## **Annual report of the Medical Department / Colony of the Gambia.**

#### **Contributors**

Gambia. Medical Department.

#### **Publication/Creation**

London: printed by Waterlow, [1912]

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# COLONY OF THE GAMBIA.

# Annual Report

OF THE

# MEDICAL DEPARTMENT

FOR THE YEAR 1912.



## CONTENTS.

| MEDICAL REPORT-                       |        |        |        |      |      |
|---------------------------------------|--------|--------|--------|------|------|
|                                       |        |        |        |      | PAGE |
| I. Administrative                     |        |        |        |      | 5    |
| II. Public Health                     |        |        |        |      | 6    |
| III. Sanitation                       |        |        |        |      | 8    |
| IV. Hospitals and Dispensaries, Etc.  |        |        |        |      | 10   |
| SANITARY REPORT BY DR. KENNAN-        |        |        |        |      |      |
| INDEX, WITH INDEXES TO FORMER REPORTS |        |        |        |      | 17   |
| Report                                |        |        |        |      | 19   |
| TABLE IV. SUMMARY OF ROUTINE SANITA   | RY Wo  | ORK DO | NE DU  | RING |      |
| THE YEAR IN BATHURST                  |        |        |        |      | 26   |
| REPORT ON MACCARTHY ISLAND HOSPITAL   |        |        |        |      | 32   |
| Returns—                              |        |        |        |      |      |
| Table I.—Staff                        |        |        |        |      | 35   |
| TABLE II.—FINANCE (MEDICAL DEPARTMEN  | т)     |        |        |      | 37   |
| (Board of Health)                     |        |        |        |      | 37   |
| TABLE III.—STATISTICS OF POPULATION   |        |        |        |      | 38   |
| TABLE IV.—METEOROLOGICAL RETURN FOR T | гне Үе | AR —B  | ATHURS | т    | 39   |
| TABLE V.—Hospitals and Dispensaries R | ETURN. | of Di  | SEASES |      | 40   |
| QUININE DISTRIBUTION                  |        |        |        |      | 47   |

CONTENTS

Marian Person

AUTHORNESSEE ...

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t something of summer 75

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Enclosure to Gambia, No. 79 of 7th April, 1913.

No. 69.

MEDICAL OFFICE,

BATHURST,

GAMBIA,

3rd February, 1913.

SIR,

I have the honour to submit, for the information of His Excellency the Governor and transmission to the Right Honourable the Secretary of State, the Medical and Sanitary Report for the Colony of the Gambia for the year ended 31st December, 1912.

> I have the honour to be, Sir,

> > Your most obedient servant,

E. A. CHARTRES,

Senior Medical Officer.

THE HONOURABLE

THE COLONIAL SECRETARY,

BATHURST, GAMBIA.

# Annual Medical and Sanitary Report

FOR THE

## YEAR ENDING 31st DECEMBER, 1912.

#### I. ADMINISTRATIVE.

#### STAFF.

The Medical Staff consisted of a Senior Medical Officer and six Medical Officers, all members of the West African Medical Staff. They are:—

- Dr. E. A. Chartres, Senior Medical Officer, appointed to the Gambia on the 25th December, 1911, arrived and assumed duties on January 23rd, 1912.
- Dr. J. C. Franklin, Medical Officer, acted as Senior Medical Officer, January 1st to 22nd, and handed over charge of the Medical Department to Dr. Chartres on his arrival in the Colony.
- Dr. E. Hopkinson, D.S.O., Protectorate Medical Officer, acted as Travelling Commissioner, in the South Bank of the Gambia Protectorate, January 1st to May 6th, when he proceeded on leave of absence after completing a tour of 16 months; he was ultimately transferred permanently to this office on the 12th of August.
- Dr. J. A. Harley, Medical Officer, who returned from leave of absence 30th October, 1911, in the interest of the service, was allowed to proceed on leave on the 8th of August, and he returned and resumed duty on the 29th of November. Dr. Harley accompanied His Excellency the Governor through his tour in the Protectorate, and he performed vaccinations and attended to the several needs of the Natives medically. Report appended (page 32).
- Dr. A. F. Kennedy, Medical Officer, attached to MacCarthy Island Province, was appointed Medical Officer of Health, Bathurst; he assumed duties on May 1st, and on July 4th proceeded on leave of absence up to the 31st December.
- Dr. F. C. V. Thompson, Medical Officer, was appointed to the vacancy caused by Dr. Kennedy's transfer to the Board of Health Department of this Colony, on the 25th of May; he arrived in the Colony on the 7th of June and assumed duties.
- Dr. S. L. Brohier was appointed Medical Officer on the 23rd of November; he arrived in the Colony, December 12th, and assumed duty vice Dr. Hopkinson, transferred.

#### FINANCIAL.

The financial statement will be found on page 37, table II.

The revenue collected amounted to £116 12s. 1d., and the estimated amount was £100.

The estimated expenditure was £6,660, and the actual amounted to £6,222 19s. 4d.

## II. PUBLIC HEALTH.

## (a) GENERAL REMARKS.

The general health of Bathurst and the Protectorate was satisfactory.

## (b) European Officials.

The number of European Officials on the sick list during the year was 27, an increase of 11 as compared with 1911. This increase does not represent serious illnesses, but in many cases slight ailments.

There were five cases of invaliding; only one case due to tropical disease. No deaths occurred.

TABLE SHOWING THE SICK, INVALIDING, AND DEATH RATES OF EUROPEAN OFFICIALS.

| gis but month healtest mines at he between              | on the | 1911. | 1912. |
|---|--------|-------|-------|
| Total number officials resident                         | 8      | 57    | 51    |
| Average number resident                                 | 3      | 30    | 24    |
| Total number on sick list                               | ]      | 6     | 27    |
| Total number of days on sick list                       | 1      | 73    | 192   |
| Average daily number on sick list                       |        | .20   | .52   |
| Percentage of sick to average number resident           |        | -6    | 2.5   |
| Average number of days on sick list for each patient    |        | 4.5   | 7.1   |
| Average sick time to each resident                      |        | 2.4   | 8 5   |
| Total number invalided                                  |        | 1     | 5     |
| Percentage of invalidings to total residents            |        | 1.7   | 2.5   |
| Total deaths  |        | 3     | -     |
| Percentage of deaths to total residents                 |        | 5.2   | -     |
| Percentage of deaths to average number resident         |        | 10    | -     |
| Number of cases of sickness contracted away from reside |        | -     | _     |

#### (c) NATIVE OFFICIALS.

The Native Officials did not suffer from any serious diseases; 146 appear on the sick list, but the complaints were mainly of a trivial nature. There were no cases of invalidings or deaths.

Eighteen cases of malarial fever are recorded, a decrease of 10 on the preceding year. This decrease is most probably due to the more general use of quinine, as a very much larger number of officials applied for this drug.

TABLE SHOWING THE SICK, INVALIDING, AND DEATH RATES OF NATIVE OFFICIALS.

|  | 1911. | 1912. |
|--|-------|-------|
| Total number of officials resident                       | 127   | 131   |
| A women nymbon posidont                                  | 106   | 67    |
| Total number on sick list                                | 126   | 146   |
| Total number of days on sick list                        | 378   | 504   |
| Average daily number on sick list                        | 35    | 1.37  |
| Percentage of sick to average number resident            | 33    | 2.04  |
| Average number of days on sick list for each patient     | 3     | 3.45  |
| Average sick time to each resident                       | 3.06  | 7.52  |
| Total number invalided                                   |       | -     |
| Percentage of invalidings to total residents             |       | 75017 |
| Total deaths   | 1     | -     |
| Percentage of deaths to total residents                  | 78    | 11112 |
| Percentage of deaths to average number resident          | 94    | -     |
| Number of cases of sickness contracted away from resider | nce — |       |

### (d) GENERAL EUROPEAN POPULATION.

More than three-fourths of the Europeans are French, and belong to trading firms; there is only one British firm in the Colony. All are engaged in the ground-nut trade.

TABLE SHOWING THE SICK, INVALIDING, AND DEATHS OF NON-OFFICIAL EUROPEANS.

|                              |      | 17 | 1 11 | 1911.   | 1912. | -    |
|------------------------------|------|----|------|---------|-------|------|
| Total number resident        |      |    |      | 186     | 142   |      |
| Total number on sick list    | ***  |    |      | 18      | 10    |      |
| Total number invalided       |      |    |      | 3       | 1     |      |
| Total deaths of residents    |      |    |      | 11      | 2     |      |
| Total deaths from passing sh | nips |    |      | I VERNA | 1     | NAME |

## (e) GENERAL NATIVE POPULATION.

There is a slight increase in the number of deaths, and the infant mortality still keeps high. I attribute this not so much to accidents or mis-management at child-birth, but to the ignorance and carelessness displayed later in feeding.

Few women are able or willing to suckle their infants, and more or less indigestible food stuffs are substituted.

An attempt is now being made to form classes for instructing women in Midwifery and the feeding of children, but so far there is little interest displayed.

A qualified Midwife who could give her time to this work would be a step in the right direction.

COMPARATIVE STATEMENT OF BIRTHS AND DEATHS FOR THE PAST TEN YEARS IN THE COLONY.

|      | Years. | Births. | Deaths. | Births in excess. | Deaths in excess. | 7953  |
|------|--------|---------|---------|-------------------|-------------------|-------|
| 1903 |        | <br>408 | 495     | F-                | 87                |       |
| 1904 |        | <br>371 | 408     | _                 | 37                |       |
| 1905 |        | <br>331 | 376     | _                 | 45                | 1     |
| 1906 |        | <br>338 | 359     | PORT AND LOS I    | 21                | DHT.  |
| 1907 |        | <br>326 | 386     | -                 | 60                | 12 31 |
| 1908 | ***    | <br>351 | 387     | -                 | 36                | inte  |
| 1909 |        | <br>339 | 330     | 9                 | -                 |       |
| 1910 |        | <br>363 | 385     | DADINE SITE AT    | 22                | plum  |
| 1911 | ***    | <br>306 | 318     | _                 | 12                |       |
| 1912 |        | <br>303 | 336     | HIRE TORRY        | 33                | BILL  |

NUMBER OF DEATHS AND DEATH RATE PER THOUSAND OF THE POPULATION (CALCULATED ON THE CENSUS OF 1911) FOR THE LAST TEN YEARS IN THE COLONY.

|      | Years. | ar a tra | Estimated<br>Population. | Total<br>Deaths. | Death Rate<br>per 1,000. |
|------|--------|----------|--------------------------|------------------|--------------------------|
| 1903 |        |          | <br>13,157               | 495              | 38-53                    |
| 1904 |        |          | <br>13,157               | 408              | 31.01                    |
| 1905 | ***    |          | <br>13,157               | 376              | 28.58                    |
| 1906 |        |          | <br>13,157               | 359              | 27.27                    |
| 1907 |        |          | <br>13,157               | 386              | 29-33                    |
| 1908 |        |          | <br>13,157               | 387              | 29.41                    |
| 1909 |        |          | <br>13,157               | 330              | 25.08                    |
| 1910 | ***    | ***      | <br>13,157               | 385              | 29.26                    |
| 1911 |        |          | <br>13,157               | 318              | 24.16                    |
| 1912 |        |          | <br>13,157               | 336              | 25.53                    |

MONTHLY DEATH RATE FOR THE PAST SIX YEARS IN BATHURST.

|              | Y | ears. | Jan.         | Feb.     | Mar.     | Apr.     | May.     | June.    | July.    | Aug.     | Sept.    | Oet.     | Nov.     | Dec.     |
|--------------|---|-------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1907<br>1908 |   |       | <br>22<br>32 | 46<br>22 | 43       | 15<br>25 | 20<br>24 | 28<br>33 | 32<br>30 | 30<br>39 | 45<br>35 | 48       | 38<br>48 | 19<br>32 |
| 1909<br>1910 |   |       | <br>31<br>29 | 20<br>21 | 24<br>20 | 22<br>17 | 21 23    | 30       | 36<br>21 | 34<br>31 | 28<br>35 | 29<br>31 | 28<br>29 | 27<br>25 |
| 1911<br>1912 |   |       | <br>16<br>19 | 16       | 19<br>12 | 11       | 27<br>19 | 12<br>28 | 23<br>20 | 19<br>26 | 32<br>32 | 22<br>34 | 25<br>27 | 36<br>25 |

#### INFANTILE MORTALITY FOR THE PAST EIGHT YEARS IN THE COLONY.

|      | Year | 8. | Total<br>Births. | Deaths over<br>1 year and<br>under<br>5 years. | Deaths over<br>1 week and<br>under<br>1 year. | Deaths over<br>1 day and<br>under<br>1 week. | Deaths<br>under<br>24<br>hours. | Still<br>Births. |
|------|------|----|------------------|--|---|--|---------------------------------|------------------|
| 1905 |      |    | <br>, 331        | 41   | 61  | 20   | 10                              | 24               |
| 1906 |      |    | <br>338          | 33   | 43  | 12   | 14                              | 31               |
| 1907 |      |    | <br>326          | 37   | 56  | 22   | 11                              | 13               |
| 1908 |      |    | <br>351          | 55   | 77  | 23   |                                 | 32               |
| 1909 |      |    | <br>339          | 23   | 50  | 11   | 17                              | 24               |
| 1910 |      |    | <br>363          | 40   | 68  | 34   | 11                              | 27               |
| 1911 |      |    | <br>306          | 29   | 43  | 15   | 1                               | 28               |
| 1912 |      |    | <br>203          | 42   | 66  | 6  | _                               | 26               |

### III. SANITATION.

## (a) GENERAL REVIEW OF WORK DONE, LAWS PASSED, AND PROGRESS MADE.

#### (i) Administrative.

The Board of Health directs the sanitation of Bathurst, and is composed of the Senior Medical Officer (Chairman of the Board), the Colonial Engineer and the Superintendent of Police (ex-officio members) and six other members appointed annually by the Governor.

Dr. Kennan, Senior Sanitary Officer, continues to act as Adviser on Sanitary matters. He arrived here in May, and stayed nearly six weeks, consulting with the Sanitary Engineer on two schemes which have been submitted to the Secretary of State. His report is attached (page 19).

In addition to the Town Warden appointed last year, another European Official has been appointed as Assistant Town Warden. This will do much to assist in keeping the work already done up to date when the Town Warden is on leave.

A new appointment of Medical Officer of Health was made and Dr. Kennedy appointed.

The Native Sanitary Staff has been increased by three; the mosquito campaign has been vigorously carried out during the year, and has resulted in a greatly diminished number of mosquitos. The removal by carts, at least twice weekly, of all refuse, tins, bottles, etc., from every part of the town, has improved the cleanliness of the town and reduced the number of fires which previously were frequent.

As the last case of yellow fever had taken place in November, 1911, it was decided to fumigate all quarters in the vicinity where the cases had occurred, so as to destroy all possibly infected mosquitos; and also to fumigate all Government quarters, cellars, and buildings of private persons, who were willing to allow this precaution to be carried out. This was continued up to August, and some 500 rooms and cellars and a few cutters were dealt with.

15,000 yards were inspected during the year; the mosquito index falling from 18.5 per cent, in the first quarter to 1.3 per cent, in the last.

Mosquito proofing has been completed in all living quarters, offices and cellars; and all the trading firms have carried out the recommendations to protect their white officials.

Every European now lives in a protected room.

A portion (some 3,000 square yards) of Half Die has been filled above flood level.

The Stegomyia species of mosquito has now practically disappeared. Among the specimens caught in different parts of the town at the end of the last quarter only two were Stegomyia, the remainder being mainly Culex.

About 40 acres of mangroves have been cut in the west side of the town; this work has greatly diminished the number of mosquitos.

1,000 lineal yards of useless earth drains have been filled in.

A large quantity of quinine (over 7,000 doses) was issued to school children, and the masters report improved health on the part of the children.

Steps have been taken to remove all the European Officials out of Bathurst, and at least two bungalows will be erected in Marine Parade next year with this object in view.

Two hundred and eighty-two notices to abate nuisances were issued, followed by 28 summonses and 27 convictions.

The Public Health Ordinance, No. 4 of 1912, was passed in Council in September and received sanction.

STAFF.

The Sanitary Staff consisted of :-

The Chairman, Board of Health.

The Senior Sanitary Officer.

The Medical Officer of Health.

The European Town Warden.

The Inspector of Nuisances.

5 Assistant Inspectors of Nuisances.

40 Labourers in the Dry Season Rainy Season average.

70 do. 5 Cartmen.

1 Groom.

4 Lamplighters.

EPIDEMIC DISEASE.

Smallpox.

Four mild cases were treated in the Infectious Diseases Hospital; all recovered.

Special arrangements have been made for 1913 to carry out extensive vaccinations in the Protectorate, and a Medical Officer will travel through the Protectorate for this duty. It is hoped that more satisfactory results may be obtained than in the past when this duty was carried out by the Travelling Commissioners.

## COMPARATIVE RETURNS OF VACCINATIONS FOR 1911 AND 1912, AT BATHURST.

| than seed | М   | onths. |     |     | Vacc  | otal<br>inated,<br>1912. |       | cesses,<br>—1912. |    | lures,<br>1912. |      | Seen,<br>-1912 |
|-----------|-----|--------|-----|-----|-------|--------------------------|-------|-------------------|----|-----------------|------|----------------|
| January   |     |        |     |     | 75    | 112                      | 53    | 82                | 4  | 30              | 18   | _              |
| February  |     |        |     |     | 105   | 45                       | 75    | 32                | 2  | 13              | 28   | -              |
| March     |     |        |     |     | 255   | 15                       | 252   | 10                | 3  | 5               | -    | -              |
| April     |     |        |     |     | 768   | 29                       | 726   | _                 | 9  | -               | 33   | 29             |
| May       |     |        |     |     | 420   | 56                       | 418   | 41                | 2  | 15              | -    | -              |
| June      |     |        |     |     | 165   | 74                       | 162   | 52                | 3  | 22              | 770  | -              |
|           | *** |        |     |     | 150   | 242                      | 150   | 186               | _  | 56              | -    | -              |
| July      |     |        | *** |     | 120   | 257                      | 120   | 209               | -  | 48              | -    | -              |
| August    |     |        | *** |     | 100   | 330                      | 100   | 273               | _  | 42              | -    | 15             |
| September | *** | ***    | *** |     | 120   | 450                      | 110   | 392               | 10 | 21              | _    | 37             |
| October   |     | ***    | *** | *** | 165   | 210                      | 165   | 165               |    | 16              | _    | 29             |
| November  | *** | ***    | *** |     |       |                          |       | 84                | 5  | _               |      | 10             |
| December  |     | ***    |     |     | 165   | 94                       | 160   | 04                | 9  |                 | 1110 | 10             |
|           |     | TOTAL  |     |     | 2,608 | 1,914                    | 2,491 | 1,526             | 38 | 268             | 79   | 120            |

#### PROTECTORATE.

| 1911 | <br> | <br> | <br>    | 394 | Vaccinations | performed. |
|------|------|------|---------|-----|--------------|------------|
| 1912 | <br> | <br> | <br>*** | 867 | do.          | do.        |

## V. HOSPITALS AND DISPENSARIES.

## THE VICTORIA GENERAL HOSPITAL, BATHURST.

A report on the Victoria Hospital has already been submitted to His Excellency the Governor, drawing attention to the faulty construction and lack of proper accommodation, etc.

To provide increased accommodation for Europeans, as there was only one ward in which to treat them, certain alterations were carried out during the year, which have now given another small ward capable of treating two Europeans.

Two rooms used by the Dispenser have been converted, one into a pantry for the first-class ward, and the other into a consulting room.

The most pressing need is a new Native wing to relieve the congestion at present experienced in the basement.

The Female Hospital had to be converted into quarters for the Nursing Sisters, as the quarters previously used were found inadequate. At present the Maternity building is being used as a Woman's Hospital; this causes no inconvenience from a maternity point of view, few availing themselves of hospital assistance, preferring their own houses and methods.

A new Woman's wing must early be considered, as the present accommodation is not sufficient. A mortuary and new accommodation for the Out-Patient Department are likewise required.

The old quarters used by the Sisters of Mercy will be converted into a ward for European ladies and a dining room for the sisters.

The Out-Patient Department of this hospital records 7,895 new cases and 4,111 old cases; this shows an increase of 640 new cases, the total number of new cases in 1911 being 7,255.

There were 529 new cases admitted to hospital, showing a decrease of 59.

The increase of Out-Patients is no doubt due to the greater strictness in verifying the various causes of deaths. This has necessitated a very great increase in postmortem examinations, which are not popular; and the fear of autopsies has resulted in increased attendance.

#### EUROPEAN NON-OFFICIALS.

There were two deaths, one from Cardiac disease, and one from Appendicitis. Three cases were invalided.

(Signed) E. A. CHARTRES, Senior Medical Officer.

Medical Office,

Bathurst,

3rd February, 1913.

#### IN-PATIENTS, VICTORIA HOSPITAL, 1912.

|                                  | Remaining<br>in Hospital,<br>31st Dec., 1911. | Admitted<br>during the<br>Year. | Died.                    | Remaining<br>in Hospital<br>31st Dec., 1912. |
|----------------------------------|---|---------------------------------|--------------------------|--|
| Natives<br>Syrians<br>W. A. F. F | Nil 7 Nil 1 Nil Nil                           | 30<br>340<br>12<br>73<br>66     | 1<br>29<br>2<br>1<br>Nil | Nil<br>13<br>Nil<br>Nil<br>1                 |
| TOTAL                            | 8   | 521                             | 33                       | 14   |

#### RESULT OF TREATMENT

|   | Male.    | Female.  | Total.   |
|---|----------|----------|----------|
| Patients remaining in Hospital, 1st January, 1912 Patients admitted during 1912 | 7<br>393 | 1<br>128 | 8<br>521 |
| TOTAL   | 400      | 129      | 529      |
| Cured   | 255      | 69       | 324      |
| Relieved  | 102      | 41       | 143      |
| Not Relieved  | 10       | 5        | 15       |
| Died  | 24       | 9        | 33       |
| Remaining in Hospital on the 31st   |          |          |          |
| December, 1912  | 9        | 5        | 14       |
| Average stay in days of patients who  | - 722    |          |          |
| were discharged   | 7        | 8        |          |
| Average stay of patients who died   | 5        | 5        | -        |

|          | THE DESIGNATION OF THE PERSON |  | SES (    | F IN-     | PATII       | ENTS I          | DURI         | NG TI                | IE YE  | AR.      |
|----------|---|--|----------|-----------|-------------|-----------------|--------------|----------------------|--|----------|
|          | Malarial Fe   |  |          |           |             |                 |              |                      | 77   |          |
|          | Injuries  |  |          | ***       |             | ***             |              |                      | 49   |          |
|          | Rheumatism<br>Ulcer   |  |          |           |             |                 |              |                      | 47<br>29   |          |
|          | Bronchitis  |  |          |           |             |                 |              |                      | 27   |          |
|          | Pneumonia   |  |          | ***       |             | ***             |              |                      | 24   |          |
|          | Abscess   |  |          |           |             |                 |              |                      | 18   |          |
|          | Diarrhœa<br>Gonorrhœa   |  |          |           |             |                 |              |                      | 12   |          |
|          | Dysentery   |  |          |           |             |                 |              |                      | 10   |          |
|          | Hernia  |  |          |           |             |                 |              |                      | 10   |          |
| SURGICAL | OPERATI   | IONS                                   | PER      | FORM      | ED U        | UNDER           | CH           | LOROI                | FORM   | DURING   |
|          |   |  |          | THE       | YEAI        | 2.              |              |                      |  |          |
|          | Abscesses, o  |  |          |           |             | ***             |              |                      | 4  |          |
|          | Adenitis, in  |  | ***      |           |             |                 |              |                      | 1 2  |          |
|          | Amputation<br>Circumcision  |  |          |           |             |                 |              |                      | 1  |          |
|          | Empyema,  |  | n of r   |           |             |                 |              |                      | 1  |          |
|          | Do. i   | incised                                | and d    | rained    |             |                 |              | ***                  | 2  |          |
|          | Entropion, S<br>Fish-hook in  |  |          |           |             |                 |              |                      | 1  |          |
|          |   | n arm,<br>n scroti                     |          |           |             |                 |              |                      | 1  |          |
|          | Hæmatocele  |  |          |           | ***         |                 |              |                      | 1  |          |
|          | Hernia, rad   |  |          |           |             |                 |              |                      | 5  |          |
|          | Lacerated w<br>Urethral St  |  |          |           | ion         |                 |              |                      | 1  |          |
|          | Do.   | 1000                                   | dilat    | ed        |             |                 |              |                      | 1  |          |
|          | Varicocele,   | radical                                | cure     |           |             |                 |              |                      | 1  |          |
|          |   |  |          |           | ,           | TOTAL           |              |                      | 25   |          |
|          |   |  |          |           |             | LOIME           |              |                      | -  |          |
| SURGICAL | OPERAT  | IONS                                   |          | RFORM     |             | WITH<br>YEAR.   | A I          | OCAL                 | ANA  | ESTHETIC |
|          | A becomes   | manad                                  |          |           |             |                 |              |                      | 10   |          |
|          | Abscesses, o<br>Adenitis, in  |  |          |           |             |                 |              |                      | 2  |          |
|          | Ascitis, tapp   | ped                                    |          |           |             |                 |              |                      | 1  |          |
|          | Supplement  | ary Fi                                 | nger,    | remove    | l           |                 |              |                      | 1  |          |
|          | Tubercular  |  | A        | Lance and |             |                 |              |                      | 1  |          |
|          | Whitlow, in   |  | nitis, t | **        |             |                 |              | •••                  | 1  |          |
|          | Whitlow, in   |  | nitis, t | apped     |             |                 |              |                      | 1  |          |
|          | Whitlow, in   |  | nitis, t | **        |             |                 |              | •••                  |  |          |
| CAUSES   | Whitlow, in   | neised                                 | nitis, t |           |             | TOTAL           |              |                      | 1 16   | YEAR.    |
| CAUSES   | OF DEAT   | HS I                                   | nitis, t | ctori     | <br>A HO    | Total           | <br>L DU     | <br><br>RING         | 1<br>16<br>THE                                       | YEAR.    |
| CAUSES   |   | eHS II                                 | nitis, t |           |             | TOTAL           |              |                      | 1<br>16<br>THE<br>1<br>2                             | YEAR.    |
| CAUSES   | OF DEAT<br>Dysentery<br>Chronic Ma<br>Pneumonia   | CHS II                                 | N VI     | CTORI     | <br>A НО    | Total.          | <br>L DU     | RING                 | 1<br>16<br>THE<br>1<br>2<br>2                        | YEAR.    |
| CAUSES   | OF DEAT<br>Dysentery<br>Chronic Ma<br>Pneumonia<br>Septicæmia   | PHS II                                 | N VI     | ctori     | .::<br>A НО | TOTAL<br>SPITAL | <br>L DU     | RING                 | 1<br>16<br>THE<br>1<br>2                             | YEAR.    |
| CAUSES   | OF DEAT<br>Dysentery<br>Chronic Ma<br>Pneumonia   | PHS II                                 | N VI     | ctori     | А НО<br>    | Total. SPITA    | <br>L DU<br> | RING                 | 1<br>16<br>THE<br>1<br>2<br>2<br>1                   | YEAR.    |
| CAUSES   | OF DEAT<br>Dysentery<br>Chronic Ma<br>Pneumonia<br>Septicæmia<br>Tetanus<br>Debility<br>Convulsion  | CHS II                                 | N VI     | ctori     | .::<br>A НО | Total. SPITA    | <br>L DU     | <br><br>RING<br>     | 1<br>16<br>—<br>THE<br>1<br>2<br>2<br>1<br>1         | YEAR.    |
| CAUSES   | OF DEAT Dysentery Chronic Ma Pneumonia Septicæmia Tetanus Debility Convulsion Apoplexy  | CHS II                                 | N VI     | CTORI     | A HO        | TOTAL<br>SPITAL | <br>L DU     | <br><br>RING<br>     | 1<br>16<br>2<br>1<br>2<br>2<br>1<br>1<br>2<br>1<br>1 | YEAR.    |
| CAUSES   | OF DEAT<br>Dysentery<br>Chronic Ma<br>Pneumonia<br>Septicæmia<br>Tetanus<br>Debility<br>Convulsion  | CHS II                                 | N VI     | CTORI     | A HO        | TOTAL<br>SPITAL | <br>L DU     | <br>RING<br>         | 1<br>16<br>—<br>THE<br>1<br>2<br>2<br>1<br>1         | YEAR.    |
| CAUSES   | OF DEAT Dysentery Chronic Ma Pneumonia Septicæmia Tetanus Debility Convulsion Apoplexy Mitral Dise Bronchitis Broncho-Pr  | CHS II                                 | N VI     | CTORI     | <br>А НО    | TOTAL<br>SPITAL | <br>L DU     | <br><br>RING<br>     | 1 16 THE 1 2 2 1 1 2 2 1 1 2 3 4                     | YEAR.    |
| CAUSES   | OF DEAT Dysentery Chronic Ma Pneumonia Septicæmia Tetanus Debility Convulsion Apoplexy Mitral Dise Bronchitis Broncho-Pr Congestion   | CHS II                                 | N VI     | CTORI     | A HO        | Total           | <br>L DU     | <br>RING<br>         | 1 16 — THE 1 2 2 1 1 1 2 3 4 2 2                     | YEAR.    |
| CAUSES   | OF DEAT Dysentery Chronic Me Pneumonia Septicæmia Tetanus Debility Convulsion Apoplexy Mitral Dise Bronchitis Broncho-Pr Congestion Hernia  | CHS II                                 | N VI     | CTORI     | A HO        | TOTAL<br>SPITAL | <br>L DU     | <br>RING<br><br><br> | 1 16 THE 1 2 2 1 1 2 3 4 2 1                         | YEAR.    |
| CAUSES   | OF DEAT Dysentery Chronic Me Pneumonia Septicæmia Tetanus Debility Convulsion Apoplexy Mitral Dise Bronchitis Broncho-Pr Congestion Hernia Diarrhœa Peritonitis   | CHS II                                 | N VI     | CTORI     | A HO        | TOTAL           | <br>L DU     | <br>RING<br><br>     | 1 16 — THE 1 2 2 1 1 1 2 3 4 2 2                     | YEAR.    |
| CAUSES   | OF DEAT Dysentery Chronic Me Pneumonia Septicæmia Tetanus Debility Convulsion Apoplexy Mitral Dise Bronchitis Broncho-Pr Congestion Hernia Diarrhœa Peritonitis Quinsy  | PHS II                                 | N VI     | CTORI     | A HO        | TOTAL           | <br>L DU     | <br>RING<br><br><br> | 1 16 — THE 1 2 2 1 1 2 3 4 2 1 2 1 2                 | YEAR.    |
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| CAUSES   | OF DEAT Dysentery Chronic Me Pneumonia Septicæmia Tetanus Debility Convulsion Apoplexy Mitral Dise Bronchitis Broncho-Pr Congestion Hernia Diarrhœa Peritonitis Quinsy Bright's D Stricture Gluteal Ab Burn   | PHS II alaria ease isease isease scess | N VI     | CTORI     | A HO        | Total           | L DU         | RING                 | 1 16 THE 1 2 2 1 1 2 2 1 1 2 2 1 1 1 1 1 1 1 1 1     | YEAR.    |

#### THE HOME FOR THE AFFLICTED AND DESTITUTE.

During the year eight men and five women were admitted into the Home, with the eight remaining from the previous year making a total of twenty-one inmates.

Two females were transferred to the Lunatic Asylum, Kissy, Sierra Leone.

RETURN OF THE INMATES OF THE HOME FOR THE AFFLICTED AND DESTITUTE.

| Sex.                      | Remained, 1911. | Admitted, 1912. | Discharged,191 | 2. Died, 1912 | Remaining, 191 |
|---------------------------|-----------------|-----------------|----------------|---------------|----------------|
| Males<br>Females          | 3<br>5          | 8<br>5          | 3              | 7<br>4        | 4 3            |
| TOTAL                     | 8               | 13              | 3              | 11            | 7              |
|                           | CA              | USE OF DE       | ATH.           |               |                |
| Senile Deca               | у               |                 |                |               | 4              |
| Chronic Bro               |                 |                 | ***            |               | 3              |
| Trypanosom<br>Morbus Cor  |                 |                 |                |               | 1              |
| Paraplegia                | ais             |                 | ***            |               | 1              |
| Hemiplegia                |                 |                 |                |               | î              |
| 1 6                       |                 |                 | m              |               |                |
|                           |                 |                 | TOTAL .        |               | 11             |
| INI                       | FECTIOUS        | DISEAS          | ES HOSE        | ITAL.         |                |
| Small Pox .               |                 | All cured.      | 3              |               | Females.       |
|                           | TI              | HE PRIS         | ON.            |               |                |
| Damained in               |                 |                 |                |               | Females.       |
| Remained in<br>Admitted . |                 | ary 51st De     | cember, 18     | 16            | _              |
| Zadimiteda .              |                 |                 |                |               |                |
|                           |                 | Tota            | l              | 16            | -              |
| Discharged.               |                 |                 |                | 15            |                |
| Died .                    |                 |                 |                | 1             | _              |
| D                         | . T. C.         | 01 + D          | 1 10           | -             |                |
| Remaining i               | n the Innrm     | ary sist De     | cemper, 19     | 12 —          |                |

Daily average number, 27:50.

Sanitary arrangements, good.

## THE PROTECTORATE.

Dr. Kennedy went on tour with His Excellency the Governor and performed medical work in places visited; and Dr. Hopkinson, the Protectorate Medical Officer, could only carry out his Medical duties in the South Bank Province over which he had charge during the year.

#### MACCARTHY'S ISLAND HOSPITAL.

This new medical station continues to meet the pressing need of the inhabitants of the Protectorate in this district.

During the year besides the resident Dispenser, who took charge of the station during the rainy season, the following Medical Officers were stationed there, viz.:—Drs. Harley and Kennedy. Report appended (page 32).

BATHURST,

GAMBIA,

20th March, 1913.

SIR,

I have the honour to present the Annual Sanitary Report for the year 1912, with Table IV. of the Model Medical and Sanitary Report.

I have the honour to be,

Sir,

Your obedient servant,

R. H. KENNAN,

Senior Sanitary Officer, Sierra Leone and Gambia.

To

Hon. Acting Senior Medical Officer, Gambia.

## INDEX.

|      | P                                     | AGR. | 18. Street drains  |
|------|---------------------------------------|------|--|
| 1.   | Introductory                          | 19   | 19. Land reclamation and swamp filling                                     |
|      | Protection from mosquitos             | 19   | 20. Occupation of reclaimed land .   |
| 3.   | Quinine malaria prophylaxis           | 19   | 21. Larvæ index  |
|      | Inspection of compounds               | 20   | 22. New Public Health Ordinance .  |
|      | Incinerators, refuse bins, &c         | 20   | 23. Trees  |
|      | Cesspits ,                            | 20   | 24. Roof gutters   |
|      | Public latrines, night-soil removal   | 2000 | 25. Market   |
|      | and disposal                          | 20   | 26. Slaughter-house  |
| 8.   | Public wells, well-tops, pumps,       |      | 27. Cattle market  |
|      | elevators                             | 20   | 28. Legislation and Chief Officers of                                      |
|      | Tube-wells                            | 21   | Sanitary Staff   |
|      | Street encroachment                   | 21   | 29. Infectious diseases  |
|      | Building regulation                   | 21   | Memorandum from Dr. Dutton's   |
|      | European officials' quarters          | 21   | Report, 1902   |
|      | Non-native segregation                | 22   | Addendum   |
|      | Street drains                         | 22   | SANITARY REPORT No. 2, WITH "STEGOMYIA                                     |
|      | Land reclamation and swamp filling    | 22   | INDEX," DATED 20TH APRIL, 1911.  |
|      | Mosquito index                        | 22   | Covering letter: Fly-proofing of Colonial                                  |
|      | New Public Health Ordinance, 1912     | 22   | steamer "Mansah Kilah"; Progress   |
|      | Trees                                 | 22   | report on stegomyia extermination.   |
| 19.  | Fish in drains and swamps in          | 00   | Bathurst   |
| 00   | Bathurst                              | 23   | Slaughter-house  |
|      | The market                            | 23   | Water supply, pipe borne   |
|      | Slaughter-house                       | 23   | Market "vultures"  |
|      | Town Warden's Office                  | 23   | New double bungalow  |
|      | The Sanitary Staff                    | 23   | Incinerator under construction   |
|      | Pipe-borne public water supply .      | 24   | Public wells ·   |
|      | Infectious diseases                   | 24   | Annual Sanitary Report for 1911.   |
|      | Rat destruction                       | 24   |  |
|      | Protectorate                          |      | 1. Preface; Personal; Previous reports 2. Summary of routine sanitary work |
|      | Teaching of Hygiene and Sanitation    |      | done   |
| 29.  | Cemeteries                            | 25   | 2a. Compound inspections and stegomyia                                     |
|      | INDEXES TO FORMER REPORTS.            |      | indexes; Dr. Kennedy's report;   |
| NIT. | ARY REPORT No. 1, DECEMBER, 1910.     |      | Dr. Harley's report  |
|      | Previous Reports                      |      | 4. Refuse bins   |
|      | Protection of Officers from mosquitos |      | 5. Public and Government-owned wells                                       |
|      | Malaria prophylaxis (community) .     |      | 6. Pitcher pumps and tube-wells .  |
|      | Compounds inspections                 |      | 7. Public Health Regulations   |
|      | Incinerators, refuse bins, night-soil |      | 8. Street names and compound numbers                                       |
|      | buckets, &c., &c                      |      | 9. Market trees and vultures   |
| 6.   | Vacuum cesspool exhauster             |      | 10. Provision for infectious diseases,                                     |
| 7.   | Wells                                 |      | patients, and contacts   |
| 8.   | Well-tops                             |      | 11. Board of Health—labourers  |
| 9.   | Tube-wells                            |      | 12. ,, ,, labour compound proposed, uniform, fire prevention               |
| 10.  | Streets                               |      | 13. Board of Health—clerical staff .                                       |
| 11.  | Street encroachment                   |      | 14. Report of Todd Mission   |
| 12.  | Town planning (streets)               |      | 15. Protection against mosquitos   |
| 13.  | " (blocks and lots) .                 |      | 16. Yellow fever epidemics in Bathurst,                                    |
| 14.  | " (building)                          |      | 1911   |
| 15.  | European officials' quarters          |      | 17. Subjects not discussed   |
| 16.  | Non-native segregation                |      | 18. Conclusion   |
| 17.  | Recommendations $re$ new quarters .   |      | Appendices (A), (B), (C)   |
|      |                                       |      |  |

## INDEX

| I Politic Galden and an arrival  |
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# **Annual Sanitary Report**

FOR THE

## YEAR ENDING 31st DECEMBER, 1912.

#### INTRODUCTORY.

(1) It can be justly claimed, I think, that marked advance in Sanitary matters has taken place in Bathurst during the year. Momentous decisions have been arrived at. The transfer of large and important sanitary subjects from the region of debate to the realm of action marks the past year in an especial way.

A new Public Health Ordinance has been passed bringing the law more nearly up to date, and to modern requirements. A new "Town of Bathurst Ordinance" has also been passed. In the Annual Sanitary Report for 1911 the subjects of Public pipe-borne water supply; Swamp filling; Land reclamation; and Quarters for European Officials, which had all been brought forward in previous reports, were not further discussed, as they were receiving attention. During the past year all these subjects have been exhaustively reported on by experts and action decided on in most directions.

It is felt to be important that former reports should not be lost sight of and forgotten, and with the object of encouraging this and facilitating reference to them, the indexes of former reports are reprinted with this report. For instance, it is not necessary to repeat the views I have expressed on the subject of Bungalow Plans, when reference to the indexes shows where they may be found.

## PROTECTION FROM MOSQUITOS.

(2) It is stated that every European in Bathurst now lives in a protected room. The commercial community have apparently emulated the action of the Government on behalf of its European officials and Hospital patients.

The mosquito-proof wire gauze in some of the Government European officials' quarters is shewing signs of decay and requires repair, and fastenings need readjustment where wood has shrunk or warped. The Survey Boards which so frequently inspect and report on officials' quarters should pay particular attention to these points, as it is believed they do, but the hitch is likely to arise between the recommendation and action. It is profitable to recognise that if proofing is not to give a false sense of security it requires progressively increasing attention after a comparatively short time. It should also be borne in mind that other weaknesses may exist elsewhere than in and about the gauze. Mice play nightly in the newly proofed quarters formerly occupied by the Receiver-General.

#### QUININE MALARIA PROPHYLAXIS.

(3) Quinine continues to be supplied free by the Government to the public, and administered to school children.

#### INSPECTIONS OF COMPOUNDS.

(4) The work done in compound and premises inspections is shewn in tabular form elsewhere. Without doubt improvement in cleanliness, and probably in reduced mosquito breeding in compounds, has resulted. Private tube-wells continue one of the greatest causes of difficulty. The increased power provided under the new Public Health Ordinance will facilitate action, and the educative effect of the law will be more apparent in future. White glass jam jars with gauze lids are used to preserve samples of larvæ-bearing water found in compounds for presentment in Court when prosecution is to follow. Labels are affixed with the following matter printed on them:—

#### BOARD OF HEALTH.

Specimen of Mosquito Larvæ found in the premises of on by in the presence of

#### INCINERATORS, REFUSE BINS, &c.

(5) There are three brick built incinerators in the town, all doing useful work. I recommend that one more be built, and, if the estimated cost be not prohibitive, that it should be built of laterite. The four street refuse bins were too costly to allow of extension on the same scale. I recommend that effort be made to see if bins of the Freetown pattern cannot be provided at something like its cost there (about £6 each). The collection of rubbish from house to house is most laborious where the streets are composed of loose sand over their entire width. Collection can be more readily made from street bins which serve as depôts.

#### CESSPITS.

(6) The custom which largely prevails in Bathurst of simply covering over cesspits which have become nearly full, and opening another, is not hygienic in a town, especially in a town like Bathurst. Occupiers of premises should be made to empty their cesspits when nearly full and throw the contents into the sea. If it is impossible for them to obtain the services of persons willing to undertake such work, it should be done, at a low cost to the occupier, by the Board of Health.

### PUBLIC LATRINES, NIGHT-SOIL REMOVAL AND DISPOSAL.

(7) More public latrines are required. As a rule the "Akus" use cesspits, and no doubt when they change their places of residence and are succeeded by tenants of other origin, this helps to wean those who follow a better custom to adopt the cheap and easy cesspit. Night-soil pans are now removed by the Board of Health by request from private premises at a low charge to cover cost. The beach is so shelving round most of Bathurst that it is not an easy work to dispose of night-soil satisfactorily without the aid of either a jetty or pier, or a boat or barge. I recommend that a jetty be run out beyond low water mark into the river current at the extreme sea-end of the town front, with suitable provision made there for cleansing receptacles and storing excreta till the seaward current sets in. A Decauville tramline should be made to connect at least the land-end of this pier with the tramline system, and cars to carry pans obtained, and later, off-shoots from the system made to penetrate the town.

## PUBLIC WELLS, WELL-TOPS, PUMPS, ELEVATORS.

(8) At present the public wells form the public water-works of the town. Former reports contain much matter referring to them. The improvement that it was hoped would result from recommendations there made has not followed. I have nothing to add to, or subtract from, my previous remarks on this subject in former reports.

#### TUBE-WELLS.

(9) As, owing to labour difficulties in England, the materials for the experimental tube-wells did not arrive till late in the year, it was impossible to judge of their usefulness before its close.

#### STREET ENCROACHMENT.

(10) It is intended that street encroachments and the regulation of boundary fences on street sides shall be undertaken, and the necessary alterations made on the Ordnance Survey maps. It appears, from the "Town of Bathurst Ordinance" 1912, that this should be dealt with within two years of the passing of the Ordinance, and it will be well that no time should be lost in proceeding with the work to completion. About half the compounds in the town have been numbered and it is important that this work should proceed without interruption.

#### BUILDING REGULATION.

(11) The new Town of Bathurst Ordinance 1912 deals to some extent with building regulation. It is not discussed here, as it is understood the subject is being comprehensively considered generally for British West Africa, and will be put before each of the Colonies individually later.

## EUROPEAN OFFICIALS' QUARTERS.

(12) From an early date in the history of the Colony it has been suggested that residences should be provided for Europeans at Cape St. Mary. The sole object till late years was that they should receive the benefits of cool, invigorating Atlantic breezes on relatively elevated ground, away from "mud and mangrove, miasma and malaria." But recently it has been considered advisable to review the situation with the added reason that by the same move segregation could be thoroughly well secured.

It can never be truly said in the future that the segregation of European officials at the "Cape" was blocked by lack of foresight, consideration and practical enquiry, or that a blind hand-to-mouth policy of doing the easiest thing had so involved the Government in capital outlay on this account in the town that removal became thereby impossible. It was definitely recognised last year that the parting of the ways had been reached and the road along which future progress must be made has now been chosen. It is not necessary here to discuss the report made by Mr. H. Simms (then Sanitary Engineer in the Gold Coast Service) and myself on this and other subjects. Schemes grading from the ideal to the practicable were put forward and estimated for. That known as "Dr. Dutton's Scheme" has been selected. Any credit attaching to the conception of the scheme unquestionably belongs to his memory. With some points added the scheme is as follows:—

- (A) Fill sufficient area of the Box Bar Basin and expropriate the natives living in the Clifton-Marine Roads area.
- (B) Fill the low-lying parts of the latter area and build as many quarters as there is room for on the river front for officials now living east of MacCarthy Square.
- (c) Fill local depressions, Albion Square, &c., sand trenches, and as much of Half Die and Box Bar Swamps as can safely be done without danger of flooding other parts more than they now suffer.

(D) Build a substantial sanatorium (rest and recreation building) at the Cape, and, for the transport thereto of officials, provide a comfortable horse-drawn Government vehicle for which two horses should be stabled.

#### NON-NATIVE SEGREGATION.

(13) The scheme outlined above offers little, if any, inducement or facility for the segregation of non-natives other than European Officials.

#### STREET DRAINS.

(14) Some of the grass grown sand trench drains in the town have been filled in by the Board of Health labourers under the direction of the Town Warden. A considerable quantity of sand has been deposited in Albion Square and the "head" of Half Die Swamp made up, by the same agency. But the work is too heavy for the resources at the Town Warden's command if it is to proceed with any degree of rapidity.

#### LAND RECLAMATION AND SWAMP FILLING.

(15) Schemes for land reclamation and swamp filling were put forward and estimated for in reports made during the year by Mr. H. Simms and myself.

Large areas of mangrove bush have been cut down in the swamps at the back of the town under the supervision of the Town Warden, but there is still as much work it is desirable to do in this direction as will tax his energies for several years to come.

## MOSQUITO INDEX.

(16) A mosquito index was taken in June and showed that 28 per cent. (of 100) compounds examined contained a mosquito breeding place.

The percentage of compounds found to contain mosquito larvæ by Sanitary Inspectors during the first quarter of the year was only 18.5, and during the last quarter was only 1.3.

These figures simply mean to me inefficient inspection by "Native" Inspectors. The mosquito index is intended to give a comparatively accurate estimate of the proportion of infected to non-larvæ breeding compounds at a given time, and not over an extended period. The reason for this is obvious. To represent the result of the latter method as the mosquito index is highly fallacious. The examination should be made by reliable, conscientious persons and should be completed within a few days.

Probably the best times for inspections for the purpose of determining the mosquito index in Bathurst in future will be the months of March and September for routine record.

#### NEW PUBLIC HEALTH ORDINANCE, 1912.

(17) It is hoped that the increased powers provided in the new Public Health Ordinance, under which action is in some respects simplified, will result in the educative value of the law being more apparent. This instrument was not much used during the year, but it was not passed till September.

#### TREES.

(18) Some trees have been lopped of branches and some filling of rotholes has been done.

## FISH IN DRAINS AND SWAMPS IN BATHURST.

(19) The specimens of fish found by the late Dr. Dutton in the large drains and in swamps in Bathurst were identified by Professor Herdman as:—

Chromis bimaculatus (Bell) and . Hemichromis macrocephalus (Bleeker).

This subject will be further investigated in connection with their usefulness as larvæ destroyers.

It is recommended that wells which contain living mosquito-larvæ-eating fish should be put in the same legal position as wells so covered as to prevent the ingress of mosquitos.

#### THE MARKET.

(20) The Market is well kept. Many of the "vultures" were shot as recommended in former reports, and the remainder have cleared out.

It is probable that it will be desirable to extend the present market or provide a second one before long.

#### SLAUGHTER-HOUSE.

(21) The slaughter-house is adequate, well placed and well kept.

#### TOWN WARDEN'S OFFICE.

(22) The sanitary records are well kept by the Town Warden under the most difficult conditions. I understand the extra clerical assistance given him during part of the year was not so good as it might have been. The office is quite inadequate as an office for the Chief Executive Sanitary Officer, and it is required to act in part also as a store. There is scarcely more than standing room in it for the Medical Officer of Health when he visits it, and he has no office of his own.

Proposals are being put forward which, if adopted, will, it is hoped, assist the Medical Officer of Health and the Town Warden in the matter of office and store accommodation. The Town Warden's duties include those of Clerk to the Rates Assessment Committee.

#### SANITARY STAFF.

(23) Dr. A. F. Kennedy was appointed Medical Officer of Health of Bathurst on May 1st and proceeded on leave of absence on July 4th till the end of the year.

The post of Assistant Town Warden was created, and Serjeant-Major Morey was appointed, but did not assume duty during the year. There was difficulty in obtaining and retaining the services of "natives" as Sanitary Inspectors. The extreme difficulty in obtaining "natives" who can be relied on to act at all efficiently as Sanitary Inspectors is not confined to this Colony, or indeed to West Africa.

Practically the only class from which candidates can be drawn at present in Bathurst is the exotic "creole," or Aku (Christian and English speaking), though relatively large numbers of Mandings, Jolloffes, Jolahs, &c., are indigenous here.

The Aku class is certainly the one most difficult to direct or encourage in matters of Hygiene here, as also in Freetown. It might be thought, therefore, that Sanitary Inspectors from the same class would prove most useful. Much has been written about the desirability of training and teaching "natives" as Sanitary Inspectors, and I do not decry such efforts, but there is no use in avoiding

the fact that what might be called the native inherent characteristics of some classes are such that technical teaching and training cannot, in the present generation at least, give them the moral courage necessary to perform invidious duties unless they are in a position to shew to the public that derelictions of duty will involve their punishment, and this means very close supervision, so close indeed that it almost appears at times as though their services were useless.

Any man who elects to get himself into trouble rather than another possesses a charm on that account. The Aku appears to possess much of the charm, but it is not a recommendation for a Sanitary Inspector.

It may be proposed to institute a scheme for "native" travelling Sanitary Inspectors for districts outside Bathurst. If the Aku Sanitary Inspector's usefulness amongst his own class is so greatly impaired by his lack of certain moral qualities, how great must be his handicap in sanitary work amongst tribes from which he differs in nationality, language, religion, customs and habits.

#### PIPE-BORNE PUBLIC WATER SUPPLY.

(24) In my report, No. 2, dated April, 1911, the fresh water stream at Lamin was indicated as a likely source from which a pipe-borne water supply could be brought to Bathurst.

This source was examined, and the subject generally reported on by Mr. H. H. Humphreys during the year, and as action has been decided on, it is hoped that before long Bathurst will obtain the inestimable blessing of a good supply of pipe-borne water. It may be fairly anticipated that with the completion of this work the public will abandon the use of their private wells. It will be readily apparent to them that a vast economy in soap consumption will result when it is no longer necessary to use brackish water. Though many who have little or no opportunity for observing believe the contrary, it is true that as a rule the "native" is personally as cleanly as his circumstances permit.

#### INFECTIOUS DISEASES.

(25) A few (4) cases of mild small-pox were reported in Bathurst during the year.

#### RAT DESTRUCTION.

(26) While Plague was on the Gold Coast a rat destruction campaign was carried on in Bathurst. It is desirable that this work should be continuous.

### PROTECTORATE.

- (27) A beginning has been made in anti-tsetse fly measures outside Bathurst, and the subject generally is under discussion.
- "Patrols" have been undertaken to instruct chiefs and headmen in matters of Hygiene.

Bathurst is the only large town in the Gambia.

#### TEACHING OF HYGIENE AND SANITATION.

- (28) Seven lectures were given in April, May and June, on Hygiene, to the school teachers and advanced pupils of the schools in Bathurst, and at the examination held at the end of the course, six passed and eleven failed out of seventeen who presented themselves. The average attendance at the lectures was fourteen.
- Dr. A. F. Kennedy delivered the lectures. The Government offers one prize of £1, 15s., and 10s. each to the three best examinees.

It appears that there is now at least one teacher qualified in the subject of elementary Hygiene and Sanitation in each school in Bathurst.

The subject of Hygiene and Sanitation is now compulsory for the Standards VI. and VII. The average ages of pupils in Standard VI. is about 15 years. Most boys leave school at about 17 years of age and girls earlier. Candidates at examinations include volunteers from lower standards. At the examination held in December, 71 boys and 17 girls presented themselves and 45 boys and 2 girls passed. I recommend that special encouragement be given by the Government for the teaching and learning of Hygiene and Sanitation in schools in Bathurst.

### CEMETERIES.

(29) The Bathurst cemeteries have been handed over to the care and control of the Board of Health.

The fences are in disrepair and dilapidated in places.

R. H. KENNAN,

Senior Sanitary Officer.

## TABLE IV.

# SUMMARY OF ROUTINE SANITARY WORK DONE DURING THE YEAR IN THE TOWN.

### 1. Name of Town.—Bathurst.

|              |      | DAMES ! | Approximate area.   | Number of proclaimed<br>open spaces.                        |
|--------------|------|---------|---------------------|---|
| 1910<br>1911 | <br> | <br>    | 400 acres.<br>400 " | One—3 acres.<br>One—3 "                                     |
| 1912         | <br> | <br>    | 400 "               | One—5.68 acres sur<br>veyed, previously<br>under estimated. |

#### 2. Population.

|      |      | Number of Natives. |          | Number of  | Europeans. | T-4-1  |
|------|------|--------------------|----------|------------|------------|--------|
|      |      | Males.             | Females. | Males.     | Females.   | Total. |
| 1910 | <br> | Day Joseph         |          | 10 100 100 |            |        |
| 1911 | <br> |                    |          |            |            |        |
| 1912 | <br> | 7,                 | 470      | 2          | 30         | 7,700  |

#### 3. Housing.

|           |        | - |     | Number occupied by<br>Europeans. | Number occupied by<br>Natives. |
|-----------|--------|---|-----|----------------------------------|--------------------------------|
| Number of | Houses | _ |     |                                  |                                |
| 1910      |        |   |     | <br>_                            | _                              |
| 1911      | ***    |   |     | <br>22                           | 1,980                          |
| 1912      |        |   |     | <br>As estimated in 1911,        | schedule not completed         |
| Number of | Huts:  |   |     |                                  | 100                            |
| 1910      | ***    |   |     | <br>                             | _                              |
| 1911      |        |   | *** | <br>_                            |                                |
| 1912      |        |   |     | <br>Schedule no                  | t completed.                   |

#### 4. Mosquito Protection of Houses.

| -  | 1910. | 1911. | 1912. |
|--|-------|-------|-------|
| Number of European houses wholly mosquito-protected  | _     | 1     | 1     |
| Number of European houses with mosquito room Number rendered during the year wholly mosquito-protected | _     | 21    | 28    |
| Number rendered during the year partially mosquito-protected   |       | 14    | 7     |

## 5. ERECTION OF NEW BUILDINGS DURING THE YEAR.

| _  | 1910. | 1911.     | 1912. |
|--|-------|-----------|-------|
| Number of huts erected with sanction as to site, construction and relation to other buildings  Number of houses built without sanction | е,    | d in P.W. | Dept. |

### ACTION TAKEN.

|                      | Number of 1 | Prosecutions. | Number Demolished. |         |  |
|----------------------|-------------|---------------|--------------------|---------|--|
|                      | Huts.       | Houses.       | Huts.              | Houses. |  |
| 1910<br>1911<br>1912 | <br>}       | No record in  | P.W. Dept.         |         |  |

#### 6. MARKETS.

| The state of the s | 71-1- | - |      | Total number. | Number paved and<br>drained. | Number unpaved. |
|--|-------|---|------|---------------|------------------------------|-----------------|
| 1910   |       |   | <br> | 1             | 1                            | Nil.            |
| 1911   |       |   | <br> | 1             | 1                            | Nil.            |
| 912  |       |   | <br> | 1             | 1                            | Nil.            |

## 7. SLAUGHTER-HOUSES.

|              |     | _ |         | Total number. | Number paved and drained,   | Number unpaved. |
|--------------|-----|---|---------|---------------|-----------------------------|-----------------|
| 1910<br>1911 |     |   | <br>    | 2             | 1                           | 1               |
| 1911         | *** |   | <br>*** | 2             | 1                           | 1               |
| 1912         | *** |   | <br>    | 2             | and the same of the same of | 1 built over    |

### 8. LATRINES.

|  | 12 (1)                                       | For                    | Males.                                | For Fe                             | emales.   |
|--|--|------------------------|---------------------------------------|------------------------------------|---|
| the I may be seen I  |  | Number.                | Number of<br>Seats,                   | Number.                            | Number of seats.  |
| Number of Public Latrines :—   |  |                        |                                       |                                    |   |
| 1910   |  | 9                      | 27                                    | 9                                  | 27  |
| 1011   |  | 10                     | 40                                    | 10                                 | 40  |
| 1019   |  | 10                     | 40                                    | 10                                 | 40  |
| Number of new Public Latrines erected du<br>year :—  |  |                        | a Barrier                             |                                    |   |
| 1010   |  | 1                      | 3                                     | 1                                  | 3   |
| 1011   |  | 1                      | 3                                     | 1                                  | 3   |
| 1010   |  | Nil.                   | Nil.                                  | Nil.                               | Nil.  |
| Number of Public Latrines repaired du  |  |                        | -                                     |                                    | -   |
| year :   |  |                        |                                       |                                    |   |
| 1010   |  | 2                      | 6                                     | 2                                  | 6   |
| 1011   |  | 9                      | 37                                    | 9                                  | 37  |
| 1010   |  | Nil.                   | Nil.                                  | Nil.                               | Nil.  |
| Number of Public Latrines demolished du<br>year:—  |  | 2111.                  | 2111                                  | 2111                               | 21111   |
| 1010   |  | 1                      | 3                                     | 1                                  | 3   |
| 1011   |  | Nil.                   | Nil.                                  | Nil.                               | Nil.  |
| 1010   |  | Nil.                   | Nil.                                  | Nil.                               | Nil.  |
|  |  |                        |                                       |                                    |   |
| April 2013   | Carl Street                                  |                        |                                       |                                    |   |
|  |  |                        | 1910,                                 | 1911.                              | 1912.   |
| Number of Private Latrines<br>Average number of pails of nightsoil remov   |  |                        | 1910,<br>500<br>200                   | 1911.<br>530<br>149-3              | 750*<br>300   |
| Average number of pails of nightsoil remove<br>Average number of soiled pails remove   | ved daily                                    |                        | 500<br>200                            | 530<br>149·3                       | 750*<br>300   |
| Average number of pails of nightsoil remove<br>Average number of soiled pails remove<br>substituted  | ved daily<br>ed and cl                       | ean pails              | 500                                   | 530                                | 750*<br>300<br>300  |
| Average number of pails of nightsoil remove<br>Average number of soiled pails remove   | ved daily<br>ed and cl                       | ean pails              | 500<br>200                            | 530<br>149·3                       | 750*<br>300<br>300<br>14<br>Govt.                                       |
| Average number of pails of nightsoil remove<br>Average number of soiled pails remove<br>substituted<br>Number of nightsoil men employed to clean   | ved daily<br>ed and cl<br><br>n latrines a   | ean pails              | 500<br>200<br>106                     | 530<br>149·3<br>200                | 750*<br>300<br>300<br>14<br>Govt.<br>200<br>(private                    |
| Average number of pails of nightsoil removes Average number of soiled pails removes substituted  Number of nightsoil men employed to clear excreta  Number of cesspools                    | ved daily<br>ed and cl<br><br>n latrines a   | ean pails<br>nd remove | 500<br>200<br>106<br>} 5<br>450       | 530<br>149·3<br>200<br>11 {<br>- { | 750*<br>300<br>300<br>14<br>Govt.<br>200<br>(private<br>unknown         |
| Average number of pails of nightsoil remove Average number of soiled pails remove substituted  Number of nightsoil men employed to clear excreta  Number of cesspools  Number of cesspools | ved daily<br>ed and cl<br><br><br>           | ean pails              | 500<br>200<br>106<br>} 5<br>450<br>25 | 530<br>149·3<br>200<br>11 {<br>- { | 750*<br>300<br>300<br>14<br>Govt.<br>200<br>(private<br>unknown<br>Nil. |
| Average number of pails of nightsoil removes Average number of soiled pails removes substituted  Number of nightsoil men employed to clear excreta  Number of cesspools                    | ved daily ed and cl n latrines a ng the year | ean pails              | 500<br>200<br>106<br>} 5<br>450       | 530<br>149·3<br>200<br>11 {<br>- { | 750*<br>300<br>300<br>14<br>Govt.<br>200<br>(private<br>unknown         |

\*Approximate.

#### 9. REMOVAL OF REFUSE.

| The state of the s | 1910. | 1911.                        | 1912,    |
|--|-------|------------------------------|----------|
| Sumber of dustbins   | 500   | 500 in yards 4 public street | 500<br>4 |
| Sumber of carts at work daily to remove refuse from streets  | 1     | 1                            | 1        |
| Amount of refuse removed daily   | 6     | 5                            | 10       |
| Sumber of carts at work daily to remove refuse from yards and  |       | 1 1 1 1 1                    |          |
| premises   | 2     | 6                            | 4        |
|  | 14    | 30                           | 40       |
| Amount of refuse removed daily from yards and premises   | A T   |                              |          |

10. Mode of Disposal of Excreta, Refuse, and Offal.

|                                       | Daily average<br>number of pails<br>of excreta. |       |       | Daily average<br>number of cartloads<br>of refuse. |       |       | Daily average number<br>of cartloads of Slaughter<br>House and Market Offal. |       |       |
|---------------------------------------|---|-------|-------|--|-------|-------|--|-------|-------|
|                                       | 1910.   | 1911. | 1912. | 1910.  | 1911. | 1912. | 1910.  | 1911. | 1912. |
| Buried or trenched<br>Burnt           | <br>_   | =     | =     | 20   | 6 29  | 6 44  | =  | =     | =     |
| Thrown into sea *Otherwise dealt with | <br>120   | 200   | 300   | =  | _     | =     | _  | =     | 2     |

<sup>\*</sup> State mode of disposal.

11. Average Daily Number of Cartloads of Tin Cans, Bottles, Broken Crockery, and other Incombustible Material Removed from Houses, Huts, and Compounds.

| 1910. | 1911. | 1912. |
|-------|-------|-------|
| 6     | 6     | 6     |

12. WATER SUPPLY.

| Nature of Water Supply.                               | 1910. | 1911. | 1912.       |
|---|-------|-------|-------------|
| Pipe-borne water :                                    |       |       | To a second |
| Source (river, lake, or spring) :-                    | Nil.  | Nil.  | Nil.        |
| Number of linear yards                                |       |       | 10000       |
| Number of stand-pipes along roads                     |       |       | Name of the |
| Number of stand-pipes in compounds and houses         |       |       |             |
| Wells:  |       |       | 1111        |
| Public:—  |       |       |             |
| Number  | 40    | 24    | 26          |
| Number with pumps protected against surface water and |       |       |             |
| mosquito-protected                                    | 20    | 24    | 26          |
| Private:-   |       | (     | Schedule    |
| Number  | 40    | - 3   | being       |
| Number protected against surface water and mosquito-  |       | 1     | made.       |
| protected   | 21    | -     | -           |
| Tanks:  |       |       |             |
| Public:—  | Nil.  | Nil.  | Nil.        |
| Number underground                                    |       |       |             |
| Number mosquito-protected and served by pumps         |       |       |             |
| Number above ground                                   |       |       |             |
| Number mosquito-protected                             |       |       |             |
| Number of 400 gallons capacity or less                |       |       |             |
| Number above 400 gallons                              |       |       |             |

| Nature of Water Su          | 1910.  | 1911. | 1912. |     |   |     |                    |
|-----------------------------|--------|-------|-------|-----|---|-----|--------------------|
| Tanks : —                   |        |       |       |     |   |     |                    |
| Private:-                   |        |       |       | -   |   |     | -                  |
| Number underground          |        |       |       | *** | - | 5   | 5                  |
| Number mosquito-protected   |        |       |       |     | - | 5   | 5                  |
| Number above ground         |        |       | ***   |     | - | -   | -                  |
| Number mosquito-protected   |        |       |       |     | - | -   | -                  |
| Number of 400 gallons capac | ity or | less  | ***   |     | - | 110 | 110                |
| Number above 400 gallons    |        |       |       |     | - | 12  | 12                 |
| Nature of tanks :-          |        |       |       |     |   |     | THE PARTY NAMED IN |
| Wood                        |        |       |       |     | - | -   | -                  |
| Iron                        |        |       |       |     | _ | 117 | 117                |
| Concrete                    |        |       |       |     | - | 777 | -                  |
| Barrels :                   |        |       |       |     | 3 |     | Unknown            |
| Number                      |        |       |       |     | _ | 155 | number             |
| Number mosquito-protected   |        | ***   |       |     | - | 155 | greatly            |

|                     | Natur    | re of drain | nage.  |          |         |        | Public.                        | Private.         |
|---------------------|----------|-------------|--------|----------|---------|--------|--------------------------------|------------------|
| Masonry drains :-   |          |             |        |          |         | es II  | ALL REAL PROPERTY.             | 1                |
| Lineal yards o      | f mason  | ry drains   | :      |          |         |        |                                |                  |
| 1910                |          |             |        |          |         |        |                                |                  |
| 1911                |          |             |        |          |         |        | 5,617                          |                  |
| 1912                |          |             |        |          |         |        |                                |                  |
| Lineal yards r      | econstru | cted dur    | ing th | e year   | :       |        |                                |                  |
| 1910                |          |             |        |          |         | ***    |                                |                  |
| 1911                |          |             |        |          |         |        | 161                            |                  |
| 1912                |          |             |        |          |         |        |                                |                  |
| Lineal yards r      | epaired  | during t    | he yes | r:-      |         |        |                                |                  |
| 1910                | ****     |             |        |          | ***     |        |                                |                  |
| 1911                | ***      | ***         |        |          |         |        | Nil.                           | 100              |
| 1912                | ****     |             |        |          |         |        |                                |                  |
| Lineal yards        | of new   | drains      | const  | ructed   | during  | the    |                                | Same as 1911     |
| year :              |          |             |        |          |         |        |                                | but about 1,000  |
| 1910                | ***      | ***         |        |          | ***     |        | Nil.                           | lineal yards of  |
| 1911                |          |             |        |          | ***     |        |                                | useless earth    |
| 1912                | ***      |             |        |          | ***     |        |                                | drains filled by |
| Earth drains or dit | ches:-   |             |        |          |         |        |                                | Board of Health  |
| Number of lin       | ear yard | is of dite  | hes cl | eaned:   | -       |        |                                | Doard of Heatti  |
| 1910                |          |             |        |          | ***     |        |                                |                  |
| 1911                |          |             |        |          |         |        | 9,433                          |                  |
| 1912                |          | ***         |        |          |         |        |                                |                  |
| Number of lin       | ear yard | is of dite  | hes du | ig and   | graded: | _      |                                |                  |
| 1910                |          |             |        |          |         |        |                                |                  |
| 1911                |          |             |        |          |         |        | All earth drains<br>made wider | 1                |
| 1912                |          |             |        |          |         |        |                                |                  |
| Average frequ       | ency of  | clearing    | ditche | es of gr |         | C. Pay | - Walter Barrier               | Comment of       |
| 1910                |          |             |        |          |         |        | Weekly during<br>the rains     | The state of     |
| 1911                |          |             |        |          |         |        |                                |                  |
| 1912                |          |             |        |          |         |        |                                |                  |

## 14. CLEARANCE OF UNDERGROWTH, LONG GRASS AND JUNGLE.

| -3.  | 1910.                | 1911.   | 1912.   |
|--|----------------------|---------|---|
| Number of square yards of weeds, grass, and vegetation cut and removed | } 50,000             | 200,000 | 200,000*                                      |
| Average frequency of clearance of rank vegetation on same area         | { Twice during rains | during  | Three times<br>between<br>May and<br>January. |

<sup>\*</sup> Approximately.

## 15. Excavations and Low-Lying Land.

|   | 1910.          | 1911.                 | 1912.   |
|---|----------------|-----------------------|---------|
| Number of pools and excavations                                 | large areas    |                       | same as |
| Number of excavations filled up                                 | 2711           | 88                    | 154     |
|   | 1,000 sq. yds. |                       |         |
| Number of pools, marshes, streams, &c., fish stocked            |                | all standing<br>water |         |
| Number of cubic yards of material used for filling up pools and | 20016          | 11/1/25               |         |
| excavations   | Nil.           | 500                   | 1.000*  |
| Number of persons fined for making new excavations              | Nil.           | Nil.                  | Nil.    |
| Average number of men daily employed in filling up pools, &c.   | 11             | 15                    | 10      |

## 16. OILING.

|  |          |           |        | 1910.                            | 1911.                         | 1912.  |
|--|----------|-----------|--------|----------------------------------|-------------------------------|--|
| Number of drains oiled<br>Number of pools and excavations oiled<br>Number of tanks and barrels oiled | <br>     |           |        | 14<br>4<br>emptied<br>frequently | all with fish<br>320*<br>Nil. | Very little<br>oiling done,<br>exertions<br>directed |
| Average number of men daily employe<br>and watertanks or barrels                                     | oiling d | lrains, p | pools, |                                  | 15                            | in fish<br>stocking.                                 |

#### 17. INSPECTIONS AND PROSECUTIONS.

|   | 1910. | 1911.  | 1912.     |
|---|-------|--------|-----------|
| Number of inspectors employed   | 3     | 3      | 4 average |
| Number of lots inspections  | 500   | 3,500* | 12,521    |
| Number of lots where larvæ were found                                       | 44%   | 50 %   | 622       |
| Number of notices served to remove conditions causing the breeding of larvæ | Nil.  | 173    | 250       |
| Number of persons fined for having mosquito larvæ on premises               | Nil.  | 25     | 9         |
| Number of notices served to remove insanitary conditions on premises        | 47    | 164    | 52        |
| Number of persons fined for not removing insanitary conditions after notice | 5     | 12     | 1         |
| Number of soda and aerated water factories inspected                        | 1:    | 1      | 1         |

\*Approximately.

To THE HON, SENIOR MEDICAL OFFICER.

SIR.

I have the honour to forward the following report on MacCarthy Island Hospital during my residence of between twelve and thirteen weeks, from 13th April till the 9th July, 1912.

- The Island of MacCarthy is situated 153 miles from Bathurst up the River Gambia.
   It is 6½ miles long, and 1¼ miles broad at its broadest part. The island is a low-lying one, a large part of which is submerged in the rainy season, and may be said to be an essentially unhealthy station for the greater part of the year.
- 2. The Town of MacCarthy consists of Government House, the Hospital, the Dispensary, the old Hospital, five European trading stations, and the adjacent native town. The station forms a natural collecting place for the ground nuts on their way down the river, and is, therefore, at the height of its activity from the beginning of November till the end of April. Up to this extent of the river there is sufficient water to allow of ocean-going steamers proceeding.
- The Hospital consists of four wards—a European ward, mosquito-proofed; a native female ward, mosquito-proofed; and two native male wards, one since mosquito-proofed.

It is a compact and convenient little Hospital, the chief drawback of which is the great heat the wards attain during the day and their capacity for retaining the heat.

The staff consists of one dispenser and dresser and one cook, the duties of the latter including the nursing of patients and the sweeping and keeping clean of the Hospital. His work is, therefore, occasionally excessive, and at other times practically nil, depending on the presence or absence of patients.

- 4. The Medical Officer's quarters are, at present, in Government House, a building in every way to be condemned as a residence from a sanitary point of view. It is built with the wrong aspect, both as regards the sun and the prevailing breeze; it has cellars under its entire extent, which harbour mosquitoes; it absorbs heat during the day, and retains that heat with an extraordinary tenacity during the night; it has a large loft overhead, which is the abode of countless bats and rats.
- 5. The Dispensary and Out-Patient Department are situated in the old Hospital—formerly under the charge of a native dispenser. The store for drugs, &c., is badly in need of improvement, consisting, as it does at present, of what is practically a cupboard attached to the Dispensary.
- During the time I was in charge of the station I treated 30 cases in the Hospital and 314 cases in the Out-Patient Department.
  - The cases treated in the Hospital were as follows:—

| Malarial fever      | <br> | <br> | 1                      |
|---------------------|------|------|------------------------|
| Variola (complete)  | <br> | <br> | 1 (Isolated)           |
| Dysentery           | <br> | <br> | 1                      |
| Sleeping sickness   | <br> | <br> | 1                      |
| Parasitic disease   | <br> | <br> | 1 (Filaria medinensis) |
| Myalgia             | <br> | <br> | 2                      |
| Alcoholic poisoning | <br> | <br> | 1                      |
| Debility            | <br> | <br> | 1                      |

| Inanition (due  | to ex | posure)              |         |          | WW. | 1 (Fatal)                  |
|-----------------|-------|----------------------|---------|----------|-----|----------------------------|
| Diseases of the | resp  | iratory              | system  |          |     | 5 to and hear Julipedit of |
| ,, ,,           | dige  | stive sy             | stem    |          |     | 2                          |
| ,, ,,           | circu | latory :             | system  | 0        |     | 1                          |
| ,, ,,           | orga  | organs of locomotion |         |          |     | 1 on delife ammoning       |
| ,, ,,           | skin  | and con              | nnectiv | e tissue |     | 4 Avendada brender         |
| Injuries        |       |                      |         |          |     | 6                          |
| Operations      |       |                      |         |          |     | 1 (Traumatic aneurism)     |
|                 |       |                      |         |          |     | The result of a wound.     |

All these cases made good recoveries, with the exception of the case of inanition, due to exposure and starvation, the man dying soon after admission to the Hospital.

8. The Variola case was admitted on the 1st of June, and every precaution possible taken to prevent the spread of the disease. The Travelling Commissioner was at once notified, and the disease traced to Tanoom, Upper Niani District, where it was found to be one of nine or ten cases. The town was isolated, and the Headman fined for failing to report the existence of the disease to the Travelling Commissioner.

On the Island of MacCarthy a native hut was built 150 yards from the Hospital, and the patient was kept strictly isolated in this hut.

A male attendant, who had had small-pox, was obtained after some difficulty, due to his having also to submit to strict isolation, at two shillings a day with rations.

I was enabled, however, to dismiss him after some days, all precautions being taken to obviate any risk of his disseminating the disease, as the patient's mother, who also had had small-pox, wished to nurse her son, and was content to receive only her rations from the Hospital, and to obey all orders as to her isolation, &c.

The patient was discharged on the 1st of July and sent back to his town. I caused all the bedding, clothes, &c., to be burnt, together with the hut, as there were no adequate means of properly disinfecting them. This was the last case of the epidemic at Tanoom or elsewhere.

- The cases of Filaria Medinensis, I have recently found out, probably came from the French Cassamance, and the people afflicted were merely strange farmers who had taken up their residence at Taba Nani, in Western Fulladu, during the ground-nut season.
- 10. Vaccinations.—I performed a few vaccinations in April, with about 90 per cent. of failures, the heat being too great for the conservation of the lymph, though I used it immediately on its arrival.

I was thus unable to vaccinate the few contacts to the case of Variola.

- 11. Meteorological.—The maximum shade temperatures for the months I was stationed at MacCarthy were: April, 110 deg. F.; May, 115 deg. F.; and June, 108 deg. F. The month of May is by far the hottest month in the year, both day and night temperatures being particularly high. The temperature falls in June, due no doubt to the commencement of the rainy season, which is earlier in MacCarthy Island than at Bathurst.
- 12. Mosquitoes.—The town of MacCarthy is particularly plagued by mosquitoes, the Stegomyia Fasciata being prevalent in the day time, and the Pyretophorus Costalis (Anopheline) by night. So bad indeed was the latter pest in the Hospital as to totally preclude the possibility of sleep in the native male wards at night. I therefore recommended that one of the two male native wards should be mosquito-proofed to obviate this condition of affairs.
- 13. Sleeping Sickness.—I had only one case of this disease under my care during my stay in MacCarthy. The patient was a man of about 35 years of age, and was in a very advanced condition when I first saw him. However, under periodic intramuscular injections

of soamin he showed marked improvement both physically and intellectually when I left the Hospital, and has since been discharged. I am inclined to think that cases of Gambian sleeping sickness are very amenable to treatment, but it is impossible to say how long this apparent cure lasts. I know of cases, in which Dr. Todd demonstrated the presence of trypanosomes, which are apparently well and healthy without having been under any treatment whatsoever.

14. The Out-Patient Department.—A large proportion of the cases were of a trivial nature, ulcers, bronchial cases, diseases of the digestive system, venereal diseases and wounds predominating. The cases of malarial fever were only 3.5 per cent. of the total cases, but this, as usual, would show a very great increase in the months of August and October. I left MacCarthy Island for Bathurst on the 9th of July.

I have the honour to be,

Sir.

Your obedient servant,

(Signed) JOHN A. HARLEY, Medical Officer.

TENNENG FARA, 1st March, 1913.

# RETURNS.

| MEDICAL STAFF.           | TABI | LE I. |                               |
|--------------------------|------|-------|-------------------------------|
| Dr. E. A. Chartres       |      |       | Senior Medical Officer.       |
| Dr. J. C. Franklin       |      |       | Medical Officer.              |
| Dr. E. Hopkinson, D.S.O. |      |       | Protectorate Medical Officer. |
| Dr. J. A. Harley         |      |       | Medical Officer.              |
| Dr. A. F. Kennedy        | ***  |       | Medical Officer.              |
| Dr. F. V. C. Thompson    | ***  |       | Medical Officer.              |
| Dr. S. L. Brohier        |      |       | Medical Officer               |

# PRINCIPAL MEMBERS OF THE SUBORDINATE STAFF.

| Sister Joseph Mary   |   | *** | Nursing Sister.  |
|----------------------|---|-----|--|
| Sister Mary Veronica |   |     | do.  |
| Sister Mary Alex     |   |     | do.  |
| Sister Mary Herbert  |   |     | do.  |
| Mr. W. S. Smart      |   |     | Chief Dispenser.   |
| Mr. C. Shaw          |   |     | Clerk, Storekeeper and Steward.                              |
| Mr. J. F. Johnson    |   |     | Assistant Dispenser.   |
| Mr. J. S. Kennedy    |   |     | do.  |
| Mr. E. W. Johns      |   |     | Assistant Clerk, Storekeeper and Steward.                    |
| Mr. A. C. Tudor      | 7 |     | Second Assistant Dresser.                                    |
| Mr. S. B. Palmer     |   |     | Third do.  |
| Mr. T. D. Johnson    |   |     | Senior Native Nurse.   |
| Mr. A. C. Briggsman  |   |     | Assistant Native Nurse.                                      |
| Mr. D. Senghore      |   |     | do.  |
| Mr. M. Jobe          |   |     | do.  |
| Mr. G. A. Sanders    |   |     | Attendant in charge of the Home for Afflicted and Destitute. |
| Mr. J. Dunean        |   |     | Attendant in charge of the Infectious Diseases Hospital.     |
| Mr. S. C. Gillen     |   |     | Apprentice in Dispensary.                                    |
| Mr. J. F. Jagne      |   |     | do.  |
| Miss E. Miller       |   |     | Apprentice in Nursing.                                       |
| Miss M. M. Thomas    |   |     | do.  |
| Mr. E. Njie          |   |     | Cook.  |
|                      |   |     |  |

|            |     | APPOINTMEN        | 116.                       |
|------------|-----|-------------------|----------------------------|
| Date.      |     | Name.             | - Rank.                    |
| January 1  |     | S, B, Palmer      | Third Assistant Dispenser. |
| ,, 16      |     | S. C. Gillen      |                            |
| ,, 20      |     | J. F. Jagne       |                            |
| March 19   |     | L. Owens          |                            |
| May 25     |     | F. V. C. Thompson |                            |
| August 1   | *** | M. B. Jagne       |                            |
| November 1 |     | S. C. Gillen      |                            |
| ,, 23      |     | S. L. Brohier     |                            |
| ,, 23      |     | B. E. Nicol       | Correspondence Clerk.      |
| December 3 |     | B. J. Tebbs       | Ward Servant.              |
| ,, 3       |     | U. R. Crown       | do.                        |

## LEAVE OF ABSENCE.

|  | LEAVE  | OF ABSENCE.  | THE RESERVE OF THE PARTY OF THE |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| Date.  | Name.  | Rank.  | Leave.   |  |  |  |  |  |
| February 8 April 9  May 7  July 4  , 8  August 8  September 3  November 1  | J. C. Franklin J. Duncan  E. Hopkinson  A. F. Kennedy  A. C. Briggsman J. A. Harley S. B. Palmer J. S. Kennedy | Medical Officer  |  |  |  |  |  |  |
|  | EXTENSI  | ON OF LEAVE.   | THE TRANSPORT  |  |  |  |  |  |
| Date.  | Name.  | Hank.  | Leave.   |  |  |  |  |  |
| January 15<br>November 25  | J. F. Johnson<br>A. F. Kennedy   | 35 1/ 1 0 m 2 TT 1/1   | 7 days.<br>7 weeks.  |  |  |  |  |  |
|  | RESUMP   | TION OF DUTY.  | 8.19.21£   |  |  |  |  |  |
| Date.  | Name.  | Rank.  | e Table  |  |  |  |  |  |
| January 22 23 April 23 June 21 July 22 September 18 November 29 December 1 | J. A. Harley<br>J. S. Kennedy  | Assistant Dispenser Nurse Attendant, Infectious D Medical Officer Assistant Native Nurse Third Assistant Dispense Medical Officer Assistant Dispenser. | L. L. Call   |  |  |  |  |  |
|  | TI   | RANSFER.   | 17.00  |  |  |  |  |  |
| Date.  | Name.  | Rank.  | Remarks.   |  |  |  |  |  |
| November 1   | A. F. Kennedy  M. B. Jagne  E. Hopkinson   | Correspondence Clerk   | To Board of Health Department. To P.W. Department. To Protectorate Department.   |  |  |  |  |  |
|  | TERMINATION  | OF APPOINTMENTS.   | and designation  |  |  |  |  |  |
| Date.  | Name.  | Rank.  | Remarks.   |  |  |  |  |  |
| March 20 April 1 , 19 May 1 , 17 September 1 May 1 December 31             | E. Miller M. M. Thomas A. C. Tudor B. Fall  D. Senghore T. D. Johnson L. Owens J. Mary M. Alex M. Veronica     | Assistant Dispenser Pantryman and Assistant Cook Assistant Native Nurse Senior Native Nurse Female Apprentice  | Dismissed. Terminated. Dismissed. Resigned. "" "" Terminated.  |  |  |  |  |  |
| ,,   | M. Herbert   | ,,   | "  |  |  |  |  |  |

# TABLE II.

# FINANCIAL.

# MEDICAL DEPARTMENT.

# EXPENDITURE.

|  | 1 2        | imate   | 74.     | Actual.    |     |          |
|--|------------|---------|---------|------------|-----|----------|
| Personal Emoluments                        | £<br>4,398 | s.<br>0 | d.<br>0 | £<br>4,051 |     | d.<br>11 |
| OTHER CHARGES.                             | 100        |         |         |            |     |          |
| Travelling allowance to Medical Officer in | 10.0       |         |         |            |     |          |
| the Protectorate                           | 120        | 0       | 0       | 55         | 0   | 0        |
| Maintenance of Sick                        | 513        | 0       | 0       | 518        | 19  | 5        |
| Washing                                    | 70         | 0       | 0       | 54         | 19  | 5        |
| Fuel                                       | 32         | 0       | 0       | 30         |     |          |
| Sundries                                   | 85         | 0       | 0       | 83         |     | 2        |
| Medicines, Dressings and Medical Comforts  | 300        | 0       | 0       | 256        | -   | 11       |
| Expenses of Burials                        | 16         | 0       | 0       |            | 15  | 4        |
| Vaccinations                               | 150        | 0       | 0       |            | 17  | 7        |
| Infectious Diseases Hospital               | 23         | 0       | 0       | 22         |     | 0        |
| Maintenance of Lunatics (Sierra Leone)     |            |         | Õ       | 102        |     | 1        |
| Purchase of, and Repairs to, Instruments   |            | 0       | o o     | 41         | 1   | 11       |
| Medical Library                            | 10         | 0       | o o     | 5          | -   | 7        |
| Horse Allowance to Senior Medical Officer, |            |         |         | -          |     |          |
| three Medical Officers and Nursing         |            |         |         |            |     |          |
| Sisters at 2s. 3d. per day each            | 162        | 0       | 0       | 159        | 19  | 6        |
| Uniforms for Attendants                    | 0.0        | 0       | o o     | 29         |     | 8        |
| Equipment for new Hospital at MacCarthy    | -          |         |         | -          |     |          |
| Island                                     | 100        | 0       | 0       | 99         | 10  | 0        |
| Passages for Officers and Sisters          | 224        | 0       | 0       | 275        | -   | 1        |
| Fees for Special Course of Instruction to  | WAY.       |         |         | 210        | *** | -        |
| Medical Officers in England                | 20         | 0       | 0       | -          |     |          |
| Maintenance of Destitute Home              | 164        | 0       | 0       | 69         | 9   | 0        |
| Preliminary expenses in connection with    | 101        |         | 0       | 02         |     |          |
| appointment of new Medical Officer         |            | _       |         | 236        | 19  | 10       |
| Outfit Allowsmoon to Numer                 |            |         |         | 27         | 5   | 1        |
| Outlit Allowances to Nurses                |            |         |         |            |     |          |
| TOTAL                                      | £6,660     | 0       | 0       | £6,222     | 19  | 4        |

## RECEIPTS.

| Details.                                  | Estimated. | Actual.             | Delinite. |
|---|------------|---------------------|-----------|
| Maintenance of Sick and Sale of Medicines | £ s. d.    | £ s. d.<br>116 12 1 |           |

# TABLE IIA.

## FINANCIAL.

## BOARD OF HEALTH.

| Miscellaneous Receipts Cost of Summonses recovered from Rate Defaulters Do. do. under Public Health Ordinance Sale of Old Stores Coverdrawn Wages Forfeited Wages (through deser-   | 7 13<br>9 0<br>5 15                      | 1<br>0<br>0<br>6<br>6<br>7 | Town Warden  | 0 1 0 7 6 1       | s. 4<br>3<br>0<br>0<br>0<br>6 | d. 4900006 |
|---|--|----------------------------|--|-------------------|-------------------------------|------------|
| Grant in Aid 1,813 Local Rates 693 Slaughter-house Fees 85 Fines upon Employees   | 9 0<br>5 15<br>9 11<br>3 1<br>5 5<br>5 6 | 0 0 6 6 7 0                | Horse Allowance       2         Market Clerk       5         Clerk to Board       1         Inspector of Nuisances       6         Assistant Inspector of Nuisances       5         Uniforms       2         Tools       6 | 6 1               | 3 0 0 0 0 6                   | 9000       |
| Grant in Aid 1,813 Local Rates 693 Slaughter-house Fees 85 Fines upon Employees   | 5 15<br>9 11<br>3 1<br>5 5<br>5 6        | 0 6 6 7 0                  | Market Clerk           5           Clerk to Board           1           Inspector of Nuisances          6           Assistant Inspector of Nuisances         5            Uniforms           2           Tools           6 | 0 1<br>0 7<br>6 1 | 0 0 0 0 6                     | 000        |
| Local Rates 698 Slaughter-house Fees 885 Fines upon Employees   | 5 15<br>9 11<br>3 1<br>5 5<br>5 6        | 6 6 7 0                    | Clerk to Board           1           Inspector of Nuisances          6           Assistant Inspector of Nuisances         5           Uniforms             Tools   | 0 1 6 1           | 0 0 0 6                       | 0          |
| Slaughter-house Fees 8: Fines upon Employees Miscellaneous Receipts Cost of Summonses recovered from Rate Defaulters Do. do. under Public Health Ordinance Sale of Old Stores Overdrawn Wages Forfeited Wages (through desertion) | 3 1<br>5 5<br>5 6                        | 6 7 0                      | Clerk to Board         1         Inspector of Nuisances        6         Assistant Inspector of Nuisances       5         Uniforms           Tools           6   | 0<br>7<br>6 1     | 0 0 6                         | 0          |
| Fines upon Employees Miscellaneous Receipts Cost of Summonses recovered from Rate Defaulters Do. do. under Public Health Ordinance Sale of Old Stores Overdrawn Wages Forfeited Wages (through desertion)                         | 5 5<br>5 6<br>1 12                       | 7 0                        | Assistant Inspector of Nuisances 5 Uniforms 2 Tools 6  | 6 1               | 0                             | -          |
| Miscellaneous Receipts Cost of Summonses recovered from Rate Defaulters Do. do. under Public Health Ordinance Sale of Old Stores Overdrawn Wages Forfeited Wages (through desertion)  | 5 5<br>5 6<br>1 12                       | 0                          | Assistant Inspector of Nuisances 5 Uniforms 2 Tools 6  | 6 1               | 6                             | 0          |
| Cost of Summonses recovered from Rate Defaulters Do. do. under Public Health Ordinance Sale of Old Stores Overdrawn Wages Forfeited Wages (through desertion)   | 1 12                                     | 100                        | Uniforms 2<br>Tools 6  | 6 1               | 6                             | 6          |
| Rate Defaulters  Do. do. under Public Health Ordinance  Sale of Old Stores  Overdrawn Wages  Forfeited Wages (through desertion)  | 1 12                                     | 100                        | Tools 6  |                   |                               |            |
| Do. do. under Public Health Ordinance Sale of Old Stores Overdrawn Wages Forfeited Wages (through desertion)  |  | 0                          |  |                   | 3                             | 11         |
| Ordinance Sale of Old Stores Overdrawn Wages Forfeited Wages (through desertion)  |  | 0                          |  | 8                 | 7                             | 8          |
| Sale of Old Stores Overdrawn Wages Forfeited Wages (through desertion)  |  |                            | Street Lights 16   |                   | 7                             | 7          |
| Overdrawn Wages Forfeited Wages (through desertion)   |  | 9                          | Cleaning Streets and Drains 46   | 7 1               | 9                             | 5          |
| Forfeited Wages (through deser-<br>tion)  | 0 5                                      | 11                         | Sanitary Pail Service 17   | 2 1               | 3                             | 3          |
| tion)   |  | 1000                       |  | 2 1               | 5                             | 10         |
|   | 7 15                                     | 11                         | Commission on Slaughter-house  |                   |                               |            |
|   |  | 1000                       | Fees   | 8 1               | 8                             | 4          |
| to England 228  | 8 7                                      | 3                          | Miscellaneous  | 8 1               | 7                             | 1          |
| Adjustments between Board of  |  | 177                        | Crude Oils and Disinfectants 20  | 7                 | 3                             | 2          |
|   | 0 11                                     | 2                          | Antimosquito Labourers 23  | 1                 | 1                             | 11         |
|   |  |                            | Passages, 1 Officer 3  | 7 1               | 3                             | 6          |
|   |  |                            | Sanitary Inspectors 7  | 9                 | 8                             | 4          |
|   |  |                            | Public Latrines 19   | 1                 | 6                             | 11         |
|   |  | 100                        | Summonses, Rate Defaulters   | 8 1               | 0                             | 0          |
|   |  |                            | Do. under Public Health  |                   |                               |            |
|   |  | 100                        | Ordinance  | 1 1               | 4                             | 0          |
|   |  |                            | Purchase of Typewriter 1   | 4 1               | 5                             | 9          |
|   |  |                            |  | 0 1               | 2                             | 0          |
|   |  |                            | Balance 31   |                   |                               | 5          |
| £2,903  | 5 10                                     | 8                          | £2,90  | 5 1               | 0                             | 8          |
| 22,000  | 10                                       |                            | 22,00  | - 1               | -                             | 9          |

# TABLE III.

# RETURN OF STATISTICS OF POPULATION FOR THE YEAR 1912.

# BATHURST, GAMBIA.

|   | Europeans<br>and<br>Whites. | Africans<br>and other<br>Races. | Mixed<br>and<br>Coloured |   |
|---|-----------------------------|---------------------------------|--------------------------|---|
| Number of Inhabitants in 1912 (Census 1911) |                             | 230*                            | 7,470                    | - |
| " Births during the year 1912               |                             | _                               | 303                      | - |
| " Deaths " " 1912                           |                             | 2                               | 334                      | _ |
| " Immigrants " " 1912                       |                             |                                 |                          | W |
| " Emigrants " " 1912                        |                             | _                               |                          | _ |
| Number of Inhabitants in 1911               |                             | 230                             | 7,470                    | _ |
| Increase or                                 |                             |                                 | .,                       | _ |
| Decrease                                    |                             | 2                               | 31                       | _ |

TABLE IV.

# METEOROLOGICAL RETURN FOR THE YEAR 1912.—BATHURST.

|           |   |                           | 100                    |                        | Temperat | ures. |                   | Rainfall.         | Winds,    |  |
|-----------|---|---------------------------|------------------------|------------------------|----------|-------|-------------------|-------------------|-----------|--|
| Months.   |   | Mini-<br>mum on<br>grass. | Shade<br>maxi-<br>mum. | Shade<br>mini-<br>mum. | Range.   | Mean. | Amount in inches. | General Direction |           |  |
| January   |   |                           | 48                     | 94                     | 60       | 34    | 77-0              | _                 | East.     |  |
| February  |   |                           | 50                     | 101                    | 60       | 41    | 80.5              | -                 | North.    |  |
| March     |   |                           | 45                     | 104                    | 63       | 41    | 83.5              | -                 | ,,        |  |
| April     |   |                           | 45                     | 98                     | 59       | 39    | 78.5              | _                 | ,,        |  |
| May       |   |                           | 50                     | 94                     | 65       | 29    | 79-5              | -                 | 11        |  |
| June      |   |                           | 46                     | 95                     | 67       | 28    | 81-0              | 1.72              | Variable. |  |
| July      |   |                           | 50                     | 92                     | 72       | 20    | 82-0              | 5.95              | ,,        |  |
| August    |   |                           | 52                     | 89                     | 70       | 29    | 79.5              | 13.24             | 11        |  |
| September |   |                           | 68                     | 90                     | 71       | 19    | 80.5              | 9.89              | "         |  |
| October   |   |                           | 67                     | 92                     | 73       | 19    | 82.5              | 3.19              | "         |  |
| November  |   |                           | 58                     | 90                     | 70       | 27    | 83.5              | _                 | East.     |  |
| December  |   |                           | 49                     | 93                     | 58       | 35    | 75.5              | -                 | "         |  |
| TOTAL     |   |                           | 628                    | 1,132                  | 788      | 361   | 963-5             | 33-99             | -         |  |
| Averag    | E |                           | 52.3                   | 94.3                   | 65-6     | 30.1  | 80-3              | _                 |           |  |

# TABLE V.

# VICTORIA HOSPITAL, BATHURST.

RETURN OF DISEASES AND DEATHS (IN-PATIENTS) FOR THE YEAR 1912.

| Diseases   |  |           |  |     |      | Remain-               | Yearly           | Total.    | maria   | Remain-               |  |
|--|--|-----------|--|-----|------|-----------------------|------------------|-----------|---------|-----------------------|--|
| Beri-Fieri   |  | Diseas    | es.  |     |      | Hospital<br>at end of | Ad-<br>missions. | Deaths.   | Cases   | Hospital<br>at end of |  |
| Beri-Beri  | INFE   | CTIVE     | DISEAS   | ES. |      |                       |                  |           |         |                       |  |
| Cerebro Spinal Fever   | Dani Dani  |           |  |     |      |                       | -                | _         | -       | -                     |  |
| Chicken-Pox  |  |           |  |     |      |                       | -                | -         | -       | -                     |  |
| Cholera  | COLL TO  |           |  |     |      | ***                   | -                | -         | -       | -                     |  |
| Diphtheria   | Cholera  |           |  |     |      | -                     | _                | _         | _       | -                     |  |
| Dysentery  | Dengue   |           |  |     |      | -                     | -                | -         | -       | -                     |  |
| Entorie  | Diphtheria .   |           |  | *** |      | -                     |                  | -         | -       | -                     |  |
| Enteric  |  |           |  | *** |      | -                     | 10               | 1         | 10      | -                     |  |
| Erysipelas Gonorrhea Gonorrhea Influenza Influ   |  | nfective  | ***  |     |      | -                     | -                |           | -       | -                     |  |
| Gonorrhea  |  |           |  | *** | ***  | -                     | -                | El        |         | -                     |  |
| Influenza  | Carl Carlot Control Carlot Car |           |  |     |      | 1 100                 | 10               |           | 10      | 72.00                 |  |
| Kala Azar  |  |           | •  |     |      |                       |                  | -         |         |                       |  |
| Leprosy (a) Nodular  |  |           |  |     |      | 1                     |                  |           | 100000  | 30 33                 |  |
| (b) Anesthetic   |  |           |  |     |      |                       |                  |           |         |                       |  |
| Malaria (a) Tertian       — 19       — 19       — — — — — — — — — — — — — — — — — — —  |  |           |  |     |      | 103                   |                  | 1         |         | 13.13.                |  |
| (b) Quartan (c) Acstivo-autumnal (d) Chronic Malaria   | 25 2 1 1 6 00  |           |  |     |      |                       |                  | _         | 19      |                       |  |
| (c) Acetivo-autumnal (d) Chronic Malaria.  | int a  |           |  |     |      |                       |                  |           | 1976    | 112                   |  |
| (d) Chronic Malaria.       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       2       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       4        4       4       4       4       4       4       4       4       4       4       4       4       4       4       4        4       4       4       4       4       4       4       4       4       4       4       4       4       4       4        4 <td></td> <td></td> <td>The state of the s</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1000</td> <td>-</td> <td></td> |  |           | The state of the s |     |      |                       |                  |           | 1000    | -                     |  |
| (e) Black water (f) Quotidian  |  |           |  |     |      |                       |                  | 2         | 10000   | 100                   |  |
| Measles  |  |           |  |     |      | 1 1 1 1 1 1 1         |                  | 1000      |         |                       |  |
| Measles         —  |  |           |  |     |      | 100000                |                  | _         | 1000000 |                       |  |
| Mediterranean Fever       —  | Massles  |           |  |     |      | _                     | _                | -         | -       | -                     |  |
| Plague   |  |           |  |     |      | _                     | _                | -         | -       | -                     |  |
| Pneumonia  |  |           |  |     |      | -                     | -                | -         | -       | -                     |  |
| Relapsing Fever       — — — — — — — — — — — — — — — — — — —  | D  |           |  |     |      | 1                     | 23               | 2         | 24      | 1                     |  |
| Rheumatism   | Rabies   |           |  |     |      |                       | -                | -         | -       | -                     |  |
| Rheumatic Fever  | Relapsing Feve   | r         |  |     |      | -                     | -                | -         | -       | -                     |  |
| Septicemia   |  |           |  |     | ***  | -                     | 47               | -         | 47      | -                     |  |
| Trypanosomiasis (Sleeping Sickness) 1 1  | Rheumatic Fev  | er        |  |     |      | -                     | 1000             | 100       | 17000   | -                     |  |
| Small-Pox       —  |  |           |  |     | ***  | -                     |                  | 1         |         | -                     |  |
| Syphilis (a) Primary       — <td></td> <td>s (Sleepu</td> <td></td> <td>88)</td> <td>***</td> <td>10000</td> <td>1</td> <td>17000</td> <td></td> <td></td> <td></td>   |  | s (Sleepu |  | 88) | ***  | 10000                 | 1                | 17000     |         |                       |  |
| (b) Secondary (c) Inherited (c) Inherited (d) Inherited (e) Inherited (e) Inherited (f) Inherited (f   |  |           |  | *** | ***  | -                     | -                | 1000      | -       | -                     |  |
| Tetanus  |  |           |  | *** | ***  |                       | 777              |           | 73      |                       |  |
| Tetanus  |  |           |  | *** |      | 1000                  | -                |           | 1000    | 100000                |  |
| Tuberculosis   |  |           |  |     |      | _                     | - 0              | 14.75-073 | 168     |                       |  |
| Whooping Cough         —   | FF-112-  |           |  |     |      |                       |                  | - 333     |         | 1000000               |  |
| Yaws   |  |           |  |     |      |                       |                  |           | 1000    |                       |  |
| Yellow Fever   | 37   |           |  |     |      | 622.5                 | 3037             |           | 2000    | 100                   |  |
| Alcoholism   | 37 11 77   |           |  |     |      | 100                   |                  | 1000      | 5000    | 100000                |  |
| Alcoholism   | 201011 20101 .   |           |  |     | •••  |                       |                  |           |         |                       |  |
| Morphinism   | IN   | TOXIC     | ATIONS.  |     |      |                       |                  | 1000      |         | 190                   |  |
| Morphinism   | Alcoholism .   |           |  |     |      | _                     | 2                | -         | 2       | -                     |  |
| Others   |  |           |  |     |      | -                     |                  | -         |         | -                     |  |
| Ansemia  | Others   |           |  |     |      | -                     | -                | -         |         | -                     |  |
| Anæmia   | Delirium Treme   | ens       |  |     | ***  | -                     | 1                | -         | 1       | -                     |  |
| Anæmia—Pernicious  | GEN  | ERAL I    | DISEASI  | ES. |      |                       |                  | 1         |         |                       |  |
| Anæmia—Pernicious  | Anomic   |           |  |     |      |                       |                  |           | 4       | The same              |  |
| Diabetes   |  |           |  |     |      | -                     | 4                |           | 4       | No.                   |  |
| Exophthalmic Goitre  | 731 1  |           |  |     |      |                       |                  |           |         | -                     |  |
| Gout   |  |           |  |     |      | 200                   |                  |           | 1       | 100                   |  |
| Leucocythsemia   |  |           |  |     |      |                       |                  |           |         |                       |  |
| Hodgkin's Disease  |  |           |  |     |      |                       | 920              |           |         |                       |  |
| Myxosdema  |  |           |  |     |      |                       |                  |           |         |                       |  |
| Carried forward 9 195 7 197 1  |  |           |  |     |      | -                     |                  |           |         |                       |  |
| Carried forward 2 185 7 187 1  |  |           |  |     |      |                       |                  |           |         |                       |  |
|  |  | Carried   | forward  |     | 1000 | 2                     | 185              | 7         | 187     | 1                     |  |

RETURN OF DISEASES AND DEATHS (IN-PATIENTS) FOR THE YEAR 1912-continued.

|                               | Die       | eases.  |        |        |     | Remain-<br>ing in<br>Hospital | Yearly          | Total,  | Total<br>Cases | Remain-<br>ing in<br>Hospital | Remarks  |
|-------------------------------|-----------|---------|--------|--------|-----|-------------------------------|-----------------|---------|----------------|-------------------------------|--|
|                               |           |         |        |        |     | at end of                     | Ad-<br>missions | Deaths. |                | at end of<br>1912.            |  |
|                               | Brough    | at forw | ard    | ***    |     | 2                             | 185             | 7       | 187            | 1                             |  |
| GENER                         | AL DISI   |         |        | nued.  |     |                               |                 |         |                |                               |  |
| urpura                        |           |         | ***    |        | *** | -                             | -               | -       | -              | -                             |  |
| lickets                       |           | ***     |        | ***    | *** | -01                           | -               | 1       | -              | -                             |  |
| curvy                         |           | ***     | ***    | ***    | *** | -                             | -               | -       | -              | -                             |  |
| ebility                       | ***       | ***     | ***    |        | *** | _                             | 5               | 2       | 5              |                               |  |
| yst                           |           | ***     | ***    | ***    | *** | 1 - 12                        |                 | 0,000   |                | 2000                          |  |
| L                             | OCAL      | DISE.   | ASES.  |        |     |                               |                 |         | 72             |                               |  |
| DISEASES                      | OF THE    | NER     | vous S | YSTEM. |     | -                             |                 |         |                |                               |  |
|                               |           | ection  |        |        |     |                               |                 |         |                | marie                         |  |
| Veuritis                      |           |         |        |        |     | -                             | 1               | _       | 1              | -                             |  |
| feningitis .                  |           |         |        |        |     | -                             | -               | -       | -              | -                             |  |
| Tyelitis                      |           | ***     | ***    |        | *** | -                             | -               | -       | -              | 10-                           |  |
| Lydrocephal                   |           | ***     | ***    | ***    |     | -                             | -               | -       | -              | -                             |  |
| Encephalitis  Abscess of I    | Brain     | ***     |        | ***    |     |                               |                 | _       |                |                               |  |
| Congestion of                 |           |         |        | ***    | *** | -                             | _               |         | _              | _                             |  |
| Convulsion                    |           |         |        |        |     | -                             | 2               | 1       | 2              | _                             |  |
|                               |           |         |        |        |     | - Interes                     | To The last     |         | 1              |                               |  |
|                               | Sub-s     | ection  | 2.     |        |     | 1                             | 1               | 1       |                |                               |  |
| Apoplexy                      | **        | ***     | ****   | ***    | *** | -                             | 1               | 1       | 1              |                               |  |
| Paralysis<br>Chorea           |           | ***     |        | =      |     |                               | _               |         | -              |                               |  |
| Epilepsy                      |           | ***     |        |        |     |                               | 3               | -       | 3              | -                             |  |
| Neuralgia                     |           |         |        | ***    |     | -                             | 2               | -       | 2              | -                             |  |
| Hysteria                      | ***       | ***     |        | ***    | *** |                               | -               | -       | -              | -                             |  |
| Mental I                      | Dicenner  | Subs    | ection | 3      |     | 1                             | -               |         | 100            | Will be                       | martine 1  |
| Idiocy                        | Jiseases- | -Sub-s  | ection | 0.     |     | _                             |                 | -       | -              | _                             | - 2792   |
| Mania                         |           |         |        |        |     |                               | -               | -       | -              | -                             | - Firml  |
| Melancholia                   | ***       |         |        | ***    | *** |                               | -               | -       | -              | -                             | and and  |
| Dementia                      |           |         |        | ***    | *** | -                             | -               | -       | -              | -                             | The same of the sa |
| Delusional I                  | nsanity   | ***     | ***    | ***    | *** | -                             | -               | -       | -              | -                             | industrial of  |
| Diseases                      | of the E  | ye-     |        |        |     |                               | 100             |         | -              |                               | Hilliam and  |
| Conjunctivit                  |           |         |        | ***    | *** | 1                             | 8               | -       | 9              | -                             | callygat   |
| Keratitis                     |           |         |        | ***    | *** | -                             | 1               | -       | 1              | -                             |  |
| Ulceration o                  |           |         |        | ***    | *** | -                             | 1 2             | _       | 1 2            | _                             |  |
| Iritis<br>Optic Neuri         |           |         |        |        |     |                               |                 | _       |                |                               |  |
| Cataract                      |           |         |        | ***    |     | _                             | -               | -       | -              | _                             |  |
| Ophthalmia                    |           | ***     |        |        |     | -                             | 1               | -       | 1              | -                             |  |
|                               |           | 3       |        |        |     |                               |                 |         |                | 1                             |  |
| Diseases                      |           |         |        |        |     | -                             |                 | _       |                |                               |  |
| Inflammation<br>Other Disease |           |         |        | 300    | *** |                               |                 | -       |                | _                             | The same of  |
| Other Lylsca:                 |           | 100     | -      | 200    |     |                               | 100             | 1111    | 100            | 13300                         | O CONTRACTOR   |
| Diseases                      | of the N  | lose-   |        |        |     |                               | - No            | Insali  | -              | Hallon .                      | oller manage   |
| 704                           |           |         | - 6    |        |     |                               |                 |         | 100            |                               | DANGER TO  |
| Diseases                      |           |         |        |        |     | -                             | 1               | _       | 1              | _                             | District Total   |
| Pericarditis<br>Endocarditis  | · · · ·   | ***     | ***    | ***    |     | -                             | 1 -             | -       | 1              |                               |  |
| Valvular Mi                   |           |         | ***    | ***    |     | -                             | 3               | 2       | 3              | _                             | Ball or hard   |
| Aor                           |           |         |        | ***    | *** | -                             | -               | -       | -              | -                             | The state of   |
|                               | euspid    |         |        |        |     | -                             | -               | -       | -              | -                             |  |
| Pul                           | monary    | ***     | ***    | ***    | *** | _                             | -               | _       | -              | -                             |  |
| Arterial Sch<br>Angurism      |           |         | ***    |        | *** |                               |                 | -       | _              | _                             | 120110   |
| Abedrism                      |           |         | ***    | ***    |     |                               | 100             |         |                |                               | 17 THILLY  |
| Diseases                      | of the F  | Respira | tory S | ystem- | -   | 1                             |                 |         |                | 1                             | The state of the s |
| Laryngitis                    |           |         |        | ***    | *** | -                             | 07              | -       | 0.7            | -                             | 1  |
| Bronchitis                    |           |         |        | ***    | *** |                               | 27              | 3       | 27             | _                             |  |
|                               | 400       | ied for | -      |        |     | 3                             | 245             | 16      | 248            | 1                             |  |

RETURN OF DISEASES AND DEATHS (IN-PATIENTS) FOR THE YEAR 1912—continued.

|  |          |         |          |       |      | Remain-<br>ing in              |      | Total.  | Total<br>Cases | Remain-<br>ing in<br>Hospital | Remarks.               |
|--|----------|---------|----------|-------|------|--------------------------------|------|---------|----------------|-------------------------------|------------------------|
|  | Dia      | seases. |          |       |      | Hospital<br>at end of<br>1911. | 4.3  | Deaths. |                | at end of<br>1912.            | Totalar ass            |
|  | Brough   | at for  | ward     |       |      | 3                              | 245  | 16      | 248            | 1                             | CED .                  |
| LOCAL  | DISEA    | SES-    | continu  |       |      |                                |      | 100     |                |                               |                        |
| Diseases of  | the Re   | spirat  | tory Sys | tem-c | ont. |                                |      |         | 100            |                               |                        |
| Broncho-pneum  | onia     |         |          | ***   | ***  | -                              | 5    | 4       | 5              | -                             |                        |
| Abscess of Lun   |          |         |          |       |      | -                              |      | -       | -              |                               |                        |
| Gangrene of La   |          | ***     |          |       |      |                                | -    |         |                | 750                           |                        |
|  |          |         |          |       |      | -                              | -    | -       | -              |                               |                        |
| PAR STATE OF THE PARTY OF THE P |          |         | ***      |       |      | -                              | 4    | -       | 4              |                               |                        |
|  |          |         | ***      | ***   |      |                                | -    | 0.      | 8              | 1 50 1                        |                        |
| Bronchial Cata   | rrh      |         | ***      | ***   |      |                                | 8    | 170     | 1              |                               |                        |
| Pleurodyma   |          |         |          | ***   | ***  |                                | 1 2  | 2       | 2              | =                             |                        |
| Congestion of l  | Lungs    |         |          | ***   | ***  | -                              | 2    | 2       | -              |                               |                        |
|  |          | mostiv  | o System | m     |      |                                | 100  | 100     | 100            |                               |                        |
| Diseases of  |          |         |          |       |      |                                | 1    | -       | 1              | -                             |                        |
| Stomatitis<br>Caries of Teeth  |          |         | ***      | ***   | ***  | -                              | 1    | _       | 1              | 1                             |                        |
|  |          |         | ***      | ***   | ***  |                                | -    |         | -              | -                             |                        |
| Glossitis<br>Sore Throat   | ***      | ***     | ***      |       | ***  | _                              | 2    | _       | 2              | -                             |                        |
| Sore Throat<br>Inflammation of   | f Tone   | ila     | ***      |       | ***  |                                | _    | -       | -              |                               |                        |
|  |          |         | ***      |       | ***  |                                | _    | -       | -              |                               |                        |
| Gastritis  | tomaal   |         | ***      | ***   | ***  |                                | -    | _       | -              |                               |                        |
| Ulceration of S  |          |         | ***      | ***   |      |                                | -    | -       | -              | -                             |                        |
| Hæmatemesis  |          |         | ***      | ***   | ***  | -                              | _    |         | _              |                               |                        |
| Dilatation of S  | tomacı   |         | ***      | ***   | ***  | -                              | -    | -       | -              | -                             |                        |
| Stricture of Sta   |          | ***     | ***      | ***   | ***  | 1                              | 8    | -       | 8              | 1                             |                        |
| Dyspepsia  | ***      | ***     | ***      | ***   | ***  |                                | 1    | _       | 1              | -                             |                        |
| Enteritis  |          |         | ***      | ***   | ***  | 1                              | _    | -       | -              | -                             |                        |
| Appendicitis   | ***      | ***     | ***      | ***   | ***  | 100                            | -    | _       | -              | _                             |                        |
| Colitis  | Intentio | ***     | ***      | ***   | ***  |                                | -    | -       | -              | -                             |                        |
| Ulceration of  |          |         | ***      | ***   | ***  | _                              | _    | _       | -              | -                             |                        |
| Sprue  |          | ***     | ***      | ***   | ***  |                                | 10   | 1       | 10             |                               |                        |
| Hernia   |          | ***     | ***      | ***   | ***  |                                | 13   | 2       | 13             | -                             |                        |
| Diarrhœa   | ***      | ***     | ***      | ***   | ***  | _                              | 9    |         | 9              | -                             |                        |
| Constipation   | ***      |         | ***      | ***   |      | _                              | 5    | -       | 5              | -                             |                        |
| Colie  | ***      | ***     | ***      | ***   |      |                                |      | _       | _              | -                             |                        |
| Hæmorrhoids  |          |         | ***      |       | ***  | _                              | _    | _       | -              | -                             |                        |
| Pancreatitis   | ***      | ***     | ***      | ***   | ***  | _                              | -    | -       | -              | -                             | Access of              |
| Hepatitis - Ac   | ute      | ***     | ***      | ***   | ***  | _                              | 2    | _       | 2              | -                             |                        |
| Abscess  |          | ***     | ***      | ***   | ***  | _                              | _    | -       | 1              | -                             | NAME OF TAXABLE        |
| Cirrhosis  | ***      | ***     | ***      | ***   | ***  | -                              | 1    | _       | 1              | -                             | NAME OF TAXABLE PARTY. |
| Jaundice   |          | ***     | ***      | ***   | ***  |                                | i    | 1       | 1              | -                             | 11 11 11 11            |
| Peritonitis  |          | ***     | ***      |       | ***  |                                |      | 1       | -              | -                             |                        |
| Ascites  | ***      | ***     | ***      | ***   | ***  |                                | 5    | _       | 5              | -                             | 1999                   |
| Gastritis  |          | ***     | ***      |       | ***  |                                | 1    | _       | 1              | -                             | THE PROPERTY OF        |
| Gastric Catarr   |          | ***     | ***      | ***   | ***  |                                | 3    | 1       | 3              | -                             |                        |
| Quinsy   |          | ***     | ***      |       | ***  |                                |      | 0       | - 20           | 144 149                       |                        |
| Diseases of  | f the L  | ymph    | atic Sys | stem- |      | 1                              |      | 1       | 1              | 1 19                          |                        |
| AND A SALE   |          |         |          |       |      | -                              | -    | -       | -              | -                             |                        |
| Inflammation   |          |         |          |       |      | 1                              | 9    | -       | 10             | -                             |                        |
| Suppuration o  | f Lym    | phatic  | Gland    |       |      | -                              | -    | -       | -              | -                             | Property .             |
| Lymphangitis   |          |         |          |       |      | -                              | -    | -       | -              | -                             |                        |
| Elephantiasis  |          |         |          |       |      |                                | 1    | -       | 1              | -                             | 1                      |
|  |          |         |          |       |      |                                |      | 1       | 1              |                               | 11111111               |
| Diseases o   |          |         |          |       |      | 1                              | 1    | _       | 1              | -                             |                        |
| Acute Nephri   |          | ***     | ***      | ***   |      | -                              | 8    | 1       | 8              | -                             | The same               |
| Bright's Disea   |          | ***     | ***      | ***   |      | _                              |      | -       | -              | -                             | 2                      |
| Pyelitis   | ***      | ****    |          |       |      | _                              |      | -       | -              | 20000                         | 1                      |
| Calculus   |          | ***     | ***      |       | ***  |                                | _    | _       | _              | 10000                         | Fl. A.                 |
| Renal Colic  | ***      | ***     | ***      | ***   | ***  | 1 12 13 6                      |      |         | -              | -                             | - Paris                |
| Cystitis   |          | ***     | ***      |       | ***  |                                | 1    | _       | _              | _                             | The state of the       |
| Vesical Calcu  |          | ***     | ***      | ***   |      |                                | -    | -       | -              | -                             |                        |
| Suppression  |          | ***     | ***      |       | ***  |                                | 1000 |         |                | _                             | 1 2 2 2                |
| Hæmaturia  | ***      |         | ***      | ***   | ***  | _                              | _    |         | -              | _                             | HO IN                  |
| Chyluria   | ***      | ***     | ***      | ***   | ***  |                                |      |         |                |                               |                        |
|  |          |         |          |       |      |                                | 347  | 28      | 351            | 3                             |                        |

RETURN OF DISEASES AND DEATHS (IN-PATIENTS) FOR THE YEAR 1912—continued.

| Br LOCAL D Diseases of the Male Organ Urethritis Gleet Stricture Prostatitis Soft Chancre Condyloma Inflammation of S Hydrocele Orchitis Epididymitis Abscess of Testicl Varicocele Phimosis Retention of Urin Female Org Ovaritis Ovarian Cyst Displacement of Vaginitis Displacement of Vaginitis Dysmenorrhœa Menorrhæa Dysmenorrhæa Leucorrhæa Threatened Abor Delayed Labour Postpartem Hæn Retained Placent  | Generals: | rward    |       |     | ing in<br>Hospital<br>at end of<br>1911. |     | Deaths.           | Total<br>Cases<br>Treated.              | ing in<br>Hospital<br>at end of<br>1912. | Remarks.       |
|--|-----------|----------|-------|-----|--|-----|-------------------|---|--|----------------|
| Local D Diseases of the Male Organ Urethritis Gleet Stricture Prostatitis Soft Chancre Condyloma Inflammation of S Hydrocele Orchitis Epididymitis Abscess of Testicl Varicocele Phimosis Retention of Urin Female Org Ovaritis Ovarian Cyst Endometritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Menorrhæa Menorrhæa Menorrhæa Leucorrhæa Threatened Abor Delayed Labour Postpartem Hæn  | Serotum   | -continu | ued.  |     | 4  | 347 | 28                | 351                                     | 3  | -              |
| Diseases of the Male Organ Jrethritis Jeet Stricture Prostatitis Soft Chancre Condyloma Inflammation of Stricture Prochitis Epididymitis Abscess of Testical Varicocele Phimosis Retention of Urin Female Org Ovaritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Dysmenorrhæa Leucorrhæa Threatened Abor Delayed Labour Postpartem Hæn  | Generals: | tive Sys |       |     |  |     |                   |   |  |                |
| Male Organ Jrethritis Stricture Prostatitis Soft Chancre Condyloma Inflammation of Strydrocele Prictional Epididymitis Abscess of Testicle Phimosis Retention of Urin Female Org Ovaritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhea Dysmenorrhea Dysmenorrhea Menorrhagia Leucorrhea Threatened Abor Delayed Labour Postpartem Hæn  | s:—       |          |       |     |  |     |                   |   |  |                |
| Male Organ Jrethritis Stricture Prostatitis Soft Chancre Condyloma Inflammation of S Hydrocele Drichitis Epididymitis Abscess of Testicl Varicocele Phimosis Retention of Uris Female Org Ovaritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhea Dysmenorrhea Menorrhagia Leucorrhea Leucorrhea Threatened Abor Delayed Labour Postpartem Hæn   | s:—       |          |       |     |  |     | Maria I           | -                                       | mora d                                   |                |
| Bleet Bricture Brostatitis Boft Chancre Condyloma Inflammation of St. Hydrocele Drchitis Epididymitis Abscess of Testical Varicocele Phimosis Breatention of Uring Female Orgovaritis Dvarian Cyst Dvarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Menorrhæa Menorrhæa Menorrhæa Leucorrhæa Threatened Abor Delayed Labour Postpartem Hæa   | Serotum   |          |       |     |  |     | Towns 1           | - 0                                     | 1000                                     |                |
| Prostatitis Prostatitis Prostatitis Prostatitis Poft Chancre Inflammation of Standard Prochitis Epididymitis Epididymitis Abscess of Testical Varicocele Primosis Premale Orgovaritis Dvarian Cyst Endometritis Dvarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Menorrhæa Menorrhæa Leucorrhæa Ihreatened Abor Delayed Labour Postpartem Hæa  | Serotum   |          |       | 110 | -  | -   | -                 |   | -  |                |
| Prostatitis Fort Chancre Condyloma Inflammation of Stydrocele Orchitis Spididymitis Spididymitis Charcocele Phimosis Retention of Uring Permale Orgovaritis Ovaritis Ova                | Scrotum   |          |       |     | -  | 6   | 1                 | 6                                       | -  |                |
| oft Chancre condyloma nflammation of S Hydrocele Orchitis Chididymitis Abscess of Testicl Varicocele Chimosis Retention of Urin Female Org Ovaritis Ovarian Cyst Endometritis Ovarian Cyst Chimosis Ovarian Cyst Chimosis Ovarian Cyst Chimosis Chimosis Ovarian Cyst Chimosis Ch | Serotum   |          | 222   | *** | _  | -   |                   | -0                                      | _  |                |
| condyloma nflammation of S Hydrocele Orchitis Diddidymitis Abscess of Testicl Varicocele Chimosis Retention of Urin Female Org Ovaritis Displacement of Vaginitis Amenorrhæa Dysmenorrhæa Menorrhæa Leucorrhæa Leucorrhæa Chreatened Abor Delayed Labour Postpartem Hæa  | Scrotum   |          |       |     | _  | 4   | -                 | - 4                                     |  |                |
| nflammation of S Hydrocele Drchitis Drchitis Drchitis Drchitis Drchitis Drchitis Drchitis Drchitis Drchitis Retention of Testicl Female Org Dvaritis Dvarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Dysmenorrhæa Menorrhæa Leucorrhæa Leucorrhæa Leucorrhæa Chreatened Abor Delayed Labour Postpartem Hæa  |           |          |       |     | -  | -   | -                 | _                                       | -  |                |
| Prehitis  Spididymitis Abscess of Testicly aricocele Phimosis Retention of Uricocele Permale Orgovaritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Wenorrhæa Dysmenorrhæa Leucorrhæa Leucorrhæa Enreatened Abor Postpartem Hæa  |           |          |       |     | -  | -   | -                 | -                                       | -  | 7              |
| Epididymitis Abscess of Testical Varicocele Phimosis Retention of Uricocele Permale Orgovaritis Displacement of Vaginitis Displacement of Vaginitis Amenorrhæa Dysmenorrhæa Leucorrhæa Encorrhæa Leucorrhæa Chreatened Abor Delayed Labour Postpartem Hæg  |           | ***      |       |     | -  | 2   | -                 | 2                                       | -  |                |
| Abscess of Testicily aricocele Phimosis Retention of Urin Female Org Ovaritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Dysmenorrhæa Leucorrhæa Chreatened Abor Delayed Labour Postpartem Hæa   |           |          |       |     | -  | 4   | -                 | 4                                       | -  |                |
| Faricocele Chimosis Retention of Uris Female Org Ovaritis Ovarian Cyst Endometritis Cisplacement of Vaginitis Amenorrhæa Oysmenorrhæa Leucorrhæa Chreatened Abor Delayed Labour Postpartem Hæa   | 45        | ***      |       |     | -  | -   | -                 | -                                       | -  |                |
| Phimosis Retention of Uris Female Org Ovaritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Dysmenorrhæa Leucorrhæa Leucorrhæa Chreatened Abor Delayed Labour Postpartem Hæa   |           | ***      |       |     | _  | 1   | =                 | 1                                       | 75                                       |                |
| Female Orgovaritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Menorrhæa Leucorrhæa Leucorrhæa Leucorrhæa Fireatened Abor Delayed Labour Postpartem Hæa   |           | ***      | ***   | *** |  | 1   |                   | 1                                       |  |                |
| Female Orgovaritis   | ne        |          |       |     | _  | 3   |                   | 3                                       |  |                |
| Ovaritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Menorrhæa Menorrhæa Leucorrhæa Leucorrhæa Fireatened Abor Delayed Labour Postpartem Hæa  |           |          | -     |     |  | 1   |                   | -                                       |  |                |
| Ovaritis Ovarian Cyst Endometritis Displacement of Vaginitis Amenorrhæa Menorrhæa Menorrhæa Leucorrhæa Leucorrhæa Fireatened Abor Delayed Labour Postpartem Hæa  | ans:-     |          |       |     |  | 1   |                   | 1500                                    |  |                |
| Endometritis Displacement of Vaginitis Amenorrhæa Dysmenorrhæa Menorrhægia Leucorrhæa Threatened Abor Delayed Labour Postpartem Hæg  |           |          |       |     | -  | 1   | -                 | 1                                       | -  |                |
| Displacement of Vaginitis Amenorrhæa Dysmenorrhæa Menorrhægia Leucorrhæa Ihreatened Abor Delayed Labour Postpartem Hæa   |           | ***      |       | *** | -  | -   | -                 | -                                       | -  | Late manual la |
| Vaginitis Amenorrhœa  Oysmenorrhœa  Menorrhægia  Leucorrhœa  Chreatened Abor Delayed Labour Postpartem Hæg   |           |          |       |     | -  | 1   | -                 | -                                       |  |                |
| Amenorrhæa  Dysmenorrhæa  Menorrhægia  Leucorrhæa  Threatened Abor  Delayed Labour  Postpartem Hæa   |           | ***      | ***   | *** | -  | 1   | _                 | 1                                       |  | A misson       |
| Dysmenorrhea Menorrhagia Leucorrhea Threatened Abor Delayed Labour Postpartem Hæa  |           | ***      |       |     |  |     |                   |   | 00000                                    | 22             |
| Menorrhagia<br>Leucorrhœa<br>Threatened Abor<br>Delayed Labour<br>Postpartem Hæa   |           |          |       |     |  | -   |                   | -                                       | -  |                |
| Leucorrhosa<br>Threatened Abor<br>Delayed Labour<br>Postpartem Hæu   |           |          |       |     | _  | 1   | _                 | 1                                       | _  |                |
| Delayed Labour<br>Postpartem Hæa   |           | ***      | ***   |     | _  | 1   | -                 | 1                                       | -  |                |
| Postpartem Hæa   | tion      |          | ***   |     | -  | 4   | -                 | 4                                       | 1  | 100            |
|  |           | ***      |       | *** | -  | -   | -                 | -                                       | -  |                |
| xetained riscent   |           |          | ***   | *** | -  | 1   | 1                 | 1                                       | 1000                                     |                |
| Parturition  |           | ***      | ***   | *** |  | 7   |                   | 7                                       |  |                |
| Premature Birth  |           |          |       |     | _  | -   | _                 | -                                       | _  |                |
| Puerperal Septica  |           |          |       |     |  | -   | -                 | _                                       |  |                |
| Mastitis   |           |          | ***   |     |  | -   | -                 | -                                       |  |                |
| Abscess of Breast  |           |          | ***   |     | -  | -   | -                 | -                                       | -  |                |
| Vulvitis   |           | ***      | ***   |     | -  | 1   | -                 | 1                                       | -  | MI.            |
| Suppression of U   | rine      |          | ***   |     | -  | .1  |                   | 1                                       | 200                                      |                |
| Diseases of O  | rgans of  | Locomo   | tion- |     | 1 10                                     | 1   | Personal Property | 111111111111111111111111111111111111111 | 1116.91                                  |                |
| Periostitis  | -         |          |       |     | -  | 1   |                   | 1                                       | 1  |                |
| Osteitis   |           |          |       |     | -  | -   | -                 | -                                       | -  | Sammer .       |
| Arthritis  |           |          | ***   |     | -  | -   | -                 | -                                       | -  |                |
| Necrosis<br>Spondylitis  | ***       | ***      | ***   | *** | _  | 1   | _                 | 1                                       | _  |                |
| Sum amilela  |           |          |       | *** |  | 2   |                   | 2                                       |  |                |
| Bursitis   |           |          |       | *** | _  | -   | _                 | _                                       |  |                |
| Hammer Toe   |           |          |       |     | -  | 1   | -                 | 1                                       | _  |                |
| Airherm of Toe   |           |          |       |     | -  | 1   | -                 | 1                                       | -  |                |
| Supplementary F  | inger     |          |       | *** | -  | 1   | -                 | 1                                       | -  |                |
| Diseases of C  | opposi    | o Tierre |       |     |  |     |                   | 1                                       |  |                |
| Cellulitis   |           |          |       |     | -  | 2   | -                 | 2                                       | _  |                |
| Abscess  |           |          |       |     |  | _   |                   | _                                       |  |                |
| Elephantiasis  |           |          |       |     | -  | 18  | 2                 | 18                                      |  |                |
|  |           |          |       |     |  |     |                   |   |  |                |
| Diseases of th   |           | -        |       |     |  |     |                   | -                                       |  |                |
| Urticaria  | ***       |          | ***   |     |  | -   | -                 | -                                       | -  |                |
| Eczema   |           |          | ***   | *** |  | 1   |                   | 1                                       | -  | -              |
| C  |           |          |       |     |  |     |                   |   |  |                |

RETURN OF DISEASES AND DEATHS (IN-PATIENTS) FOR THE YEAR 1912—continued.

|                      |          |          |         |     |     | Remain-<br>ing in<br>Hospital |                 | Yearly Total. |                   | Remain-<br>ing in              | Remarks.           |  |
|----------------------|----------|----------|---------|-----|-----|-------------------------------|-----------------|---------------|-------------------|--------------------------------|--------------------|--|
|                      | Di       | seases.  |         |     |     |                               | Ad-<br>missions | Deaths.       | Cases<br>Treated. | Hospital<br>at end of<br>1912. | Accurate Acc       |  |
|                      | Brough   | t forwa  | ard     |     |     | 4                             | 414             | -31           | 418               | 5                              |                    |  |
| Loca                 | L DISE   | ASES-C   | ontinu  | ed. |     |                               |                 |               |                   | De maria                       |                    |  |
| Diseases o           |          |          |         |     |     |                               |                 |               |                   |                                |                    |  |
| Boil                 |          |          |         |     |     | 1                             | 3               | -             | 4                 | -                              |                    |  |
| Carbuncle            |          |          |         |     |     | -                             | -               | -             | -                 | _                              |                    |  |
| Herpes               |          |          |         |     |     | -                             | 2               | -             | 2                 | -                              |                    |  |
| Psoriasis            | ***      | ***      |         | *** |     | _                             |                 | _             | _                 | -                              |                    |  |
| Oriental Sore        | ***      | ***      | ***     |     |     | -                             |                 | -             | -                 | -                              |                    |  |
| ma.                  | ***      |          |         |     |     | _                             | 20              | _             | -                 | -                              |                    |  |
| Tinea<br>Scabies     | ***      | ***      |         |     |     |                               | 3               | _             | 3                 | -                              |                    |  |
|                      | ***      | ***      |         |     |     | -                             |                 | -             | _                 | _                              |                    |  |
| Acne<br>Prickly Heat | ***      |          | ***     |     |     | -                             | _               | -             | _                 | -                              |                    |  |
| ***                  |          | ***      |         |     |     | 1                             | 28              | -             | 29                | 2                              |                    |  |
| Whitlows             |          | ***      |         |     |     | 1                             | 4               | -             | 4                 | -                              |                    |  |
| Whitiows             | ***      | ***      | ***     |     | *** | + 1                           |                 |               |                   | 1000                           |                    |  |
| Injuries-            | Canaral  |          |         |     |     | _                             | 2               | 2             | 2                 | -                              |                    |  |
|                      |          |          | ***     |     |     | 1                             | 46              | _             | 47                | 51                             | Recorded           |  |
| Local                | ations.  |          | ***     |     |     | 1                             | [41]            | -             | [41]              | -1                             | under resp         |  |
| Surgical Oper        |          | ***      | ***     |     | *** | _                             | 1               | _             | 1                 | -1                             | tive disease       |  |
| Tumours              |          | ***      | ***     | *** | *** | _                             |                 | _             | _                 | _                              |                    |  |
| Malformation         |          |          | ***     | *** | *** | _                             | 3               | _             | 3                 | _                              |                    |  |
| Poisons              | ***      |          | ***     |     | *** |                               |                 |               | -                 |                                |                    |  |
| Parasites-A          | nimal    |          |         |     |     | -                             | -               | -             | -                 | -                              |                    |  |
|                      | otozoa   |          |         | *** |     | _                             | 2000            | _             | -                 |                                |                    |  |
|                      | ematoda  | /Floke   | ne)     |     |     | _                             |                 |               | -                 | -                              |                    |  |
|                      | stoda—   | Trunk    | 00)     | *** |     |                               |                 | 1             | -                 | 1                              |                    |  |
|                      | Tænia S  | olium    |         |     |     |                               | _               |               | -                 | 1                              |                    |  |
|                      | Tænia S  |          |         |     | *** |                               |                 | _             |                   | -                              |                    |  |
|                      | matoda-  | - 42     |         |     | *** |                               |                 |               |                   | No.                            |                    |  |
|                      |          |          |         |     |     | -                             |                 |               |                   | -                              |                    |  |
|                      | Ascaris  |          | Dionar  | *** |     |                               | 200             | _             |                   | _                              |                    |  |
|                      | Tricocep |          |         |     | *** |                               |                 |               | _                 | -                              |                    |  |
|                      | Trichina |          |         | *** | *** |                               |                 |               | _                 | _                              |                    |  |
|                      | Dracune  |          | ***     | *** | *** | _                             | 6               |               | 6                 | _30                            |                    |  |
|                      | Filarias |          |         |     | *** |                               | _               | _             | _                 | No make                        |                    |  |
|                      | Strongy  |          |         | *** | *** |                               |                 | _             |                   | _                              |                    |  |
|                      | Ankylos  |          |         | *** | *** |                               |                 | _             | -                 | -                              |                    |  |
|                      | Oxyuris  | ***      |         | *** | *** | =                             |                 | _             | 1                 | -                              |                    |  |
|                      | secta-   |          |         |     |     |                               |                 | =             |                   | No.                            | THE REAL PROPERTY. |  |
|                      | Myiasis  |          | o Diego |     | *** |                               | 10              | _             | 10                | 2                              |                    |  |
|                      | No App   | reciable | e Disea | 30  | *** |                               | 10              | 1             | 10                | -                              | Married .          |  |
|                      |          |          |         |     |     | -                             | -               |               |                   |                                | SHELLING           |  |
| m                    |          |          |         |     |     | 7                             | 522             | 33            | 529               | 14                             |                    |  |
| TOTAL                | ***      | ***      | ***     | *** | *** |                               | 022             | 00            | 0.00              | 1.1                            |                    |  |

# TABLE VI.

# VICTORIA HOSPITAL, BATHURST.

RETURN OF DISEASES (OUT-PATIENTS) FOR THE YEAR 1912.

(Diseases as in Table V.)

|             |  | Disea   | 1968.     |     |     |     | Male. | Female. |
|-------------|--|---------|-----------|-----|-----|-----|-------|---------|
| Malarial    | Fevers   |         |           |     |     | 100 | 297   | 182     |
| Gonorrho    |  |         |           |     |     |     | 58    | 2       |
| Parasitic   | Contract Con |         |           |     |     |     | 202   | 190     |
| Tetanus     |  |         |           |     |     |     | 1     | -       |
| Rheumati    | sm   |         |           |     |     |     | 246   | 165     |
| Ansemia     |  |         |           |     |     |     | 16    | 5       |
| W- 2 1221   |  |         |           |     |     |     | 30    | 8       |
| Syphilis    |  |         |           |     |     |     | 5     | 3       |
| Diseases o  | f the Nervo  | ous Sys | tem       |     |     |     | 326   | 220     |
|             | , Eye  |         |           |     |     |     | 291   | 190     |
|             | , Ear  |         |           |     |     |     | 54    | 13      |
| "           | , Nose   |         | ***       |     | *** |     | 17    | 2       |
| 31          | , Circul   | atory   | System    |     |     |     | 18    | 2       |
| **          |  | ratory  | ,,        | *** | *** |     | 974   | 734     |
| **          | " Diges  |         | "         |     |     |     | 1,329 | 936     |
| **          | " Lymp   |         | **        |     |     |     | 1     | -       |
| **          | " Urina  |         | **        |     |     |     | 23    | 10      |
|             | , Gener  |         | _ 11      |     |     |     | 19    | 36      |
| Affections  | connected  | with    | Pregnancy | y   | *** |     | -     | 6       |
| Diseases of | of the Fema  | le Bres | st        |     |     |     | _     | 7       |
| **          |  |         | ocomotion |     | *** | *** | 11    |         |
| 33          | ,  |         | l'issues  |     |     |     | 61    | 21      |
| "           | 12   | ar Tiss | ues       |     | *** |     | 8     | 1       |
|             | " Skin   | ***     | ***       |     |     |     | 461   | 164     |
| Injuries    |  |         | ***       |     |     |     | 453   | 97      |
| To          | TAL  |         |           |     |     |     | 4,901 | 2,994   |

Old cases ... ... ... 3,371 male.
Old cases ... ... ... 740 female.

#### THE PRISON INFIRMARY.

RETURN OF DISEASES AND DEATHS (IN-PATIENTS) FOR THE YEAR 1912.

|               | Dise  | ases. |      | Remaining in<br>Hospital at<br>end of 1911. | Admission. | Deaths. | Total<br>cases<br>treated. | Remaining in<br>Hospital at<br>end of 1912. |
|---------------|-------|-------|------|---|------------|---------|----------------------------|---|
| Malarial Feve | r     |       | <br> |   | 1          | _       | 1                          | _   |
| Rheumatism    |       |       | <br> | _   | 2          | 1       | 2                          | _   |
| Syphilis      |       |       | <br> | _   | 1          | _       | 1                          | _   |
| Stomatitis    |       |       | <br> | -   | 2          | -       | 2                          | -   |
| Dyspepsia     |       |       | <br> | -   | 2          |         | 2                          | -   |
| Hernia        |       |       | <br> | -   | 2          |         | 2                          | -   |
| Pneumonia     |       |       | <br> | _   | 1          |         | 1                          | 1   |
| Retention of  | Urine |       | <br> |   | 2          |         | 2                          | _   |
| Adenitis      |       |       | <br> | -   | 2          | -       | 2                          | - 0   |
| Ulcer         |       |       | <br> | -   | 1          | _       | 1                          | -   |
|               |       | TOTAL | <br> | -   | 16         | 1       | 16                         | -   |

## TABLE VI .- continued.

## THE PRISON INFIRMARY.

RETURN OF DISEASES (OUT-PATIENTS) FOR THE YEAR 1912.

|           |         |           | Dise      | ases. |     |       |     |      | Male. | Female.  |  |
|-----------|---------|-----------|-----------|-------|-----|-------|-----|------|-------|--|--|
| Malarial  | Former  |           |           |       |     |       |     |      | 2     | _  |  |
|           | -       | ***       | ***       |       |     | ***   |     | 0.22 | 1     | _  |  |
| Dysenter  |         |           |           | ***   | *** | ***   | *** | ***  | 5     | _  |  |
| Gonorrho  |         |           | ***       |       | *** | ***   | *** |      | 4     |  |  |
| Parasitic |         | 0         | **        | ***   | 111 |       |     | ***  | 33    | 1  |  |
| Rheumat   | ism     |           | ***       |       |     |       |     | ***  | 1     |  |  |
| Debility  |         |           | ***       | ***   | *** |       |     | ***  | 1000  |  |  |
| Syphilis  |         |           | ***       |       | *** |       | *** | ***  | 1     | MICH SE  |  |
| Diseases  | of the  | Nervous   | System    | ***   |     | 411   | *** | ***  | -     | DESCRIPTION OF THE PARTY OF THE |  |
| **        | **      | Eye       |           |       | *** | ***   | *** |      | 3     | TOTAL STATE OF   |  |
| ,,        | 53      | Ear       | ***       |       |     |       | 171 |      | . 1   | Name of the last   |  |
| 11        | ,,      | Circulato | ry Syster | m     |     |       |     | ***  | 1     | LINE -   |  |
| "         | ,,      | Respirate |           |       |     | ***   |     |      | 24    | dank -   |  |
|           | **      | Digestive |           |       |     |       | *** |      | 56    | -  |  |
| "         | "       | Lymphat   | ie ,,     |       |     |       |     |      | 1     | -  |  |
| "         |         | Urinary   | 17        |       |     |       |     |      | 4     | _  |  |
| "         | 27      | Generativ |           |       |     |       |     |      | 4     | _  |  |
| ***       | "       | Organs o  |           |       |     |       |     |      | 3     | -  |  |
| 97        | 27      | Cellular  |           |       | *** |       |     | -    | 3     | -  |  |
| 22        | 22      |           |           |       | *** | ***   |     | ***  | 17    | _  |  |
| , "       | 77      | Skin      |           | ***   | *** | ***   | *** | ***  | 16    |  |  |
| Injuries  |         |           | ***       | ***   | 333 | ***   | *** |      | 2     | 1 0 D  |  |
| No appre  | ciable. | Disease   | ***       | ***   | *** | ***   | *** | ***  | -     |  |  |
|           |         |           |           |       |     | TOTAL |     |      | 189   |  |  |

## MACCARTHY ISLAND HOSPITAL,

RETURN OF DISEASES AND DEATHS (IN-PATIENTS) FOR THE YEAR 1912.

|                |           |     |     |     |      | Remain-<br>ing in | Yearly          | Total.  | Total | Remain-<br>ing in              |  |  |
|----------------|-----------|-----|-----|-----|------|-------------------|-----------------|---------|-------|--------------------------------|--|--|
|                | Diseases. |     |     |     |      |                   | Ad-<br>missions | Deaths. | Cases | Hospital<br>at end of<br>1912. |  |  |
| Alcoholism .   |           |     |     |     |      | _                 | 1               | -       | 1     | _                              |  |  |
| D-1-004-       |           |     |     |     |      |                   | 3               | 1       | 3     | -                              |  |  |
| Malarial Fever |           |     |     |     |      |                   | 3               | -       | 3     | -                              |  |  |
| 01             |           | *** | *** |     |      | -                 | 1               | -       | 1     | -                              |  |  |
| 111            |           |     |     |     |      | -                 | 1               | -       | 1     | -                              |  |  |
| Prypanosomiasi |           |     |     |     |      | -                 | 1               | -       | 1     | -                              |  |  |
| D. 1. ** ***   |           |     |     |     |      | -                 | 1               | -       | 1     | -                              |  |  |
| Dunnahitia     |           |     |     |     |      | -                 | 3               | -       | 3     | -                              |  |  |
| Danmania       |           |     |     | *** |      | _                 | 9               | 2       | 9     | -                              |  |  |
| Dlamaian       |           |     |     |     |      | -                 | 1               | -       | 1     | -                              |  |  |
| Hounia         |           |     |     |     |      |                   | 2               | 2       | 2     | -                              |  |  |
| Diamban        |           |     |     | *** |      |                   | 2               | -       | 2     | -                              |  |  |
| Danamatana     |           |     |     |     |      |                   | 3               | 2       | 3     | -                              |  |  |
| Character.     |           |     |     |     |      | -                 | 1               | -       | 1     | -                              |  |  |
| Dysmenorrhea   |           |     |     |     |      |                   | 1               |         | 1     | -                              |  |  |
| W              |           |     |     |     | **** | -                 | 1               | -       | 1     | -                              |  |  |
| Omnomitia      |           | *** |     | *** |      | -                 | 1               | -       | 1     | -                              |  |  |
| Clalladitio    |           |     |     |     |      | _                 | 2               | -       | 2     | -                              |  |  |
| Abassas        |           |     |     |     |      | -                 | 1               | _       | 1     | _                              |  |  |
| Uamaa          |           |     |     |     |      | -                 | 2               |         | 2     | -                              |  |  |
| TTlasm         |           |     |     | *** |      | _                 | 10              | -       | 10    | -                              |  |  |
| XX71.:41       |           |     |     | *** |      | -                 | 1               | -       | 1     | -                              |  |  |
| Injuries       |           |     |     |     |      | -                 | 12              | 1       | 12    | -                              |  |  |
| Heat Exhaustic | on        |     |     | *** |      |                   | 1               | -       | 1     | -                              |  |  |
| Guinea Worm    |           |     |     |     |      | -                 | 2               | -       | 2     | -                              |  |  |
|                |           |     |     |     |      |                   |                 |         |       |                                |  |  |
| TOTAL          |           |     |     |     |      | _                 | 66              | 8       | 66    | _                              |  |  |

## MACCARTHY ISLAND DISPENSARY.

# RETURN OF DISEASES (OUT-PATIENTS) FOR THE YEAR 1912.

|             | 1        | Diseases. |         |        |       | Male. | Female. |
|-------------|----------|-----------|---------|--------|-------|-------|---------|
| Malarial F  | evers    |           |         |        |       | 31    | 35      |
| Varicella   | ***      |           |         |        |       | 1     |         |
| Dysentery   |          |           |         |        |       | î     | 2       |
| Trypanoso   |          | ***       |         |        |       | 2     |         |
| Gonorrhoe   |          |           |         |        |       | 36    |         |
| Parasitic 1 | Disease  |           |         |        |       | 8     | 8       |
| Rheumatis   |          |           |         |        |       | 72    | 47      |
| Anæmia      |          |           |         |        |       | 1     | 3       |
| Leprosy     |          |           |         |        |       | i     | _       |
| Marasmus    |          |           |         |        |       | _     | 1       |
| Debility    |          |           |         |        |       | 23    | 7       |
| Syphilis    |          |           |         |        |       | 15    | 13      |
| Goitre      |          |           |         |        |       |       | 1       |
| Diseases o  | f the Ne | rvous S   | System  |        |       | 7     | 3       |
| **          | ., Ey    | e         |         |        |       | 28    | 18      |
| ,,          | ,, Ea    | r         |         |        |       | 17    | 10      |
| "           | ,, No    | se        |         |        |       | 2     |         |
| ,,          |          | rculator  | ry Syst | em     |       | 4     | 5       |
| ,,          | ,, Re    | espirato  | ry ,    | ,      |       | 87    | 66      |
| "           | ,, Di    | gestive   | ,       | ,      |       | 242   | 153     |
| ,,,         |          | mphati    | ie ,    | ,      |       | 28    | 9       |
| 23          |          | rinary    | ,       | ,      |       | 11    | 3       |
|             |          | nerativ   |         |        |       | 10    | 6       |
| Affections  | connect  | ed with   |         |        |       | -     | 7       |
| - "         | . , ,,   | "         |         | rition |       | -     | 2       |
| Diseases of |          |           |         |        | ***   | 5     | 1       |
| "           |          | nnectiv   |         | ues    | - 111 | 15    | 5       |
| "           |          | llular T  | issues  |        |       | 16    | 4       |
| _ ,,,       | " Sk     | in        |         |        | ***   | 149   | 46      |
| Injuries    |          |           |         |        |       | 77    | 12      |
|             |          |           |         |        |       |       |         |
|             |          |           | TOTAL   | L      |       | 889   | 467     |

## OLD CASES .- MACCARTHY ISLAND DISPENSARY.

## OUT-PATIENT, 1912.

|        |     |         | Total |     | <br>473 |
|--------|-----|---------|-------|-----|---------|
| Female | *** | <br>*** | <br>  | *** | <br>168 |
| Male   |     | <br>    | <br>  |     | <br>305 |

# QUININE DISTRIBUTION FOR 1912.

(June to December.)

| The Schools-          |         |      |     |     |         |          |
|-----------------------|---------|------|-----|-----|---------|----------|
| Wesleyan (three       | in numb | er)  |     |     | 3,928 c | hildren. |
| Roman Catholic        |         |      |     |     | 1,507   | **       |
| The Convent           |         |      |     |     | 1,040   | "        |
| Anglican              |         |      |     |     | 420     | **       |
| Mohammedan            |         |      |     |     | 341     | 11       |
|                       |         |      |     |     | _       |          |
|                       | To      | TAL  |     |     | 7,236 c | hildren. |
|                       |         |      |     |     | -       |          |
| The Public            |         |      |     |     | 1,438   |          |
|                       | ***     | **** | *** | *** |         |          |
| Native Officials, Gov | ernment | ***  | *** | *** | 836     |          |
| W. A. F. F            |         | ***  |     | *** | 640     |          |
|                       |         |      |     |     |         |          |
|                       | To      | TAL  | *** | *** | 2,914   |          |
|                       |         |      |     |     | -       |          |

Total quinine distribution, June to December ...

10,150 doses.

are northernan xuning