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REPORT ON THE MEDICAL AND HEALTH SERVICES 1956

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ON THE

MEDICAL AND HEALTH SERVICES

1956





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The Medical Officer Supervising Maternity Services reported that:-

"The general educational standard is appalling. After ten years attendance at school most of them are not even able to speak or write correct English.

The co-operation in the lectures is simply heart-breaking. That might sound grossly exaggerated but is far from it. Apart from that the general shortage of staff requires prolonged duty hours. We had certain months when the student midwives were on duty 52–59 hours a week. That does not leave much time for studies."

4. 53 Village Maternity Assistants completed their course of training in hospitals and Health Centres for service in their chiefdoms and 36 were recruited to start their training. As from 1957, the salaries of all trained Village Maternity Assistants will be borne by the Government.

5. A Nurses Ordinance establishing a Nurses Board, and a register of Nurses and Nursing Assistants, was enacted during the year, and it is intended that this will raise the standard of nursing throughout the country. A new Midwives Ordinance for registering and enrolling Midwives and Village Maternity Assistants was also enacted.

6. A nursing administrative post of Matron was created at the beginning of the year in order to provide for the efficient administration of the nursing service and its personnel. Miss S. M. Gimson, a Senior Nursing Sister with fifteen years' experience in the department was appointed to fill the post and she has assumed the responsibility for supervising staff, postings of nurses, and the nursing administration in the various hospitals. This arrangement whereby the nursing problems are dealt with by a Senior Administrative Sister, who is able to devote full-time attention to them, is proving satisfactory.

7. Dispensers were trained at the Connaught Hospital and licences granted after they successfully pass their examination. 9 Government candidates passed the Druggist Examination this year and were awarded the certificate.

8. The training of Health Inspectors continued at Bo with 36 Health Inspector-in-training. One Health Inspector attempted the examination for the R.S.I. (West Africa) Certificate and was successful.

9. Two scholarships were awarded during the course of the year by the National Association for the Prevention of Tuberculosis to a Health Superintendent-in-training and a Staff Nurse for training in anti-tuberculosis health work in the United Kingdom. Both of the officers successfully completed the course.

10. A Sierra Leonean Health Superintendent attended a 12-week course in malaria control for Health Superintendents at Ibadan, Nigeria, during the course of the year. He found the course most valuable and it is hoped that other Superintendents will share the benefit of the course next year. During the year, another Health Superintendent-in-training was awarded a departmental scholarship to the United Kingdom to undergo a course of training in environmental sanitation. This is the second of such scholarships to be awarded.

11. During the course of the year, Dr. E. A. Olu Williams obtained the F.R.C.S. (Ireland) after a little over two years in the service and Dr. A. D. McIntyre took the D.T.M. and H (Edin). Three Medical Officers, Dr. S. Caruana, Dr. A. B. C. Hotobah-During and Dr. B. T. M. Aboko-Cole, proceeded on study leave to the United Kingdom—Dr. Caruana to take a course leading to the D.P.H. and the other two to take the course leading to the Diploma in Tropical Medicine and Hygiene. 12. The actual expenditure for the medical and health services in 1956 amounted to $\pounds 564,887$ that is about 5s. 8d. per head of population. This figure does not include the amount spent on medical development projects for which the estimated provision in 1956 was $\pounds 135,614$. It is interesting to compare the present cost of the hospital and health services with that of 10 years ago when the cost was $\pounds 153,299$.

3-HOSPITAL SERVICES AND HEALTH CENTRES

13. The rapid rate of increase of numbers of patients treated in hospitals, that has been taken place for many years appears to be slowing down, though in-patients still increase and the new hospitals at Kenema and Magburaka are beginning to contribute to the total. In all hospitals except two the numbers of in-patients increased. Over 6,300 in-patients were treated in Freetown hospitals as compared with 5,665 in 1955; and in Provincial hospitals, 7,774 in-patients were treated as compared with 6,523 in 1955.

14. The numbers of out-patients treated at Connaught Hospital and Cline Town Dispensary in Freetown tend to decline, though the number of new cases seen at Connaught Hospital has remained fairly constant around 40,000 since 1949, with a maximum of 50,000 in 1954. Total attendances of out-patients in Freetown clinics have fallen from 267,000 in 1954, and 226,000 in 1955 to 193,000 in 1956. This to some extent is due to the establishment of first-aid posts by the Railway and Port Management, but the lack of good accommodation for clinics and the shortage of adequate medical and nursing staff to run them, lead many people to depend upon local druggists, who run unsupervised private clinics. There has not been any substantial increase of private registered medical practitioners, but Government Medical Officers are permitted to hold private clinics outside Government hospitals.

15. There was a substantial increase of out-patients treated at Hill Station Hospital. New cases were 1,378 the first time a thousand has been exceeded, with total attendances of 5,115. These figures are three or four times the average number treated five years ago.

16. The number of out-patients treated in Provincial hospitals remains stationary. For some years there was an increase of new patients treated, and this reached a peak of about 110,000 in the years 1952–1955. This year 128,000 new patients have been treated but the increase is largely accounted for by the new hospitals at Kenema and Magburaka. The subsequent attendances, after the first attendance have fallen from a maximum figure of 275,000 in 1954 to 230,000 this year, in spite of the effect of the new hospitals. (See Part II, Tables 3A and C).

17. This slowing of the yearly increase of new out-patients attendances with a decline in the number of total attendances suggests that the capacity of the hospitals has reached the limit of their staff and accommodation : also, over the last 3 years, private practice has been forbidden to Medical Officers in out-patients departments though permitted in private clinics outside the hospitals, and with the great increase of the wealth of many people connected with diamond mining, private practice in all its forms, good and bad, is far more lucrative than it was before. Only 3 years ago, the previous Director of Medical Services was able to say that "injection practice" was not a problem in Sierra Leone; unhappily this can no longer be said. The ethical conduct of registered medical practitioners continues to be high, but locally registered druggists administer injections freely upon their own responsibility, and considerable numbers of completely untrained people administer injections for gain. With large sums of ready money in the hands of uneducated people to whom an injection appears to have magical powers, this particular fraudulent practice is perhaps one of the easiest, as it certainly is one of the most harmful, ways of making money.

18. Four of the five new Provincial Hospitals being constructed (with funds provided by Colonial Development and Welfare Schemes) should have been completed during the course of the year, but owing to staff shortages in the Public Works Department only two-Magburaka and Kenema—were opened. Kenema is completed, but Magburaka Hospital was still not finished and was not fully operating at the end of the year. The remaining three hospitals at Lungi, Kambia and Koidu were near completion. Koidu hospital, though incomplete, was opened to deal with emergencies, and for the treatment and screening of the sick, during the evacuation of native foreigners from the diamond mining districts in November, and a Medical Officer was posted there for the rest of the year.

19. In addition to five new Provincial hospitals, the sum of £22,500 was provided under Colonial Development and Welfare Schemes D. 2863 and D. 2864 for the extension of the Princess Christian Hospital and the provision of small maternity wards with six beds to the three Provincial hospitals at Kailahun, Pujehun and Moyamba. It was also planned to provide Maternity Wards for all remaining Provincial hospitals that have The Colonial Development and Welfare Scheme provision for the none. extension of Princess Christian Hospital is in addition to that provided by Government for renovation of the old mission buildings, and the complete scheme will provide equivalent accommodation to that in the existing Oxford Street, Maternity Home, which is to be taken over as a part of the Connaught Hospital. Work was started on the reconstruction and the hospital should be in full operation during the first half of the new year. All the Maternity and Infant Welfare Clinics will be concentrated in this hospital releasing much needed accommodation for use as out-patients clinics at the Connaught Hospital. Owing to staff shortage in the Public Works Department the Maternity extensions to the three Provincial Hospitals mentioned above were not undertaken during the year. They are planned as small units to which complicated maternity cases can be sent and in which village maternity assistants who will practice domiciliary midwifery, can be trained.

20. Health Centres.—The remaining two of the 20 Health Centres to be built under Colonial Development and Welfare Scheme D. 866 were completed during the course of the year. The main difficulty in opening the centres is the lack of adequate and trained staff to run the centres. The position was not eased during the year and it was only possible to staff nine new centres, and nine centres remained closed due to shortage of staff.

21. The Health Centre at Waterloo which is a large type of centre with a few beds, completed its first year's work; the centre is filling a much needed role in the locality. It was not possible to open the Health Centre at York which is also situated in the Colony area, as due to lack of staff, the Public Works Department was unable to construct the staff quarters. It has not yet been possible to post a Medical Officer to Waterloo to serve these centres, as was planned.

22. Lakka Hospital.—The temporary Tuberculosis Hospital at Lakka which is situated about 10 miles from Freetown on the Coast has again done satisfactory work. Though still awaiting reconstruction and full equipment, and this has but a strict limit on the work that can be done, the hospital has served a most useful purpose by reversing the fatalistic attitude to the disease that is so common, at least among the patients who are being treated. Visitors who have expected to see hopeless and emaciated invalids have been surprised by the healthy and happy appearance of the patients. Though still in its infancy the foundation is now being laid for the future care and treatment of Tuberculosis in this territory. The hospital is to be reconstructed under Colonial Development and Welfare Scheme No. D. 2405 and work has already started.

23. Work continued on the Infectious Diseases Hospital at Lakka, which is on a site close to the Tuberculosis hospital. It was asked that this building should be ready for use early in the year as it was anticipated that there would be an outbreak of smallpox, but this could not be done owing to shortage of staff in the Public Works Department. As was anticipated the need for the hospital arose during the latter part of the year when there was an epidemic of smallpox. Alternative accommodation had to be found for over 200 cases at Murray Town Hospital, normally used as an extension of the Connaught Hospital, leading to considerable interferance with surgical work. At the end of the year there was a list of 2,000 cases awaiting operation at Connaught Hospital.

24. Mental Hospital.—The overcrowing at Kissy Mental Hospital continues to increase. Though every effort is made to avoid certification, and to discharge those certified. At the end of the year, for the first time on record there were over 200 patients, though the place is only intended to hold 110 patients. In these conditions treatment is not possible. One considerable handicap is the difficulty in tracing relatives in distant villages up country from which patients often come, and arranging for their return to their homes. At the end of the year it was arranged that Doctor the Honourable Walter Maclay, Senior Commissioner of the Board of Control of the United Kingdom Ministry of Health, should visit Sierra Leone to advise upon the treatment of mental disease generally.

25. Institutions.—The King George V Memorial Home incorporating the Male and Female Infirmaries and the Leper Home, continued to provide a refuge for the aged and infirm both from the Colony and the Protectorate. It has been arranged that in 1957 these institutions shall be handed over to the Social Development Department.

26. Prisons.—There was an increase of nutritional skin-defects in prisoners, which were found to increase in incidence with length of imprisonment. Defects were found in the supply and preparation of prisoners' diets, which are being remedied. In November there was a serious out-break of beri-beri, and 65 cases were reported in prisoners. This coincided with an issue of imported rice in place of the recommended local rice milled to Medical Department standards. The outbreak was similar to one which occurred in a residential school two years ago, also due to the use of an imported rice. Rices have been sent for analysis of vitamin-content to the Applied Nutrition Unit of the London School of Hygiene and Tropical Medicine and it was confirmed that those associated with these outbreaks were deficient in thiamine.

27. Not all imported rice is at fault but only occassional shipments. One rice involved was highly milled and not parboiled, the other was parboiled but was old when shipped, and was heavily infested with weevils. As the country must for the present make use of imported rice, its vitamincontent is clearly of great importance to public health, for rice is a staple and is the main source of thiamine in the diet. Arrangements for inspection and analysis of imported rice are being made with the Department of Commerce and Industry. If rice with inadequate vitamin has to be imported owing to difficulties of supply, it may be necessary to consider some method of fortification.

28. Pathological Laboratory.—The post of Senior Pathologist remained vacant during the course of the year. As stated in the last report, the continued absence of this officer has thrown extra amount of work on the Pathologist who has found very little time to devote to the training of Junior Technical Staff. During the year over 59,900 examinations of various kinds were done in this laboratory.

4—PUBLIC HEALTH

29. Administration.—This year was the third since the administration of Health Centres, Dispensaries and Sanitation was handed over to the District Councils on 1st January, 1954. The staff to run these services continued to be assigned or transferred from the Medical Department. As a result of the Cox Commission's report on disturbances in the Protectorate during the year, due to resentment on local taxation and the methods by which it was levied, Government has decided that administration of health centres and dispensaries should revert to the Medical Department in 1957. Sanitary staff are still to be assigned to District Councils.

30. The Freetown City Council have continued to deliberate upon the proposal that they should take over routine sanitary services in the city from the Government Medical Department, but have not yet been able to do so. This continued uncertainty about the future of sanitary administration in the city since the proposal for a transfer was first made in 1949 does not make for improvements in the sanitation of Freetown.

31. The Bo Town Council has worked in close co-operation with the Health Authority with marked benefits in town planning. The Chief Health Superintendent reports:—

"The Town Council has on our advice made up many of the proposed streets in various town layouts—this coupled with the streets surfaced by Public Works Department has effected considerable improvements in the town."

32. In each province the Medical Department is building up teams under a Chief Health Superintendent to organise sanitation and town planning. In the South-western Province, the Chief Health Superintendent has given the following account of work that has been done :—

"The department built latrines for the new Health Centre at Madina Bum, built the new Protectorate Office for the Registrar of Births and Deaths, repaired latrines in the reservation. The new market in Bo Town was designed by this department and the temporary latrines were constructed by us. The department continued to be the unofficial Town Planning body in Bo and elsewhere, fulfilling largely the functions of a Town Planning department and Surveys Department. Bo itself is developing so rapidly—no doubt due to the new diamond wealth—that one of the Surveyors assigned to us from H.H.C.C.P.'s Office was almost fully engaged on drawing up new layouts for Bo. Koribundu was surveyed and replanned. For the development of the country I think there should be at least a Surveyor for each district. Health Inspectors should be able to do the simpler layouts for the smaller towns; but in the larger towns land values are rapidly increasing and survey plans should be accurate and accurately set out on the ground to avoid disputes and litigation. The department has taken the old out-dated Cadastral Survey Sheets of Bo and super-imposed thereon proposed and existing town layouts."

This is typical of the work that is done by the Department in the Provinces.

33. The work of the various health authorities in the provinces, that are associated with chiefdom authorities and District Councils, suffered from the serious tax disturbances that have been fully described in the Report of the Cox Commission. The unrest and general social instability resulting from the widespread and lucrative development of alluvial diamond mining in the South-eastern Province has both enormously increased problems of environmental sanitation and seriously interfered with such machinery as existed for sanitary administration.

34. This is reflected in reports from Medical Officers of which the following two are typical.

The Medical Officer, Kenema reported of Kenema town:-

"There were about 21 labourers employed by the Native Administration and the work done is under the direction of the Health Inspector assisted by Sanitary Overseers. Owing to the illicit mining a good number of these labourers left of their own accord which left the town in a dirty condition".

The Medical Officer, Magburaka reported of the Health Area at Yonibana:—

"Due to the recent Protectorate disturbances there has been little money available for the payment of sanitary labourers with the consequence that standards of cleanliness have deteriorated".

The Chief Health Superintendent, South-western Province reported :— "Labour paid for by Government at J.I.C. rates is almost impossible to get or to hold. In Panguma for instance, twenty labourers were recruited each morning for more than a week, but by about 10 a.m. each day they had all disappeared. I spoke to the diggers (mostly Temnes) at all the above mentioned places and they seemed to be genuinely ashamed of the Squalor they had created around themselves and willing to help on a communal basis."

35. The Public Health (Protectorate) Ordinance provides that in scheduled health areas, the Paramount Chief of the area, or in important places, a Special Health Authority which always includes the Paramount Chief, should be the Health Authority. There is a simple set of sanitary rules made under the Ordinance, and offenders if they are natives of the Protectorate may be tried in the Native Courts and fined a maximum penalty of one pound. In the past this has been a satisfactory arrangement suited to the tribal society of the Protectorate; a Paramount Chief was able to enforce the simple sanitary rules in his town, much was done by communal effort, and any failure was regarded as a reflection upon the chiefdom. For some time this organisation has appeared to be inadequate in a changing society, and it became abundantly clear during the year that the Ordinance no longer provides for a practical system of sanitary administration. A preliminary draft of an up-to-date Public Health Ordinance for the whole country has been waiting preparation for the legislature for some years, and the preparatory legal drafting is now being done.

36. Entomological Laboratory.—No changes have been made in administration or in the general methods of mosquito control or insecticides employed. The protection of Freetown from malaria was continued by control of the larva stage by application of D.D.T. emulsion. This is supplemented by residual spraying with B.H.C. in the urban and rural areas of Freetown. Anopheline densities in Freetown and the Western area during 1956 were of similar order to those recorded in 1955. A slight increase in density was seen in Kissy Village.

The incidence of malaria in school children remains of the same order as that reported in 1955, as does the number of adults reported infected at the Connaught Hospital. Anopheline densities and parasite rates are given in detail in the half annual reports of malaria control in Freetown which are circulated.

Residual spraying in the Airport at Lungi continues. A pilot scheme in the Rokupr areas involving the use of dieldrin has been suspended in view of the reported production of resistance to this insecticide by A. Gambiae.

37. Regular estimations of the aedes index are carried out for the maintenance of an "aedes free zone" in the vicinity of the Queen Elizabeth Quay, at Freetown, and at Lungi Airport.

38. Investigations of the culex fauna of Freetown continue. In the annual report of 1955 reference was made to the introduction of *Culex fatigans* into the Freetown area. The development of *Wuchereria bancrofti* to the effective form in *fatigans* has now been demonstrated in the laboratory. The number of *fatigans* used in these infection experiments were too few to enable comparisons to be made with the susceptibility to infection reported in this species elsewhere. No 3rd stage larvae have been found in the wild population. A series of dissections of *Culex* (*Culex*) thalassius were also carried out but no larvae were found.

39. A survey to estimate the incidence of nocturnal microfilaraemia due to W. Bancrofti was carried out in Freetown and the Colony. A high incidence was found in some Colony villages but a much lower incidence was found in the area around Freetown in which mosquito-malaria control is organised. Very little transmission appears to take place in Freetown.

40. Half-yearly reports of the work of the laboratory are circulated.

41. Port Health.—As a result of the outbreak of smallpox, the port of Freetown was declared infected under the International Regulations in August and remained so until the end of the year. Movement within the port area was restricted and persons not admitted to the quay without smallpox certificates. Rodent control with warfarin was continued by the Port Management.

42. Nine cases of smallpox occurred in villages outside the perimeter fence at Lungi Airport during the year. The airport was declared infected under the International Sanitary Regulations in August and remained so for the rest of the year. 6,924 people were vaccinated in and around the Airport during the year.

MATERNITY AND CHILD WELFARE SERVICES

43. The training of Village Maternity Assistants in the Provincial Hospitals was on the whole, satisfactory, despite indifferent facilities for maternity work in many hospitals. The plan to return the trained girls to their chiefdoms met with difficulties, as the chiefdoms could not pay them. These administrative difficulties are receiving close attention and will be

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remedied; the scheme shows every promise of success. 53 girls successfully completed the course of training and were supplied with U.N.I.C.E.F. kits for maternity work.

44. In the Provincial hospitals over a thousand deliveries were recorded. There has been a steady increase of maternity cases treated in these hospitals, and few though they may still be, this is more than twice the number of deliveries in Provincial hospitals two years ago. With training of Village Maternity Assistants and the opening of Health Centres this points to the urgent need for the building of the maternity centres that are planned for all hospitals.

45. Approximately 57 per cent of the births registered in Freetown were actually delivered in the Maternity Hospital for the first time there were over 3,000 admissions and over 2,000 deliveries. Attendances at the ante-natal, post-natal and infant welfare clinics amounted to over 45,000.

46. The Domiciliary Midwifery service in Freetown has now been working for $2\frac{1}{2}$ years. Progress is inevitably slow owing to shortage of trained midwives and the demands for their services in health centres, but there has been a small increase in the numbers of patients who have had the babies at home under the supervision of the Service.

47. U.N.I.C.E.F. equipment for Health Centres and Maternity and Child Welfare Services was received during the year and has proved most useful.

48. The distribution of U.N.I.C.E.F. milk through hospitals and health centres to young children continued. Development of distribution has been slow owing to the staffing difficulties described earlier.

49. The Red Cross Society continues to distribute milk to necessitous children in Freetown.

50. School Medical Service.- A Lady Medical Officer has been posted as Schools' Medical Officer in Freetown for many years. Originally she visited schools and examined all school entrants and leavers, in the accepted routine of a school medical service and held a school clinic. During recent years the school clinic has become in fact a children's casuality department of the Connaught Hospital. Out-patients department and the numbers of casualties reporting for medical attendance have so fully occupied the time of the Medical Officer that she has been unable fully to carry out the normal duties of school inspection and the examination of classes of children other than those reporting sick. Total attendances at the school clinic during the year were over 31,000, and the school clinic at St. Joseph's Convent, which receives a Government grant in aid, treated 21,000 attendances. Outside Freetown there is no separate school medical service and schools rely upon local hospitals and medical officers, but the schools medical officer started a routine weekly visit to the new health centre at Waterloo, for it was found that many children were coming from there for treatment.

51. Dr. Rosanelli, the Lady Medical Officer-in-charge of the Freetown School Clinic throughout the year reported :—

⁴ Attendances in both clinics were heavy. It appears, that many children need not come to the clinics, if the teachers would make more use of the first-aid box in school, and if in all cases, except in emergencies, the parent would have to give their consent before the child attends the clinic. All the intentional missing of unpopular lessons might be largely reduced. The Lady Medical Officer Schools could then find more time to visit Schools, and do routine examinations of new comers."

"Three factors leading to malnutrition and avitaminosis are:----

- 1. The children get too little food.
- 2. The children get the wrong kind of food, i.e. mainly rice. Milk or eggs are practically not known in their diet. Very little meat, fish mostly dried, very little vegetable and these vegetables only boiled for a long time in the different sauces that are eaten with the rice.
- 3. The children are not fed regularly and at reasonable intervals. Many of them get their first meal when they come home from school about 2 p.m. A great number get only 1 meal a day.

The Avitaminosis is mostly of the B deficiency type. Ariboflavinosis being the most common one. 340 severe cases of Avitaminosis were seen in this clinic.

In these cases, Avitaminosis as such caused the children to come to the clinic to seek medical attendance. The number of avitaminosis, that was detected as an additional symtom in children attending for other reasons, were numerous. All cases were treated with either cod liver oil, Malt or compound Vitamin Tablets. A printed form with suggestions for a proper diet was given to the parents of these children.

When necessary, the Red Cross supplied milk to very needy children for a limited period.

The ideal way of improving this state of affairs would be a cheap school meal that the children could buy in school and that could be given to the very poor free of charge. Even a glass of milk daily would improve the health of these children.

Wounds.—The wounds and injuries in school children's feet are so numerous, that it would be worth while to make it compulsory for school children to wear shoes as part of their uniforms. Any cheap type of sandal would do, as long as the sole of the feet are protected against nails and broken bottles.

The number of puncture wounds in soles of feet seen in this clinic were 900. The number seen in St. Joseph's Clinic is not known. Sores or septic wounds of other kinds are not included in this number.

Malaria.—It is striking, that the peaks are always found after school holidays when children come back from their stay in the Protectorate. Although not all fever conditions are due to Malaria I do feel that Malaria contracted in the Protectorate is largely responsible for the increasing numbers.

Yaws.—Yaws incidence in Freetown is comparatively low but high in Waterloo.

Parents.—The general interest that parents take in the health of their children is very poor. Most of the infants (5–10 years old) come to the clinic without any grown up person. Some of them severely ill, or with temperatures up to 105. To obtain a true history is very difficult. A child of that age can hardly be trusted to take care of a medicine or tablets issued to him, and one cannot expect, that it would heed or even remember any particular instruction how the medicine should be taken, or other advices given. But even when parents do come, they do not bring children back regularly, if long treatment is necessary. Especially in cases of Tuberculosis, it is the exception that the child gets his full treatment, because after about a month the parents and children lose their interest. Not all children suffering from Tuberculosis however, can be admitted to hospital.

School buildings.—The majority of school buildings in Freetown are overcrowded. All basement schools have insufficient lighting. The children having to read small prints in practical darkness. This is dangerous for their eye sight. This could be remedied with not too large an effort, by installing proper and adequate artificial lighting.

I was surprised to find a Government assisted school Kroo Primary Infant Department in Macdonald Street with an enrolment of 165 children and no toilet facilities. Generally the sanitary conditions in which latrines are kept are poor and would need more supervision by the teachers.

Private schools.—The conditions in most private schools can only be described as being shocking : one has to see them to believe it. Most have no toilet facilities, with enrolments up to 300 children. The rooms are usually filthy the buildings dilapidated.

52. The note upon the incidence of fevers after holidays is of the greatest interest and indicates that children in Freetown schools, and their parents, might profitably be taught the need for malaria-prophylaxis when going outside the malaria-controlled area of Freetown. As to diet, U.N.I.C.E.F. milk has been distributed in the first place to Rural Health Centres, primarily for pre-school children, but a more general use in schools may be desirable.

ENDEMIC DISEASES CONTROL UNIT

53. This field medical unit started during the year on the W.H.O.— U.N.I.C.E.F. Scheme for eliminating yaws, and this formed the main activity of the unit during the year. The campaign was in charge of Dr. N. G. D. Cambell, M.B.E who made the following report:—

"A modern field campaign, properly organised, and equipped with the latest appliances is a very powerful weapon in the battle for health. In a matter of months, and at a fraction of the cost of other methods, it can achieve results which from static units would take generations; results, the full significance of which cannot yet be foreseen. It brings to the people in the bush, who make up a large percentage of the population, services which they are demanding and which they cannot receive by any other simple means.

This campaign, or others of a similar kind, may last for many years. After twelve months' work, many lessons of a general nature are learnt, some of which are dealt with at some length in this first annual report, in the belief that a wider knowledge of them may be of value in the future.

Method.—Two attendants go ahead of the teams to inform the people about the campaign, to make a traced map of the chiefdom and mark on it all the villages and to prepare a set of itineraries for each pair of the attendants. These visit and treat every village in the itinerary, returning at the end usually to the headquarters of the chiefdom. A chiefdom is normally treated by six pairs of attendants with a medical officer or other team leader supervising the work and supplying extra penicillin or equipment that is required. It is believed that both the chiefdom people and the attendants like to know that there is a responsible officer not far away. In many chiefdoms the Paramount Chief has lent a uniformed messenger to each pair. Apart from helping with the language and the itinerary, this sets the stamp of the Chief's approval on the work and results in a much greater number of people being treated.

Initial treatment survey.—Owing to the prevalence of yaws it was decided to undertake total mass treatment, the treatment of every possible individual. The dosage used has been 4 c.c. for adults and 2 c.c. for children (15 years or under) with visible yaws, and half this for those without visible yaws.

Treatment started at Mabonto and Bumbuna on 16th January. From there the teams moved across country to the French Guinea border at Mongo Chiefdom, then along the motor road through Kabala, Makeni, Magburaka and Yele, treating the chiefdoms on either side of the road. This covered every chiefdom lying wholly or in part east of the Yele-Kabala road, twenty-four in number, and was completed by 16th November.

Progress at first was rapid. Much of Koinadugu district is thinly populated with a density of not much more than twenty people to the square mile. Later in Limba and Temne chiefdoms progress became much slower. The Korankos tend to live in large villages or towns separated often by a considerable distance, while the Limbas and Temnes seem to prefer large numbers of small villages. If a pair treats only two villages each day this makes working in some of the thickly populated chiefdoms rather tedious, but undoubtedly increases greatly the percentage of the population treated.

Nieni Chiefdom (Koranko) covering 920 square miles contains about sixty villages while Biriwa (Limba) and Bonkolenken (Temne) each of about 330 square miles contain well over 200 villages. Each of these three has about 2,900 tax payers and the total number of people treated was (in the above order and in round figures) 7,000, 14,000, 21,000.

The estimated population is calculated from the number of tax payers. This is not quite as accurate as it might seem; for not only does the definition of tax payer seem to vary considerably from one chiefdom to another, but there is also no certainty that a taxpayer and his family are resident in the chiefdom. Many people pay tax in a chiefdom for some years after they have left it, if they intend to return eventually. In one chiefdom, Tane, the number of taxpayers in 1956 was almost exactly half that of 1955, although there is no reason to believe that many people had left in that time. Calculated from taxpayers, the percentage of the population treated in this chiefdom was 304 per cent of adults and 499 per cent of children; obviously absurd figures.

Over the last few years, very large numbers of Korankos left their chiefdoms for the diamond areas, and in the last two months of the year substantial numbers of them have returned, no doubt many of them with yaws. It is interesting to note that the fast month cause no interruption even in a chiefdom with a large number of Moslems. August and September are unpleasant months for Moslem workers, but, again, there was no hold-up of the work due to rain.

The figures for persons treated in the initial treatment survey are given in Part II. The figures for yaws should be interpreted with caution. Apart from great personnal variation in the diagnosis of yaws, persons diagnosed as suffering from diseases other than yaws, e.g. tropical ulcer, are given 4 cc. of penicillin and are therefore classified as yaws cases. *Re-survey.*—By the middle of November, the eastern half of the Northern Province had been treated and rather than start on the western half it was decided to begin the re-survey. Reports from the areas which the campaign had visited suggested a substantial reduction in the prevalence of yaws and it was felt preferable to visit the area again and consolidate gains already made and not allow the disease to build up again. It was known that several thousand people had returned to Koinadugu District from the diamond areas in November and it was believed that an undesirable low percentage of the population had been treated in the initial treatment survey. For these reasons a second total mass treatment of this district was considered necessary.

This would take very little longer than just the treatment of new cases, relapses and contacts; the only difference in cost is in the extra penicillin used. It might be difficult to collect the people for examination if it was known that only a few of them would receive an injection and, lastly, it might be a number of years before permanent treatment facilities could be established in some of these chiefdoms. Once this decision was made, there was no possibility of the re-survey being done by a few attendants and allow the others to continue in the other half of the province.

Results.—It is not possible to assess the results of the first year's work merely by studying the figures for people treated or by calculating the reduction in the prevalence of yaws. As in building a bridge much of the early work is in laying foundations which are not seen by the casual observer, but they are nonetheless valuable.

First, a number of attendants have become proficient in the work and they have obtained a very extensive knowledge of this part of the country. Some of them have learnt languages which they did not speak before, and several have learnt to work with intelligence and to overcome difficulties themselves without running constantly to others for help. The importance of junior staff being able to work efficiently and honestly unwatched and unaided can hardly be exaggerated; the future of more projects than the yaws campaign depends on it.

Secondly, a popular Government Service has been taken to a large number of villages, to many of them for the first time. Everyone, whether inhabitant or stranger, was able to benefit with no questions asked. Distant villages feel cut off and forgotten; they hear of great works being undertaken in the larger towns but complain that they get no help. At a time when increasing interest is being taken in the level of taxation and in the way in which money is spent, the campaign may well have had an influence on more than the prevalence of yaws.

It seems likely that the majority of people actually suffering from yaws received an injection. In Mabonto dispensary no case of yaws was reported for treatment for three months after the campaign had left. Since then a steadily increasing number have been seen. This pattern has been seen in all centres of treatment in the area covered but it must be remembered that some hospitals, such as Makeni, draw quite a substantial proportion of their patients from chiefdoms which have not yet been treated.

Unfortunately the figures from the three re-surveyed chiefdoms are equivocal. There is great variation in the diagnosis of yaws; some attendants will label as yaws faint cracks and erosions on the sole while others will reserve the diagnosis for those with undoubtedly active cases. Scabies, impetigo and leprosy are no doubt frequently diagnosed as infectious yaws. In only two villages in these three chiefdoms has the examination been done by a medical officer. In Kulifaga, out of a total of 227 people examined there was one case of infectious yaws, about seven cases of active hyperkeratosis and forty cases of mild hyperkeratosis which had almost certainly been treated ten months before and were now cured and inactive. In Mabonto out of a total of 613 people examined there were 15 cases of infectious yaws, some of whom may not have been for treatment at the dispensary, and 69 cases of hyperkeratosis, many of them very mild as in Kulifaga. Mabonto was surrounded for eight months on three sides by untreated chiefdoms.

On the whole it can be said that infectious yaws was uncommon in the re-surveyed chiefdoms as was active hyperkeratosis but that faint, probably cured hyperkeratosis was common.

ENVIRONMENTAL SANITATION

54. At the end of 1955 and beginning of 1956 Dr. J. R. Rose, F.R.C.S., Medical Superintendent of the Nixon Memorial Hospital of the Methodist Mission, at Segbwema, South-eastern Province reported what appeared to be a form of virus encephalitis that he had observed at the hospital. The first cases he saw came from the diamond mining area of Yengema where a great deal of illicit mining was taking place. There was also a popular reference to a disease called "Yengema Sickness", said to be causing heavy mortality among illicit miners. "Yengema Sickness" was probably no one disease, but a mixed bag of intestinal and other infectious, malnutrition, and smallpox.

55. Diggers engaged in illicit mining were living in mushroom settlements around the Sewa and Bafi rivers, many of them in very inaccessible places. As the majority of the population were engaged or connected with an illegal activity, and successful operators were amassing great wealth, the enforcement of any sanitary law would have been difficult or impossible, but as noted in paragraph 35 above, the Public Health (Protectorate) Ordinance was designed for use in a stable peasant society, and is quite ineffective in unstable conditions of this kind.

56. The following reports made by public health officers give some indication of conditions in these diggers settlements:—

"I was taken to the village of Jala by the Security Officer of the Sierra Leone Selection Trust. This village lies off the Sefadu-Jiama Road and was originally a hamlet too small to be shown on maps of the area, today it is a rapidly growing settlement of illicit diamond miners and dealers. Houses of the poorest type are being erected on every piece of open land, the roofs of many touch those of adjoining buildings. Additional rooms are continually being added to existing houses as the demand for accommodation increases, the ceiling height of many of these does not exceed 4 ft. at the external wall. There are usually 6 to 8 occupants to each room.

The only water supply is provided by the nearby swamp in which diamond mining is taking place. There are no latrines whatsoever and the whole area for some distance around the village is fouled by human excrement. Everyone has money to purchase canned provisions and there are empty food tins in quantity lying around every house. These, together with excrements are given rise to massive fly breeding, in addition there are numbers of empty wine and beer bottles everywhere.

The population consists of many tribes but Madingoes predominate, it is not static and there is apparently constant traffic between here and the larger towns on the main major roads and with territories outside Sierra Leone. Environmental conditions in Jala are typical of scores of such centres of population in Kono District. A report submitted to me by a Senior Attendant of the E.D.C. Unit confirms this. The Attendant concerned is a Kono who speaks Madingo and Mende, and was sent by me to the villages of Peyima, Sukudu and Gbondu (located North-west of Sefadu) which are notorious mining centres. These three villages are not accessible by motor road and can only be approached by footpath from Tunbudu, their remote position renders them very suitable for illicit operations, consequently they are larger than Jala and are growing rapidly. Demands for accommodation have outstripped the villagers capacity to build traditional mud houses and large numbers of shimbek shelters are being erected and used as dwellings."

"I inspected Tumbodu and the outlying villages of Nemesadu, Kpondu and Peyima. The only approach to Nemesadu, Kpondu and Peyima is a bush path across several streams.

Tumbodu, Kpondu and Peyima are densely over populated but Peyima is the most densely overpopulated. The population is composed of about 90 per cent foreigners. The majority of the foreigners are Madingos from the French Guinea, Arabs, Hausas and a few Sierra Leoneans. We estimated that Tumbodu had about 5,000 people. Gbondu about 4,000 and Peyima about 7,000. They appear to be traders with all types of imported and local commodities who have settled recently with their family in these places.

Tumbodu.—Has fairly good number of mud and zinc or thatched roof buildings with very little space between the houses; most houses were recently constructed in open spaces, however there are a few streets which serve as market places for the foreign traders to spread their wares, and also cook their meals. When we arrived there just after 7.00 a.m. we could see people collecting their beddings from the verandahs and a few still sleeping. They have (stand pipe water supplies) very few pit latrines. Refuse, empty tins, and bottles were scattered around the houses.

Kpondu.—The approach to this village is foul with swarms of flies; except for an open space around the Court Barri; the shimbecks are almost eave to eave with just enough space for passage. The water supply is from a stream which is polluted. There is, no latrine no means of refuse disposal and no burial ground; a very insanitary village with swarms of flies.

Peyima.—Is the most insanitary village that I have ever seen; it is unbelievable that human being could live in such filth. There are hundreds of shimbecks about 5 feet high with no windows clustered together; there were twenty of those being built that day and it would appear these people go and squat on a plot and within a day or two build their mud block and thatch roofed shimbeck. It is a densely over populated area in a valley with no latrine, no burial ground, with refuse, empty tins, bottles scattered about and polluted water supply from a spring and stagnant streams, breeding mosquitoes, excrement scattered on the path with heavy fly breeding. On that day they had slaughtered six cows which were hung up for sale and covered with flies; every particle of food exposed for sale was covered with flies; bread seem to be very much in demand and we saw a bakery of some sort." 57. Despite difficulties, action to introduce the most primitive requirements of sanitation, such as the control of excreta and refuse, with insecticidal spraying of dumps met with some success in a few of the worst settlements; but the extreme mobility of the diggers, who went from place to place trying their luck, often meant that improvement in one place was more than balanced by deterioration in another. In one of these towns the Health Inspector was able to identify 24 different tribes or peoples, who came from all over West Africa from Senegal to Nigeria. They far outnumbered the local people.

58. Later as licensed diamond mining started there was a movement of population to Kenema and Bo Districts with a similar growth of insanitary mushroom settlements.

59. Vaccination against smallpox was maintained and intensified in the alluvial diamond mining areas throughout the year, over 100,000 vaccinations being done in the Kono District alone, and over 60,000 in other Districts of South-eastern Province. Over 600,000 vaccinations were done in the whole country. There is a great deal of avoidance of vaccination, and where staff have to work without reliable supervision the difficulties that occur are well described by the Medical Officer, Moyamba:—

"In general it can be said that these young men should not work without closest supervision. There are some evidences that they are inclined to give wrong reports of their work.

A second point to be considered in trying to suppress this epidemic is the fact, that still too many people refuse vaccination and disappear when they see vaccinators coming.

Isolation is too often ineffective. The patients simply disappear.

The so-called Health Overseers are useless. They stay in their places and do not make any effort to oversee the health situation in their areas. It is not only because of lack of transport, but mostly because of lack of responsibility or/and lack of insight in the danger of such outbreaks.

Too often patients with full-blown smallpox travel in buses or launches or even trains."

60. The Chief Health Superintendent, South-western Province reported :—

"As smallpox commenced, vaccination teams were set to work in the Province-working systematically chiefdom by chiefdom and radiating from Bo. This proceeded steadily—but, without any obvious or immediate danger, we met difficulties ranging from indifference to hostility and the vaccination in the chiefdoms probably never exceeded 50 per cent of susceptible persons. We endeavoured to keep the systematic chiefdom vaccination going-but as the disease spread our vaccination teams were made smaller and more numerous and we tried to "blanket" off each area where smallpox was reported-by isolating of cases and vaccination of surrounding areas. Bo has been regarded as the Protectorate cross roads and has been repeatedly and intensively vaccinated and of the nearly 200 cases isolated during the period in Bo-the vast majority were strangers who tried to reach Bo for treatment or who were taken off lorries by us when they were trying to reach their home towns usually from the diamond zones heading for the Northern Province. Almost all the staff was put on vaccination and smallpox work. The general increase in the spread of smallpox is no doubt attributable

to the original resistance to vaccination and even more to the vast population movements brought about by the diamond industry. Vaccination continues to be the chief concern of the Department."

61. There is little public comprehension in Sierra Leone of the dangers of infection from smallpox, and lorry drivers often have no hesitation in accepting passengers with obvious smallpox. These infected persons attempt to travel to large centres such as Bo or Freetown for hospital treatment, so spreading infection. Formerly with less well developed road communications rapid spread of infection could be more easily controlled, and the numerous ferries on every main road made effective sanitary control posts for vaccination and isolation of the sick. The replacement of ferries by bridges, and the great increase of motor traffic have contributed greatly to the dangers of spread of infectious disease.

62. In November, Government took steps to remove "strangers" or "native foreigners" from the diamond digging areas and they were warned to return home. The result of this warning was that approximately 40,000 persons left the mining districts within a month, and smallpox became widespread despite all efforts to isolate the sick and vaccinate. Some of the chief routes taken by these considerable movements of population are off accessible motor-roads and extremely difficult to control.

63. As soon as the insanitary settlements were evacuated all unfit temporary dwellings were destroyed under the provision of the Public Health Ordinance, the country having been declared infected with smallpox. Between 5,000 and 6,000 temporary shimbecks containing about 20,000 rooms were destroyed and this left considerable open spaces around the shanty towns. There was unfortunately an immediate tendency for these sites to be reoccupied and lack of adequate building regulations as well as lack of staff, made control of new building difficult.

64. Apart from the outbreak of smallpox there has been little variation in the general pattern of diseases treated from previous years. Accidents continued to be an increasing cause of hospital treatment, and over 3,000 cases described as motor vehicle accidents were treated as inpatients and outpatients, but a number of motor accidents are probably wrongly entered as due to other transport, or to falls. The increase in accidents treated is shown by the following table of hospital inpatient and outpatient admissions.

		1952	1953	1954	1955	1956
vehicle transport	accidents accidents	463 113	862 562	1,104 515	1,657 669	3,318 798
	Total	576	1,424	1,619	2,326	4.116

65. As noted previously, there are still a number of accidents due to firearm's and the three Northern Province hospitals at Makeni, Kabala and Port Loko treat more than twice the number treated elsewhere in the country. These hospitals treated 134 cases out of a total for all the hospitals of 194.

GENERAL

66. Important Visitors.—The following visitors from abroad, visited the Medical Department during their stay in Sierra Leone:—

- 1. Dr. R. Lewthwaite, C.M.G., Director of Colonial Research Service.
- 2. Dr. Geser, of the World Health Organisation Tuberculosis Team.
- 3. Dr. Cruz Ferreira, World Health Organisation V.D.T. Adviser,

- 4. Dr. R. Marti, United Nations International Children's Emergency Fund, Chief Representative.
- 5. M. Marcel Ganzin, Nutrition Officer.
- 6. Sir George Seal, K.C.M.G., First Crown Agent.
- 7. Rt. Honourable John Hare, Minister of State.
- 8. Lieut-Colonel Walters of West African Council for Medical Research.
- 9. Professor Toumanoff, Head of Entomological Department at the Institute Pasteur, Paris.

ATTENDANCES AT CONFERENCES

67. Dr. T. P. Eddy, Director of Medical Services, attended the annual meeting of the West African Council for Medical Research and the Seventh Conference of Directors of Medical Services, West Africa, at Accra, Gold Coast, in March. Dr. M. C. F. Easmon, Temporary Medical Officer, also attended this meeting of the West African Council for Medical Research.

68. Dr. D. E. Boye-Johnson, Senior Medical Officer (Health) attended the International Symposium on Venereal Diseases and Treponematoses held in Washington D.C. in May, 1956 and also the meeting of the sixth session of the World Health Organisation Regional Committee for Africa in Luanda, Angola, in September, 1956.

69. Dr. N. G. D. Campbell, Medical Officer-in-Charge of the Endemic Diseases Control Unit, attended a conference on the co-ordination of yaws control in West Africa, in Ghana in August.

- 70. Legislation.—The following were enacted during the year:—
 No. 19—The Public Health (Protectorate) Ordinance (Cap. 191) 1956 (Special Health Authority).
 - No. 20—The Public Health (Protectorate) Ordinance (Cap 191) 1956 (Health Areas).
 - No. 24—The Dogs Ordinance (Cap. 67) Proclamation, 1956.
 - No. 49—The Dangerous Drugs Ordinance (Cap. 58) Order in Council 1956.
 - No. 71—The Public Health (Protectorate) Ordinance (Cap. 191) 1956 (Special Health Authority).
 - No. 72—The Public Health (Protectorate) Ordinance (Cap. 191) 1956 (Health Areas).
 - No. 73—The Public Health (Protectorate) Ordinance (Cap. 191) 1956 (Special Health Authority).
 - No. 74—The Public Health (Protectorate) Ordinance (Cap. 191) 1956 (Health Areas).
 - No. 119—The Nurses Ordinance, 1955 (No. 18 of 1955) (Commencement) Order, 1956.
 - No. 122—The Midwives Ordinance, 1955 (No. 19 of 1955) (Commencement) Order, 1956.
 - No. 123—The Public Health (Protectorate) Ordinance (Cap. 191) 1956 (Smallpox Infected Areas) Order, 1956.
 - No. 127—The Public Health (Protectorate) Ordinance (Cap. 191) 1956 (Health Areas).
 - No. 128—The Public Health (Protectorate) Ordinance (Cap. 191) 1956 (Special Health Authority).

Literary Contributions.

71. Dr. F. Stephen Carter, M.A., M.D., M.R.C.P., D.C.H., Physician Specialist, Sierra Leone Medical Service, submitted a paper on "Practical Public Health Measures on Tuberculosis Control in the African Region" for technical discussion at the sixth World Health Organisation Regional Committee for Africa held in Luanda in September.

72. Mr. C. Peel, Chief Health Superintendent, submitted a paper on "Health and Environment in Rural Areas in British West Africa" to the World Health Organisation in May.

> T. P. EDDY, Director of Medical Services.

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PART II

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PART II

STATISTICAL INFORMATION

1-ADMINISTRATION AND STAFF ESTABLISHMENT

Administration

- 1 Director
- 1 Deputy Director
- 1 Assistant Director
- 1 Administrative Secretary
- 1 Stock Verifier
- 1 Financial Assistant

1 Senior Specialist

- 3 Specialists
- 1 Senior Medical Officer (Health)
- 2 Medical Officers (Health)
- 1 Senior Medical Officer
- 1 Matron
- 2 Senior Nursing Sisters
- **13 Nursing Sisters**
- **3 Health Sisters**
- 1 Supervisor of Midwifery
- 8 Senior Staff Nurses
- 16 Staff Nurses, Grade I
- 20 Staff Nurses, Grade II
- 194 Nurses and Midwives
- 220 Student Nurses and Student Midwives 1 Chief Surgical Assistant
 - 1 Senior Pathologist
 - 1 Pathologist
 - 1 Laboratory Superintendent
 - 1 Laboratory Assistant, Grade I
 - 1 Chief Dispenser
 - 3 A ssistant Chief Dispensers
 - **4** Senior Dispensers
 - **5** Radiographers
 - **6** Dental Officers

1 Keeper

1 Chief Attendant

- 4 Chief Health Superintendents
- 1 Entomologist
- 10 Health Superintendents
- 2 Registrar of Births and Deaths
- 2 Medical Entomological Assistants

Medical Stores

- 1 Storekeeper and Inspecting Pharmacist 2 Assistant Storekeepers and Inspecting
- Pharmacists
- 3 Store Assistants, Grade I
- Endemic Diseases Control Unit
- 2 Senior Attendants, Class I 15 Senior Attendants, Class II

1 Transport Foreman

1 Motor Mechanic

Stokers, Cooks, Porters, Ward Attendants, Messengers, Packers, Telephone Operators, Sewing Maids, Mosquitoe Spotters, Special Constales, Carpenters, etc.

Medical Officers-Endemic Diseases Control Unit 2 Physiotherapists

32 Medical Officers (including Lady Medical

Nursing

3

General

1 Senior Surgical Assistant

1 Assistant Stock Verifier

2 Hospital Secretaries

4 First Grade Clerks

44 Second and Third Grade Clerks

1 Chief Clerk

1 Surgical Assistant

Officers)

- 30 Probationer Infectious Diseases Nurses
 - 1 Linen Store Supervisor
 - 1 Laundry Supervisor
 - 1Senior Health Visitor
 - 1 HealthVisitor, Grade I
 - 3 Health Visitors, Grade II
 - 9 Health Visitors, Grade III
- 1 Supervisor of Village Midwives
- Laboratory
 - 3 Laboratory Assistants, Grade II
 - 4 Laboratory Assistants, Grade III
 - 5 Laboratory Assistants-in-Training

Pharmaceutical 16 Dispensers, Grade I 48 Dispensers, Grades II and III

Radiological

Dental

2 Dental Mechanics

- Mental
 - 60 Senior Attendants and Attendants
- Health
 - 7 Health Superintendents -in-Training
 - 3 Health Inspectors, Grade I
 - 50 Health Inspectors, Grades II and III
 - 38 Health Inspectors-in-Training

6 Store Assistants, Grade II

3 Store Assistants, Grade III

12 Store Issuers

63 Attendants and Learners

Transport

3 Senior Drivers 39 Drivers

Miscellaneous

Expenditure during past three years:---

		1954	1955	1956
Personal Emoluments Other Charges	• •	£ 214,561 241,536	£ 248,039 240,638	£ 341,299 223,588
Total	••	456,097	488,677	564,887

In addition there was the following expenditure on Medical schemes under the Colonial Development and Welfare Act:—

			Revised Estimated Total Cost of Scheme	Expenditure to 31st December, 1956
			£	\pounds s. d.
Protectorate Health Centres	ан. С м. н		11,444	10,981 1 6
Health Centres—Colony	• •	• •	5,400	0 19 4
New Hospital, Kenema	• •	••	10,804	5,746 19 10
New Hospital, Koidu	• •	• •	21,619	13,659 3 7
New Hospital, Magburaka	• •	• •	27,595	19,283 17 0
Lungi Hospital	••	• •	17,598	15,535 3 3
New Hospitals, Kambia and Port			22,420	19,350 19 9
Tuberculosis Hospital, Lakka		• •	7,800	1,761 5 0
Extensions to Provincial and Prin	ncess Ch	nris-		
tian Hospital	••	• •	8,000	1,326 10 7

3—HOSPITAL SERVICES

A. GOVERNMENT HOSPITAL BEDS

NUMBER AND CATEGORY OF BEDS

Name and Location of -						
Hospital		Obstet-	Tuber-			Remarks
	General	rical	culosis	Infectious	Mental	
A. COLONY:				U		
Connaught	150	-				31 cots
Connaught Annexe	20	-			- +	
Hill Station	31	Winnerson and State		2	1 +	3 ,, 3 ,,
Maternity		52			· · ·	12
Murray Ťown				40		45 "
Lakka Tuberculosis		-	50			
Kissy Mental					112	
King George V Memoria					112	
Home	64			*10	-)For	the aged
Female Infirmary	32			10	—)and i	indigent
Princess Christian	23				janu j	margent
	20					
B. Protectorate:						
Bo	76	10	10			12 cots
Bo Annexe	А					12 0015
Bonthe	20	6		2	- +	A
Moyamba	17	2				4 ,,
Pujehun.	22					2 ,,
Kailahun	12	3				² ,,
Makeni	22	4			- +	4 ", 2 ", 2 ", 3 ", 2 ", 4 "
Port Loko	10				- +	2 ,,
Kabala	20	1		terring	- +	
Line	12+				- +	4 "
Kenema	20	4		the second s		
Maghuraka	20	3	1			4
www.boutaka			1		- +	4 ,,
	623	85	61	54	113 +	117 cots
					•	

*For Leprosy

Name and Location

[†]The twelve beds in this Institution are reserved for emergency and in the event of an accident to Aircraft.

<i>B</i> .	ATTENDANCES	AT	GOVERNMENT	HOSPITALS
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Name of I	In nationto	OUT-PATIENTS				
A. COLONY:	115111411071		In-patients	New cases	Subsequent Attendances	Totals Attendanc e s
Connaught Hill Station Maternity	••••••	• •	2,795 409 3,180	42,495 1,378	87,489 3,737	129,984 5,115
Cline Town	••••••	• •		16,545	41,447	57,992
	Total	• •	6,384	60,418	132,673	193,091
B. PROTECTOR	ATE:					
Bo	•• ••	• •	2,545	28,196	69,017	97,213
Njala	• • • • •	• •		9,147	6,381	15,528
Bonthe	• • • • •	• •	892	9,296	8,904	18,200
Moyamba			722	9,334	11,884	21,218
Makeni			761	8,054	15,459	23,513
Pujehun	•• ••	• •	512	9,156	5,011	14,167
Kenema			651	12,890	20,917	33,807
Kailahun		• •	573	7,628	38,219	45,847
Port Loko	••••••		438	13,709	23,780	37,489
Magburaka (opened 9/1956)	• •	170	8,273	11,707	19,980
Kabala	•••	• •	510	7,190	6,685	13,875
Lungi	•• ••	• •		5,452	12,019	17,471
	Total	• •	7,774	128,325	229,983	358,308
Colony Hospi Protectorate	tals Hospitals	•••	6,384 7,774	60,418 128,325	132,673 229,983	193,091 358,308
	GRAND TOTAL	• •	14,158	188,743	362,656	551,399

C—MEAN ANNUAL HOSPITAL ATTENDANCES DURING TRIENNIAL PERIODS FROM 1948 TO 1956 A. COLONY:

				IN-I	PATIENTS	OU^{\prime}	OUT-PATIENTS		
Including Cliv	ie Town	and							
Maternity					New cases	Subsequent Attendances	Total Attendances		
1948-1950				4,908	56,888	184,875	241,763		
1951-1953			• •	4,890	54,741	188,530	243,271		
1954-1956	• •	• •	• •	5,709	65,480	163,744	229,224		
B. PROTECT	ORATE:				·	· · · · ·	,		
1948-1950	• •	• •	• •	3,973	67,336	183,271	284,273		
1951-1953	• •	• •		4,694	106,283	189,660	295,943		
1954–1956	• •			6,821	115,836	253,991	369,827		

D-MATERNITY AND CHILD WELFARE SERVICES

Attendances and bed space are included under Hospital Services above. Freetown Maternity Home.

In Freetown, out of a total of 2,164 deliveries there were 1,689 normal cases and 475 abnormalities.

Sixty-three of the total of 2,164 deliveries were twin deliveries. 2,227 babies were born of which 236 were described as premature including 19 sets of twins.

One hundred and seventy two still births and 113 post-natal deaths occurred in the 1991 full-term infants.

Thirty-seven still births and 32 post-natal deaths occurred in the 236 premature infants.

There were 22 maternal deaths.

In one of the two Colony Health Centres in operation 48 deliveries were recorded.

Domiciliary Midwifery Service.

There were 181 bookings during the year compared with 80 in 1955. 65 patients were delivered at home, 45 were admitted to the Maternity Hospital for complications and 14 made other arrangements for delivery.

In the Provincial Hospitals 1,186 women were admitted to the maternity wards. The total number of deliveries recorded was 1,093 of which 439 were recorded in Bo Hospital.

In the Provincial Health Centres 491 deliveries were recorded.

Maternity and Child Welfare Clinics.

AT	TENDANCES	AT FREETOV	VN CLINICS	5	
		New	Cases	Subsequent	Attendances
		1955	1956	1955	1956
Ante-natal and Post-natal clinics	• •	8,430	6,550	21,242	16,111
Gaenycological V.D. Clinic		425	665	3,788	3,192
Infant Welfare Clinic	• •	2,976	4,629	9,164	14,064
Attenda	NCES AT BO) ANTE-NAT	AL CLINIC		
		1954	1955	1956	
New Cases		831	942	1,356	
Subsequent Attendances	• •	2,563	4,019	5,321	
ATTENDAN	ces at Bo I	NFANT WEL	FARE CLIN	IC	
		1954	1955	1956	
New Cases		778	801	977	
Subsequent Attendances	• •	3,530	3,958	4,120	

SCHOOL MEDICAL SERVICES

	First Attenda	nce Subsequ	Total Attendances			
Freetown School	1955	1956	1955	1956	1955	1956
Clinic	25,173 13,007	18,317 13,926	15,179 8,468	12,770 7,380	40,352 21,475	31,087 21,306

E-MENTAL HOSPITAL

Numbers	s of pat	ients adı	mitted to	the Kissy	Mental	Hospital	during the ye	ear:
	-					Males	Females	Total
Remaining inh	ospital	on 31st L	December	, 1955	• •	138	50	188
Admissions	• •	• •	• •		• •	36	13	49
Discharges	• •	• •	• •	• •	• •	22	1	23
Absconded	50 a.	* *	• •	• •	• •			
Deaths	··		 Da cana ha	. 1056	• •	8	5	11
Remaining in]	nospital	on sist.	Decembe	1, 1950	• •	144	59	203

The causes of death were reported to have fallen into three main groups:----

(i) Diseases of old age; (ii) Syphilis; (iii) Intestinal parasites and infection.

F-INSTITUTIONS

Numbers of admissions and discharges—Kissy Female Infirmary and King George V Memorial Home:

						Males	Females	Total
Remaining in 1	hospital 3	Bist Dece	mber. 195	5		80	27	107
Admissions	• •		• •			31	16	47
Discharges			• •			12	1	13
Absconded	• •	• •					2	2
Deaths		••	••	••	• •	21	9	30
Remaining in	hospital	31st Dece	mber, 195	6	• •	78	31	109

Ĝ-ENDEMIC DISEASES CONTROL UNIT

Thirty-seven new cases of Sleeping Sickness were diagnosed and treated in the centres during the year. This showed a decrease of 31 on the figure for 1955. Of these cases, 29 came from the Kailahun Endemic Area, 7 from Kenema District and 1 from Kono. The highest figure in any one town was recorded at Kangama a town near the Liberian border.

II—TREATMENT CENTRE RETURNS S.S. Yaws B'zia Dysentery Lep- Intestinal Other Total Total Amoebic rosy Diseases diseases New Atten-Cases dance s South-eastern Province ... 1,874 2,681 1,185 6,952 56,435 70,537 109,814 37 137 Northern 61 600 Province ... 475 18 77 6,348 6,343 53,454 **III—YAWS CAMPAIGN**

DETAILS OF FINDINGS IN FIRST RE-SURVEY
ADULTS
CHILDREN

Chiefdom		Infectious Yaws	Total Treated	Infectious Yaws	Total Treated	Total Treated
Kafesimira Kalansogoia	••	134 33	4,793 3,603	212 138	3,770 2,416	8,563 6,019
Sambaia	• •	21	4,011	86	2,891	6,902
Total	• •	188	12,407	436	9,077	21,484

DETAILS OF FINDINGS IN INITIAL TREATMENT SURVEY

ChiefdomTaxpayersseenseenYawsInjeceKafe Simiria2,1914,9303,9892,0958,0Kalansogoia2,0923,9602,8082,2646,76Sambaia2,2013,5192,2981,7395,81Nieni2,9884,0833,2172,1527,30Diang1,7413,4052,4022,1915,86Neya3,0823,3682,7751,4336,14Mongo3,4424,9853,3392,1928,32Sulima3,2643,8742,6721,1216,54Sinkunia1,5084,0632,2661,2176,32Musaia1,5084,0632,2661,2176,32Yagala1,9834,1092,7731,1676,83Sengre2,5414,3122,7491,4367,06Kassunko2,9785,9953,7102,3079,70Biriwa2,9428,6955,9733,77314,66Safroko Limba2,94210,9427,3003,73118,22Makari Gbanti2,9128,6715,5803,68714,2Paki Masabong1,8135,4843,7331,4979,2	9 8 7 0 7 3 4 6
Kalansogoia2,0923,9602,8082,2646,76Sambaia2,2013,5192,2981,7395,81Nieni2,9884,0833,2172,1527,30Diang1,7413,4052,4022,1915,80Neya3,0823,3682,7751,4336,14Mongo3,4424,9853,3392,1928,32Sulima3,2643,8742,6721,1216,54Sinkunia1,5084,0632,2661,2176,32Musaia8492,0631,2575453,33Bafodea20763,4172,1421,3245,55Yagala1,9834,1092,7731,1676,83Sengre2,5414,3122,7491,4367,00Kassunko2,9785,9953,7102,3079,70Biriwa2,9428,6955,9733,77314,60Safroko Limba3,9008,5885,3532,69613,94Bombali Sebora2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,2	8 7 0 7 3 4 6
Sambaia2,2013,5192,2981,7395,81Nieni2,9884,0833,2172,1527,30Diang1,7413,4052,4022,1915,80Neya3,0823,3682,7751,4336,14Mongo3,4424,9853,3392,1928,32Sulima3,2643,8742,6721,1216,54Sinkunia1,5084,0632,2661,2176,32Musaia1,5084,0632,2661,2176,32Musaia1,9834,1092,7731,1676,83Sengre2,5414,3122,7491,4367,06Kassunko2,9785,9953,7102,3079,76Biriwa2,9428,6955,9733,77314,66Safroko Limba3,9008,5885,3532,69613,94Bombali Sebora2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,22	7 0 7 3 4 6
Nieni2,9884,0833,2172,1527,30Diang1,7413,4052,4022,1915,80Neya3,0823,3682,7751,4336,14Mongo3,4424,9853,3392,1928,32Sulima3,2643,8742,6721,1216,54Sinkunia1,5084,0632,2661,2176,32Musaia8492,0631,2575453,32Bafodea20763,4172,1421,3245,55Yagala1,,9834,1092,7731,1676,83Sengre2,5414,3122,7491,4367,06Kassunko2,9785,9953,7102,3079,70Biriwa2,9428,6955,9733,77314,66Safroko Limba2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,22	0 7 3 4 6
Diang $1,741$ $3,405$ $2,402$ $2,191$ $5,80$ Neya $3,082$ $3,368$ $2,775$ $1,433$ $6,14$ Mongo $3,442$ $4,985$ $3,339$ $2,192$ $8,32$ Sulima $3,264$ $3,874$ $2,672$ $1,121$ $6,54$ Sinkunia $1,508$ $4,063$ $2,266$ $1,217$ $6,32$ Musaia 849 $2,063$ $1,257$ 545 $3,33$ Bafodea 2076 $3,417$ $2,142$ $1,324$ $5,57$ Yagala $1,983$ $4,109$ $2,773$ $1,167$ $6,83$ Sengre $2,541$ $4,312$ $2,749$ $1,436$ $7,06$ Kassunko $2,978$ $5,995$ $3,710$ $2,307$ $9,70$ Biriwa $2,942$ $8,695$ $5,973$ $3,773$ $14,66$ Safroko Limba $2,942$ $10,942$ $7,300$ $3,731$ $18,22$ Makari Gbanti $2,912$ $8,671$ $5,580$ $3,687$ $14,22$	97 3 4 6
Neya $3,082$ $3,368$ $2,775$ $1,433$ $6,14$ Mongo $3,442$ $4,985$ $3,339$ $2,192$ $8,32$ Sulima $3,264$ $3,874$ $2,672$ $1,121$ $6,54$ Sinkunia $1,508$ $4,063$ $2,266$ $1,217$ $6,32$ Musaia 849 $2,063$ $1,257$ 545 $3,32$ Bafodea 2076 $3,417$ $2,142$ $1,324$ $5,57$ Yagala $1,983$ $4,109$ $2,773$ $1,167$ $6,83$ Sengre $2,541$ $4,312$ $2,749$ $1,436$ $7,06$ Kassunko $2,978$ $5,995$ $3,710$ $2,307$ $9,70$ Biriwa $2,942$ $8,695$ $5,973$ $3,773$ $14,66$ Safroko Limba $2,942$ $10,942$ $7,300$ $3,731$ $18,22$ Makari Gbanti $2,912$ $8,671$ $5,580$ $3,687$ $14,22$	3 4 6
Mongo3,4424,9853,3392,1928,32Sulima3,2643,8742,6721,1216,54Sinkunia1,5084,0632,2661,2176,32Musaia8492,0631,2575453,32Bafodea20763,4172,1421,3245,55Yagala1,,9834,1092,7731,1676,82Sengre2,5414,3122,7491,4367,06Kassunko2,9785,9953,7102,3079,70Biriwa2,9428,6955,9733,77314,66Safroko Limba3,9008,5885,3532,69613,94Bombali Sebora2,9128,6715,5803,68714,2	.4 .6
Sulima3,2643,8742,6721,1216,54Sinkunia1,5084,0632,2661,2176,32Musaia8492,0631,2575453,32Bafodea20763,4172,1421,3245,57Yagala1,,9834,1092,7731,1676,83Sengre2,5414,3122,7491,4367,06Kassunko2,9785,9953,7102,3079,70Biriwa2,9428,6955,9733,77314,66Safroko Limba3,9008,5885,3532,69613,94Bombali Sebora2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,2	6
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Musaia8492,0631,2575453,32Bafodea20763,4172,1421,3245,55Yagala1,,9834,1092,7731,1676,83Sengre2,5414,3122,7491,4367,06Kassunko2,9785,9953,7102,3079,76Biriwa2,9428,6955,9733,77314,66Safroko Limba3,9008,5885,3532,69613,96Bombali Sebora2,94210,9427,3003,73118,26Makari Gbanti2,9128,6715,5803,68714,22	9
Bafodea20763,4172,1421,3245,57Yagala1,,9834,1092,7731,1676,83Sengre2,5414,3122,7491,4367,06Kassunko2,9785,9953,7102,3079,76Biriwa2,9428,6955,9733,77314,66Safroko Limba3,9008,5885,3532,69613,94Bombali Sebora2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,2	
Yagala1,,9834,1092,7731,1676,83Sengre2,5414,3122,7491,4367,06Kassunko2,9785,9953,7102,3079,76Biriwa2,9428,6955,9733,77314,66Safroko Limba3,9008,5885,3532,69613,96Bombali Sebora2,94210,9427,3003,73118,26Makari Gbanti2,9128,6715,5803,68714,2	20
Sengre2,5414,3122,7491,4367,06Kassunko2,9785,9953,7102,3079,70Biriwa2,9428,6955,9733,77314,60Safroko Limba3,9008,5885,3532,69613,94Bombali Sebora2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,2	59
Kassunko2,9785,9953,7102,3079,70Biriwa2,9428,6955,9733,77314,60Safroko Limba3,9008,5885,3532,69613,94Bombali Sebora2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,2	32
Biriwa2,9428,6955,9733,77314,60Safroko Limba3,9008,5885,3532,69613,94Bombali Sebora2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,2	1.
Safroko Limba3,9008,5885,3532,69613,94Bombali Sebora2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,2	15
Bombali Sebora2,94210,9427,3003,73118,24Makari Gbanti2,9128,6715,5803,68714,2	58
Makari Gbanti 2,912 8,671 5,580 3,687 14,2	1
	12
Paki Masabong 1.813 5.484 3.733 1.497 9.2	51
	7
Kholifa 2,721 10,682 6,964 4,053 17,6	46
Tane 796 5,644 3,914 1,492 9,5	50
Bonkolenken 2,786 12,483 8,757 3,670 21,2	40
Kuniche Barina 1,179 3,299 2,180 893 5,4	79
Kuniche 2,482 7,535 5,113 1,885 12,6	48
Total 57,409 138,106 93,264 50,560 230,4	62

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H-ENTOMOLOGICAL LABORATORY

Full statistics are given in the Laboratory's report which are published half-yearly.

I-PATHOLOGICAL LABORATORY

Examinations performed in the Freetown Laboratory.

Examinations	periori	neu m	uic r.	reetown	Laborato	Ly.	10 100
BLOOD FILMS	• •	• •	• •	• •		• •	13,138
				Total			
			L	Ittendance.	s P. falc.	P. mal.	Gamet
Africans				12,862	-	4	4
	• •	••	• •	276		-	
Europeans	• •	• •	• •				1,837
Sputum	• •	• •	• •	••			
			1	Africans	Positive	Europeans	Positive
Tubercle bacilli		• •	• •	1,826	246	7	• 1
	•••			- , •		Asiatics	Positive
	_					5	1
SEROLOGICAL KHAN T	ESTS + L	AUGHLEN	J TESTS	• •	• •	• •	8,238
				Total			Weak
			A	ttendances	s Strong	Positive	doubtful
					0		
Africans	• •	• •	• •	8,162	569	1,012	388
Europeans	• •	• •	• •	68			1
Asiatics	• • .	• •	• •	8			
Laughlen Tests	• •	••	• •	115	36		
BLOOD SEDIMENTATION	J RATE			• •	• •		2,083
DECOD SEDMENTATION						Aniation	2,000
			÷	fricans	Europeans		
				1,948	107	28	
FAECES	• •				• •	• •	6,995
Africans	• •	• •	6,696				í.
Europeans	• •		226				
Asiatics			73				
1 13141105	• •	• •	15	Africa	ans Europe	eans Asiat	ics
Taenia				17		uns Asiai	105
	• •	• •	• •			1	
Ascaris	• •	• •	• •	651		1	
Ankylostomes	• •	• •	• •	230			
Strongyloides	• •	• •	• •	163			
Trichuris	• •	• •	• •	79			
Ent. Histolytica (am	ioeba)		• •	71	2		
Ent. Histolytica (d	cysts)	• •		2			
Giardia .				3			
Trichomonas		• •	• •	36			
Sch. Mansoni			• •	2			
Blood	••	••	••	101			
Pus	• •	• •	• •	540			
Balantidium coli	• •	• •	• •	J40 1	10		
	• •	• •	••	10			
Oxyuris	• •	• •	• •	12			
Mucus	• •	• •	• •		14		
Benzidine test	• •	• •	• •	22	22		
Occult blood	• •	• •	• •	32	2		
Charcot crystals	• •	• •	• •	2			
URINE							1 171
ORINE	• •	• •	• •	•••	• •	• •	4,471
				African		eans	
Total Attendances	• •		• •	4,417	54		
Albumen	• •		• •	2,180			
Sugar	• •	• •	• •	195			
Acetone		•••		28			
Casts	•••	• •	• •	156			
Trichomonas	• •	• •	• •	70			
Sch. Haematobiu	••	• •	• •				
Pus		• •	• •	30			
	• •	• •	• •	1,261			
Blood	• •	• •	• •	172	2		
Oxyhaemoglobin	• •		• •	1			
Strongyloides	• •		• •	1			
Benzidine test	• •	• •	• •	2			
VENEREAL DISEASES							. 482
Total attenda	noo	• •	• •		••	• •	• 404
i otar attenua	nce	• •	• •	463	19		

				Africans	Europ	eans		
Urethral smear		• •		327	11			
Gonococci	• •	• •	• •	54	3			
Vaginal smear Gonococci	• •	• •	• •	58	3			
Trichomonas	• •	• •	• •	1 9				
Eye Smear		• •		8				
Gonococci	0 0	• •	• •					
D. G. I.	• •	• •	• •	5	2.			
T. Pallidum BATERIOLOGY (General)	• •	• •	• •				1	451
FAECES		••	••	÷ •	• •	* *		,451 765
Salm. typhi			•••	2	• •	• •	• •	105
Sh. Flexneri W	• •	• •	• •	24				
,, ,, 103	• •	• •	• •	9				
,, ,, Z ,, VZ	••	• •	* •	16 1				
V	•••	• •	••	4				
", Shigae			•••	1				
,, Sonnei	• •	• •	• •	7				
" Schmitzi	• •	• •	••	11				
S. typhi O S. typhi xi	• •	• •	• •	2 3				
Newcastle	• •	•••	• •	2				
URINE		• •	••				• •	287
B. Coli	• •		• •	80				
B. proteus	• •	• •	• •	1				
Staph albus S. Pyocyaneus	• •	• •	• •	30 1				
BLOOD	• •	• •	••					55
Salm. typhi	•••	••	•••	3	• •	• •	• •	55
Y. Streptococci	• •	• •	• •	1				
B. Coli	• •	• •	• •	1				
C.S. F B. Coli	• •	• •	• •	4	• •	• •	• •	25
Pus	• •	••	•••					44
S. Pyogenes	••	• •	•••	3	• •	• •	• •	44
S. aureus	• •		• •	3				
B. Coli	• •	• •	••	1				
S. alleus Eye Swab	• •	• •	• •	1				14
S. Albus	••	••	••	5	• •	• •	• •	14
B. Coli	••	•••	••	1				
S. Saprophyticus	• •	• •	• •	1				
Gonococci	• •	• •	• •	1				
S. aureus B. Citrus	••	• •	• •					
THROAT SWAB	••	•••	•••	1				24
S. Saprophyticus	• •	••	•••	2	••	••	• •	44
S. aureus	• •	• •	• •	1				
Streps Haemolytic	• •	• •	• •	1				
Diphtheria NASAL ŚWAB	• •	• •	• •	2				2
B. Coli	••	•••	•••	2	• •	• •	• •	2
CERVICAL SWAB	• •	• •	• •	• •	• •	• •		5
Staph. albus	• •	• •	• •	2				
Staph. pyogens	• •	• •	• •	1				
B. Coli Sputum	• •	• •	• •	1				10
N. Catarrhates	• •	• •	••	2	• •	• •	• •	16
A. F. B	••	••	••	2 1				
B. Coli	• •	• •	••	2				
S. Haemolytic	• •	• •	• •	1				
STERILITY TESTS	• •	• •	• •	• •	• •	• •	• •	21
VAGINAL SWAB	• •	• •	• •	•••	• •		• •	30
S. albus B. Coli	• •	• •	• •	8				
S. Pyogenes	• •	• •	••	6 1				
S. Haemolytic	•••	•••	•••	1				
					•			

				4			
Trichomonas		••		1			
B. proteus	• •	• •	• •	1			-,
BLOOD CLOT	• •	* •	• •	• •	•• ••		25
PLEURAL FLUID	• •	• •	• •	2	•• ••		20
S. Saprophyticu		• •		ĩ			
A. Aureus S. Albus	• •	••	••	1			
S. Albus Tongue Swab	••	••	••	• • •			
KNEE FLUID	••	•••	•••	••		• •	3
SINUS SWAB		••	• •	••			3 1 7 6
ULCER SWAB		• •	• •			• •	7
URETHRAL FLUID	• •	• •	• •	* •		• •	6
ABDOMINAL FLUID		• •	• •	• •	•• ••	••	1
LUMBAR PUNCTURE	• •	• •		• x	•• ••	• •	
INTESTINAL SWAB		• •		• •	• • • •	• •	
EAR SWAB	• •	• •	• •	• •	•• ••	<u>ه</u> ه	4
STOMACH CONTENTS	• •	• •		• •	•• ••	••	
VARIOUS	• •	• •	• •	• •	•• ••	• •	90
C. S. F. (Kahn)	• •	• •	• •	• •	• • • •	• •	26
				Europeans	Africans		
				Nil	26		
	Positive			Nil	Nil		
C. S. F. (Organisms)	• •	• •	• •	• •	• • • •	• •	27
				Africans	Europeans		
				27			
MISCELLANEOUS	• •	• •		• •	•• ••	• •	902
Nasal swab and	l skin scrapi	ng—Ar	ican	44			
		Euro	opeans	6			
Blood grouping		• •	÷ •	362			
Gland puncture	•••	• •	• •	4			
Sperm Count	• •	• •	• •	105			
Stomach Conte	nts	• •	• •	6			
C.S.F	• •	• •	• •	58			
General	• •	• •	5 0	317			705
BIOCHEMISTRY	•••	• •	• •	• •	··· ··	••	785
BIOCHEMISTRY				 A <u>f</u> ricans	Europeans	 Asiatic	
BIOCHEMISTRY Blood Urea				Africans 206			
BIOCHEMISTRY Blood Urea Paul Bunnell	•••	• •	• •	 Africans 206 1	Europeans 4 —		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar	•••	•••	•••	 Africans 206 1 104	Europeans 4 —		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran	 ICE	••• •• ••	••• ••• •••	<i>Africans</i> 206 1 104 30	Europeans		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis	 ICE	· · · · · · ·	••• ••• •••	<i>Africans</i> 206 1 104 30 4	Europeans 4 —		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine	· · · · · ice · ·	• • • • • • • •	· · · · · · · · ·	 Africans 206 1 104 30 4 9	Europeans 4 6 2 		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium	· · · · · ice · ·	· · · · · · ·	· · · · · · · · ·	Africans 206 1 104 30 4 9 26	Europeans 4 6 2 		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function	 ice 3 tests	 . .<	· · · · · · · · · · ·	Africans 206 1 104 30 4 9 26 124	Europeans 4 6 2 		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate	 Ice S tests	• • • • • • • •	· · · · · · · · ·	Africans 206 1 104 30 4 9 26	Europeans 4 6 2 		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F	 tests hates	 . .<	· · · · · · · · · · · · ·	Africans 206 1 104 30 4 9 26 124	Europeans 4 6 2 3 25 1		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester	 ice s tests s hates	 . .<	· · · · · · · · · · · · · · ·	Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 6 2 3 25 1		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins	 ice s tests s hates	 . .<	 . .<	Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various	 ice s tests s hates	 . .<	· · · · · · · · · · · · · · · · · · ·	Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 6 2 3 25 1		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY	tests	 . .<		Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various	tests	 . .<		Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6		
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens weights 	tests hates rol ere received	 . .<		Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens w EXAMINATION FOR R Dog Brains	tests hates rol ere received	 . .<		Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens w EXAMINATION FOR R Dog Brains Cat Brains	tests hates rol ere received	 . .<		Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6 1		
BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens w EXAMINATION FOR R Dog Brains Cat Brains	ice ice tests tests hates rol ere received ABIES	 . .<		Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose tolerand Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phospic C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens weight EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, 	tests hates rol and bates	 . .<		Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose tolerand Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phospic C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens weight EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical 	tests hates rol ere received ABIES	 . .<		Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens w EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical Endometriial C 	tests hates rol ere received ABIES Medical urrettings	 	 and	Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens w EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical Endometriial C Biopsy Specime 	tests hates rol ere received ABIES Medical urrettings	 	 and 	Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		° ,
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleram Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phospic C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens weight EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical Endometriial C Biopsy Specime Postmortem Examine 	tests hates rol ere received ABIES Medical urrettings	 	 and 	Africans 206 1 104 30 4 9 26 124 8 67 13 29 113 12 (1 1 3 (Al 47 21 13 	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose tolerand Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phospic C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens weight EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical Endometriial C Biopsy Specime POSTMORTEM EXAMINE 	tests hates rol ere received ABIES Medical urrettings ns NATION	 	 	Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		° ,
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens w EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical Endometriial C Biopsy Specime POSTMORTEM EXAMIN Clinical Coroner's 	tests hates rol ere received ABIES Medical urrettings ns	 	 	$\begin{array}{c} \\ Africans \\ 206 \\ 1 \\ 104 \\ 30 \\ 4 \\ 9 \\ 26 \\ 124 \\ 8 \\ \hline 67 \\ 13 \\ 29 \\ 113 \\ \end{array}$	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		° ,
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleram Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phospic C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens weight EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical Endometriial Comparison Biopsy Specime POSTMORTEM EXAMINIC Coroner's H. M. Prisons 	tests hates rol ere received ABIES Medical urrettings ns NATION	 	 	Africans 206 1 104 30 4 9 26 124 8 67 13 29 113 12 (1 1 3 (A) 47 21 13 60 138 8	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		° ,
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens we EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical Endometriial C Biopsy Specime POSTMORTEM EXAMIN Clinical Coroner's H. M. Prisons Kissy Mental Hos 	tests hates rol ere received ABIES Medical urrettings ns NATION spital	- Legal	 	$\begin{array}{c} \\ Africans \\ 206 \\ 1 \\ 104 \\ 30 \\ 4 \\ 9 \\ 26 \\ 124 \\ 8 \\ \hline 67 \\ 13 \\ 29 \\ 113 \\ \end{array}$	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		° ,
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens w EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical Endometriial C Biopsy Specime POSTMORTEM EXAMIN Clinical Coroner's H. M. Prisons Kissy Mental Hot Approved School 	tests hates rol Medical Medical urrettings ns NATION	 	 	Africans 206 1 104 30 4 9 26 124 8 	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		° ,
 BIOCHEMISTRY Blood Urea Paul Bunnell Blood sugar Glucose toleran Gastric analysis Urine Blood calcium Liver Function Acid phosphate Alkaline Phosp C.S.F Blood Cholester Plasma proteins Various HISTOLOGY 96 Specimens we EXAMINATION FOR R Dog Brains Cat Brains GENERAL Postmortems, Surgical Endometriial C Biopsy Specime POSTMORTEM EXAMIN Clinical Coroner's H. M. Prisons Kissy Mental Hos 	tests hates rol Medical Medical urrettings ns NATION	 	 	Africans 206 1 104 30 4 9 26 124 8 67 13 29 113 12 (1 1 3 (A) 47 21 13 60 138 8	Europeans 4 -6 2 -3 25 1 -2 6 1 Positive)		° ,

CAUSES OF DEATHS:							
CAUSES OF DEATHS.— CENTRAL NERVOUS SYSTEM							20
Subarachnoid haemorrhage	• •	•••		• •	• •		
Cerebral haemorrhage			10				
Cerebral thrombosis	• •		1				
T.B.Meningitis	• •	• •	1				
Meningococcal meningitis	• •	• •	1				
Encephalitis	• •	• •	$\frac{2}{2}$,		
Celebral malaria Neurofibroma cervical cord	• •	• •					
Syphilis (G.P.I)		• •	1				
CARDIO-VASCULAR SYSTEM		• •				• •	30
Hypertensive cardiac failure		• •	6				
Myocardial degeneration	• •	• •	8				
Congenital heart disease	• •	• •	2				
Syphilitic aortitis	• •	» •	1 5				
Rupture of aortic aneurysm Aortic stenosis		• •	2				
Aortic incompetence	••	••	1				
Coronary artery disease			3				
Coronary thrombosis	• •		1				
Chronic pericarditis	• •	• •	1				
RESPIRATORY SYSTEM	• •	• •		• •		• •	21
Pulmonaryabscess	• •	• •					
Pneumonia	• •	• •	8 2				
Broncho pneumonia Pulmonary tuberculosis	• •	• •	$\frac{2}{6}$				
Tuberculus broncho pneumo	nia	•••	Ĭ				
Miliary tuberculosis			1				
Emphysema & Chronic bron	chitis	• •	1				
Empyema	••	• •	1				
ALIMENTARY SYSTEM	• •	• •	2	• •	• •	• •	15
Primary carcimona of the live	er	• •	3				
Perforated gastric ulcer Cirrhosis	• •	• •	1				
Congenital obstruction to bi	iarv tract	• •	1				
Pyloric stenosis			1				
Intestinal obstruction	• •		2				
Intussusception	• •	• •	1				
Volvulus pelvic colon	• •	• •	1				
Volvulus small intestine	• •	• •	1				
Peritonitis Adenocarcinoma of colon	• •	• •	1				
Reproductive System	• •	• •	1				6
Salpingitis	•••	• •	1			•••	
Ruptured ectopic		• •	2				
Septic abortion	• •	• •	1				
Antepartum haemorrhage	• •	• •	1				
Eclampsia	• •	• •	1				5
Renal Pyelitis	• •	• •		• •	• •	• •	5
Hypernephroma	••	••	1				
Pyelonephritis	••		1				
Pyonephrosis	• •	• •	1				
Prostatic obstruction	• •	• •	1				2.0
Specific Infectious Parasites		• •	•••	• •	• •	• •	32
Amoebic dysentery	• •	• •	7 6				
Amoebic abscess Malaria	• •	• •	6				
Malaria Typhoid	•••		6				
Ancylostomiasis	• •	• •	3				
Tetanus	• •	• •	2 2				
Bacillary dysentery	• •	• •	2			•	10
GENERAL	• •		••• •	• •	• •	• •	13
Septicaemia	• •	• •	2				
Acute enteritis Acute infantile eczema	• •	• •	1				
Malnutrition	• •	• •	6				
Diabetes	• •	• •	1				

Hypoglycaemic coma	• •	• •	1		
Neuroblastoma of adrenal	• •	• •	1		
TRAUMATIC AND ACCIDENTAL					56
Fracture of pelvis			5		
Fracture of spine			2		
Fracture of skull	••	••	8		
	• •	• •	2 8 2		
Extradural haematoma	••	• •	1		
Laceration of brain	• •	• •			
Burning	• •	• •	4		
Multiple injuries	• •	• •	15		
Haemorrhage from lacerations		• •	2		
Crushing of thorax		• •	1		
Drowning			9		
Electrocution			Ĩ		
	••	••	1		
Cut Throat	• •	• •	1		
Suspected poisoning	• •	• •	1		
Fish bones in Larynx	• •	• •	1		
Inhalation of vomit	• •	• •	1		
Inhalation of water	• •	• •	2		
WIDAL REACTION		••			312
			Africans	Europeans	
A activitian over 1:20			287	25	
Agglutination over 1:20	• •	• •	82	18	
S. Typhi H	• •	• •		10	
S. Typhi O	• •		19	2	
S. para typhi A	• •	• •	15	9	
", ", B	• •	• •	13	11	
С	• •				
S. Enteritidis			10	1	
C Crown			7	12	
D. Proteus x 19 \ldots	* •	• •			
	• •	• •	2 2	2 1	
B. ,, x2	• •	• •	7	T	
S. Typhi Vi	• •	• •			10.074
Haematology	N •			• • • • •	10,274
			Africans	Europeans	
			4 11 11 4	25	1 506
Red cell count			1.221	(1) = 1	1.380
Red cell count	• •	• •	1,551	35 = 176 =	1,586
Haemoglobin	• •	• •	2,915	176 =	3,091
Haemoglobin Cell Volume		•••	2,915 2,910	$ \begin{array}{rcl} 176 &= \\ 156 &= \\ \end{array} $	3,091 3,066
Haemoglobin Cell Volume White cell count	• •	• •	2,915	176 =	3,091
Haemoglobin Cell Volume	• •	•••	2,915 2,910 2,377	176 = 156 = 154 =	3,091 3,066 2,531
Haemoglobin Cell Volume White cell count HAEMOGLOBIN	• •	•••	2,915 2,910 2,377 over 12 gm. 10	$ \begin{array}{rcrr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 gm. \ 7-10 g \end{array} $	3,091 3,066 2,531 m. under 7 gm.
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male	• •	•••	2,915 2,910 2,377 over 12 gm. 10 464	$ \begin{array}{rcrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	3,091 3,066 2,531 m. under 7 gm. 40
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male	•••	 0	2,915 2,910 2,377 over 12 gm. 10	$ \begin{array}{rcrr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 gm. \ 7-10 g \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female	••• •• ••	··· ··· ···	2,915 2,910 2,377 <i>over</i> 12 gm. 10 464 353	$ \begin{array}{rcrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	3,091 3,066 2,531 m. under 7 gm. 40 91
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity	••• ••• •••	··· ··· ··· ···	2,915 2,910 2,377 <i>over</i> 12 gm. 10 464 353 105	$ \begin{array}{rcrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male	••• ••• •••	··· ··· ··· ···	2,915 2,910 2,377 <i>over</i> 12 gm. 10 464 353 105 80	$ \begin{array}{rcrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female	· · · · · ·	··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53	$ \begin{array}{rcrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	3,091 3,066 2,531 <i>m. under 7 gm.</i> 40 91 63 —
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male	••• ••• •••	··· ··· ··· ···	2,915 2,910 2,377 <i>over</i> 12 gm. 10 464 353 105 80 53	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 gm. & 7-10 g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male " Female Maternity European Male " Female WATER EXAMINATION	· · · · · ·	··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total	$ \begin{array}{rcrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown	· · · · · ·	··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 gm. & 7-10 g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station	· · · · · · · · ·	··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 gm. & 7-10 g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy	· · · · · · · · · · · ·	··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63 10	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 gm. & 7-10 g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station	· · · · · ·	··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy	· · · · · ·	··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63 10	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 gm. & 7-10 g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
HaemoglobinCell VolumeWhite cell countHAEMOGLOBINAfrican Male,, FemaleMaternityEuropean Male,, FemaleWATER EXAMINATIONFreetownHill StationKissyLungiOthers	 . .<	··· ··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
HaemoglobinCell VolumeWhite cell countHAEMOGLOBINAfrican Male,, FemaleMaternityEuropean Male,, FemaleWATER EXAMINATIONFreetownHill StationKissyLungiOthers	· · · · · ·	··· ··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC	 . .<	··· ··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 gm. & 7-10 g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & \\ & \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED	 	··· ··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63 191 rry 133
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED 1. Cloth, clothing, etc.	 	··· ··· ··· ··· ···	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18 HIBITS 	$ \begin{array}{rcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 gm. & 7-10 g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & \\ & \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED 1. Cloth, clothing, etc. Seminal stains found in	 	 L EXH	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 <i>Total</i> 81 63 10 19 18 HIBITS 1	$ \begin{array}{rcrcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & - \\ & - \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63 191 rry 133
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED 1. Cloth, clothing, etc. Seminal stains found in Blood stains found in	 	 L EXH	2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18 HIBITS 1 29	$ \begin{array}{rcrcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & - \\ & - \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63 191 rry 133
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED 1. Cloth, clothing, etc. Seminal stains found in Blood stains found in 2. Blood stains on broken	 	 L EXH	2,915 2,910 2,377 ever 12 gm. 16 464 353 105 80 53 Total 81 63 10 19 18 HIBITS 1 29 1	$ \begin{array}{rcrcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & - \\ & - \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63 191 rry 133
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED 1. Cloth, clothing, etc. Seminal stains found in Blood stains found in 2. Blood stains on broken	 		2,915 2,910 2,377 over 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18 HIBITS 1 29	$ \begin{array}{rcrcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & - \\ & - \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63 191 rry 133
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED 1. Cloth, clothing, etc. Seminal stains found in Blood stains on broken 3. Knives, matchets, chisel	 	 L EXH	2,915 2,910 2,377 ever 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18 HIBITS 1 29 1 11	$ \begin{array}{rcrcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & - \\ & - \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63 191 rry 133
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Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male , Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED 1. Cloth, clothing, etc. Seminal stains found in Blood stains found in 2. Blood stains on broken 3. Knives, matchets, chisel Blood stains found on In the above exhibits	CO-LEGA		2,915 2,910 2,377 ever 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18 HIBITS 1 29 1 11 2	$ \begin{array}{rcrcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & - \\ & - \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63 191 rry 133
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Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male ,, Female WATER EXAMINATION Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED 1. Cloth, clothing, etc. Seminal stains found in Blood stains on broken 3. Knives, matchets, chisel Blood stains found on In the above exhibits group was determined i 4. Swabs, smears Gonococci present Spermatozoa present 5. Blood alcohol was deter	CO-LEGA glass s, etc. the blood n		2,915 2,910 2,377 ever 12 gm. 10 464 353 105 80 53 Total 81 63 10 19 18 HIBITS 1 29 1 11 2 17 28	$ \begin{array}{rcrcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & - \\ & - \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63 191 rry 133
Haemoglobin Cell Volume White cell count HAEMOGLOBIN African Male ,, Female Maternity European Male , Female Freetown Hill Station Kissy Lungi Others MEDIC TOTAL EXHIBITS EXAMINED 1. Cloth, clothing, etc. Seminal stains found in Blood stains found in 2. Blood stains on broken 3. Knives, matchets, chisel Blood stains found on In the above exhibits group was determined i 4. Swabs, smears Gonococci present Spermatozoa present	CO-LEGA glass s, etc. the blood n		2,915 2,910 2,377 ever 12 gm. 10 464 353 105 80 53 $\cdot \cdot$ <i>Total</i> 81 63 10 19 18 HIBITS $\cdot \cdot$ 1 29 1 11 29 1 1 29 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 29 1 1 1 1	$ \begin{array}{rcrcrcr} 176 &= \\ 156 &= \\ 154 &= \\ 0-12 \ gm. \ 7-10 \ g \\ 491 & 249 \\ 384 & 210 \\ 195 & 270 \\ 5 & 4 \\ 24 & 10 \\ \cdots & \cdots \\ Unsatisfacto \\ \hline & - \\ & - \\ & 2 \\ \end{array} $	3,091 3,066 2,531 m. under 7 gm. 40 91 63 191 rry 133

VETERINARY Rats Fleas	3,829 20			•••		R. nove X braz	ngicus ziliensis	1,056 4					
YELLOW FEVER INNOC	CULATIONS	• •	••	••	•••	• •	• •	2,293					
SUMMARY OF THE VARIOUS TESTS UNDERTAKEN IN THE LABORATORY DURING THE YEAR 1950													
Pland films for malari								Total					
Blood films for malari		• •	• •	• •	• •	• •	• •	13,138					
Blood Sedimentation		••		• •	• •	· • •	• •	2,083					
General Haematology			iprising)	• •	• •	• •	• •	10,274					
Faeces (microscopy) Urine examination	••	• •	• •	• •	• •	• •	• •	6,995					
	•••	••	• •	• •	• •	• •	• •	4,471					
Sputum for tuberculos	SIS	• •	• •	• •	• •	• •	• •	1,838					
Bacteriology (General		• •	• •	• •	• •	• •	• •	1,451					
Bacteriology (Venerea Khan tests	Disease.)	••	• •	• •	• •	• •	• •	482					
Laughlen tests	• •	• •	• •	• •	• •	• •	• •	8,238					
Biochemistry	• •	• •	• •	• •	• •	• •	• •	8,353					
Tratalogue	• •	• •	• •	• •	• •	• •	• •	785					
Desturents	• •	• •	• •	• •	• •	• •	• •	96					
	• •	• •	• •	• •	• •	• •	• •	198					
Medico-Legal Miscellaneous	• •	• •	• •	• •	• •	• •	• •	133					
Widal Reaction	• •	• •	• •	• •	• •	• •	• •	902					
	• •	• •	• •	• •	• •	• •	• •	312					
Water examination	• •	••	• •	• •	• •	• •	• •	191					
	(GRANI	D TOT.	AL	• •	• •	•••	59,940					
TOTAL NUMBER OF SPECIMENS EXAMINED IN BO LABORATORY-1956													
	Laughlen te	est	• •	• •	5,000								
	Blood films		• •	• •	5,461								
	Urine	•	• •	• •	3,999								
	Blood coun	it	• •	• •	3,890								
	Sputum	•	• •		688								
	Venereal D	iseases	• •	* *	78								
	Miscellane	ous	• •	• •	2,300								

J-EX-RAY UNIT

21,416

X-Ray units are available at the Connaught Hospital, Freetown, and at Bo Hospital and both are in charge of a Radiographer. The following table records the number of examinations:—

	FREETOWN								
	1952	1953	1954	1955	1956				
Total patients examined	6,186	5,876	5,795	6,228	8,580				
Radiographic examinations Fluoroscopic examinations	11,616 673	8,321 574		12,979 762	14,189 921				
Total Radiological examinations	12,289	8,895	*	13,741	15,110				

In Bo 2,222 patients were examined during the year compared with 1,503 in 1955. *Figures for 1954 are not available.

OPERATING THEATRE-CONNAUGHT HOSPITAL

The following table records the number of major and minor operations performed in the Connaught Hospital Operating Theatre during the past five years:—

				Total	Cured	Relieved	Unrelieved	Died
1952		• •	• •	4,053	2,211	1,789	33	20
1953	• •	* •	• •	1,836	713	1,093	10	20
1954		• •	• •	3,836	2,335	1,465	10	26
1955				3,796	1,756	1,976	24	40
1956		* *		4,004	1,979	1,950	53	22

FREETOWN PORT

Seven hundred and twenty ships were boarded during the course of the year of which 442 received radio pratique. 7,201 vaccinations were performed at the Port Health Office.

As a result of the outbreak of smallpox the Port was declared infected under the International Sanitary Regulations in August, 1956 and remained so until the end of the year.

In view of the increasing numbers of ships from the far East which had to use the Port as a result of the Suez crisis the regulation requiring the use of rat guards on mooring ropes was rigidly enforced. Other routine anti-plague measures including the trapping of rats were carried out.

FREETOWN AIRPORT-LUNGI

Seven hundred and thirty-six aircraft visited and were sprayed with insecticides.

Nine cases of smallpox occurred outside the perimeter fence during the year. The airport was declared an infected Airport under the International Sanitary Regulations in August and remained so for the rest of the year. 6,924 people were vaccinated against smallpox in and around the Airport during the year.

L-DENTAL SERVICE

The figures given for treatment in Freetown are:-

					Patient	Fillings	Extractions	Other Treatment
1951	• •			• •	9,399	1,548	7,865	140
1952	• •	• •		• •	10,909	2,372	8,377	1,066
1953			• •	• •	7,789	1,192	6,120	389
1954	• •	• •	• •	• •	6,134	702	5,878	731
1955	• •	• •	• •	••	8,574	1,219	5,031	2,324
1956	• •	• •	• •	• •	9,783	1,186	8,044	971

The figures for treatment given in Bo are:---

1,775

Patients Fillings

Extractions Other

1,555

Treatment

M-LIST OF DISPENSARIES AND HEALTH CENTRES

200

All dispensaries and health centres not attached to a hospital are listed here though in the Colony there still has not been a complete handing over in some cases:—

LIST OF DISPENSARIES AND HEALTH CENTRES

		JT	DISLENSHU	LED.	AND	NEA		LENIKES
Area			Place					Type of Unit
Colony	• •		Regent			• •	• •	Dispensary
9.9	• •	• •	Kent	• •		• •	• •	,,
9.9	• •	• •	York	• •		• •	• •	
9.9	• •	• •	Waterloo	• •		• •		
9 9	* •	• •	Songo	• •		• •	• •	Lock-up
9.9	• •	• •	Hastings	• •			• •	Dispensary
9 9	• •	• •	Newton	• •		• •	• •	Lock-up
	• •	• •	Kissy	• •		• •	• •	Dispensary
9 9	• •	• •	Wellington			• •	• •	Lock-up
3.9	+ s	• •	Bananas	• •		• •	• •	99 ,.
3.9	• •	• •	Hamilton	• •		• •	• •	(* 99
9.9	• •	• •	Goderich	÷		• •	• •	. · · · · · · · · · · · · · · · · · · ·
59	• •	• •	Russell	• •		••	• •	39
South-we	stern Province	•	Bauya	• •		• •	• •	Dispensary
9.9	99	• •	Mabang			• •	• •	
9.9			Mano	• •		• •		Health Centre
>>	99	• •	Koribundu	• •		••	• •	> >
9.9		• •	Sembehun	• •		• •	• •	22
.93	99		Sulima			• •		Dispensary

LIST OF DISPENSARIES AND HEALTH CENTRES—continued Area Place Type of Unite

South-we	stern Province	е— <i>с</i>	ontinned				• • •
5 5	,,	• •	Sumbuya		• •		Health Centre
,,,	3.3		Gbap				Dispensary
,,	,,	• •	York Island		• •	• •	
,,	,,		Zimi	• •	• •	• •	Health Centre
,,	,,	• •	Madina	• •			>>
> > >	"	• •	Shenge	• •	• •	• •	33
South-eas	stern Province	• •	Blama	• •	* •	• •	Dispensary
> >	3 9	• •	Pendembu	• •	• •	• •	Health Centre
5.5	,,	• •	Daru	• •	• •	• •	>>
2.5	,,	• •	Koidu	• •	• •	• •	Dispensary
35 D.T. (1	· · ·	• •	Kaiyima	• •	• •	• •	Health Centre
Northern	Province	• •	Magburaka	• •	• •	• •	Dispensary
3 3	,,	• •	Yonnibana	• •	• •	• •	Health Centre
	> >	• •	Kambia	• •	• •	• •	»» »
> >	3.5	••	Batkanu	• •	• •	• •	Dispensary
• •	> >	• •	Lunsar	• •	• •	• •	Health Centre
3 3	> >	• •	Falaba	• •	• •	• •	3 3
3 5	> >	• •	Yele	• •	• •	• •	5 3
3 3	• •	• •	Numea	• •	• •	• •	5 5
> >	,,	• •	Gbinti	• •	• •	• •	> >
3 9	>>	• •	Bumbuna	• •	• •	• •	,,
3.5	> >	• •	Makali	• •	• •	• •	>>
> >	>>	• •	Kychom	••	• •	• •	>>
	N—A	TTE	NDANCES AT]	DISP	ENSARIES A		
				_	_	Subsequ	
	Area			Ν	lew cases	Attendar	nces Attendances
	lony		•• ••		31,316	44,125	5 75,441
	uth-western Pr				49,434	79,910	
	uth-eastern Pro		ce		19,977	34,851	
No	orthern Provinc	ce	* * * * *		44,006	85,517	
	GRA	ND	TOTAL		144,733	244,403	389,136
				_			

4—PUBLIC HEALTH

A. VITAL STATISTICS

Report of Chief Registrar of Births and Deaths, Freetown and Colony.

Without a full and up-to-date census it is not possible to give accurate vital statistics of birth rates and death rates. Available vital statistics of births and deaths are given in Chapter I. Only a very small proportion of deaths are medically certified by qualified medical practitioners and therefore detailed satistics of mortality from the principal diseases cannot be given, but records of diseases and deaths in government hospitals indicate the most important observed causes of disease and mortality. Infant mortality in Freetown was 133 infant deaths per 1,000 live births, but out side Freetown were maternity services are still relatively undeveloped, infant mortality is believed to be much higher.

The registration of births and deaths which has been compulsory in the Colony for some years now is only compulsory in seven chiefdoms in the protectorate while 137 chiefdoms accept it on a voluntary basis. The registrations recorded in the Protectorate are therefore unreliable.

BIRTHS AND DEATHS REGISTERED IN FREETOWN AND THE COLONY, 1956

Freetown Rural Areas Bonthe (Sherbro)	•••	 <i>Male</i> 1,990 786 53	<i>Female</i> 1,933 846 54	<i>Total</i> 3,923 1,632 107
		2,829	2,833	5,662

		DEATHS			
Freetown Rural Areas Bonthe (Sherbro)	••	•••	Male 1,055 637 71	Female 849 635 63	<i>Total</i> 1,904 1,272 134
			1,763	1,547	3,310
BIRTHS, STILL-BIRTH	HS AND	Infant	Mortali	ty in Free	
			Male	Female	Total
Live Births			1,990	1,933	3,923
Still-Births			137	107	244

	• •	1,770	1,500	
Still-Births		137	107	244
Dun Du 1 1	• •	206	234	520
Deaths under 1 year of age	• •	286	234	520

INFANT MORTALITY RATE

Deaths under one year per 1,000 live births)-132.55

still-birth rate, still birth per 1,000 births-62.1

Of the 520 deaths under one year of age 297 died in the first month of life, a rate af 85 per 1,000 live births.

FREET	own Infa	NT MORT	TALITY RA	TES FOR T	HE PAST N	NINE YEAR	S HAVE BE	EN
1948	1949	1950	1951	1952	1953	1954	1955	1956
159	158	148	119	143	110	110	124.9	132.55

Rural Areas-Colony

In the Rural Areas of the Colony the recorded registrations of births and infant deaths are: ---

		Male	Female	Total
Live Births	• •	786	846	1,632
Deaths under 12 months	• •	138	138	276

In Sherbro Judicial District, the recorded registrations of births and infant deaths are:---

		Male	Female	Total
Live Births		53	54	107
Deaths under 12 months		10	12	22
Infant Mortality Rate	205.6			

Infectious Diseases Notifications. **B**.

The following infectious diseases were notified during the year 1956:-

		Cases	Deaths
Cholera			
Plague			
Smallpox		946	. 19
Typhus Fever (Mu	rine)		
Yellow Fever			
Cerebro-Spinal Menigitis		26	8
Dysentery	• •	2,709	4
Influenza	• •		
Pneumonia	• •	1,023	17
Poliomyelitis	• •		
Relapsing Fever	• •		
Sleeping Sickness	• •	41	
Enteric Fever	••	53	3
Chicken Pox		494	

C. Vaccinations.

The following vaccinations were performed during the year:-

	Total
Smallpox	612,880
Yellow Fever	2,293

34

T. P. EDDY, Director.

36)																											
		S	ents	F.		3,444		0L	2	5			118	175	0	Ø						3		152		8,678	110	13,466
	NI	NON-EXPATRIATES	Out-Patients	M.		9,701		612		, 1	-1]	146	272	0	67]		9	c c * F	1,400	1	12,892	362	25,145 13,466
	JUIN	XPA		F.		20		17					2											ן ע		18		66
	EMAI	ION-E	Deaths	M.		49	-	18					5		-	T							2	CI		29		117
	ATS R	~	ents	F.		262	-	62	1	7]]	29	11	14	>						m	730	607		393	40	1,014
	ATIE		In-Patients	М.		475	"	40	'		T		48	13	. 17	11						9	300	1		489	7	1,405
	(EXCLUDING PATIENTS REMAINING IN 1955)	res		F.		38							-	—]		1		7	<u> </u>		14		67
	SS)	EXPATRIATES	Out-Patients	М.		65		1					'	-	4) (5	:	42	-	172
inued	LS (EXC) OF 1955)	EXPA		F.		1																						
-Continued	SPITAI		Deaths	M.		Ţ]											-	1				5
			ents	F.		11							√−−1 ₹	-			.				1		∝			9		27
APPENDIX]	GOVERNMENT HO HOSPITAL AT THE		In-Patients	М.		36		1							1 v	>					1		44	-		12	-	66
4	OVER OSPITA	1	1	1		•	• •	•••	•	• •	acute	•	•	•	•	•	• •	•	•	•	•	•	•	•••		•	•••	:
	AT G H					•	• •		•	•	poliomyelitis and	•	•	•	•		•••	•	•	•	:	•	rtian)		•	Schistosomiasis vasion (c hasmatchium)	soni)	•
		SES				rd					nyelit						\$						int ter		و	ot ma	man	
	TREATED	DISEASES			SUPS	Brought forward	• •	• •	•	alitis	olion	s	•	•	• •		yphu		shus	snud	yphus	ertiar	tan) aliens			orms o	al (S.	rd
		D			CAUSE GROUPS	ught f			U.	aceph	ute p	haliti			S		smic t	aurine	nic tyl	nic ty	fied t	nign t	(quar		J I J	fied for	testin	Carried forward
	PATIENTS				CAUSI	Bro	• •	•			of ac	encep	•	•	patiti		epide	u) snu	piden	bracu	speci	a (bei	nalari	ever		Speci	sis in	ried f
ł	L'A'I								X Onlion	nfecti	fects	ious	XC.	favar	us he		orne	c typł	rne e	a all le	un pu	alari	e ma. rum n	ater f	, ,	nd un somis	somia	Car
	CC					0.000	r iague Leprosy	Tetanus	Anthrax Acute Poliomvelitis	Acute infectious encephalitis	Late effects of acute	infectious encephalitis	Smallpox	Medastes Vellow fever	Infectious hepatitis	Rabies	Louse-borne epidemic typhus	endemic typhus (murine)	l ick-borne epidemic typhus	mile-outlie epidemic typnus	Other and unspecified typhus	Vivax malaria (benign tertian)	Falciparum malaria (quartan)	Blackwater fever	1000	Other and unspecified forms of malaria Schistosomissis vasion for hearing to him	Schistosomiasis intestinal (S. mansoni)	
6 6	KEIUKN		p			Ŕ		Ĕ	X 4	ŠĂ.		7	52	ΣÞ	In	R		ne en				52	ΞĤ	• •)v	Ň	
l L	L I X		Detailed	List No.		0	00				1, 083			2 -	(0)	wete	100	a-boi		02 103	06-108			Y	s, 114,	-C		
				0.			090						084			760	z) <u>10(</u>	FIG	104	100	• •	z) 110		1		110,	<	
			Inter-	mediate List No.			25						31				en v	<u>(</u>)	03	<i>e</i>		37	<u>)</u>)	, <u>a</u> ,	3	3860	(q)	
						*	< <		4		Ą	•	4 4		A	A	A					A				V	f F	

																	3	^
			tients	F.	13,466		34	1		1	8	18	111	183	2,108		15,929	
	NI DI	ATES	Out-Patients	M.	25,145 13,466		118				34	56	175	163	1,958		27,649 1	
	REMAINING	NON-EXPATRIATES	ths	F.	99									. 1		1	66 27	
	REM	N-EX ₁	Deaths	M.	117								1		1	1		
	STNI	NO	ients	F.	1,014		5	1				0	17	13	29		1,081 118	
	PATIENTS		In-Patients	M.	1,405		5				7	12	16	16	24		1,485 1,(
	DNIG		ents	F.	67]			1						1	6		76 1,4	
	(EXCLUDING	TES	Out-Patients	M.	172			1		1			1	13	ю		189	
med.	6	TRIAT		Г.										1				
-continued.	PITAL OF	EXPATRIATES	Deaths	M.	7									1	1	1	2	
-I XIC	HOSI E ENI		ents	F.	27				1		l			1	1	1	28	
APPENDIX I	AT GOVERNMENT HOSPITALS HOSPITAL AT THE END OF 1		In-Patients	M.	66		1						1	∞	I	1	108	
A	/ERNI TAL A	Ì			•	•	•	•	•	•	•	•	•	•••	•	:	:	
	LIASOH				٠	nicum)	sis	•	•	٠	•	•	•	cestode	•			
					•	. japor	somias	•	•	٠	•	8	•	ther c	•		•	
	TREATED			OUPS	ard	nary (s	schisto	•	•	•	•	•	•) and c		ulosis)	ward	
		ASES		CAUSE GROUPS	Brought forward	pulmo	scified		•	•	ofti)			station)	•	acunci	Carried forward	
	PATIENTS	DISEASES		CAU	Brough	miasis	l unspe	isease	ciasis		(bancr	iasis	miasis	n (infes ions		ırm (dı	Carri	
						Schistosomiasis pulmonary (s. japonicum)	Other and unspecified schistosomiasis	Hydatid disease	Onchocerciasis	Loiasis	Filariasis (bancrofti)	Other filariasis	Ankylostomiasis	Tapeworm (infestation) and other cestode infestations	Ascariasis	Guinea worm (dracunculosis)		
	RN OF			iled t o.		Scl	Ot	Hy	On	Loi	Fils	Oth	An	Tar ii	Asc	Gui		
	RETURN			Detailed List No.		123.2	123.3	125	127				129	126	130.0	130.3		
	Ţ			Inter- mediate List No.		38(<i>c</i>)	<i>(p)</i>	39	40(<i>a</i>) 1	(q)	(c)	(p)	41	42(<i>a</i>) 1:	(b) 1	(c) 1:		
				Inter- media List 7		V		A	A				Y	K				

APPENDIX I-continued

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS (EXCLUDING PATIENTS REMAINING IN HOSPITAL AT THE END OF 1956)

DI	DISEASES					EXP.	EXPATRIATES	TES			NON	NON-EXPATRIATES	1TRIA	ITES	
				In-Pa	In-Patients	D	Deaths	Out-F	Out-Patients	1	In-Patients		Deaths	Out-1	Out-Patients
Inter- Detailed mediate List				M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	CAUSE	CAUSE GROUPS													
	Brought forward	forward		108	28	3		189	76 1	1,485 1,081	,081	118	66 2	27,649	15,929
A 42 (d) 124, 128, 130.1, 130.2	Other diseases due to helminths	ue to helmintins	•	-			1	4	7	9	7	li s		455	413
3 (a) 037	Lymphogranuloma venereum	ma venereurn	•			-		I		3	4	I		249	132
<i>(b)</i> 038	Granuloma inguinale, venereal	iinale, venereal	•		1				1	11	11			247	119
(c) 039	Other and unspe	Other and unspecified venereal diseases	lses	1	I			1	1	20	00	1	[477	250
(d) 049	Food poisoning	Food poisoning infection and intoxication	cation	-		-				4	4		1	7	7
<i>(e)</i> 071	Relapsing fever	•	•	ļ	I	1		1		I	1		-	1	1
(f) 072	Leptospirosis	icterohæmorrhagica		(Weil's											
	disease)	•••••••••••••••••••••••••••••••••••••••	•				1		-					1	I
(g) 073	Yaws	•	•		1		L	-	-	13	4			4,426	3,365
(h) 087	Chickenpox	•	•		~~~ {					6	6			158	53
<i>(i)</i> 090	Dengue	•••••••••••••••••••••••••••••••••••••••	•		I								1		1
(<i>j</i>) 095	Trachoma	•	•		I		1			*****				Ś	
(k) 096.7	Sandfly fever	•	•		t	1					1				ł
(<i>l</i>) 120	Leishmaniasis	•	5 •	I	I				1	1				1	
(m) 121 (a)	Trypanosomias	Trypanosomiasis gambiensis	•		I	ļ	1			1		I		-	
(q)	Trypanosomiasi	Trypanosomiasis rhodesiensis	•	I	I		1	1	-	I	I			I	1
(c)	Other and unsp	Other and unspecified trypanosomiasis	asis	I	I	1			I	б	1		1	ß	
		•													

<u>3</u>8

Out-Patients 66 33,674 20,275 2,370 1,635 355 311 1,750 1,026 2 4 4 2 68 38,153 23,260 Ľ. NON-EXPATRIATES M. RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS (EXCLUDING PATIENTS REMAINING IN Deaths Ŀ, M. 118 119 In-Patients F. 82 1,555 1,128 31 1 4 92 1,586 1,178 M. 21 1 Deaths Out-Patients 5 5 M. 195 14 222 F. EXPATRIATES HOSPITAL AT THE END OF 1955) M. 2 2 1 In-Patients 30 2 32 M. 109 2 4 117 All other diseases classified as infective and and Malignant neoplasm of trachea, and of bronchus Malignant neoplasm of intestine, except rectum Malignant neoplasm of buccal cavity • * Malignant neoplasm of œsophagus Malignant neoplasm of cervix uteri Malignant neoplasm of stomach Malignant neoplasm of rectum • Malignant neoplasm of larynx Malignant neoplasm of breast Carried forward DISEASES Brought forward CAUSE GROUPS Dermatophytosis parasitic and lung pharynx Scabies (*p*) 036, 054, 059, 063, 064, 070, 063, 064, 070, 074, 086, 088, 093, 093, 096, 1-096.6 096, 1-096.6 096.8, 096.9, 1222, 132-134, 136-138 Inter- Detailed 140-148 152, 153 162, 163 List No.(0) 135 150 A 43(n) 131 154 151 161 170 171 mediate List No. 44 45 46 47 48 49 50 51 52 **4 4 4 4 4** 4 4 4

APPENDIX I-continued

<u>3</u>9

		atients	F.	23,260	25	0		<i>LC</i>	ā		29	~ 0	50	(¢	23,379
Z		Out-Patients	M.	38,153	'	-	1	90)	ŝ	38	4 6	58 21	•	-	72 38,289
NING	TES	Deaths	F.	68 3	Ţ				-]	I	•]		72
REMAINING	ATRIA	D	M.	119				v	ן י			•		1	1	127
	NON-EXPATRIATES	tients	F.	1,178	12]	26		0 50			1,239
PATIENTS	ION	In-Patients	M.	1,586		-	Ţ	1	11	1	15		- 4	. 1		1,636
		utients	F.	92	7]	1]]				94
(EXCLUDING 1955		Out-Patients	M.	222		0			-		4] '	[7]		231
	ITES	Deaths	F.		1						1]	
PITAL VD OI	ATRIATES	Dea	M.	7]]]	7
r HOS HE EN	EXPA	ients	F.	32]						-]	32
IMEN AT TI		In-Patients	M.	117	1			7	-		 -		,		.	121
RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS HOSPITAL AT THE END OF	DISEASES	, , , , , , , , , , , , , , , , , , ,	- CAUSE GROUPS	Brought forward	Malignant neoplasm of other and unspeci- fied parts of uterus	Malignant neoplasm of prostate	Malignant neoplasm of bone and connective tissue	4, 3- Malignant neoplasm of all other and unspeci-	-199 fied sites	Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system	Benign neoplasms and neoplasms of unspeci- fied nature	Nontoxic goitre	Diabetes mellitus	Berlaera		Carried forward
RETURN			Detailed List No.		172-174	177 190, 191	196, 197	, 175, 176, 178- N	192-195,198 - 204		210-239	250, 251	260	(a) 280 (b) 281	(c) 282	
			Inter- mediate List No.		5 3	A 54 A 55		A 57 165	181, 58	A 59	A 60	A 61 250	A 63	40 40		

APPENDIX I-continued.

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APPENDIX 1-continued.

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS (EXCLUDING PATIENTS REMAINING IN

	tients	F.	23,379	467 52 87 85 85	56	. 6	5	474 29 113	25,772
	Out-Patients	M.	38,289 2	589 59 1,034 164	33	3	4	11,018 11,018 15 15 15 15 15 15 15 15 15 15 15 15 15	41,620 25
TES	Deaths	F.	72	S14C1				0.1-:11	113
ATRIA	De	M.	127	11210			Ţ		156
NON-EXPATRIATES	In-Patients	Ŀ.	1,239	86 89 89	9) · m	5.	000000 -	,504
NO	1	M.	,636	64 69 12 12	ξ	n'n	∾ .	232	,890 1
	Out-Patients	F.	94 1	4 4 - 4	17	. 1	1	- -0 4	158 1
	Out-1	M.	231	4 .w	~	. 5	1	1 14 26	306
1955 4 <i>TES</i>	Deaths	F.					.		
D OF 1955 PATRIATES	De	M.	7				ł		5
EX	In-Patients	н.	32	1 2	<u>_</u> 4	6			50
THE	$I_{m-P_{0}}$	M.	121	-	ŝ	41-	1	0 4 7	149
HOSPITAL AT DISEASES		CAUSE GROUPS	Brought forward	Other deficiency states Pernicious and other hyperchromic anaemias Iron deficiency anaemias (hypochromic) Other specified and unspecified anaemias Asthma	All other allergic disorders, endocrine, meta- bolic and blood disease	Fsychoses	Mental deficiency Vascular lesions affecting central nervous	system	Carried forward
	Inter- Dotailed	te o.		A $65(a)$ $283-286$ A $65(a)$ 290 (b) 291 (c) 292 293 A $66(a)$ 241 (b) 241	222	289, 294- 299. A 67 300-309 A (8 310-324, 326	A 69 325 A 70 320-334	71 72 73 74 75 77(a)	

I-continued
APPENDIX

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS (EXCLUDING PATIENTS REMAINING IN HOSPITAL AT THE FND OF 1955)

	DISEASES			EXPATRIATES	TRIATES	ES			NON-	NON-EXPATRIATES	TRIAI	ES	
	I	In-Patients	tients	De	Deaths	Out-P	Out-Patients	[-u]	In-Patients	Deaths	iths	Out-Patients	ients
	CAUSE GROUPS	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Brought forward	149	50	7	I	306	158 1,	1,890 1	,504	156	113 4	41,620 25,772	5,772
Oti	Otitis media and mastoiditis		-			11 33	13	ς α	۳			330 409	203 276
All	All other diseases and conditions of eye	I	1		ł	٢	9	23	6		1	637	341
All se	All other diseases of the nervous system sense organs	m and		I	İ	9	ŝ	39	24	1	7	587	371
Rhe	Rheumatic fever	ł	1		ł	1.	I	4	1	1	1	23	17
Chr	Chronic rheumatic heart disease		I		ł	I		Э	ŝ			19	18
Arte	Arteriosclerotic and degenerative heart disease Other diseases of heart	case 2	-			- 1		14 71	<u>9</u> 53	13	m 0	20 402	14 311
Hyr Hyr	Hypertension with heart disease Hypertension without mention of heart	7 -7	1 00			ω 4 0	د	13	6 18	kn m r	4 -	21 55	380
Dis Oth	Diseases of arteries	- 4				7 1		4 [04	4 4		370	131
Acu	Acute upper respiratory infections	22	9	1	I	131	56	35	34		7	1,605	946
Infl	Influenza		Ì	ł							1	14	18
Lob	Lobar Pneumonia	4	1	I	I	4	1	221	84	20	14	237	104
Bro	Bronchopneumonia Primary atypical, other and unspe	4 unspecified	2	1	t	4	7	127	115	24	30	179	136
đ	pneumonia	m	1		1	e		32	10	Э	1	57	33
	Carried forward	193	65	3		524	249	2,520	1,884	236	180	46,587 2	28,744

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APPENDIX I-continued

RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITALS (EXCLUDING PATIENTS REMAINING IN

HOSPITAL AT THE END OF 1955)

	Out-Patients	F.	28,744	423	1,536	061	11		100	1,286	171	753	CC7	- ~	22	0	4 (33	1 0.0	1 00	466	201	17	1		3,107		37,085
4 TES	Out-Po	M.	46,587	479	2,422	C17	23	1		1,998	1,080	408	34		106	201		166,1	010	710	578	540	43	2		4,069	Ì	59,795
4TRL	ths	F.	180 40	4				1					-1	1	1		*	-	7	0	v)	e	1		7		202
NON-EXPATRIATES	Deaths	М.	236]	4	4	1		1		m	1			-	- (4-	- 0	67	ų	G	×	>	4			4		302
NON.	In-Patients	F.	1,884	79	44	J	4	ł		15	0	ſ	4 4	J	-	- 0	01	CI	ĊĊ	67	3.4	5	11			84		2,226
I	In-P	M.	2,520	68	66 9	v) (1	n 0	I	(~	-	v	<u> </u>) v	л г	- 0	67	524		07	C L	1	22	2		93		3,479
	Out-Patients	F.	249 2,	17	4-			ł			l	v	C	r	11	- t	- •	-		1	10	2	1	Ţ		29		3363
ES	Out-P	М.	524	27	ი ი	7	s S		1	2	_	Y	Pr	14		01	77	8	c	ſ	1 2	0	2	100		75		735
EXPATRIATES	Deaths	F.		1				1			1			1			1			1			1					
XPA7	Dec	M.	3	ļ	1			1		1	1					1		1						1		Ţ		4
E	tients	F.	65	ŝ	2,			1			1	ſ	4	1	(71	- •	l	٣	-	ſ	4	1			9		93
	In-Patients	M.	193	2	2,		4			2	1	ſ	√ -	- 1	- 0	× (12	16	¢	n.	11	T	0	l m		19		288
DISEASES		CAUSE GROUPS	Brought forward	Acute bronchitis		Hypertrophy of tonsils and adenoids	Empyemia and abscess of fully	niosis		All other respiratory diseases	Dental caries	All other diseases of teeth and support-	ing structures	Ulcer of stomacn	Ulcer of auodenum	Gastritis and duodenitis	Appendicitis	Intestinal obstruction and hernia	Gastro-enteritis and colitis between 4		Castro-enterius and collius, ages 2	years and over	Circhosic of liver	-		Other diseases of digestive system	2	Carried forward
	De	List No. No.			93	94 7	A 96 519	67	(b)511-517,520-	(A 98(a)530	CCC-1CC(a)	00	661		·	A 102 550-553		104(c		1.1/2 (0)		105	106	A 107 536-539, 542.	580, 582, 583, 586, 587		

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APPENDIX I-continued. VMENT HOSPITALS (EXCLUDING PATIENTS REMAINING IN AT THE END OF 1955)	EXPATRIATES NON-EXPATRIATES	In-Patients Deaths Out-Patients In-Patients Deaths Out-Patients	M. F. M. F. M. F. M. F. M. F. M. F.	288 93 4 - 735 336 3,479 2,226 302 202 59,795 37 085	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10 14 23 30 107 112 10 2 1,646 2,269			303 139 4 – 766 412 3,716 2,894 313 219 61,907 42,575
APPENI RETURN OF PATIENTS TREATED AT GOVERNMENT HOSPITAL AT TH	DISEASES	Inter- Detailed	mediate List List No. No. CAUSE GROUPS	Brought forward	A 108 590 Acute nephritis A 109 591–594 Chronic, other and unspecified nephritis A 110 600 Infections of kidney A 111 602, 604 Calculi of urinary system A 112 610 Hyperplasia of prostate A 113 620, 621 Diseases of breast A 114(a) 613 Hydrocele (b) 634 Disorders of menstruation	505- 511, 512- 522-	A 115 640, 641 681, 682, Sepsis of pregnancy, childbirth and the puer- 684 perum A 117 642, 652, Toxaemias of pregnancy and the puerperium 685, 686 A 117 643 644	118	Carried forward

APPENDIX I-continued.

OF PATIENTS TREATED AT GOVERNMENT HOSPITALS (EXCLUDING PATIENTS REMAINING IN RETURN

		SOH	HOSPITAL AT) `	THEE	END OF	F 1955)	5)						
		DISEASES			EXP,	EXPATRIATES	TES			NC	NON-EXPATRIATES	PATR	IATES	
Inter- De	Detailed		In-Pa	In-Patients	Deaths		Out-Patients	tients	$In-P_0$	In-Patients	Deaths	ths	Out-Patients	tients
mediate List No.	List No.		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
ŗ		CAUSE GROUPS												
		Brought forward	303	139	4		766	412	3,716	2,894	313	219 6	61,907	42,575
A 119 651 A 120(a) 645-		Abortion with sepsis	1			I	1	1		48	1	1		11
	-680	673-680 Other complications of pregnancy, childbirth 683, 687-689 and the puerperium	1	4	ł	ŀ	1	0		604	1	74		205
(<i>b</i>)	007	Delivery without complications	-	7	1			2	- 2	2,597	1	4		955
171		Infections of skin and subcutaneous tissue	16	4			100	31	122	187	2	Ţ	1.507	1.054
A 122 726-	726-727 M	Arthritis and spondylitis Muscular rheumatism and rheumatism un-	2	3		ļ	19	5	54	23	ŝ		1,104	460
, ,	(becified	ŝ	Э	1		28	13	50	. 22	1		3.393	1.576
A 125 737,7	737,745-749 /	A) ()	1		-		1		25	6	1		448	89
176/21	5	detormitis	1			1	7		Ţ	_	ł		41	31
	714 716	Chronic ulcer of skin (including tropical ulcer)	4	1		1	10	1.	135	72	-	1		3.409
(c) 731-736,	-	731-736, $731-736$, $731-756$,	11	ŝ			71	45	63	33				1,282
		All other diseases of musculoskeletal system	-	•	1	1	7	1	4	4	1	•	354	162
A 128 754	Co Co C	Congenital malformations of circulatory	ļ		ļ	-		1		1	1	1	1	
A 129 750,7	750,752,753,	system	•	ļ		1		ŀ		-	1		3	4
755-	-759 All	All other congenital malformations					1		С	4		1	3	4
		Carried forward	343 1	157	4		666	519 4,1	73	6,498 3	318 2.	247 78	78,758 5	51,877

46																				
			tients	F.		51,877	S	7	38	19	4	1	17	7	1	. 872	118		2,499	55,459
	NI ĐNIN	ITES	Out-Patients	M.		78,758		1	30	7	Τ		30	З	15	821	179		4,765	84,610
	REMAINING	TRIA	hs.	F.		247		[-	****		7	ŀ		ŝ	I		٢	261
		NON-EXPATRIATES	Deaths	M.		318		I	3	1	I	[-		4	1			46	370
	PATIENTS	NON	ents	F.		6,498	e	7	6	e	1		12	7		47	205		426	7,208
			In-Patients	M.		4,173 6,	1		6	£	Ī	1	21	1	٢	42	54		668	4,978
	(EXCLUDING OF 1955)		tients	F.		519	1	Normal Society of the	[1	4	ľ	4	6		37	574
		(TES	Out-Patients	M.		666	1				-	I	-	3	Ī	13	41		120	1,176
continuea.	ALSEND	EXPATRIATES	Deaths	F.		1	1		Í	-	ŀ	ł				1	ł		ł	
-conti	HOSPITALS T THE ENI	EXP	Dec	M.		4	1				1		1			1	ł			5
-I XIC	<		tients	F.		157	I		1	Ļ	*	ł			1	4	ŝ		20	184
APPENDIX	/ERNMENT HOSPITAL		In-Patients	M.		343			I				1	8		11	21		56	434
AF	GOVERNMENT HOSPITAL		'	1		•	•	•	•	•	*	•	All other defined diseases of early infancy	Ill-defined diseases peculiar to early infancy and immaturity, unqualified	•	Pyrexia of unknown origin			•	
	AT G					•	•	is	Diarrhoea of newborn (under 4 weeks)	•	•	•	early	early	hosis	irther			All other ill-defined causes of morbidity	4 •
					Sd	•	•	Post-natal asphyxia and atelectasis	der 4	•	born	born	ses of	ar to fied	Senility without mention of psychosis	l for fi			of mo	
	PATIENTS TREATED				CAUSE GROUPS	•	•	nd ate	un) u	Ophthalmia neonatorum	of new	Haemolytic disease of newborn	disea	-defined diseases peculiar t and immaturity, unqualified	tion o	Pyrexia of unknown origin			auses	ward
	S TH	ASES			AUSE (rward	•	yxia a	wbor	natoi	ions c	ease o	fined	ases p ty, un	ment	nown			ned c	Carried forward
	IENT	DISEASES			C	sht for	ies	asph	of ne	ia nec	infect	ic dise	ner de	disea	ithout	unkr	JII, W		ll-defi	Carrie
	PAT	1				Brought forward	Birth injuries	-natal	rhoea	thalm	Other	molyt	All oth	efined d imn	lity w	xia of	care		ther i	-
	OF						Birth	Post	Diar	Oph	768 (Hae	72 A		Seni	Pyre	Ca	,	Allo	
	RETURN			Detailed List	NO.	- ,	760, 761	762	764	765	763,766-768 Other infections of newborn	770	769,771,772	773, 776	794	703	787-087		792, 795	
	R			ite	.ov					<i>L</i> (<i>q</i>)	(c)					7(a)				
			•	Inter- mediate	List No.		A 130	A 131	A 132(a)			A 133	A 134	A 135	A 136	A 137(a)				

			1	ts	F.		159	1,133	234	∞	257	57	102	192	16	158	
	hage		S	Out-Patients			261 84,610 55,459			11	9 2,257	6			9	7 59,458	
	N D		ATE	Out-H	M.		84,61	2,066	474	_	7,049	1,779	227	305	126	96,647	
	NIN		ATRI	hs	F.			S		1	-		. 1	-		268	
	REMAINING	0	NON-EXPATRIATES	Deaths	M.		370	7	-	Ì	9		1	7	5	388	
		S AND	NON	ients	F.		7,208	25	21	9	45	1	14	8	7	7,335	
	PATIENTS	POISONINGS		In-Patients	M.		4,978	62	56	10	244	33	28	43	45	5,499	
		POISO		ents	F.		574	4	2	ļ	27			e	1	615	
	(EXCLUDING 1955)		ES	Out-Patients	M.		1,176	16	8	Ţ	58	4	4	e	1	1,270	
	(EXC 1955)	ACCIDENTS, AUSE)	<i>FRIAT</i>		F.					Ţ	1		ł		1		
	ITALS O OF	OF AC L CAU	EXPATRIATES	Deaths	M.		Ś				Ì	1	1			9	
i r	HOSP E ENI	TION		ents	F.		184	0	1	1	7	1	[190	
	NT GOVERNMENT HOSPITALS HOSPITALS AT THE END OF	TE CLASSIFICATION OF ACCIE VIOLENC (EXTERNAL CAUSE)		In-Patients	M.		434	10	1	-	12	2	3	1	Binnetter	462	
	ERNN ALS A	CLASSI						•	•	•	•	•	on of	osive 	•	•	
	GOV	VE (VIC											osic	orr			
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	<.,	RNATU				Sd	•	•			•	nery	and expl	ibstance, c		•	
	<.,	ALTERNATI				Groups		lents		:	• • •	machinery	y fire and expl rial	hot substance, c radiation			
	TREATED A	DE.—ALTERNATI	ISES			AUSE GROUPS		e accidents		:	•	ed by machinery	sed by fire and expl e material	ed by hot substance, c n and radiation			
	TREATED A	" CODE.—ALTERNATI	DISEASES			CAUSE GROUPS		vehicle accidents		:	•	t caused by machinery	t caused by fire and expl ustible material	t caused by hot substance, c. steam and radiation			
	<.,	" E " CODE.—ALTERNATIVE CLASSIFICATION VIOLENC (EXTERN	DISEASES			CAUSE GROUPS	Brought forward	Aotor vehicle accidents		:	•	ccident caused by machinery	ccident caused by fire and expl combustible material	ccident caused by hot substance, c liquid, steam and radiation		Carried forward	
	OF PATIENTS TREATED A	" E " CODE.—ALTERNATI	DISEASES			CAUSE GROUPS		835 Motor vehicle accidents	Other transport accidents	Accidental poisoning	Accidental falls	Accident caused by machinery	Accident caused by fire and explosion of combustible material	Ac	Accident caused by firearm		
	OF PATIENTS TREATED A	" E " CODE.—ALTERNATI	DISEASES		etatea List No.	CAUSE GROUPS			Other transport accidents	Accidental poisoning	Accidental falls				Accident caused by firearm		
	PATIENTS TREATED A	" E " CODE.—ALTERNATI	DISEASES		à	CAUSE GROUPS		E810-E835	E800-E802, E840-E866 Other transport accidents	E870-E895 Accidental poisoning	E900-E904 Accidental falls	E912	E916	E917, E918	E919 Accident caused by firearm		
	ETURN OF PATIENTS TREATED A		DISEASES		mediate List List No. No.	CAUSE GROUPS			Other transport accidents	Accidental poisoning	E900-E904 Accidental falls				Accident caused by firearm		

APPENDIX I-continued.

APPENDIX I-continued. GOVERNMENT HOSPITALS (EXCLUDING PATIENTS REMAINING IN HOSPITAL AT THE END OF 1955)	CODE—contd.—ALTERNATIVE CLASSIFICATION OF ACCIDENTS, POISONINGS AND VIOLENCE (EXTERNAL CAUSE)—continued.	EXPATRIATES NON-EXPATRIATES	In-Patients Deaths Out-Patients In-Patients Deaths Out-Patients	M. F. M. F. M. F. M. F. M. F. M. F.	462 190 6 1 1,270 615 5,499 7,335 388 268 96,647 59,458	- 1 1	- 2	2 2 3 2 1 - 1 125 54	- 3 3 - 227		7 12 2 142 38 4 - 2,719 784		- $ 1$ $ 6$ $ 1$ $ 24$ 7		471 190 6 1 1,295 624 5,679 7,387 393 269 100,320 60,822	
RETURN OF PATIENTS TREATED AT GOVI		DISEASES	De	mediate List List No. No. CAUSE GROUPS		AE 140 E929 Accidental drowning and submersion	E073) E927 rouidants consed hu hims and all all all	ō	(e) E910, E911, E913-E915, E921, E922,	E930-E965 All other accidental causes	AE 148 E970–E979 Suicide and self-inflicted injury	AE 149 E980-E985 Homicide and injury purposely inflicted but other persons (not in war)	AE 150 E990 Injury resulting from operations of war	Total	

APPENDIX I-continued

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MISSION AND MINING HOSPITALS AND DISPENSARIES RED STRENGTH

	Remarks			plus 4 cots plus 7 cots	nliis 6 cots	plus 6 cots															plus 4 cots			† 27 cots
	SQ	Mental					CER)		1				-1	1	1		1					CER)		
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	ŴŊŴ	General		31 26	1 9	68 40	ARE OF	2				1 4)	9		1.	4 (7 –	UNINIM	30	27	E OF A	£	253
S ANE				•••	•	• •	THE C.	•	•	•	•	•	•	• •	•	•	•	• •			•••	E CARE	•	•
MISSION AND MINING HOSPITALS AND	Diana	Fluce		Kamakwie Rotifunk	Tiama	Segowema	DISPENSARIES (NOT UNDER THE CARE OF A	Kukuna via Rokupr	Bendembu via Makeni	Massumbo via Makeni	Kamabai via Makeni	Balodia via Kabala	Ghanobaja (visited monthly)	Yifin (Niemi Chiefdom)	Sambaia Bendugu	Mayoso	Bunumbu	Jojoima		T/2.22.22.22.2	rengema Marampa	MINING DISPENSARY (NOT UNDER THE	Pepel	TOTAL
WISSION A		Name and Mission		American Wesleyan Fvangelica United Brethren in Christ		Methodist	MISSION DISPER	American Wesleyan				The second secon	United Brethren American	Missionary Church Association			Methodist	Emmalical I Inited Brethren in Christ			Sierra Leone Selection 1rust	MINING DISPENSA	Sierra Leone Development Company	

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