	052		1	1	1	1	-	1	1
A 20	053	a and pyaemia	09	79 46	41	55	37	1	92
	055		1,9	16 116		55		1	116
	026	Whooping cough			1	1	1	1	2
	057	occal infections	10	8	9	6	8	1	17
	058	Plague	1	1	1	1	1	1	1
A 25	090	Leprosy	71	- 199		23	1	1	2
	190	Tetanus	143	35 62	25	55	32	1	87
	062	Anthrax	1	1	1	1	1	1	1
	080	Acute poliomyelitis	83	1 16	1	6	11	1	20
	082	Acute infectious encephalitis	2	1	1	3	1	1	3
A 30	081, 083	Late effects of acute poliomyelitis							
		and acute infectious encephalitis	12	30	1	1	-	1	1
	084	Smallpox	1	1	1	1	4.4	1	1
	085	Measles	252	68 59	13	75	101	1	176
	091	Yellow fever	1	1	1	1	1	1	1
A 34	092	Infectious hepatitis	46	18 3	6	5	7	1	12
32	094	Rabies	1	1	1	1	1	1	1
A 36 (a)	100	Louse-borne epidemic typhus	1	1	1	1	!	1	1
(9)	101	Flea-borne epidemic typhus (murine)	1	1	1	1	1	1	1
(c)	104	Tick-borne epidemic typhus	1	1	1	-	1	1	1
(p)	105	Mite-borne typhus	1	1	1	1	-	1	1
(e)	102 - 103	Other and unspecified typhus	1	1	1	1	1	1	1
	106 - 108						39		
A 37 (a)	110	Vivax malaria (benign tertian)	15	28	1	I	1	1	1
		Carried forward	5,296	6,415 454	1,335	1.898	961	1	2.859

Inter-	Datoiled		Cases Treated	reated	Deaths	ths		Dea	Deaths	
mediate List	List	Cause Groups	Govern-	Govern-	Govern-	Govern-		Whole	Whole Colony	
Number	Number		ment Hospitals	pla	Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
		Brought forward	5 996	6.415	454	1 335	1 808	190		9 850
		monday Johnana	0,50	Crasio	101	1,000	1,020	100		4,000
A 37 (b)	111	Malariae malaria (quartan)	1	1	1	1	1	T	1	-
(c)	711	(Manghant	1	-	1	1	1	1	-	1
1.3	115	tower	-							
(g)	113 114	Other and unspecified forms of								
(2)	116, 117	malaria	19	7	1	1	1	1	1	1
A 38 (a)	123.0	Schistosomiasis vesical (S. Haema-								
		tobium)	1	1	1	1	1	1	1	1
(q)	123.1	Schistosomiasis intestinal (S. Man-								
		soni)	1	1	1	1	1	1	1	1
(c)	123.2	Schistosomiasis pulmonary								
		(S. Japonicum)	1	1	1	1	1	1	1	1
(p)	123.3	Other and unspecified schis-								
		tosomiasis	3	5	1	1	1	1	1	1
A 39	125	Hydatid disease	1	1	1	1	i	1	1	1
A 40 (a)	127	Onchocerciasis	1	1	1	1	1	1	1	1
(g)	127	Loiasis	1	1	1	1	1	1	1	1
(c)	127	Filariasis (bancrofti)	1	1	1	i	1	1	1	1
(p)	127	Other filariasis	9	1	1	1	1	1	1	1
A 41	129		18	28	1	1	1		1	5
A 42 (a)	126	Tapeworm (infestation) and other								
		cestode infestations	1	1	1	1	1	1	1	1
(9)	130.0	Ascariasis	26	46	1	1	1	1	1	1
(3)	130.3	Guinea Worm (dracunculosis)	1.	1	1	1	1	1	1	1
(p)	124, 128	Other diseases due to helminths	9	30	1	!	1	1	1	1
	130.1, 130.2									
A 43 (a)	037	Lymphogranuloma venereum	1	1	1	1	1	1	1	1
		Carried forward	5,382	6,528	454	1,336	1,900	963	1	2,863
-							-			-

Number   Number   Cause Groups   Government	Detailed	Cases Treated		Deaths		Dea	Deaths	
Brought forward 5,382		Govern-	Govern- ment Govern-	Govern-		Whole	Whole Colony	-
Brought forward 5,382		Hospitals	Assisted Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
038  Other and unspecified venereal diseases 049 Prood poisoning infection and intoxication 071 Relapsing fever 072 Chickenpox 096 Trachoma 096 Trachoma 096 Trachoma 121 (a) Trypanosomiasis ambiensis (b) Trypanosomiasis rhodesiensis (c) Trypanosomiasis classified as befases 131 Dermatophytosis 135 Scabies 036,054,070, infective and parasitic 096.1,096.6, 096.9,093, 136-138  Other and unspecified 137 Scabies 138 Scabies 139 Scabies 130 Other diseases classified as infective and parasitic 130 131 Scabies 135 Scabies 136-138		5.382	6.528 454	1.336	1.900	963	1	2.863
039 Other and unspecified venereal diseases 1  Food poisoning infection and intoxication 072 Relapsing fever		1		2,000	2000			2,000
Proof poisoning infection and intoxication and intoxication   13     Relapsing fever   12     Neil's disease   12     Naws   12     Offickenpox   12     Dengue   12     Trachoma   12     Chickenpox   12     Dengue   12     Trypanosomiasis gambiensis   12     Trypanosomiasis rhodesiensis   13     Trypanosomiasis rhodesiensis   13     Trypanosomiasis   13     Dermatophytosis   13     Dermatophytosis   13     Scabies   13     Other diseases classified as   13     Other diseases classified as   13     Other diseases classified as   13     Official   13     Official   13     Official   14     Official   15     Official	Other and unspecified venereal diseases	-						
Relapsing fever   Relapsing fever   Relapsing fever   Ceptospirosis icterohaemorrhagica   Vaws   Vams   V	Food poisoning infection and	•						
071 Relapsing fever	:	13	4	1	1	3	1	4
072 Leptospirosis icterohaemorrhagica  073 Yaws  087 Chickenpox  096.7 Trachoma  120 Trypanosomiasis gambiensis  (c) Trypanosomiasis rhodesiensis  131 Dermatophytosis  135 Scabies  036,054,059, 122,132-134, 136-138		1	1	1	1	1	1	1
073 Yaws 45 087 Chickenpox 45 090 Dengue 45 096.7 Trachoma 120 Trapanosomiasis gambiensis (b) Trypanosomiasis prodesiensis (c) Trypanosomiasis rhodesiensis (d) Trypanosomiasis rhodesiensis (e) Trypanosomiasis canding force 131 Trypanosomiasis	Leptospirosis icterohaemorrhagica							
073 Yaws  087 Chickenpox  090 Dengue  120 Trachoma  121 (a) Trypanosomiasis gambiensis  (b) Trypanosomiasis rhodesiensis  (c) Other and unspecified trypanosomiasis  131 Dermatophytosis  135 Scabies  085,054,070, infective and parasitic  136-138 Trypanosomiasis  131 Dermatophytosis  132 Scabies  134 Scabies  135 Other diseases classified as infective and parasitic  136-138 Trypanosomiasis  137 Dermatophytosis  138 Scabies  139 Scabies  130-131 Dermatophytosis  131 Dermatophytosis  131 Dermatophytosis  132 Trypanosomiasis  133 Dermatophytosis  134 Dermatophytosis  135 Trypanosomiasis  137 Dermatophytosis  138 Scabies  139 Dermatophytosis  131 Dermatophytosis  131 Dermatophytosis  132 Trypanosomiasis  133 Dermatophytosis  134 Dermatophytosis  135 Trypanosomiasis  137 Dermatophytosis  138 Scabies  139 Dermatophytosis  131 Dermatophytosis  132 Trypanosomiasis  131 Dermatophytosis  132 Trypanosomiasis  133 Dermatophytosis  134 Dermatophytosis  135 Trypanosomiasis  137 Dermatophytosis  138 Scabies  139 Dermatophytosis  130 Dermatophytosis  131 Dermatophytosis  132 Dermatophytosis  133 Dermatophytosis  134 Dermatophytosis  135 Dermatophytosis  137 Dermatophytosis  138 Dermatophytosis  139 Dermatophytosis  130 Dermatophytosis  131 Dermatophytosis  132 Dermatophytosis  133 Dermatophytosis  134 Dermatophytosis  135 Dermatophytosis  136 Dermatophytosis  137 Dermatophytosis  138 Dermatophytosis  139 Dermatophytosis  130 Dermatophytosis  131 Dermatophytosis  132 Dermatophytosis  133 Dermatophytosis  134 Dermatophytosis  135 Dermatophytosis  136 Dermatophytosis  137 Dermatophytosis  138 Dermatophytosis  139 Dermatophytosis  130 Dermatophytosis  130 Dermatophytosis  131 Dermatophytosis  131 Dermatophytosis  1	disease)	1	1	1	1	1	1	i
087 Chickenpox 45 090 Dengue 095 Trachoma 120 Trachoma 120 Leishmaniasis gambiensis 121 (a) Trypanosomiasis gambiensis (b) Trypanosomiasis rhodesiensis (c) Trypanosomiasis 131 Trypanosomiasis 132 Scabies 2 036,054,059, all other diseases classified as infective and parasitic	: :	1	i	1	1	1	1	1
090 095 Trachoma 096.7 Sandfly fever 120 Leishmaniasis 121 (a) Trypanosomiasis gambiensis (b) Trypanosomiasis rhodesiensis (c) Trypanosomiasis rhodesiensis (d) Trypanosomiasis rhodesiensis (e) Trypanosomiasis rhodesiensis (f) Trypanosomiasis control Trypanosomiasis  131 Dermatophytosis 135 Scabies 135 Scabies 135 Scabies 136-138 136-138 136-138	xo	45	15 2	1	3	1	1	3
095 Trachoma	: : :	1	1	1	1	1	1	1
120 (a) Trypanosomiasis gambiensis  (b) Trypanosomiasis rhodesiensis (c) Other and unspecified  131 (a) Trypanosomiasis rhodesiensis (b) Trypanosomiasis rhodesiensis (c) Other and unspecified  131 (a) Trypanosomiasis rhodesiensis (b) Other and unspecified  132 (b) Other and unspecified  135 (c) Other and unspecified  135 (c) Other diseases classified as classified as infective and parasitic	Trachoma	1	1	1	1	1	1	!
120 Leishmaniasis	Sandfly fever	1	1	1	1	1	1	1
121 (a) Trypanosomiasis gambiensis (b) Trypanosomiasis rhodesiensis (c) Other and unspecified trypanosomiasis		1	1	1	1	1	1	1
(b) Trypanosomiasis rhodesiensis (c) Other and unspecified trypanosomiasis	Trypanosomiasis gambiensis	1	1	i	1	1	1	1
131 trypanosomiasis 8 135 Scabies 2 036,054,070, infective and parasitic 55 098,093, 096.1,096.6, 096.8,096.9, 1122,132-134, 136-138	Trypanosomiasis rhodesiensis	1	1	1	1	1	-	1
131 Dermatophytosis 8 135 Scabies 2 036,054,059, All other diseases classified as o63,064,070, infective and parasitic 55 096.1,096.6, 096.9, 122,132-134, 136-138	Other and unspecified							
131 Dermatophytosis 8 135 Scabies 2 036,054,059, All other diseases classified as 063,064,070, infective and parasitic 55 infective and parasitic 55 096.1,096.6, 096.1,096.9, 122,132-134, 136-138		1	1	1	-	1	1	1
135 Scabies 2 036,054,059, All other diseases classified as 063,064,070, infective and parasitic 55 074,086,088, 096.1,096.6, 096.1,096.9, 122,132-134, 136-138		8	1	1	1	1	1	1
036,054,059, All other diseases classified as 063,064,070, infective and parasitic 55 074,086,088, 096.1,096.6, 096.8,096.9, 122,132-134, 136-138		2	1	1	1	1	1	1
063,064,070, infective and parasitic 55 074,086,088, 089,093, 096.1,096.6, 096.8,096.9, 1122,132-134, 136-138	All other diseases classified as							
	infective and parasitic	22	41 2	9	15	33	1	80
				,	,			
	.9.9							
	6.9,							
	134,							
		1	1					-
909'9	Carried forward	2,506	6,588 458	1,342	1,909	696	1	2,878

Inter-	Detailed		Cases 7	Cases Treated	Deaths		Dea	Deaths	
List	List	Cause Groups	Govern-	Govern- ment Govern-	a- Govern-		Whole	Whole Colony	
Number	Tanimper	appropriate the second	Hospitals	Assisted Hospitals	AH	Male	Female	Sex Un- known	Total
		Brought forward	5,506	6,588 458	8 1,342	1,909	696	İ	2,878
A 44	140 - 148	Malignant neoplasm of buccal							
		X	125	216 2	21 129	141	73	1	214
A 45	150		73			52		1	71
A 46 A 47	151	of o	06	192	19 104	113	117	1	230
		:	57	112	4 62	64	56	1	120
	154	Malignant neoplasm of rectum	99	53	4 22	23		1	45
4 49	191		12	17	3 4	12		1	14
A 50	162 - 163	Malignant neoplasm of trachea,							
		dary mang not	07	116	91 75	196	26	1	606
A 51	170	Malignant neoplasm of breast	100					1	88
	171		270	136	7 81	-	133	!	133
A 53	172 - 174	Malignant neoplasm of other and							
			46	113	4 23	1	53	1	53
	177	Malignant neoplasm of prostate	S	3	- 1	2	1	1	5
	190 - 191		80	- 1	- 3	1	5	1	9
A 56	196 - 197	Malignant neoplasm of bone and							
		:	32	17	4 9	6	15	1	24
A 57		Malignant neoplasm of all other							
		and unspecified sites	308	462 100	0 274	368	183	1	551
	175 - 176								
	100 - 101								
	198 - 199								
A 58	204	Leukaemia and aleukaemia	75	36 2	25 24	40	27	1	19
		Carried forward	6,870	8,187 694	4 2,209	2.863	1,838	1	4,701

Inter-	Deteiled		Cases Treated	reated	Deaths			Deaths	ths	
mediate List	List	Cause Groups	Govern-	Govern- ment Govern-	rn- Govern-	-in-		Whole Colony	Colony	
Number	Number		ment Hospitals	Assisted Hospitals	ΥH.	ted	Male	Female	Sex Un- known	Total
		Brought forward	6.870	8 187 6	604 2,200	-	2.863	1 838	1	4.701
A 59	200 - 203	Lymphosarcoma and other	2,000			_	1	20064		****
	205	neoplasms of lymphatic and								
		haematopoietic system	62	18	14	1	18	14	1	32
A 60	210 - 239	Benign neoplasms and neoplasms								
		na	921	379	13	1	12	16	1	28
A 61	250 - 251	Nontoxic goiter		12	1	1	T	I	1	1
A 62	252	Tyrotoxicosis with or without goiter		53	-	S	1	12	1	12
A 63	260	Diabetes mellitus	157	7.4	4	8	19	21	1	40
A 64 (a)	280	Beriberi	17	7	1	1	4	3	i	-
(q)	281	Pellagra	1	1	1	1	1	1	1	1
(3)	282	Scurvy	1	1	1	1	1	1	1	1
(g)	283 - 286	Other deficiency states	45	197	1	28	24	9	1	30
A 65 (a)	• 290	Pernicious and other hyperchromic	1							
		anaemias	9	2	1	1	1	1	1	1
(p)	291	Iron deficiency anaemias								
			17	26	1	1	1	2	1	53
<u></u>	292 - 293	Other specified and unspecified								,
		anaemias	206	150	91	91	18	14	1	32
A 66 (a)	241		136	489	53	1	43	27	1	10
(g)	240,	disorders,								
		endocrine, metabolic and blood		.0.			,,			00
	253, 254,	diseases	377	121	21	2	14	14	1	28
	294 - 299					-				
					_	-				
		Coming formand	0 00 0	0 718	606 6 191	+	3 015	1 968		4 983
		Carried Jornard		-	-	-	0,010	4,200		4,200

Inter-	Detailed	Sand in manufacture of the contract	Cases 7	Cases Treated	Deaths	ths		Des	Deaths	
List	List	Cause Groups	Govern-	Govern- ment	Govern-	Govern-		Whole	Whole Colony	-
Number	Tommer		Hospitals	Assisted Hospitals	Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
		Brought forward	9,029	9,718	792	2,292	3,015	1,968	1	4,983
A 67 A 68	310 - 324	Psychoses Psychoneuroses and disorders of	1,602	1	* 30	-	61		1	61
A 69	326	personality Mental deficiency	508	80	+++	1 60	11	4	11	14
	990 - 994	-	391	1,069	215	580	209	535	1	1,142
A 72	345	Multiple sclerosis	10	43	72	1 23	32	16	11	1
A 73	353	Epilepsy Inflammatory diseases of eye	143	35	900	- 1		61	11	23
A 75 A 76	385	Cataract	154	145	11	11	11	11	11	11
A 77 (a) (b)	390 391 - 393	Otitis externa Otitis media and mastoiditis	80	111	11	11	1	1	11	64
(c) A 78 (a)	_	Other inflammatory diseases of ear All other disease and conditions	9	34	1	1	1.	1	1	1
	386, 388, 389	of eye	310	47	1	1	1	1	1	1
		Carried forward	12,375	11,380	1,041	2,900	3,660	2,526	1	6,186

\* Among these—2 died of A1 2 died of A81 † died of A44

3 died of A12 1 died of A85 † died of A16(a)

1 died of A55 1 died of A89 § died of A70

2 died of A57 6 died of A90

1 died of A60 1 died of A95

3 died of A70 2 died of A97(b)

1 died of A70 2 died of A109

List  Number  Number  341 - 344, 350 - 352, 350 - 352, 350 - 352, 360 - 369, 395 - 398  400 - 402  Rheumatic fever  Linc Chronic rheumatic heart disest the art diset the art disest the a	of the nervous e organs heart disease d egenerative heart t diseases	Govern- ment Hospitals 12,375 327 422 422 112 227		Govern- ment Hospitals 1,041 24 5	Govern- ment Assisted Hospitals 2,900	Male 3,660	Whole Colony Female Sex Ui known 2,526	Colony Sex Un- known	11
Brought forwon the system and sense organ system and sense organ system and sense organ arteriosclerotic and egen heart disease of heart Hypertensive heart disea Other diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchomeumonia	vous ve	Ment Hospitals 12,375 327 327 422 112 227		1,041 1,041 24 5 44	Assisted Hospitals 2,900	Male 3,660		Sex Un- known	
Brought forus  All other diseases of the system and sense organ and sense organ arteriosclerotic and egen heart disease of the typertensive heart disease of arteries Other diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchomeumonia	vous ve	12,375 327 422 422 112 227	11,380 156 88 321 349	1,041	2,900	3,660	2,526		Total
All other diseases of the system and sense orga system and sense orga heart and sense orga heart disease of the heart diseases of heart Hypertensive heart disea Other hypertensive disea Diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchomeumonia		327 422 112 227	156 88 321 349	24 5 44	ω	23		1	6,186
Rheumatic fever Chronic rheumatic heart Arteriosclerotic and egen heart disease Other diseases of heart Hypertensive heart disease Other hypertensive diseases of arteries Other diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchomeumonia		98 422 112 227	88 321 349	5 44			24	1	47
Rheumatic fever Chronic rheumatic heart Arteriosclerotic and egen heart disease Other diseases of heart Hypertensive heart disea Other hypertensive disea Diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchopneumonia		98 422 1112 227	321 349	44					
Chronic rheumatic heart Arteriosclerotic and egen heart disease Other diseases of heart Hypertensive heart disea Other hypertensive disea Diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchopneumonia		422 112 227	321	44	1	9	9	1	12
heart disease heart disease Other diseases of heart Hypertensive heart disea Other hypertensive disea Diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchopneumonia	s	112 227	349		85	95	144	1	239
Other diseases of heart Hypertensive heart disea Other hypertensive disea Diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchopneumonia	: 00	227	900	28	139	417	316	1	733
Hypertensive heart dises Other hypertensive dises Diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchopneumonia	30	1.42	060	35	178	179	162	1	341
Other hypertensive disea Diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchopneumonia	-	CAT	317	14	95	149	102	1	251
Diseases of arteries Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchopneumonia	··· as	107	325	12	43	89	62	1	130
Other diseases of circula Acute upper respiratory Influenza Lobar Pneumonia Bronchopneumonia	:	88	193	=	12	72	40	1	112
Acute upper respiratory Influenza Lobar Pneumonia Bronchopneumonia	ory system	202	637	3	3	2	4	1	9
0000	infections	770	1,185	9	4	5	2	1	10
	: ::	86	267	-	1	=	14	1	25
		63	322	=	26	93	41	-	135
puromondomonor		718	3,683	261	1,956	1,988	1,743	-	3,732
492 - 493   Primary atypical, other a	and		000	00			,,		00
unspecified pneumonia	: ::	16	309	57	13	25	30	1	88
Acute bronchitis	:	114	205	4	11	15	15	1	30
501 - 502 Bronchitis, chronic and ur	and unqualified	101	519	2	77	102	92	1	194
y of tonsils	and	970	62						-
adenoids		9/0	99	1	1	1	1	1	1
518, 521 Empyema and abscess of	gunl	96	43	17	15	20	34	1	84
Carried formand	Part	16 527	91 948	1 545	955 5	6 087	5 366	6	19 355

Inter-	Datailed		Cases Ireated	reated	Dea	Deaths		Deaths	tus	
mediate List	List	Cause Groups	Govern-	Govern-	Govern-	Govern-	1	Whole	Whole Colony	
Number	Number		ment Hospitals	Assisted Hospitals	ment Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
		Brought forward	16,537	21,248	1,545	5,556	6.987	5,366	2	12,355
96 Y	519			06	1	4	65	20		85
97 (a)	523	Pneumoconiosis	1	1	1	1	1	1	1	1
(E)	520, 522,	All other respiratory diseases	472	441	32	12	77	51	1	128
A 00 (a)	524 - 527	Dontal Carias	36							
9	531 - 535	All other diseases of teeth and								
		supporting structures	189	37	1	1	1	1	1	1
66	540	:		688	11	29	56	15	1	71
A 100	541	Ulcer of duodenum		73	12	6	31	7	1	38
A 101	543	Gastritis and duodenitis		200	1	57	5	2	1	4
A 102	550 - 553	Appendicitis	-,	462	3	1	9	5	1	11
103	560 - 561	Intestinal obstruction and hernia	628	436	18	11	54	16	1	70
	570									
A 104 (a)	571.0	Gastro-enteritis and colitis,	316	9 363	19	020	169	557	-	1 1 7 8
(9)	571.1	colitis.		0001-			-			
			412	662	17	235	170	191	1	361
(2)	572	Chronic enteritis and ulcerative colitis		98	3	28	40	19	1	59
105	581	Cirrhosis of liver	60	223	70	66	191	56	1	247
A 106	584 - 585	Cholelithiasis and cholecystitis	196	125	1	9	6	18	1	27
107	536 - 539,	Other diseases of digestive system	1,	1,134	126	63	139	91	1	230
	542, 544,									
	545,									
	573 - 580,									
	586, 587									
		Coming Comment	00 500	096 06	1 000	460 6	0 440	6 414	c	14 064

# APPENDIX 8-Contd.

Cases Tr	Freated	Dea	ths		Dea	ths	
Govern-	Govern- ment	Govern-	Govern- ment		Whole	Colony	
sls	Assisted Hospitals	ment Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
22,527	28,268	1,900	7,034	8,448		67	14,864
itis 119	155	10	13	15	19	1	34
	119	20	116	187	151	1	338
ey	151	c1 <del>1</del>	40	11		1 1	17
ostate	4	. 01		11	1		11
	64	1	1	1	1	1	1
::	108	1	1	1	1	1	1
:	209	1	1	1	1	1	1
-	2,124	7	3	5	6	1	14
-		1					
Carlo							
nancy, child-birth 210	1		1		1	1	1
and the	1				2		,
pue	612	,	17	1	30	1	30
487	899	61	11	1	24	1	24
58	3,263	1	1	1	1	1	1
:	48	1	1	1	67	-	67
27.234	36,043	1.950	7.205	8.683			15,350
1 Per	ad the	Cases T  Covern-  Govern-  Hospitals  22,527  22,527  110  27,4  216  216  216  216  288  33  27,234	Cases Treated  Govern-  Govern- Hospitals  Govern- Hospitals  Covern- Hospitals  Covern- Resisted Hospitals  Hospitals  110  110  110  111  110  111  127.234  120  Govern- Go	Cases Treated Dear Covernment Hospitals Hospitals Hospitals Hospitals Hospitals 1,900 119 155 5 119 108 1 1900 118 15 2 2 114 171 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cases Treated Deaths  Govern- Govern- Hospitals Assisted Hospitals  Covern- Hospitals Hospitals Covern- Hospitals Hospitals  Covern- Cover	Cases Treated Deaths  Govern-Govern-Govern-Govern-Govern-Hospitals  Hospitals Hospitals Hospitals  119	Cases Treated Deaths Deaths  Covern- ment ment ment ment Assisted ment Assisted Hospitals Hospit

Inter-	Detailed		Cases	Cases Treated	Deaths	ths		Deaths	ths	
mediate List	List	Cause Groups	Govern-	Govern-	Govern-	Govern-		Whole	Whole Colony	-
Number	Number		ment Hospitals	pos	ment Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
	3	-	27,234	36,043	1,950	7,205	8,683	6,665	61	15,350
A 120(a)	645 - 649 673 - 680	Other complications of pregnancy, childbirth and the puerperium	6,576	1,367	6	3	1	13	1	13
	683,									
(9)	099	Delivery without complication	9,833	35,943	1	1	T	1	1	-
171	050 - 050	subcutaneous tissue	939	821	7	23	21	28	1	49
	720 - 725	:	06	251	1	1	62	5	1	7
A 123	726 - 727	Muscular rheumatism and								
101	000	rheumatism, unspecified	157	1.6	-	1-	1	1	1	77 0
	730	Osteomyehtis and periostitis	<b>501</b>	20	1	1	+	+	1	20
A 125	745 - 749	Ankylosis and acquired	33	10	1	1	i	1	1	1
A 126 (a)	715	D.C.								
		tropical ulcer)	45	138	1	1	Ī	1	1	1
(p)	700 - 714	All other diseases of skin	412	208	63	20	4	7	1	==
,,	716									
(0)	731 - 730	All other diseases of	29.4	4.9	6			-		6
A 127	751	Snina bifida and meningocele	120	9	1 —	2	1	2 2	-	1 00
A 128	754									
		circulatory system	83	13	27	9	32	31	i	63
A 129	750, 752,	All other congenital malformations	228	219	47	52	80	20	1	130
	753									
	755 - 759		,	(		•				00
A 130	760 - 761		26	20 20	16	20 20	100	103		38
A 151	701	Fostnatal aspnyxia and atelectasis	210	140	OT	20	130	700		27.0
		Carried forward	46.516	75.288	2.081	7.401	9.044	6.924	2	15,970

APPENDIX 8-Contd.

Inter-	Datailed		Cases Treated	Created	Deaths	ths		Dea	Deaths	
mediate List	List	Cause Groups	Govern-	Govern-	Govern-	Govern-		Whole	Colony	
Number	Number		Hospitals	P S	ment Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
		Brought forward	46,516	75,288	2,081	7,401	9,044	6,924	2	15,970
A 132(a)	764	Diarrhoea of newborn (under 4 weeks)	72	136	r.c	52	36	24	1	09
(9)	765	Ophthalmia neonatorum	24	61	1	1	1	1	1	1
(0)	(c) 763, 766-768	Other infections of new-born	156	110	17	92	204	136	1	340
A 133	770	Haemolytic disease of new-born	4	44	2	36	51	18	1	69
A 134	769, 771,772	All other defined diseases of early infancy	305	138	47	44	55	51	1	106
A 135	773 - 776	Ill-defined diseases peculiar to early infancy	491	718	127	464	427	347	1	774
A 136	794	Senility without mention of psychosis	9	453	1	186	130	308	1	438
A 137(a)	788.8	Pyrexia of unknown origin	54	137	1	1		1	1	1
(6)	793	Observation, without need for further medical care	380	098	1	1	1	1	1	1
9	(c) 780 - 787, 788.1-788.7, 788.9, 789 - 792, 795	All other ill-defined causes of morbidity	349	164	ω	30	714	603	9	1,323
		Carried forward	48,357	78,050	2,288	8,289	10,661	8,411	8	19,080

# APPENDIX 8-Contd.

Inter-	Detailed		Cases 7	Cases Treated	Deaths	ths		Dea	Deaths	
mediate List	List	Cause Groups	Govern-	Covern-	Govern-	Govern-		Whole	Whole Colony	
Number	Number		ment Hospitals	Assisted Hospitals	ment Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
		Brought forward	48,357	78,050	2,288	8,289	10,661	8,411	00	19,080
AE 138	E810 - E835	Motor Vehicle Accidents	677	61	74	-	96	51	1	147
AE 139	E800 - E802 E840 - E866	Other transport accidents	810	1	24	1	36	25	1	61
AE 140	E870 - E895	Accidental poisoning	320	23	13	i	16	9	1	22
AE 141	E900 - E904	Accidental falls	1,452	14	89	1	86	35	1	121
AE 142	E912	Accident caused by Machinery	215	1	1	1	1	1	1	1
AE 143	E916	Accident caused by fire and explosion of combustible material	217	60	19	1	30	14	1	4
AE 144	E917, E918	Accident caused by hot substance, corrosive liquid, steam and radiation	528	12	39	1	21	21	1	42
AE 145	E919	Accident caused by fire-arm	1	1	1	1	67	1	1	3
AE 146	E929	Accidental drowning and submersion	44	J	-	1	106	44	1	150
		Carried forward	52,621	78,083	2,528	8,290	11,055	8,608	8	19,671

# APPENDIX 8-Contd.

mediate	Del Eller		cases ricated			Carms				
Tripe	List	Cause Groups	Govern-	Govern-	Govern-	Govern-		Whole Colony	Colony	
Number	Number	The state of the second st	Hospitals	Assisted Hospitals	ment Hospitals	Assisted Hospitals	Male	Female	Sex Un- known	Total
147		Brought forward	52,621	78,083	2,528	8,290	11,055	8,608	00	19,671
(a) E920	E920	Foreign body entering eye and adnexa	61	1	1	1	13	1	1	1
(6)	(b) E923	Foreign body entering other orifice	181	67	61	1	1	60	1	4
(c) E927	E927	Accidents caused by bites and stings of venomous animals and insects	54	-	1	1	1	1	1	-
(d) ]	(d) E928	Other accidents caused by animals	4	1	1	1	-	1	1	1
(e) I	E910, E911,	All other accidental causes	1,759	13	35	1	96	43	i	139
	E921 - E922, E924 - E926		15	E	The second		3		1	
	E930 - E965	SHOW A SHOW A SHOW A SHOW AS A SHOW	3	7	7		8			
AE 148 1	E970 - E979	Suicide and self-inflicted injury	529	1	92	1	213	190	1	403
AE 149 1	E980 - E985	Homicide and injury purposely inflicted by other persons (not in war)	147	1	15	1	23	0	1	33
AE 150 I	E990 - E999	Injury resulting from operations of war	182	1	1	i		i	- 1	! 1
		GRAND TOTAL	55,297	78,100	2,657	8,290	11,389	8,853	00	20,250

		Total		27	26	16	1	1	298	148	14	61	=======================================	78	173	376	1,170
Deaths	Whole Colony	Sex Un- known	133	1	1		1	1	-	, 1	1	1	1	1	1	1	
De	Whole	Female		12	9	9	1	1	96	45	7	-	9	34	88	140	442
		Male		15	20	10	1	1	202	103	7	1	10	44	85	236	728
Deaths	Govern-	Assisted Hospitals		1	1	1	1	1	1	1	1	1	1	i	1	1	1
Dea	Govern-	ment Hospitals		27	26	80	1	1	148	29	4	7	7	53	58	7	369
Cases Treated	Govern-	Assisted Hospitals		1	2	6	2	1	5	1	2	1	က	17	3	4	50
Cases 7	Govern-	ment Hospitals		307	277	1,286	98	25	1,850	155	995	108	184	7111	887	69	6,940
	Cause Groups			Fracture of skull	Fracture of spine and trunk	Fracture of limbs	Dislocation without fracture	Sprains and strains of joints and adjacent muscle	Head injury (excluding fracture)	Internal injury of chest, abdomen and pelvis	Laceration and open wounds	Superficial injury, contusion and crushing with intact skin surface	Effects of foreign body entering through orifice	Burns	Effects of poisons	All other and unspecified effects of external causes	TOTAL
Detailed	List	Number		N800 - N804	N805 - N809	N810 - N829	N830 - N839	N840 - N848	N850 - N856	N860 - N869	N870 - N908	N910 - N929	N930 - N936	N940 - N949	096N - 096N	N950 - N959 N980 - N999	
Inter-	List	Number		AN 138	AN 139	AN 140	AN 141	AN 142	AN 143	AN 144	AN 145	AN 146	AN 147	AN 148	4N 149	AN 150	

## IN-PATIENTS ADMITTED INTO GOVERNMENT, GOVERNMENT-ASSISTED AND PRIVATE HOSPITALS IN 1959, INCLUDING CASES REMAINING IN HOSPITALS FROM THE PREVIOUS YEAR

NAME	Beds	General cases	In- fectious cases	Tuber- culosis cases	Mater- nity cases	Mental cases	Total
Government Hospitals :							
Queen Mary Hospital	601	12,906	105	213	1,962		15,186
V and an	220	12,977	88	146	3,646	31	16,888
Sai Ying Pun	0.0	335	1,328	34			1,697
Tsan Yuk	900	1,353		_	8,794		10,147
Mental	140	-		-	-	2,153)	2,153
* Castle Peak	120	-	-	-	-	-5	
Stanley Prison	82	1,138	104	160	-	22	1,424
Eastern Maternity		73	-	-	2,324	-	2,39
Wan Chai Social Hygiene		291	318		-	-	609
Lai Chi Kok		320	1,983	257		-	2,560
St. John		1,282	70	133	678	_	2,163
Lai Chi Kok Female Prison	13	43	3	17	10		7:
TOTAL	2,212	30,718	3,999	960	17,414	2,206	55,297
Tung Wah Group	287 336 540 50 540 210 54	29,267 4,378 17 1,403 — 35,065	400 63 — 661 — 1,124	2,396 100 842 1,334 — 256 174	33,524 2,400 — 885 — — 36,809		65,587 6,941 856 1,334 2,288 661 256 174
Private Hospitals :			1 1				
St. Paul's	172	1,840	258	333	650	-	3,081
Ling Yuet Sin Infants'	190	152	_	-	160	-	312
Precious Blood	108	2,585	69	123	197	-	2,974
Hong Kong Sanatorium	316	6,346	169	256	1,508	125	8,404
St. Francis		1,285	8	10		-	1,303
St. Teresa's	95	2,700	96	75	465	-	3,336
Hong Kong Central	90	3,102	34	57	253	-	3,446
Matilda and War Memorial Canaan Convalescent Home	52 70	947	=	223	119	-7	1,074
TOTAL	1,093	18,959	634	1,078	3,352	132	24,155
GRAND TOTAL	6,969	84,742	5,757	7,140	57,575	2,338	157,552

<sup>\*</sup> Figures included in Mental Hospital's return.

### ${\bf OUT\text{-}PATIENTS-1959}$

### TOTAL ATTENDANCES AT GOVERNMENT AND GOVERNMENT ASSISTED HOSPITALS, CLINICS AND DISPENSARIES

INSTITUTIONS	Dress- ings	General Out- Patients	Chil- dren's Clinics	Ante- natal	Post- natal	Gynaeco- logical	Social Hygiene	Eye	Ear, Nose & Throat	Tuber- culosis	Casualty	Ortho- paedic	Leprosy	Mental	Total
Hospitals:							-								
Queen Mary	10,003	10,115	258	2,939	720	3,871	112	23	441	37	22,307	2,480	-	-	53,306
Kowloon	257,044	163,196	3,104	15,613	1,077	4,543	-	-	10,039		71,627	6,249	-	-	532,492
Tsan Yuk	4,604	30,269	37,094	37,664 2,077	3,685	- 5	-	1,893	Ξ	-	229	=		-	45,953
St. John Stanley Prison	5,211 19,116	99,430	31,094	2,011	_	_ 3	5,280	1,093		2,377	1,707	_	182	11	76,778 128,103
Lai Chi Kok Female Prison		14,390		-	_	_	-			-		_			14,390
Mental	-	-	-	-	-		-	_	-	-	-	-	-	6,406	6,406
Clinics and Dispensaries:															
Sai Ying Pun	39,648	99,613	78,041	5,645	101	4,616	1,345	* 4,663	2,271	-		2,954			238,897
Violet Peel	143,943	109,808	90,177	-	-	-	352	27.064	4,002	-	1,569	-	-	-	349,851
Violet Peel Ophthalmic Clinic Wan Chai Chest Clinic			_	_	_	_	_	37,964	_	576,497		2.245	134	=	37,964 578,876
Kowloon Chest Clinic					_			_		505,908		1,875	234		508,017
Shek Kip Mei Chest Clinic	_	_		_	-		22			446,850	_		218	_	447,068
Social Hygiene Clinics	-			-		-	213,026	-	-	-	-			_	213,026
Hong Kong & Kowloon Public															
Disp	206,919	474,628	190,772	11,966	1,008	4,482	1,296	7,440	1,743	5,771	1,135		5,810	-	912,970
New Territories Dispensaries	83,265	99,311 10,499	103,983	30,667	1,016		3,218	8,927	339	20,117	10,963	-	1,371	-	363,177
Families Clinic Hong Kong Families Clinic Kowloon		7,263				_						_		_	10,499 7,263
Hong Kong Police Medical Post	16,688	12,096	13,424	257	_	363	75	_	540	10	411	205	_	_	44,069
Kowloon Police Medical Post	2,151	12,598	17,029	329	3	614	188	_	1,395	168			_	_	34,475
Victoria Remand Prison	1,800	49,124		-	_	_	000	2	1	_	171	_	-	-	51,098
Victoria Remand Prison															
Families Clinic	25	76	196	23	-	1	-	1	4	-	-	-		-	326
Port Health Kowloon-Canton Railway Clinic	198	1,845 1,580	1,463		_	_	_	_				_	_	-	1,845 3,241
Chi Ma Wan Prison Clinic	4,185	7,461	1,405								332				11,978
Tai Lam Chung Prison Clinic	5,027	59,463	_				4,083		_	844					69,417
Government Ophthalmic Clinic		200													77.
-Arran Street	_	_	-	_	-	-		88,491	-		-	-	-	-	88,491
Government Ophthalmic Clinic															0.101
-Shau Kei Wan			-	-	-		-	3,426	-	-	-	-		-	3,426
Government Ophthalmic Clinic —Wu Kwai Sha		720	14.00		230	130		115							115
Mobile Unit British Red Cross				-				113							113
Society		-	-	_			-	4,474	_		-		_	_	4,474
Aberdeen	_	-		-	-			164		-	-	_	_	_	164
Rennie's Mill Clinic	-	-	-	-	-	-	-	218	-	-	-	-	-	-	218
Health Centres :															
Harcourt		_	40,503	2,708	506			_	-	_			-	_	43,717
Western	-	-	44,484	773	211		-	-	-		-		-	-	45,468
Kowloon	-	_	50,378	5,298	736		-	-	-	-	-	-	-		56,412
Chai Wan	_	_	13,663 26,977	2,041 1,540	644 226		_	_	=	_	_	_	_	_	16,348 28,743
Ho Man Tin Shek Kip Mei			36,693	3,951	430										41,074
Central	_	_	36,631	664	214		_	_	-	_	-	_	_	-	37,509
Total of Government Institutions	799,827	1,262,765	784,870	124,155	10,577	18,495	228,975	157,801	20,775	1,558,579	110,451	16,008	7,949	6,417	5,107,644
Tung Wah Group of Hospitals	30,667	305,744	154,395	24,446	453	5,981	_	21,278	5,440	19,731	60	1,640	_	_	569,835
Alice Ho Miu Ling Nethersole															
Hospital	196	23,641	6,552	14,171	1,349	17,876		-	-	15.000		-		-	63,785
Ruttonjee Sanatorium		16 102	20 510	1.100	-	-	-	-	=	15,283		-	_	_	15,283
Pok Oi Hospital Grantham Hospital	_	16,103	38,519	1,156		_	_	=		248	_	=			55,778 248
Rennie's Mill Church Clinic	-	29,924	_	-	_	-	_	_		11,727		_		_	41,651
	020 444	1,638,177	984,336	163,928	12,379	42,352	228,975	179,079	06.01-	1,605,568	110,511	17,648	7,949		5,854,224
GRAND TOTAL															~ 25~3 77.7

<sup>\*</sup> Patients seen in Hong Kong University Eye Clinic.

### OUT-PATIENTS - 1959

### NEW CASES AT GOVERNMENT AND GOVERNMENT ASSISTED HOSPITALS, CLINICS AND DISPENSARIES

INSTITUTIONS	Dress- ings	General Out- patients	Chil- dren's Clinics	Ante- natal	Post- natal	Gynaeco- logical	Social Hygiene	Eye	Ear, Nose & Throat	Tuber- culosis	Casualty	Ortho- paedic	Leprosy	Mental	Total
Hospitals:															
Queen Mary	10,003 69,090	1.649 121,460	110 580	3,108	370 983	535 2,108	112	23	308 3,174	37	15,941 71,627	297 1,462			29,834 273,592
Kowloon Tsan Yuk	1,423	121,400	300	6,827	3,135	2,100			3,174	_	11,021	1,402			11,385
St. John	4,052	24,256	29,635	684	_	5	-	767	_		229	_	-		59,628
Stanley Prison	4,643	41,164	-	-	-	-	1,264	-		1,654	552		39	11	49,327
Lai Chi Kok Female Prison	-	14,390	-	-	-	-	-	-	-	-		-	_	752	14,390 752
Mental		-		-			_	-				_	_	132	132
Clinics and Dispensaries:								** ***							100 541
Sai Ying Pun	7,306	59,709	54,758	1,506	-	2,001	575 162	*1,394	567	=	1,569	725	=		128,541 153,276
Violet Peel Ophthalmic Clinic.	42,265	57,155	50,959		_	_	- 102	12,082	1,166	_	1,309				12,082
Wan Chai Chest Clinic	538		_			_	_			16,758		617	19	-	17,394
Kowloon Chest Clinic		_	_		_	_	_		_	10,972		_	13	-	10,985
Shek Kip Mei Chest Clinic	-		-	-	-	-			-	7,302		-	5	-	7,307
Social Hygiene Clinic	-		-	-		-	28,980	-	-	-	-	-	-	-	28,980
Hong Kong & Kowloon Public	61,282	316,640	159,563	4,355	832	2,010	220	3,940	1,136	106	1,135		142		551,361
Dispensaries New Territories Dispensaries	21,279	76,449	81,057	8,383	923	2,010	813	4,830	1,130	1,797			95		206,750
Families Clinic, Hong Kong		666	01,001	- 0,000		-	_ 010	-,000	_		10,77	_		_	666
Families Clinic Kowloon		7,263	-	-	_	-	-	_	-	-		-	-	-	7,263
Hong Kong Police Medical Post	10,805	7,106	7,490	153	-	227	54	-	295	3		166	-	-	26,710
Kowloon Police Medical Post	882	9,762	13,044	317	3	338	91		945	132		-		-	25,514
Victoria Remand Prison	502	25,518		-		-	2	1	_	171	770	-	17	-	26,211
Victoria Remand Prison Family Clinic	7	61	150	23	_	1		1	4			_	_		247
Port Health		1,681			_	_ `	_			-	_	_	_	_	1,681
Kowloon-Canton Railway Clinic	153	1,387	1,287	_		_	_	-		-	_	_	-	-	2,827
Chi Ma Wan Prison	1,719	3,653	_	-	-	-	-	-	-	-	332	-	-	-	5,704
Tai Lam Chung Prison Clinic	670	3,019	-		-	-	2,040	-	-	439	-	-	-	-	6,168
Government Ophthalmic Clinic								49 109							42 102
Arran Street Government Ophthalmic Clinic			-	-		1-0	_	43,123	-	-	-	-		-	43,123
Shau Kei Wan	_		_		_	_	_	1,813		_				_	1,813
Government Ophthalmic Clinic													100000		
Wu Kwai Sha	-		_		-	-	_	63	-	-			-	-	63
Mobile Unit British Red Cross								0.005							0.005
Society Aberdeen Clinic			_		=		_	2,825 146	-	=		_	-		2,825 146
Aberdeen Clinic Rennie's Mill Clinic	_		_			_	_	152	_			_	=	_	152
							1000						2000		
Health Centres :			3,186	456	004										3,926
Western			3,330	186	284 185			_				_			3,701
Kowloon			4,024	964	292			-		_		_		_	5,280
Chai Wan	-	_	1,081	673	514	-	_			_	-		-	-	2,268
Ho Man Tin	-	-	1,820	433	156	-	-	-	-	-		-	-	-	2,409
Shek Kip Mei		-	4,165	1,027	297	-	-	-	-	-	-	-	-	_	5,489
Central	-	_	2,773	157	132	-	-	_	-	-	_	-	-	_	3,062
													V		
Total of Government Institutions	236,081	772,988	419,012	29,701	8,106	7,225	34,313	71,160	7,775	39,371	102,740	3,267	330	763	1,732,832
And The same of th			,	7,101	0,200	.,==0	01,010	,.00	1,110	07,011	102,140	0,201	000		1,102,302
Tung Wah Group of Hospitals.	13,222	125,939	56,544	20,669	453	2,499	-	6,810	2,061	2,006	60	298	-	-	230,561
Alice Ho Miu Ling		7 901	1 224	9.010	1 240	F 990								100	10 110
Nethersole Hospital Ruttoniee Sanatorium		7,291	1,334	2,918	1,349	5,220	=	_		-45	75	=	=		18,112 45
Pok Oi Hospital		7,891	17,300	1,099						45	=				26,290
Rennie's Mill Church Clinic	-	1,377		- 1,099	-	_	_	-	_	80		_	_	-	1,457
								-							
			494,190	54,387	9,908	14,944	34,313	77,970	9,836		102,800	3,565	330		2,009,297

<sup>\*</sup> Patients seen in the Hong Kong University Eye Clinic.

APPENDIX 12

ATTENDANCES AT PUBLIC DISPENSARIES (HONG KONG AND KOWLOON) - 1959

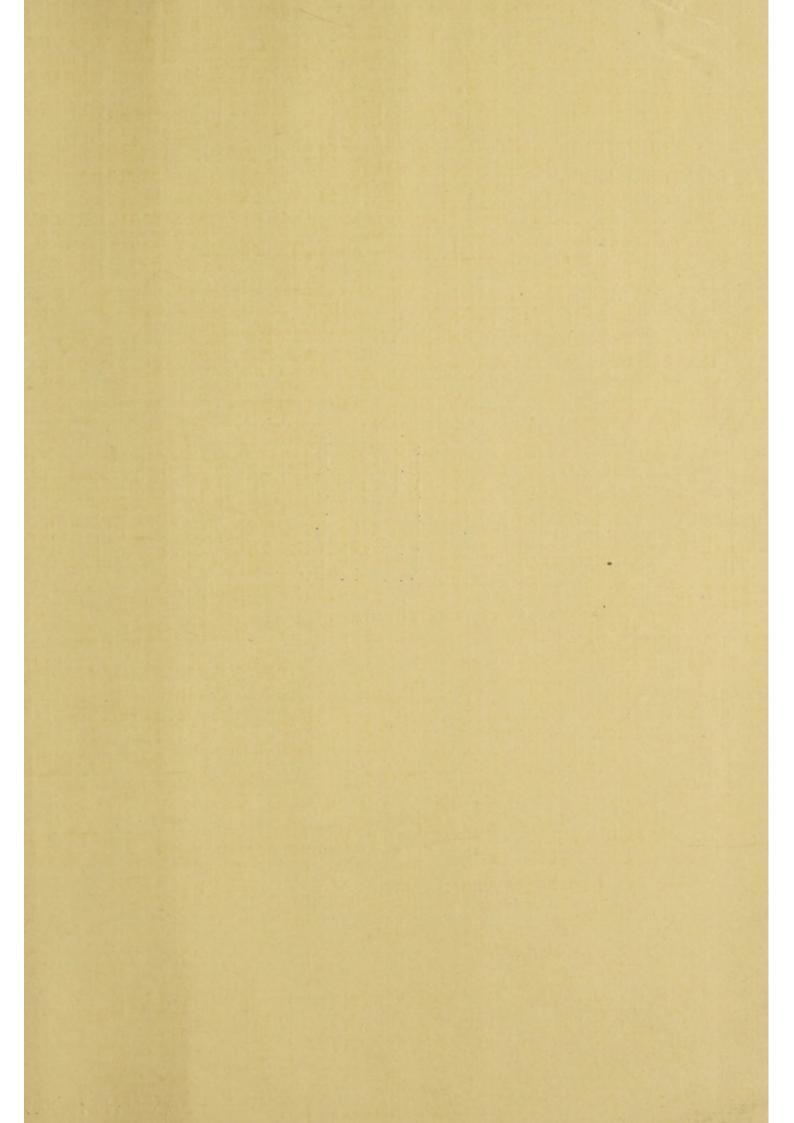
			Out-pa	Out-patients		Deliveries	eries		
		Children	ren	Adults	lts			Vaccina-	Inocula-
Public Dispensaries	H	New Cases	Total attend- ances	New Cases	Total attend- ances	In- patients	Domi- ciliary	tions	tions
Central	:	1	-	41,430	68,247	1	1	6,418	1,703
Eastern	:	11,462	13,742	8,345	15,496	1	1	7,296	127
Shau Kei Wan	:	1	1	56,467	110,155	1	262	14,074	6,112
Aberdeen	:	14,649	16,071	10,341	26,011	1	592	7,406	1,064
Stanley	:	1,101	1,688	2,417	7,331	206	19	1	925
Sham Shui Po	:	1	1	46,179	91,540	1	255	17,929	1
Yau Ma Tei	:	14,535	20,521	5,484	11,865	1	87	7,065	4,545
Hung Hom	:	13,442	16,450	9,272	19,768	411	1	8,139	2,688
Li Kee Memorial	:	46,849	51,192	26,556	42,658	1	337	58,401	28,169
Mong Kok Clinic	:	25,261	36,370	36,786	54,140	1	1	1	1
Tai Hang Tung Clinic	:	1	1	54,234	68,219	1	1	17,803	49,046
Lei Cheng Uk Clinic	:	1	ı	28,320	69,029	1	1	10,506	2,891
Shek Kip Mei Health Centre	:	31,767	33,504	27,053	57,289	1	521	7,186	2,171
North Point Health Centre	:	1	1	28,258	55,647	1	1	6,663	3,952
Chai Wan Clinic	:	1	1	9,208	21,627	1	525	1,799	264
Mt. Butler Quarry Clinic	:	497	1,234	1,448	3,146	1	1	-	-
TOTAL	:	159,563	190,772	391,798	722,198	617	2,599	173,685	103,657
	1								-

APPENDIX 13
ATTENDANCES AT MEDICAL CENTRES — NEW TERRITORIES, 1959

	Out-I	patients	Deliv	veries
Dispensaries	New Cases	Total Attendances	In-patients	Domiciliary
Hong Kong Jockey Club Clinic, Tai Po	37,247	61,346	1,571	1
п. Т	2,199	4,890	691	1
Sha Tau Kok	9,272	19,961	338	16
Yuen Long	23,167	55,407	2,017	21
San Hui	3,305	6,906	791	4
Sai Kung	20,138	31,379	415	3
Гаі О	29,294	41,130	333	4
Silver Mine Bay	8,630	10,059	88	2
Peng Chau	. 6,722	9,074	146	1
Sha Tin	7,312	13,325	587	25
Γravelling (East)	8,875	10,188	_	-
Γravelling (West)	387	1,352	_	-
Maurine Grantham Health Centre	33,792	71,479	2,047	1
North Lamma Clinic	4,124	6,468	50	2
Chee Hong Floating Clinic .	826	826		-
Chee Wan Floating Clinic .	6,958	12,527	-	-
Shek Pik First Aid Post .	. 4,502	6,860	-	7
TOTAL	206,750	363,177	9,074	81

### SUMMARY OF EXAMINATIONS

								H.K.P.I.	Q.M.H. Lab.	K.P.I.	L.C.K.H. Lab.	T.Y.H. Lab.	S.Y.P.H. Lab.	Total
gglutination	Widal							1,257	20	1,818	_	_	_	3,09
ests	Weil-Felix Brucellosi							17	_	6 7				1 2
erological test	s for syphili	s	***	***				128,842	_		_	_	_	128,84
lood smears	Malarial p							3,394	15	5,147	80 40	13	66	8,71 17
lood smears	B. anthra							41		10		_	11	5
								000	0.000	10.105	1000	11 004	1 004	
	Haemoglo Total red					***		899 392	2,909 1,952	13,195 1,326	4,066 442	11,834 21	1,234 251	34,13 4,38
	Total whit	te cell co						1,407	3,096	8,746	1,802	1,203	1,332	17,58
	Differentia							882	2,742	9,765	1,797	780	1,126	17,09
	Reticulocy Thromboc								315 622	1,338 1,532	16 19	_	33 24	1,70 2,19
	Haematoc							_	1	871	-	_	-	87
	Mean cell	volume						_	_	735	_	_	_	73
	Mean cell				tion :	***	***			662 732	=			66
	Colour ind			···				2		366				36
	L.E. cells							_	_	56	-	_	_	
aematology	Coagulatio					***		1 1	89	1,269	18 17	_	12 12	1,38
	Bleeding t Marrow cy								_	1,253 136	1.		12	1,20
	Blood grou							318		3,189	-	6,803	-	10,31
	Cross mate							8		450	-	_	_	44
	Fragility t					***		4 2		457 1,128				1,13
	Fibrinoger							_	_	309	-	-		36
	Sedimenta							101	559	1,077	394	36	130	2,29
	Rh D typi			***	***	***	***	610 150	-	250	_	_	_	86
	Paul & Bu		t					23	89	4			_	1
	Formo-gel		***		***	***	***	-	_	1	-	-	_	
	( Nasal-pha	evngeel s	wahe (	dinh	theria	.)		11,914	288	12,386	6,582	50	_	31,23
	Strep. pyo		wans (	uipii	···			4,272	288	3,588	2,460	497	_	11,10
	Staphyloc	occus py	ogenes					4,272	288	3,588	2,460	442	_	11,03
	Cerebro-sp							478 6,983	51 166	176	85 4	431	1	15,17
	Faeces for Blood clot		nic orga					1,257	20	7,587 1,818	-	431		3,09
	Blood							425	20	1,180	_	3	_	1,62
ıltura l	Bone mari							2		1 400	-	427	-	2 45
xamination	Urine Sputum							1,498 8,369	65 30	1,480 845		431 65		3,47 9,30
	Gastrie lav							1,297	4	185	_	_	_	1,48
	Pus for N.	gonorrh	oeae					1,556	32	725	-	530	-	2,84
	Pus and b							645 3,207	4	3,769 4,037	75		_	7,3
	Examinati		s for P	pestis				178		80	- 10			25
	(	Intestin	al para					15,636	883	12,380	1,029	635	481	31,04
	Faeces	Occult I Myco. t		osis.				105 5	63	494 115	40	28	2	73
	,							,		113				
	Cerebro-sp							4,636	189	629	705	1	179	6,33
	Brains for Sputa							38 19,197	578	27,025	2,695	149	4	49,64
irect	Gastrie lav	vages for	Myco.					,	1	167				16
amination	Smears for	N. gone	orrhoeae	e		***		48	5	28	-	409	-	49
	Smears for Pus and b					***		1,771	14	1,974		176		3,74
	Urine (rou							4,328	1,663	11,810	1,179	1,865	352	21,19
egnancy test	s (Frog)							783	_	829			_	1,61
cteriological								2,219	-	2,237			-	4,45
" "	analysis of			eam, e	те.		***	1,830	-	1,200	_	_	_	3,03
**	examinatio							_	_	400	-	-	-	40
ssue section	(a) Surgical							1,620	_	_	-	-		1,62
	(b) Post-me							242	-	_	-	-	-	24
ATTOC MANAGEMENT OF THE PARTY O								1,318	14	454	30	106	12	1,93
scellaneous														





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