

ANNUAL REPORT AND STATISTICS  
OF THE  
GOVERNMENT GENERAL HOSPITAL,  
MADRAS,  
FOR THE YEAR  
1917.

MADRAS :  
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.

1918.

*For official use only.*

# GOVERNMENT GENERAL HOSPITAL, MADRAS.

## ANNUAL REPORT AND STATISTICS OF THE GOVERNMENT GENERAL HOSPITAL, MADRAS, FOR THE YEAR 1917.

### ADMINISTRATION REPORT.

1. (a) **Accommodation.**—The accommodation remained the same during the year and the number of cots, viz., 55, which were lent to the Military Department on the 7th October 1916, were received back on the 4th December 1917, so that the number of beds, viz., 500, which the hospital is provided for, was complete at the end of the year.

On the abolition of the Government Voluntary Venereal Hospital (G.O. No. 391, dated 10th September 1917) accommodation had to be provided for cases transferred from that hospital; accordingly twelve chronic venereal patients were received. This necessitated a change in accommodating patients, and for this purpose two rooms, C and D of the sheds, were vacated and made into venereal wards for women. Again, to prevent mixing of men and women two other rooms A and B were also vacated and all the chronic female patients who occupied the isolation huts were transferred to them. The remaining two rooms E and F were set apart for infectious cases occurring in the hospital.

The male patients who hitherto occupied these rooms (in the sheds) were removed to the isolation huts. This change has rendered matters satisfactory in that all female patients occupy one place and male patients another place separated from each other.

Separate accommodation was provided also to male venereal patients, surgical hut II having been reserved for them.

The following statement shows the distribution of beds and the average daily attendance of the in-door sick treated, the largest number of beds occupied on any one day being 411 on the 14th March 1917:—

| 1<br>General Hospital, Madras.              | 2<br>Number of beds available. |        |           |        | 3<br>Average daily sick of in-patients. |        |           |        |
|---------------------------------------------|--------------------------------|--------|-----------|--------|-----------------------------------------|--------|-----------|--------|
|                                             | Men.                           | Women. | Children. | Total. | Men.                                    | Women. | Children. | Total. |
| Non-Europeans ...                           | 218                            | 64     | 16        | 298    | 208.14                                  | 51.04  | 19.52     | 278.70 |
| Europeans ...                               | 92                             | 35     | 12        | 139    | 56.25                                   | 27.30  | 10.35     | 93.90  |
| Common to both Europeans and non-Europeans. |                                |        |           | * 63   |                                         |        |           |        |
| Total ...                                   |                                |        |           | 500    | 264.39                                  | 78.34  | 29.87     | 372.60 |

\* Common to male tubercular and non-tubercular patients  
Do. female do.  
Female venereal patients  
Common to both classes and sexes of infectious patients  
Cells

Total ... 63

(b) **Buildings.**—The subjoined statement shows the amount of estimate and the expenditure incurred during the year both on account of original works and repairs done to the buildings and other installations which are in charge of the Public Works Department.

| ORIGINAL WORKS.                                                | Amount of estimate. |    |    | Outlay to end of December 1917. |    |    |
|----------------------------------------------------------------|---------------------|----|----|---------------------------------|----|----|
|                                                                | RS.                 | A. | P. | RS.                             | A. | P. |
| 1. Improvements ...                                            | 230                 | 0  | 0  | 49                              | 0  | 0  |
| 2. Do. ...                                                     | 1,150               | 0  | 0  | 45                              | 0  | 0  |
| 3. Providing additional lights ...                             | 22                  | 0  | 0  | 19                              | 0  | 0  |
| 4. Installing a second-hand boiler in the European kitchen ... | 500                 | 0  | 0  | 447                             | 0  | 0  |
| 5. Improvements to boiler in the laundry.                      | 270                 | 0  | 0  | 246                             | 0  | 0  |

| ORIGINAL WORKS—cont.                                                                                       | Amount of estimate. |    |    | Outlay to end of December 1917. |    |    |
|------------------------------------------------------------------------------------------------------------|---------------------|----|----|---------------------------------|----|----|
|                                                                                                            | RS.                 | A. | P. | RS.                             | A. | P. |
| 6. Providing electric clocks ...                                                                           | 1,860               | 0  | 0  | 14                              | 0  | 0  |
| 7. Supplying a galvanized iron tank to feed hot water boiler ...                                           | 907                 | 0  | 0  | 493                             | 0  | 0  |
| 8. Improvements to Matron's coach-house.                                                                   | 60                  | 0  | 0  | 54                              | 0  | 0  |
| 9. Flattening the slope of the roof of the contagious ward ...                                             | 4,850               | 0  | 0  | 4,688                           | 0  | 0  |
| 10. Providing large ceiling fans in the surgical and isolation huts and lights in the Linen department ... | 1,631               | 0  | 0  | 1,644                           | 0  | 0  |
| 11. Providing flagstaff ...                                                                                | 80                  | 0  | 0  | 10                              | 0  | 0  |
| 12. Alterations to rooms and lavatories in Nurses' quarters ...                                            | 2,040               | 0  | 0  | 1,036                           | 0  | 0  |
| 13. Improvements to Indian bath rooms ...                                                                  | 1,040               | 0  | 0  | 532                             | 0  | 0  |
| 14. Improvements ...                                                                                       | 2,030               | 0  | 0  | 499                             | 0  | 0  |

## REPAIRS.

|                                                                                             |        |     |     |       |   |   |
|---------------------------------------------------------------------------------------------|--------|-----|-----|-------|---|---|
| 15. Annual electric repairs for 1916-17 ...                                                 | 3,412  | 0   | 0   | 888   | 0 | 0 |
| 16. Annual repairs to No. 1, Resident Medical Officer's quarters for 1916-17 ...            | 140    | 0   | 0   | 14    | 0 | 0 |
| 17. Annual electric repairs to No. 1, Resident Medical Officer's quarters for 1916-17.      | 93     | 0   | 0   | 3     | 0 | 0 |
| 18. Annual electric repairs to No. 2, Resident Medical Officer's quarters for 1916-17.      | 101    | 0   | 0   | 3     | 0 | 0 |
| 19. Annual punkah repairs for 1916-17 ...                                                   | 2,118  | 0   | 0   | 877   | 0 | 0 |
| 20. Annual repairs to No. 2, Resident Medical Officer's quarters for 1916-17 ...            | 180    | 0   | 0   | 14    | 0 | 0 |
| 21. Annual repairs to interior General Hospital for 1916-17 ...                             | 2,520  | 0   | 0   | 642   | 0 | 0 |
| 22. Annual repairs to exterior General Hospital for 1916-17 ...                             | 1,350  | 0   | 0   | 509   | 0 | 0 |
| 23. Renewing the flooring of the dining room of Nurses' quarters ...                        | 220    | 0   | 0   | 18    | 0 | 0 |
| 24. Renewing girder to dining hall of Nurses' quarters ...                                  | 490    | 0   | 0   | 467   | 0 | 0 |
| 25. Providing covers to punkah ropes ...                                                    | 150    | 0   | 0   | 82    | 0 | 0 |
| 26. Repairing the roofs of old laundry and the store room adjoining the old engine room ... | 610    | 0   | 0   | 541   | 0 | 0 |
| 27. Annual repairs for 1917-18 ...                                                          | 3,190  | 0   | 0   | 2,683 | 0 | 0 |
| 28. Annual electric repairs for 1917-18 ...                                                 | 3,539  | 0   | 0   | 2,623 | 0 | 0 |
| 29. Annual electric repairs to No. 1, Resident Medical Officer's quarters for 1917-18.      | ...    | ... | ... | 3     | 0 | 0 |
| 30. Annual electric repairs to No. 2, Resident Medical Officer's quarters for 1917-18.      | ...    | ... | ... | 3     | 0 | 0 |
| 31. Annual repairs to No. 1, Resident Medical Officer's quarters for 1917-18 ...            | 335    | 0   | 0   | 252   | 0 | 0 |
| 32. Annual repairs to Sergeant's quarters for 1917-18 ...                                   | 120    | 0   | 0   | 100   | 0 | 0 |
| 33. Annual repairs to No. 2, Resident Medical Officer's quarters for 1917-18                | 290    | 0   | 0   | 257   | 0 | 0 |
| 34. Renewing call bell installation in the European Officer's quarters ...                  | 540    | 0   | 0   | 516   | 0 | 0 |
| 35. Special repairs to water tank ...                                                       | 420    | 0   | 0   | 80    | 0 | 0 |
| Total ...                                                                                   | 20,162 | 0   | 0   |       |   |   |

A description of the works executed and their necessity are given below, quoting authority:—

1. Vide item 6 of 1916. The proposal for enclosing the main stair case leading to the Nurses' quarters having been withdrawn (vide Surgeon-General's No. 5-B1/87, dated 8th January 1917), the cost of materials purchased by the Public Works Department has been shown under outlay.

2. Vide item 9 of 1916. Improvements include the following items:—

- (1) Latrines with two seats for the servants of the Resident Medical Officers.
- (2) Shower bath connexions in all the bath rooms of the second-class paying wards.
- (3) Providing railings with gateways to the places below certain stair cases.
- (4) Other petty improvements.

The last three were completed during 1916.

Regarding No. (1) it is decided to put off the work for the present, as the construction of a latrine for the servants at such a large cost as Rs. 565 was not considered urgent (vide Surgeon-General's No. 5-B1/1797, dated 23rd March 1917).

3. The record room was dark and without a light. The use of any other light in the record room being objectionable an electric pendant light was provided (G.O. No. 38 W., dated 6th January 1917, communicated in Surgeon-General's No. 5-B1/454, dated 25th January 1917).

4. Vide item 5 of 1916. As there was no boiler attached to the Duff stove, which replaced the old Benham stove in the European kitchen, a separate boiler was provided with steam connexions to the hot cases in the pantry on the first floor. Surgeon-General's No. 5-B1/6419, dated 24th October 1915.

5. Improvements including cleaning and covering the boiler and the steam pipes of the laundry with mica composition to prevent radiation and also for fixing a reducing valve between the boiler and the machines, as instructed by the Chief Boiler Inspector (vide Surgeon-General's sanction No. 5-B1/3427, dated 8th June 1916).

6. Vide item 13 of 1916. The installation of electric clocks is now complete, being supervised by the Public Works Department.

7. Vide item 14 of 1916. The revised estimate for Rs. 907 sanctioned in G.O. No. 100 W., dated 21st January 1916, has been further raised to Rs. 1,110 (vide G.O. No. 419 W., dated 28th March 1917, communicated in Surgeon-General's No. 5-B1/2253, dated 14th April 1917).

8. Alterations were made to the coach-house providing separately a horse stall. Surgeon-General's sanction No. 5-B1/600, dated 1st February 1917.

9. The original estimate, sanctioned by Government in Order No. 1661 W., dated 11th November 1916, has been revised, the amount sanctioned being Rs. 4,850 (G.O. No. 1518 W., dated 29th November 1917, communicated in Surgeon-General's No. 5-B1/8429, dated 15th December 1917). The whole roof of the contagious sheds was lowered and the slope reduced. This was necessary as the tiles were slipping off the roof.

10. This item includes provision for (1) large ceiling fans in lieu of the existing cabin fans in the surgical and isolation huts, (2) providing lights in the Linen department, and (3) in the new masulchis' room. The original estimate for Rs. 1,206, sanctioned by Government in Order No. 101 W., dated 17th January 1917, has been increased to Rs. 1,631, the excess difference of Rs. 425 being due to the present increased rates of materials owing to war conditions, etc.

11. An estimate for Rs. 80 was sanctioned in G.O. No. 420 W., dated 20th March 1917 (communicated in Surgeon-General's No. 5-B1/2252, dated 14th April 1917), and the Public Works Department erected a flag staff on the hospital building (on the top of the front gable over the male operation theatre) in compliance with G.O. No. 1565, dated 24th October 1916, supplying a flag (Union Jack) 12' x 6'.

The duty of hoisting the flag on the following occasions as prescribed by Government has been entrusted to the Hospital Sergeant:—

- (1) New year's day.
- (2) Anniversary of His Majesty's Accession (May 6).
- (3) Anniversary of the Coronation Darbar by His Majesty the King-Emperor (December 12).
- (4) King's Birthday.
- (5) Empire day (May 24).
- (6) Her Majesty the Queen-Empress's Birthday (May 26).
- (7) His Royal Highness the Prince of Wales' Birthday (June 23).
- (8) The day of visiting the premises by important persons, e.g., His Excellency the Viceroy, His Excellency the Governor or Member of Council.
- (9) All local festivals.

12. These include the conversion of the combined bath room and lavatory near the kitchen of the Nurses' quarters into bath rooms only and the bath room at the north-east corner into cubicles for lavatories. In the former, there were only five bath rooms and a urinal. Six more bath rooms have now been added providing two more wash-hand basins; the work was executed by the Public Works Department. Seven cubicles have been provided with water-supply and wash-hand basin arrangements (G.O. No. 886 W., dated 4th July 1917, communicated in Surgeon-General's No. 5-B1/4993, dated the 27th July 1917).

13. The improvements include fitting up two shower baths in each of the three Indian bath rooms. Teakwood partitions with doors have also been provided—vide Surgeon-General's sanction No. 5-BI/3889, dated 18th June 1917.

14. Improvements include the following items of expenditure sanctioned in G.O. Mis. No. 296 W., dated 21st February 1917, communicated in Surgeon-General's No. 5-BI/1688, dated 20th March 1917:—

|                                                                 | Rs. |
|-----------------------------------------------------------------|-----|
| (1) Improvements to the male operation theatre ... ..           | 910 |
| (2) Construction of a Duff stove in the European kitchen ... .. | 880 |
| (3) Provision of sheet iron plates for Duff stoves ... ..       | 45  |
| (4) Improvements to the old engine room ... ..                  | 195 |

Explanation of the above.—(1) The original estimate sanctioned by the Surgeon-General in his No. 5-BI/5957, dated 27th September 1916, was for Rs. 950 and the improvements provided for replacing the existing basins in the male operation theatre with sanitary basins, etc.

(2) The old Benham stove in the European kitchen was dismantled, having been condemned by the Senior Inspector of Boilers, and a Duff stove was provided in lieu. A separate boiler for generating steam with connexions to the hot cases on the first floor was also supplied—vide item 5 of 1916.

(3) Iron plates for the newly-built Duff stove were again provided to prevent cracks occurring through expansion of the fire bars—vide item 5 of 1916.

(4) Vide item 12 of 1916. The platform which supported the engine was broken and levelled to the ground. The floor was cemented.

#### Repairs.

15. Vide item 19 of 1916. The annual repairs include repairs to wiring, renewal of lamps, etc., and also the cost of maintaining a petty staff to look after the installation in the main building and its out-houses.

16. 17 and 18. Vide items 20, 22 and 23 of 1916. The usual repairs to wiring, etc., to maintain the installation in good order.

19. Item 24 of 1916. Includes repairs to punkahs and ropes and also the cost of maintaining an establishment for attending them.

20. Item 25 of 1916. Include the usual white and colour washing to walls and ceilings, painting roof timbers and doors and windows and other repairs necessary to keep the building in good order. Surgeon-General's No. 5-BI/1501, dated 21st March 1916.

21 and 22. Vide items 27 and 28 of 1916. The original estimate for Rs. 1,100, sanctioned by the Surgeon-General, was revised by the Public Works Department raising the amount to Rs. 2,520. This was necessary to carry out other petty works of construction and repairs noticed, when carrying out annual repairs to the buildings.

23. Vide item 29 of 1916.

24. The teak beam, 12" x 18", at the south end of the nurses' dining hall was found cracked. This was removed and replaced by double steel girders of a section 5" x 12" x 85 lb. each, boxed with teak planks so as to be in keeping with the other wooden beams.

25. The cotton ropes of all punkahs were covered with long cloth.

26. The entire roof of the old laundry and also that of the store room adjoining the old engine room were removed and re-roofed with Mangalore tiles. The original estimate sanctioned was for Rs. 460—vide Surgeon-General's No. 5-BI/524, dated 29th January 1917. This was increased to Rs. 610 to carry out certain additions, which were found necessary during the execution of the work originally proposed—vide Surgeon-General's No. 5-BI/4338, dated 2nd July 1917.

27. The annual white-washing of the buildings and out-houses was commenced in the second week of May 1917 and completed towards the end of October 1917. In addition to white-washing and colour-washing, the Public Works Department painted the windows and roof timbers with one coat of grey paint, wherever necessary and also the inside rooms and bath rooms attached to each of the rooms of the second-class paying wards. The inside walls of the European dining room and the X-ray room were colour-washed with calcarium.

White-washing and colour-washing inside walls of the ward and other rooms in the hospital were, as usual, done departmentally.

28. Includes the usual annual electric repairs to the hospital (Rs. 2,989) and repairs punkahs including removal of ropes, etc. (Rs. 600).

29 and 30. Provision was made for repairs to wiring, etc., in the first and second Resident Medical Officers' quarters at Rs. 93 and Rs. 101 respectively.

31. The original estimate for Rs. 260 was raised to Rs. 325.

32. The usual annual repairs were done.

33. In addition to the usual white and colour-washing, painting the walls of the office room, doors and windows, roof timbers, etc. (including varnishing the main stair case) was carried out.

34. The installation which was old and daily getting out of order was rewired.

35. Some of the planks of the boarded floor over the lower water storage tank (near the kitchen), which were found to be rotten were renewed and the leaks in the walls of the tank cemented.

Several minor repairs which required immediate attention were done by the department. Other repairs such as leakage in water-pipes, renewal of taps, fall pipes, wire-netting of the verandahs were carried out by the Public Works Department.

The following are the works proposed and sanctioned by Government:—

1. **Estimate, Rs. 17,300 approximate.**—Sheds for female tuberculosis patients, two wards of 8 beds each with bath rooms and lavatories—G.O. No. 1623 W., dated 20th December 1917, communicated in Surgeon-General's No. 5-BI/367, dated 23rd January 1918.

2. **Estimate, Rs. 21,500.**—Providing additional accommodation for the nurses in the General Hospital—vide G.O. Mis. No. 1405 W., dated 6th November 1917, communicated in Surgeon-General's No. 5-BI/7802, dated 23rd November 1917.

3. **Estimate, Rs. 113.**—Providing six patent punkah disconnecting devices at the General Hospital—G.O. Mis. No. 1863 W., dated 30th October 1917, communicated in Surgeon-General's No. 5-BI/7744, dated 21st November 1917.

#### Sanctioned Estimates which await Execution or Completion are—

1. **Estimate, Rs. 230.**—Providing two separate mains to the X-ray department—Surgeon-General's No. 5-BI/8474, dated 17th December 1917.

2. **Estimate, Rs. 710.**—Repairing the tiled roofs of the milk shed, medical store room, Indian kitchen, etc., and also the cracks in the Bengal terrace of the nurses' kitchen.

3. **Estimate, Rs. 30.**—Petty repairs to the furnace in the laundry.

4. **Estimate, Rs. 4,570.**—Special repairs which include—

(a) Repairs to rattan chairs.

(b) Fixing teakwood venetian shutters to the windows.

(c) Supplying grated wire-netting to the openings in the children ward stair case room and kitchen.

(d) Painting the walls of the male operation theatre with parapan—Surgeon-General's No. 5-BI/8031, dated 30th November 1917.

**Estimate, Rs. 170.**—Converting the European pantry on the first floor into a serving room—Surgeon-General's No. 5-BI/8306, dated 11th December 1917.

**Estimate, Rs. 420.**—Repairs to the water storage tanks in the General Hospital—Surgeon-General's No. 5-BI/6651, dated 1st October 1917.

#### Estimates awaiting Sanction.

1. **Original Estimate, Rs. 2,566** } Providing 20 sterilizer plugs—G.O.   
 **Revised Estimate, Rs. 3,914.** } Mis. No. 41 W., dated 17th January   
 1918, covered by Surgeon-General's Endorsement No. 100/581, dated 1st February 1918.

2. **Estimate, Rs. 800.**—Alterations and improvements to the venereal section and surgical ward latrine. This office R.C. No. 2744/Gl., dated 29th November 1917, to the Executive Engineer, North Presidency Division, Madras.

3. **Estimate, Rs. 3,200.**—Construction of a new clinical theatre with laboratory.

4. **Estimate, Rs. 710.**—Alterations to the existing post-mortem room. This office R.C. No. 847/Gl., dated 27th October 1917, to the Personal Assistant to the Surgeon-General with the Government of Madras, Madras.

#### 2 Total treated—

##### (a) Out-patients—

|                        |                        |        |        |
|------------------------|------------------------|--------|--------|
| (1) Number treated     | { Non-Europeans ... .. | 55,183 |        |
|                        | { Europeans ... ..     | 4,690  | 59,873 |
| (2) Average daily sick | { Non-Europeans ... .. | 459.57 |        |
|                        | { Europeans ... ..     | 25.79  | 485.36 |

(b) *In-patients*—

|                |     |               |     |       |       |
|----------------|-----|---------------|-----|-------|-------|
| (1) Remaining  | ... | Non-Europeans | ... | 229   |       |
|                | ... | Europeans     | ... | 79    |       |
|                |     |               |     |       | 308   |
| (2) Admissions | ... | Non-Europeans | ... | 5,444 |       |
|                | ... | Europeans     | ... | 1,609 |       |
|                |     |               |     |       | 7,053 |
| Total          | ... |               |     |       | 7,361 |

(3) *Results*—

|                      | Non-Europeans. | Europeans. | Total |
|----------------------|----------------|------------|-------|
| Cured                | 2,784          | 1,023      | 3,807 |
| Relieved             | 1,398          | 348        | 1,746 |
| Otherwise discharged | 920            | 184        | 1,104 |
| Died                 | 304            | 62         | 366   |

The following statement gives the totals for in-patients and out-patients (European and non-European) treated during the past ten years: an average for the ten years is also shown for comparison with the figures for 1917:—

| Years. | In-patients.   |            |                     |            | Out-patients.  |            |                     |            |
|--------|----------------|------------|---------------------|------------|----------------|------------|---------------------|------------|
|        | Total treated. |            | Average daily sick. |            | Total treated. |            | Average daily sick. |            |
|        | Non-Europeans. | Europeans. | Non-Europeans.      | Europeans. | Non-Europeans. | Europeans. | Non-Europeans.      | Europeans. |
| 1907   | 4,592          | 1,747      | 284.03              | 108.17     | 46,242         | 7,038      | 351.36              | 46.53      |
| 1908   | 5,533          | 1,979      | 308.63              | 111.85     | 45,705         | 6,538      | 352.91              | 45.83      |
| 1909   | 5,629          | 1,946      | 305.61              | 115.03     | 45,998         | 6,097      | 411.16              | 47.06      |
| 1910   | 5,818          | 2,038      | 309.95              | 113.12     | 45,876         | 6,120      | 407.33              | 46.72      |
| 1911   | 5,705          | 2,066      | 312.65              | 121.41     | 41,453         | 6,107      | 393.87              | 40.77      |
| 1912   | 6,270          | 2,022      | 327.58              | 108.54     | 45,232         | 5,740      | 341.75              | 35.04      |
| 1913   | 5,579          | 2,057      | 332.63              | 123.03     | 47,006         | 6,229      | 349.11              | 35.24      |
| 1914   | 6,179          | 2,127      | 318.99              | 120.18     | 55,807         | 7,047      | 421.25              | 38.66      |
| 1915   | 5,740          | 1,823      | 291.99              | 109.33     | 56,958         | 5,900      | 409.77              | 27.41      |
| 1916   | 6,176          | 1,743      | 284.76              | 94.47      | 53,177         | 5,160      | 427.30              | 27.57      |
| 1917   | 5,673          | 1,888      | 278.70              | 98.90      | 55,183         | 4,690      | 459.57              | 25.79      |

*In-patients.*—Comparing the figures for 1917 with those of 1916, it is observed that there was a decrease in the number of European and non-European admissions though the average daily attendance was not greatly affected.

During the decennium ending 1917, the total admissions among non-Europeans steadily increased in the first four years (1907 to 1910) and fluctuated from 1911, as a result the admissions in 1917 fell down to what it was eight years ago; besides, the number of these admissions, viz., 5,673, is slightly below the average of the past ten years.

The European admissions, which remained the same with slight variations up to 1914, declined perceptibly year after year from 1915; the total treated during 1917 being 1,688 only which is far below the average of ten years.

*Average daily sick.*—From a reading of the figures from 1907 it is observed that the Non-European average steadily and slightly increased until 1914 from which year it decreased and recorded the smallest number in 1917. The remarks applied to European admissions apply also to the average daily sick which is far below the average of ten years and the smallest average ever recorded.

*Out-patients.*—The number of non-European admissions increased during 1917 as compared with 1916 and perceptibly over the average of the past ten years; while the European admissions recorded again a decrease in their number in 1907 which is far below the average of ten years.

The average daily attendance of non-Europeans increased equally with the admissions while that of the Europeans decreased equally.

The appended statements show the number of European and non-European admissions during each month of the past ten years.

The decrease in admissions among non-Europeans during 1917 as compared with 1916 did not occur in any particular month but was fairly distributed throughout the year. On the contrary the European admissions exhibited a continuous rise in the first four months of the year though fluctuated a little in May and June and declined continuously from July, thus accounting for the decrease in the total.

*Non-Europeans.*

| Number of years. | Remaining for the year. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
|------------------|-------------------------|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|-----------|-----------|--------|
| 1907             | 273                     | 338      | 299       | 370    | 313    | 394  | 325   | 347   | 374     | 373        | 357      | 361       | 418       | 4,592  |
| 1908             | 311                     | 447      | 462       | 430    | 380    | 473  | 421   | 410   | 462     | 408        | 400      | 427       | 412       | 5,533  |
| 1909             | 290                     | 427      | 464       | 407    | 407    | 469  | 444   | 481   | 452     | 459        | 457      | 420       | 414       | 5,629  |
| 1910             | 209                     | 449      | 417       | 418    | 376    | 520  | 491   | 468   | 480     | 441        | 476      | 511       | 450       | 5,818  |
| 1911             | 262                     | 481      | 376       | 439    | 379    | 495  | 507   | 460   | 512     | 442        | 445      | 498       | 489       | 5,705  |
| 1912             | 292                     | 545      | 546       | 553    | 532    | 588  | 501   | 529   | 454     | 423        | 437      | 427       | 444       | 6,270  |
| 1913             | 305                     | 498      | 421       | 414    | 435    | 473  | 399   | 421   | 437     | 394        | 422      | 492       | 498       | 5,579  |
| 1914             | 293                     | 479      | 431       | 504    | 512    | 530  | 487   | 554   | 471     | 479        | 508      | 456       | 480       | 6,179  |
| 1915             | 266                     | 441      | 388       | 439    | 430    | 475  | 586   | 493   | 451     | 480        | 479      | 435       | 437       | 5,740  |
| 1916             | 219                     | 437      | 461       | 471    | 506    | 561  | 469   | 547   | 535     | 493        | 447      | 518       | 452       | 6,176  |
| 1917             | 229                     | 435      | 424       | 539    | 448    | 497  | 427   | 490   | 415     | 458        | 469      | 429       | 453       | 5,673  |

*Europeans.*

| Number of years. | Remaining for the year. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
|------------------|-------------------------|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|-----------|-----------|--------|
| 1907             | 68                      | 130      | 103       | 124    | 142    | 141  | 132   | 151   | 158     | 158        | 143      | 149       | 148       | 1,747  |
| 1908             | 85                      | 168      | 174       | 167    | 149    | 156  | 135   | 151   | 181     | 182        | 177      | 151       | 108       | 1,979  |
| 1909             | 73                      | 156      | 142       | 149    | 147    | 166  | 166   | 151   | 172     | 168        | 182      | 169       | 105       | 1,946  |
| 1910             | 85                      | 158      | 141       | 155    | 126    | 157  | 153   | 160   | 207     | 212        | 198      | 167       | 129       | 2,038  |
| 1911             | 89                      | 164      | 163       | 158    | 139    | 181  | 161   | 182   | 192     | 158        | 172      | 159       | 149       | 2,066  |
| 1912             | 101                     | 178      | 167       | 148    | 180    | 169  | 169   | 156   | 174     | 163        | 162      | 148       | 129       | 2,022  |
| 1913             | 81                      | 194      | 134       | 150    | 171    | 188  | 172   | 146   | 160     | 162        | 186      | 173       | 160       | 2,057  |
| 1914             | 108                     | 195      | 154       | 176    | 181    | 178  | 135   | 172   | 191     | 175        | 176      | 137       | 151       | 2,127  |
| 1915             | 85                      | 174      | 135       | 140    | 154    | 136  | 162   | 164   | 169     | 141        | 126      | 137       | 101       | 1,823  |
| 1916             | 65                      | 135      | 125       | 144    | 119    | 158  | 113   | 171   | 179     | 149        | 130      | 145       | 120       | 1,743  |
| 1917             | 79                      | 165      | 135       | 150    | 123    | 145  | 120   | 150   | 148     | 136        | 117      | 123       | 97        | 1,688  |

**3. Mortality.**—The following table shows the number of deaths during 1916 and 1917 for each disease together with the percentage:—

| Diseases.                           | Non-Europeans. |                                       |         |                                       | Europeans. |                                       |         |                                       |
|-------------------------------------|----------------|---------------------------------------|---------|---------------------------------------|------------|---------------------------------------|---------|---------------------------------------|
|                                     | 1916.          |                                       | 1917.   |                                       | 1916.      |                                       | 1917.   |                                       |
|                                     | Deaths.        | Percentage of death to total treated. | Deaths. | Percentage of death to total treated. | Deaths.    | Percentage of death to total treated. | Deaths. | Percentage of death to total treated. |
| 1 Cholera                           | 17             | 8.50                                  | 8       | 4.64                                  | 2          | 2.63                                  | ...     | ...                                   |
| 2 Dysentery                         | 11             | 20.75                                 | 3       | 7.31                                  | 1          | 1.54                                  | 3       | 8.81                                  |
| 3 Enteric fever                     | ...            | ...                                   | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 4 Gonorrhoea                        | ...            | ...                                   | 6       | 14.62                                 | ...        | 7.41                                  | 1       | 3.45                                  |
| 5 Kala-azar                         | 1              | 2.57                                  | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 6 Leprosy                           | 3              | 25.00                                 | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 7 Malaria                           | 5              | 17.6                                  | 7       | 2.89                                  | 1          | 0.83                                  | ...     | ...                                   |
| 8 Plague                            | ...            | ...                                   | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 9 Pneumonia                         | 19             | 15.70                                 | 26      | 21.84                                 | 4          | 10.53                                 | 6       | 16.67                                 |
| 10 Pyrexia of uncertain origin      | 5              | 4.38                                  | 5       | 6.85                                  | 2          | 3.51                                  | 2       | 1.85                                  |
| 11 Rheumatic fever and rheumatism   | 4              | 5.71                                  | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 12 Small-pox                        | ...            | ...                                   | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 13 Syphilis (primary and secondary) | 10             | 6.69                                  | 1       | .81                                   | ...        | ...                                   | 1       | 4.16                                  |
| 14 Tubercle of the lung             | 27             | 12.83                                 | 13      | 8.02                                  | 9          | 18.04                                 | 5       | 13.16                                 |
| 15 Other tubercular diseases        | 3              | 2.16                                  | 12      | 10.81                                 | 4          | 27.39                                 | 1       | 7.69                                  |
| 16 All other infective diseases     | 12             | 5.80                                  | 24      | 12.76                                 | 3          | 3.16                                  | 2       | 1.61                                  |
| 17 Anaemia                          | 1              | 2.38                                  | 5       | 10.41                                 | ...        | ...                                   | 1       | 16.66                                 |
| 18 Diabetes                         | 2              | 5.71                                  | 4       | 8.51                                  | ...        | ...                                   | ...     | ...                                   |
| 19 Scoury                           | ...            | ...                                   | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 20 New growth                       | 1              | 3.84                                  | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 21                                  | ...            | ...                                   | ...     | ...                                   | 1          | 100.00                                | ...     | ...                                   |

| Diseases.                                                                            | Non-Europeans. |                                       |         |                                       | Europeans. |                                       |         |                                       |
|--------------------------------------------------------------------------------------|----------------|---------------------------------------|---------|---------------------------------------|------------|---------------------------------------|---------|---------------------------------------|
|                                                                                      | 1916.          |                                       | 1917.   |                                       | 1916.      |                                       | 1917.   |                                       |
|                                                                                      | Deaths.        | Percentage of death to total treated. | Deaths. | Percentage of death to total treated. | Deaths.    | Percentage of death to total treated. | Deaths. | Percentage of death to total treated. |
| 22 All other general diseases ...                                                    | 0              | 4.29                                  | 4       | 2.19                                  | 2          | 2.63                                  | 1       | 4.17                                  |
| 23 Diseases of the nervous system ...                                                | 5              | 5.82                                  | 2       | 3.93                                  | 7          | 20.59                                 | 1       | ...                                   |
| 24 Do. eye ...                                                                       | ...            | ...                                   | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 25 Do. ear ...                                                                       | ...            | ...                                   | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 26 Do. nose ...                                                                      | 1              | 5.82                                  | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 27 Do. circulatory system ...                                                        | 7              | 7.45                                  | 30      | 0.99                                  | 7          | 17.50                                 | 1       | ...                                   |
| 28 All diseases of the respiratory system except pneumonia and tubercle of the lung. | 25             | 6.05                                  | 8       | 8.85                                  | 12         | 5.68                                  | 10      | 2.12                                  |
| 29 Dyspepsia ...                                                                     | 2              | 9.52                                  | 2       | 11.11                                 | ...        | ...                                   | ...     | ...                                   |
| 30 Diarrhoea ...                                                                     | 5              | 8.93                                  | 3       | 5.71                                  | 1          | 7.69                                  | 1       | 9.49                                  |
| 31 Abscess of the liver ...                                                          | 8              | 11.52                                 | 4       | 13.79                                 | 1          | 10.00                                 | 1       | 33.33                                 |
| 32 All other diseases of the liver ...                                               | 7              | 6.86                                  | 12      | 11.01                                 | 1          | 7.69                                  | 2       | 40.00                                 |
| 33 Appendicitis ...                                                                  | 5              | 13.16                                 | ...     | ...                                   | 1          | 2.22                                  | ...     | ...                                   |
| 34 All other diseases of the digestive system.                                       | 18             | 2.36                                  | 62      | 6.21                                  | 6          | 4.55                                  | 10      | 4.29                                  |
| 35 Inflammation and suppuration of lymph glands.                                     | 2              | 1.45                                  | 2       | 1.94                                  | ...        | ...                                   | ...     | ...                                   |
| 36 Goitre ...                                                                        | 1              | 14.28                                 | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 37 Bright's disease ...                                                              | 5              | 16.67                                 | 2       | 11.77                                 | 1          | 16.67                                 | ...     | ...                                   |
| 38 All other diseases of the urinary system.                                         | 15             | 4.85                                  | 9       | 3.70                                  | 1          | 2.63                                  | 3       | 6.67                                  |
| 39 Hydrocele ...                                                                     | 4              | 1.78                                  | 4       | 1.90                                  | ...        | ...                                   | ...     | ...                                   |
| 40 Other diseases of the generative system.                                          | ...            | ...                                   | 3       | 1.42                                  | 3          | 9.39                                  | 2       | 4.16                                  |
| 41 Diseases of the organs of locomotion.                                             | 16             | 4.17                                  | 11      | 4.06                                  | 1          | 2.13                                  | 2       | 3.64                                  |
| 42 Diseases of the connective tissue                                                 | 4              | 3.12                                  | 1       | 0.81                                  | 1          | 2.18                                  | ...     | ...                                   |
| 43 Ulcers ...                                                                        | 1              | 5.68                                  | 1       | 1.61                                  | 1          | 2.70                                  | ...     | ...                                   |
| 44 Other diseases of the skin ...                                                    | 21             | 4.34                                  | 9       | 2.55                                  | ...        | ...                                   | ...     | ...                                   |
| 45 All other local diseases                                                          | 4              | 1.76                                  | 5       | 1.55                                  | ...        | ...                                   | 2       | 2.88                                  |
| 46 Injuries (general and local)                                                      | 17             | 6.12                                  | 21      | 11.26                                 | 1          | 4.35                                  | 3       | 14.29                                 |
| 47 Poisoning { By opium ...                                                          | 1              | 10.00                                 | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 48 { By other poisons ...                                                            | 2              | 28.57                                 | 2       | 20.00                                 | ...        | ...                                   | 1       | 50.00                                 |
| 49 Labour { Normal ...                                                               | ...            | ...                                   | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| 50 { Abnormal ...                                                                    | ...            | ...                                   | ...     | ...                                   | ...        | ...                                   | ...     | ...                                   |
| Total ...                                                                            | 301            | 4.87                                  | 304     | 5.36                                  | 76         | 4.36                                  | 62      | 3.67                                  |

Of the 7,361 in-patients treated during the year, 366 died. This gives a death-rate of 49.72 per mille as compared with 47.6 per mille for 1916. The death-rate among Europeans was 36.7, that for non-Europeans being 53.6.

The register of moribund cases gives a total of 127 admissions during the year. Deducting this number from the total treated, the death-rate for the hospital is 32.46 per mille, as compared with 33.2 per mille for 1916.

#### Deaths from Septic Causes.—

|                                       | Number of cases. |
|---------------------------------------|------------------|
| Extravasation of urine ...            | ...              |
| Tetanus ...                           | 1                |
| Sapremia and septicæmia ...           | 15               |
| Peritonitis ...                       | 13               |
| Cystitis ...                          | 13               |
| Cellulitis ...                        | 3                |
| Diabetic gangrene foot, etc. ...      | 2                |
| Septic meningitis ...                 | 2                |
| Toxæmia ...                           | 1                |
| Septic complications due to burns ... | 4                |
| Total ...                             | 55               |

Fifty-five deaths from sepsis were recorded as compared with fifty in 1916. Of these two were of cases acquired in hospital and 53 of cases before admission.

The following table shows the total number of deaths for the last three years, the deaths from septic causes and the number of cases admitted and discharged in a moribund condition. The percentage of mortality for the year was 4.97:—

| Year.    | Total number of deaths. | Ratio per cent of deaths to total treated. | Cases admitted moribund. | Cases removed moribund. | Deaths from septic diseases. |                            | Ratio per cent of deaths to total treated exclusive of cases admitted moribund. |
|----------|-------------------------|--------------------------------------------|--------------------------|-------------------------|------------------------------|----------------------------|---------------------------------------------------------------------------------|
|          |                         |                                            |                          |                         | Acquired in hospital.        | Acquired before admission. |                                                                                 |
| 1915 ... | 440                     | 5.82                                       | 124                      | 11                      | 2                            | 56                         | 4.18                                                                            |
| 1916 ... | 377                     | 4.76                                       | 114                      | 8                       | 3                            | 47                         | 3.32                                                                            |
| 1917 ... | 366                     | 4.97                                       | 127                      | 5                       | 2                            | 53                         | 3.24                                                                            |

4. Classes of Diseases.—The following statement shows the total treated (both among in and out-door patients) of the most important diseases which came up for treatment during 1917 as compared with 1916:—

| Classes of diseases.                                                   | 1916.          |           | Total.   | 1917.          |       | Total. |
|------------------------------------------------------------------------|----------------|-----------|----------|----------------|-------|--------|
|                                                                        | Total treated. |           |          | Total treated. |       |        |
|                                                                        | In-door.       | Out-door. | In-door. | Out-door.      |       |        |
| Other general diseases ... ..                                          | 286            | 1,143     | 1,429    | 192            | 880   | 1,062  |
| Malarial fevers ... ..                                                 | 49.1           | 7,065     | 7,495    | 511            | 6,176 | 6,687  |
| Diseases of the digestive system ... ..                                | 1,097          | 8,464     | 9,561    | 1,632          | 7,787 | 9,319  |
| Do. respiratory system excepting pneu-<br>monia and tubercle of lungs. | 628            | 6,399     | 7,027    | 394            | 6,712 | 7,106  |
| Do. skin ... ..                                                        | 801            | 5,198     | 5,999    | 512            | 8,219 | 8,731  |
| Do. ear ... ..                                                         | 49             | 2,876     | 2,725    | 24             | 3,158 | 3,182  |
| Do. generative system ... ..                                           | 380            | 5,189     | 5,549    | 529            | 1,914 | 2,443  |
| Do. nervous system ... ..                                              | 128            | 521       | 649      | 75             | 394   | 469    |
| Do. urinary system ... ..                                              | 383            | 689       | 1,072    | 310            | 756   | 1,066  |
| Do. connective tissue ... ..                                           | 600            | 6,786     | 7,386    | 458            | 8,404 | 8,882  |
| Injuries (general and local) ... ..                                    | 301            | 1,481     | 1,782    | 234            | 2,384 | 2,668  |
| Ulcers ... ..                                                          | 213            | 2,887     | 3,100    | 89             | 4,620 | 4,709  |
| Dyspepsia ... ..                                                       | 28             | 447       | 575      | 25             | 366   | 391    |
| Rheumatic fever and rheumatism ... ..                                  | 105            | 291       | 396      | 99             | 109   | 208    |
| Dysentery ... ..                                                       | 274            | 1,303     | 1,577    | 237            | 934   | 1,171  |
| Tuberculous affections ... ..                                          | 450            | 596       | 1,048    | 324            | 917   | 1,241  |
| Syphilis ... ..                                                        | 178            | 565       | 738      | 147            | 587   | 734    |
| Gonorrhoea ... ..                                                      | 118            | 1,058     | 1,171    | 125            | 972   | 1,097  |

Comparing the figures for 1917 with those for 1916, the following large differences occur:—

Diseases of the skin (2,732), diseases of the ear (457), diseases of the connective tissue (1,476), local and general injuries (786), ulcers (1,609), tuberculous affections (193), malarial fevers (— 803), diseases of the digestive system (— 242), diseases of the generative system (— 3,106), dysentery (— 406).

#### Malaria.—

| Years.   | Number of cases. | Years.   | Number of cases. |
|----------|------------------|----------|------------------|
| 1901 ... | 11,317           | 1910 ... | 1,822            |
| 1902 ... | 8,213            | 1911 ... | 1,871            |
| 1903 ... | 6,654            | 1912 ... | 3,513            |
| 1904 ... | 4,211            | 1913 ... | 8,457            |
| 1905 ... | 3,482            | 1914 ... | 9,118            |
| 1906 ... | 3,031            | 1915 ... | 8,821            |
| 1907 ... | 1,260            | 1916 ... | 7,495            |
| 1908 ... | 1,843            | 1917 ... | 6,687            |
| 1909 ... | 1,903            |          |                  |

There was again a decrease in the number of malarial fevers which came under treatment in 1917. This means that the epidemic which broke out in 1912 is gradually dying out.

#### Septic Cases.—

|                          | Number admitted. |
|--------------------------|------------------|
| Admitted with sepsis ... | 175              |

5. Operations.—The following is the comparative statement of work done by the three surgeons during the years 1915, 1916 and 1917:—

|                    | Years. |       |       |
|--------------------|--------|-------|-------|
|                    | 1915.  | 1916. | 1917. |
| First Surgeon ...  | 1,394  | 1,311 | 1,294 |
| Second Surgeon ... | 960    | 978   | 1,018 |
| Third Surgeon ...  | 1,159  | 1,386 | 1,263 |
| Total ...          | 3,513  | 3,675 | 3,575 |

The above figures represent the number of patients on whom operations were performed.. A comparison of the figures for 1917 with those of the two preceding years show a decrease of 100 over 1916 and an increase of 62 over 1915.

Excluding such surgical aids as hypodermic injections, passing of catheters, etc., the number of operations performed during 1917 is as follows :—

|                |     |     |     |     |     |     |       |
|----------------|-----|-----|-----|-----|-----|-----|-------|
| First Surgeon  | ... | ... | ... | ... | ... | ... | 779   |
| Second Surgeon | ... | ... | ... | ... | ... | ... | 547   |
| Third Surgeon  | ... | ... | ... | ... | ... | ... | 25    |
| Total          | ... | ... | ... | ... | ... | ... | 2,051 |

The statement G appended show the details of operations performed in 1917 and the professional reports of the respective surgeons contain descriptive details of the most important and interesting cases.

**6. Sexes and classes of patients treated.**—Vide statement F attached. The following statement shows, in a convenient form, the various classes and sexes of patients treated, both in and out, during the year as compared with the two preceding years :—

| Years | Europeans and Anglo-Indians. |          |           |         | Hindus. |         |           |         | Muhammadans. |         |           |         | Others. |         |           |         | Total treated. |
|-------|------------------------------|----------|-----------|---------|---------|---------|-----------|---------|--------------|---------|-----------|---------|---------|---------|-----------|---------|----------------|
|       | Adults.                      |          | Children. |         | Adults. |         | Children. |         | Adults.      |         | Children. |         | Adults. |         | Children. |         |                |
|       | Male.                        | F. male. | Male.     | Female. | Male.   | Female. | Male.     | Female. | Male.        | Female. | Male.     | Female. | Male.   | Female. | Male.     | Female. |                |
|       | In-patients.                 |          |           |         |         |         |           |         |              |         |           |         |         |         |           |         |                |
| 1917  | 983                          | 509      | 105       | 91      | 3,180   | 611     | 117       | 73      | 851          | 34      | 7         | 2       | 878     | 313     | 62        | 45      | 7,361          |
| 1916  | 1,063                        | 507      | 115       | 58      | 3,495   | 563     | 120       | 68      | 351          | 39      | 10        | 4       | 1,013   | 365     | 84        | 44      | 7,919          |
| 1915  | 1,133                        | 500      | 118       | 72      | 3,363   | 680     | 114       | 92      | 328          | 49      | 8         | 11      | 713     | 276     | 52        | 54      | 7,563          |
|       | Out-patients.                |          |           |         |         |         |           |         |              |         |           |         |         |         |           |         |                |
| 1917  | 2,573                        | 1,164    | 520       | 433     | 23,821  | 6,160   | 3,468     | 2,008   | 2,568        | 194     | 166       | 106     | 6,593   | 1,771   | 1,175     | 1,153   | 59,873         |
| 1916  | 2,696                        | 1,427    | 643       | 394     | 26,725  | 5,577   | 3,351     | 2,668   | 2,669        | 197     | 190       | 83      | 6,491   | 2,445   | 1,494     | 1,292   | 58,337         |
| 1915  | 3,107                        | 1,586    | 679       | 528     | 30,553  | 5,959   | 3,481     | 3,326   | 2,738        | 382     | 354       | 255     | 5,338   | 2,196   | 1,241     | 1,133   | 62,858         |
|       | Total.                       |          |           |         |         |         |           |         |              |         |           |         |         |         |           |         |                |
| 1917  | 3,556                        | 1,673    | 625       | 524     | 32,001  | 6,771   | 3,585     | 3,081   | 2,919        | 228     | 173       | 108     | 7,471   | 2,084   | 1,237     | 1,198   | 67,234         |
| 1916  | 3,759                        | 1,934    | 758       | 452     | 30,220  | 6,140   | 3,471     | 2,736   | 3,040        | 286     | 200       | 92      | 7,504   | 2,810   | 1,563     | 1,336   | 66,256         |
| 1915  | 4,240                        | 2,086    | 797       | 600     | 33,916  | 6,639   | 3,595     | 3,418   | 3,066        | 181     | 362       | 266     | 6,051   | 2,474   | 1,293     | 1,187   | 70,421         |

The decrease is again noticed in the number of European males treated both among in and out and this is partly attributed to the mobilization for active service.

The decrease among "Hindu" males was more marked among in-patients while there was an appreciable increase among both sexes under out-patients. Attendance among "Muhammadans" and "Other classes" decreased both among in and out-door, while there was a slight increase in the number of "Other class" males among out-door.

**7. Epidemics.**—No cases of cholera were treated in the hospital during the year. A case of pneumonic plague (European female) was admitted on 29th January 1917 with a history of pneumonia. She was transferred to Krishnampet Isolation Hospital the next day after admission when the symptoms were noticed. During the period when the small-pox was epidemic in the city, the hospital recorded four cases against eleven in 1916 and eight in 1915. These cases were transferred to Kristnampet Isolation Hospital the day after the eruptions were noticed.

The accompanying table shows the number of enteric cases treated in the hospital during 1917, as compared with two preceding years :—

|            | 1915.       |                 | 1916.       |                 | 1917.       |                 |
|------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
|            | Euro-peans. | Non-Euro-peans. | Euro-peans. | Non-Euro-peans. | Euro-peans. | Non-Euro-peans. |
| Admissions | 91          | 124             | 65          | 53              | 76          | 41              |
|            | 215         |                 | 118         |                 | 117         |                 |

The death rate was 3.81 and 7.31 against 1.54 and 20.75 in 1916 among Europeans and Non-Europeans respectively.

**8. Training of Medical Students.**—Two hundred and one students of different ranks were given clinical instructions against 213 during the preceding year 1916.

**9. Training School for Nurses.**—During the year under report, 91 applications were received from women desirous of joining the hospital as Government probationers.

There were no applications for Lady Probationers.

**Probationers.**—The following are the figures for the year :—

|                                     |     |     |     |     |     |     |     |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|
| Existing staff on 1st January 1917  | ... | ... | ... | ... | ... | ... | 24  |
| Newly entertained                   | ... | ... | ... | ... | ... | ... | 20  |
| Total                               | ... | ... | ... | ... | ... | ... | 44  |
| Qualified and promoted to the staff | ... | ... | ... | ... | ... | ... | 18  |
| Left the service                    | ... | ... | ... | ... | ... | ... | 11* |
| Remaining on the 31st December 1917 | ... | ... | ... | ... | ... | ... | 15  |
| Total                               | ... | ... | ... | ... | ... | ... | 44  |

\* Eleven probationers left the service on the following grounds :—

|                           |     |     |     |     |     |     |   |
|---------------------------|-----|-----|-----|-----|-----|-----|---|
| Found unsuitable          | ... | ... | ... | ... | ... | ... | 6 |
| To be married             | ... | ... | ... | ... | ... | ... | 1 |
| To better their prospects | ... | ... | ... | ... | ... | ... | 4 |

N.B.—There were three probationers over the sanctioned number twelve, and five more are being entertained to fill vacancies in higher grades.

**Special Probationers.**—Nil.

**Female Ward Attendant Probationers.**—The sanctioned strength of this class is four.

|                                    |     |     |     |     |     |     |   |
|------------------------------------|-----|-----|-----|-----|-----|-----|---|
| Existing staff on 1st January 1917 | ... | ... | ... | ... | ... | ... | 4 |
| Newly entertained                  | ... | ... | ... | ... | ... | ... | 1 |
| Total                              | ... | ... | ... | ... | ... | ... | 5 |
| Dismissed from the service         | ... | ... | ... | ... | ... | ... | 1 |
| Remaining on 31st December 1917    | ... | ... | ... | ... | ... | ... | 4 |
| Total                              | ... | ... | ... | ... | ... | ... | 5 |

**10. Working of Special Departments.**—Full particulars are given in the professional reports.

**11. Finance.**—Statement H gives the details of expenditure and income of the hospital during the year 1917.

**Income.**—The main sources of revenue to the hospital are :—

(1) *Hospital stoppages recovered from paying patients.*—These represent recoveries made from such of the in-patients as are liable for payment under the orders issued by Government.

Government in their order No. 399, Medical, dated 17th September 1917, have provisionally retained the scale sanctioned in G.O. No. 466, Public, dated 11th March 1916, except in the general wards where the rate of 5 annas for every 50 rupees has been reduced to 4 annas retaining the maximum charge of Rs. 1-4-0.

The amount collected during the past three years are :—

| Year. | Amount.    |
|-------|------------|
| 1915  | Rs. 27,466 |
| 1916  | 26,818     |
| 1917  | 25,485     |

(2) *Fees for X-ray treatment and skiagraphs.*—The total amount collected during the year under report is Rs. 266 against Rs. 545 and Rs. 264. The decrease is due to the recent order of Government exempting gazetted officers and other officers, on salary exceeding Rs. 250 per mensem from payment for X-ray treatment in the General Hospital.

(3) *Hire for motor ambulances car recovered from the hospital patients and those of private practitioners.*—The amount collected during the past three years are :—

| Year. | Amount. |
|-------|---------|
| 1915  | Rs. 845 |
| 1916  | 707     |
| 1917  | 837     |

(4) *The sale-proceeds of garden produce including usufructs of coconut trees in the hospital compound.*—The amount collected during the past three years are :—

| Year.       | Amount. |
|-------------|---------|
| 1915 ... .. | Rs. 230 |
| 1916 ... .. | 280     |
| 1917 ... .. | 315     |

(5) *Fines on contractors.*—The amount collected during the past three years are :—

| Year.       | Amount.   |
|-------------|-----------|
| 1915 ... .. | Rs. A. P. |
| 1916 ... .. | 20 0 0    |
| 1917 ... .. | 487 15 11 |
|             | 318 15 9  |

(6) *The sale-proceeds of unserviceable articles, empty packings and tins and coal ash of the hot water furnaces and boilers.*—The amount collected during the past three years are :—

| Year.       | Amount. |
|-------------|---------|
| 1915 ... .. | Rs.     |
| 1916 ... .. | 1,233   |
| 1917 ... .. | 888     |
|             | 820     |

**Expenditure.**—(1) *Salaries.*—There is an increase of Rs. 4,879 in the salary of Medical officers which is due to separate Medical officers being appointed to each of the sanctioned appointments, while in the major portion of the previous year Medical officers were holding combined appointments.

The sanction and entertainment of additional staff of nurses and sisters is responsible for the increase in the salary of nurses.

(2) *Medicines, etc.*—Cost of medicines supplied by Military department of the articles and instruments ordered from home is more than that of the previous year.

(3) *Diet.*—There is only a slight increase in this year which is due to the rise in the price of some of the articles of diet.

(4) *Miscellaneous charges.*—The reason for the increase under this is the same given for diet.

(5) *Buildings.*—There is a slight increase which calls for no special remarks.

**12. Cost per head.**—Information in detail is given in Appendix C, on the amount expended on each patient, under the various heads.

**13. General Hospital Poor Fund.**—The receipts and expenditure of the Poor Fund for the year are as follows :—

| Receipts.                                    | Amount.   | Expenditure.                          | Amount.   |
|----------------------------------------------|-----------|---------------------------------------|-----------|
| Opening balance ... ..                       | Rs. A. P. |                                       |           |
| Major F. P. Elwes, C.I.E., I.M.S. ...        | 23 9 3    | Expenditure during the year ...       | Rs. A. P. |
| Cheque drawn from the Bank of Madras ...     | 45 0 0    | Balance on the 31st December 1917 ... | 134 10 9  |
| Mrs. Ali Imah Shanker ...                    | 60 0 0    |                                       | 70 14 6   |
| Mr. Barden (in first-class paying wards) ... | 10 0 0    |                                       |           |
| Mr. C. B. White ...                          | 5 0 0     |                                       |           |
| Mrs. F. E. Gwynne ...                        | 10 0 0    |                                       |           |
| Mr. W. Beardsell ...                         | 5 0 0     |                                       |           |
| Per Captain A. J. H. Russell, I.M.S. ...     | 25 0 0    |                                       |           |
| Mr. Rowbotham ...                            | 15 0 0    |                                       |           |
| Anonymous ...                                | 1 0 0     |                                       |           |
| Franzose N. Moundamalle ...                  | 8 0 0     |                                       |           |
|                                              | 10 0 0    |                                       |           |
| Total ...                                    | 295 9 8   | Total ...                             | 205 9 3   |

**14. Supplies—Medicines and Surgical Equipments.**—The procedure adopted in previous years was continued and medicines and instruments required were obtained as usual from the Government Medical Store Depot. Special and unauthorized medicines and instruments were obtained from England.

The Home indent for the official year 1917-18 aggregated £516-11-8 including X-Ray articles against £737-4-0 in 1916-17.

*Neo-salvarsan.*—243 tubes were obtained from Messrs. M. Bresillon & Co., London, at a cost of £136-7-0.

*Diet and non-diet articles.*—No deviation from procedure was made in obtaining articles of diet or non-diet. As far as possible articles were obtained by contract, but such articles as

biscuits, salad oil, Mellin's food, Worcester sauce, plasmon cocoa for which no tenders were received, were obtained departmentally by local purchases. Articles which the public departments and recognized firms could supply were obtained from them, e.g.—

Gingelly oil was obtained from the Madras Penitentiary,  
Country salt from Government Salt Depot,  
Arrack from Government Warehouse,  
Coffee and tea from Messrs. T. Stanes & Co., Coimbatore,  
White sugar from Messrs. Parry & Co.,  
Wines and spirits from Messrs. McDowell & Co.,  
Aerated waters from R. Maclure,  
Bread from Messrs. Spencer & Co.,  
Coal from Messrs. Waljee Laljee & Co., and  
Cocotine from Messrs. E. Gaudart & Co.

Towards the end of November 1917, Messrs. E. Gaudart & Co., having announced that the business management of their firm was transferred to Messrs. Best & Co., Pondicherry, their contract with this hospital was made over to their successors with their acquiescence.

Frequent losses or deterioration of articles having been noticed in storing articles in bulk, a step was taken during recent years to obtain as an experiment some important articles of diet such as rice, dhol and barley in instalments. This was found to work satisfactorily so that the same procedure was extended to other important diet articles like tea, vermicelli, chillies, coriander, garlic, pepper, tamarind, turmeric and also to non-diet articles like winnows, brooms, mats, camphor, etc., during the second-half of the official year 1917-18, the results noticed being that no wastage, dryage or loss by vermin occurred.

The selection of a contractor for the supply of firewood to the Presidency Hospitals was as usual made by the Surgeon-General and he complied with the demands of this hospital.

As a rule, the lowest tender rates were accepted. Due consideration having been given to the quality of the articles produced by contractors, the samples which were found inferior in quality or unsuitable for acceptance were rejected and samples at a little higher rates selected, e.g., country mustard, black pepper, table rice, tamarind, sago and garlic.

Bread is one of the most important articles of diet ordinarily used and the supplies obtained from a local baker were inferior; Messrs. Spencer & Co.'s rate was accepted at 2 annas a pound in preference to a rate quoted at As. 1-6½.

Owing to the difficulty in obtaining articles of English manufacture great care was taken to issue only articles which were considered necessary for the treatment of the sick.

As substitutes for non-diet articles, such as sunlight soap and beeches bar soap, the soaps produced by the Government Soap Factory at Calicut were selected; the cost was less.

*Bedding and clothing.*—All articles which the Jail department were able to supply were obtained from that department; other articles were obtained departmentally by local purchases or by contract. No tenders were received for flannel banians, chintz, quilts, etc.; these were made departmentally by purchasing material required for making them.

Articles of superior linen for first-class paying wards were obtained from (1) Messrs. Oakes & Co., Mopnt Road, Madras, (2) Basel Mission United Weaving Establishment, Calicut, to the extent of Rs. 194-13-0.

Red blankets, red cloths and red sarees which were condemned from time to time were replaced by local purchases.

The accepted contract rates of certain articles of supply by the Jail department were enhanced with the sanction of the Surgeon-General.

**Hospital necessities.**—These were purchased both departmentally and by contract. Lime and burnt shells were obtained from Government Brick Fields, superior oil (kerosene) from Messrs. Best & Co., Commercial petrol (benzoin) from the Asiatic Petroleum Company the price of benzoin was increased from Re. 1 to Rs. 1-6-6 a gallon from the 19th February 1917.

Carded cotton required for surgical purposes was obtained from Messrs. Binny & Co., at an enhanced rate of 12 annas, i.e., an excess rate of 4 annas for every pound over the rate of the previous year, muslin and long cloth by contract (Messrs. Alwar Chetti & Co.).

No tenders were received for articles, such as corks, mobile oil, knife polish, burmoline grease and other hardware articles.

The daily expenditure of more important articles issued from the Senior Assistant Surgeon's stores, a list of which is found in the appended statement, was checked by the Resident Medical Officer daily to prevent undue demand or waste. This rendered matters satisfactory in that the reduction in expenditure was maintained, though it increased during 1917 showing an excess cost of Rs. 6,625 more than in 1916. This increase in cost is accounted for by the increased rates at which several of these articles were purchased and also by the increase observed in the expenditure of surgical dressings, such as cotton, dungry cloth, muslin and long cloth.

The following statement shows the expenditure of a few of the more important articles of surgical dressings, etc.:-

The expenditure of important articles issued from Senior Assistant Surgeon's stores during the past four years.

| Articles.         | 1914.       |             |  | 1915.       |            |  | 1916.       |             |  | 1917.       |                |  |
|-------------------|-------------|-------------|--|-------------|------------|--|-------------|-------------|--|-------------|----------------|--|
|                   | Quantity.   | Cost.       |  | Quantity.   | Cost.      |  | Quantity.   | Cost.       |  | Quantity.   | Cost.          |  |
| Absorbent cotton. | 2,936 lb.   | 2,385 8 0   |  | 2,701 lb.   | 2,194 9 0  |  | 1,312 lb.   | 1,068 0 0   |  | 1,100 lb.   | 998 14 0       |  |
| Comber cotton     | 8,800 "     | 4,400 0 0   |  | 6,800 "     | 3,400 0 0  |  | 4,000 "     | 2,000 0 0   |  | 4,600 "     | 2,375 0 0      |  |
| Dungy cloth       | 40,000 pcs. | 20,000 0 0  |  | 38,000 pcs. | 19,000 0 0 |  | 20,000 pcs. | 10,000 0 0  |  | 28,000 pcs. | 15,750 0 0     |  |
| Muslin            | 2,064 yds.  | 338 4 0     |  | 2,014 yds.  | 311 7 0    |  | 1,392 yds.  | 253 12 0    |  | 2,088 yds.  | 578 7 6        |  |
| Long cloth        | 5,941 "     | 1,321 1 9   |  | 5,040 "     | 630 0 0    |  | 2,512 "     | 497 2 8     |  | 4,200 "     | 1,060 0 0      |  |
| Glycerine         | 1,225 lb.   | 1,071 14 0  |  | 989 lb.     | 865 6 0    |  | 707 lb.     | 618 10 0    |  | 648 lb.     | 39 8 1 1/2     |  |
| Alcohol           | 5,031 "     | 1,257 12 0  |  | 5,118 "     | 1,278 4 0  |  | 3,002 "     | 750 8 0     |  | 2,000 "     | 350 0 0        |  |
| Carbolic acid     | 2,338 "     | 1,836 4 0   |  | 2,342 "     | 1,463 12 0 |  | 281 "       | 175 10 0    |  | 300 "       | 697 8 0        |  |
| Flannel           | 2,176 yds.  | 1,632 0 0   |  | 1,964 yds.  | 1,473 0 0  |  | 982 yds.    | 699 0 0     |  | 964 yds.    | 821 12 0       |  |
| Total             |             | 33,937 11 9 |  |             | 29,816 6 0 |  |             | 16,060 10 8 |  |             | 22,886 1 7 1/2 |  |

**Furniture and its Repairs.**—The hospital carpenter made articles, such as commode stands, screens, shelves, etc., and devoted a great portion of his time to repairing articles; in addition, orders for repairs or new articles were executed by the Madras Penitentiary.

One wooden almirah was purchased for the European officers' quarters, one cart for watering the front portion of the hospital and 8 iron railings for patients' cots in the wards.

The stock in the Nurses' quarters was increased by purchasing 12 hanging wooden robes from the Aryan Furniture Factory and other articles required for Miss Jackson who filled the office of "Sister" in the hospital.

On the abolition of the Government Voluntary Venereal Hospital, the articles enumerated below were transferred to the stock of this hospital:

Almirahs, wooden, 3, folding screen 1, irrigator stand 1, washhand stands 3, wooden operation table 1, Lentz microscope 1, and other aluminium articles, viz., 1 pint measure, 2 bed pans, 1 dressing tray, 1 tray for instruments, 1 boiler with cover, 1 pie dish, 1 colander, 1 small kettle, 1 coffee pot, 1 sauce pan without cover, 1 cooking spoon.

To replace earthenware monthays and mulleys, 18 aluminium bowls and 15 aluminium plates were purchased departmentally; other articles of crockery required to replace articles condemned were obtained locally when necessary.

Owing to advanced prices of rubber, great difficulty was experienced in rettying the wheels of dinner waggons, operation tables, etc. Different firms were consulted with negative results but the Madras Engineering Works undertook the work and completed it. Three wheels of the dinner wagon were rettyed at a cost of Rs. 55.

The wheels of both the metallic and the wooden operation tables were rettyed at a cost aggregating Rs. 55 and those of the stretcher trolley in the Out-patient department at Rs. 60.

**15. Electric Installation of Punkahs, Lights, Fans, etc.**—These were under the supervision of the Officer in charge of Electric Subdivision. The annual repairs for 1917-18 were carried out by the Public Works department.

The cotton ropes of all punkahs were covered with long cloth at an estimated cost of Rs. 150.

In accordance with G.O. No. 499 W., dated 3rd April 1917, sanctioning the revised estimate for Rs. 1,631, large ceiling fans were provided in lieu of the existed cabin fans in the surgical and isolation huts and lights in the linen department and in the new masalchi's room.

Two fans in each of the three surgical huts.

Two fans in each of the two isolation huts.

Two single light pendants, one in the linen department and one in the masalchi's room. One table lamp with green opal shades in the matron's room, one single light pendant was also provided in the Record Room of the General Hospital office, as sanctioned in G.O. No. 88 W., dated 6th January 1917.

The installation of electric clocks in the hospital worked satisfactorily, any slight attention required having been paid by the Electrical department.

Owing to paucity of electric materials required, long delays occurred in returning or refixing fans removed for repairs.

Owing to a fault developing in one of the main cables supplying the area in which the hospital is situated, an interruption in the supply of current occurred on the night of the 10th July 1917, with the result that the lights in the hospital were extinguished at 8 p.m. and the whole place remained in gloomy darkness, one-half of the hospital was re-lit at 11-40 p.m.

and the other half at midnight. The Chief Engineer of the Madras Electric Supply Corporation, Limited, reported that this break could not be foreseen as the fault developed suddenly in the cable which was laid over nine years ago.

On two other occasions failure of current was experienced, viz., on the 21st February 1917, there was a cessation of electric current from 12-50 a.m. to 2-5 a.m. as a result the lights were put out and the fans ceased working. The failure is attributed to the weakened insulation of the hospital mains leading to the main distribution board in the centre of the main building.

Again on 30th July 1917 another failure of one side current occurred between 7-45 p.m. and 8-15 p.m. stopping the punkah motor in action besides causing the failure of lights on the northern side of the main buildings, Resident Medical Officer's quarters, etc., the reason adduced being a fault in one of the distributors of the Madras Electric Supply Corporation.

**16. Establishment.**—The changes which occurred during the year 1917, both in the Medical Staff and in the Subordinate Medical Staff are given in the accompanying tables:-

Tables:—

| Rank.                    | Name.                                          | Nature of duties.       | Period during which the officers were present for duty. |              | Remarks.                                                                                                                            |
|--------------------------|------------------------------------------------|-------------------------|---------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                                |                         | From                                                    | To           |                                                                                                                                     |
| Medical Staff.           |                                                |                         |                                                         |              |                                                                                                                                     |
| Major, I.M.S. (retired). | C. H. L. Palk, M.B., C.M., F.R.C.S. (Ed.).     | Senior Medical Officer. | 1 Jan. 1917                                             | 8 Sep. 1917  | Sub. pro tem.                                                                                                                       |
| Lieut.-Col., I.M.S.      | W. J. Niblock, M.B., F.R.C.S. (Ed.).           | Do.                     | 9 Sep. 1917                                             | 8 Oct. 1917  | Acting.                                                                                                                             |
| Major, I.M.S. (retired). | C. H. L. Palk, M.B., C.M., F.R.C.S. (Ed.).     | Do.                     | 9 Oct. 1917                                             | 31 Dec. 1917 | Sub. pro tem.                                                                                                                       |
| Major, I.M.S. ...        | F. F. Elwes, M.D., C.I.E.                      | First Physician ...     | 1 Jan. 1917                                             | 31 May 1917  | Permanent.                                                                                                                          |
| Do. ...                  | J. J. Robb, M.B., B.Ch., B.A.O., D.P.H.        | Do. ...                 | 1 June 1917                                             | 30 June 1917 | Acting.                                                                                                                             |
| Do. ...                  | F. F. Elwes, M.D., C.I.E.                      | Do. ...                 | 1 July 1917                                             | 31 Dec. 1917 | Permanent.                                                                                                                          |
| Do. ...                  | Do.                                            | Second Physician.       | 1 Jan. 1917                                             | 8 Jan. 1917  | Acting.                                                                                                                             |
| Do. ...                  | T. S. Ross, L.R.C.P., L.R.C.S., D.P.H.         | Do.                     | 9 Jan. 1917                                             | 30 Apr. 1917 | Sub. pro tem.                                                                                                                       |
| Do. ...                  | F. F. Elwes, M.D., C.I.E.                      | Do.                     | 1 May 1917                                              | 31 May 1917  | Acting.                                                                                                                             |
| Major, I.M.S. (retired). | C. H. L. Palk, M.B., C.M., F.R.C.S. (Ed.).     | Do.                     | 1 June 1917                                             | 8 June 1917  | Do.                                                                                                                                 |
| Major, I.M.S. ...        | T. S. Ross, L.R.C.P., L.R.C.S., D.P.H.         | Do.                     | One day on 4 June 1917                                  |              | Transferred to Military duty—vide G.O. No. 240 L. & M. (Med.) dated 29 May 1917.                                                    |
| Major, I.M.S. (retired). | C. H. L. Palk, M.B., C.M., F.R.C.S. (Ed.).     | Do.                     | 5 June 1917                                             | 21 June 1917 | Acting.                                                                                                                             |
| Civil Assistant Surgeon. | M. R. Guruswami Mudaliyar, B.A., M.B., C.M.    | Do.                     | 22 June 1917                                            | 31 Dec. 1917 | Sub. pro tem.                                                                                                                       |
| Major, I.M.S. ...        | T. S. Ross, L.R.C.P., L.R.C.S., D.P.H.         | Third Physician...      | 1 Jan. 1917                                             | 30 Apr. 1917 | Do.                                                                                                                                 |
| Civil Assistant Surgeon. | Rao Sahib M. C. Koman, L.M.S.                  | Do. ...                 | 1 May 1917                                              | 3 June 1917  | Acting.                                                                                                                             |
| Major, I.M.S. ...        | T. S. Ross, L.R.C.P., L.R.C.S., D.P.H.         | Do. ...                 | One day on 4 June 1917                                  |              | Transferred to Military duty.                                                                                                       |
| Civil Assistant Surgeon. | Rao Sahib M. C. Koman, L.M.S.                  | Do. ...                 | 5 June 1917                                             | 21 June 1917 | Acting.                                                                                                                             |
| Do.                      | M. R. Guruswami Mudaliyar, B.A., M.B., C.M.    | Do. ...                 | 22 June 1917                                            | 18 Sep. 1917 | Do.                                                                                                                                 |
| Do.                      | T. S. Tirumurti, B.A., M.B., C.M.              | Do. ...                 | 19 Sep. 1917                                            | 31 Dec. 1917 | Sub. pro tem.                                                                                                                       |
| Major, I.M.S. ...        | C. A. F. Hingston, M.R.C.S., L.R.C.P.          | Fourth Physician.       | 1 Jan. 1917                                             | 31 Jan. 1917 | Acting.                                                                                                                             |
| Civil Assistant Surgeon. | Rao Sahib M. C. Koman, L.M.S.                  | Do.                     | 1 Feb. 1917                                             | 31 Dec. 1917 | Sub. pro tem.                                                                                                                       |
| Lieut.-Col., I.M.S.      | W. J. Niblock, M.B., F.R.C.S. (Ed.).           | First Surgeon ...       | 1 Jan. 1917                                             | 13 May 1917  | Permanent.                                                                                                                          |
| Major, I.M.S. ...        | C. A. F. Hingston, M.R.C.S., L.R.C.P.          | Do. ...                 | 14 May 1917                                             | 7 June 1917  | Acting.                                                                                                                             |
| Major, I.M.S. (retired). | C. H. L. Palk, M.B., C.M., F.R.C.S. (Ed.).     | Do. ...                 | 8 June 1917                                             | 9 June 1917  | Do.                                                                                                                                 |
| Lieut.-Col., I.M.S.      | E. M. Illington, M.R.C.S., L.R.C.P., D.T.M.    | Do. ...                 | 10 June 1917                                            | 13 June 1917 | Do.                                                                                                                                 |
| Do.                      | W. J. Niblock, M.B., F.R.C.S. (Ed.).           | Do. ...                 | 14 June 1917                                            | 31 Dec. 1917 | Permanent.                                                                                                                          |
| Major, I.M.S. ...        | A. Chalmers, M.B., B.Ch., F.R.C.S. (Ed.), L.M. | Second Surgeon...       | 1 Jan. 1917                                             | 16 Jan. 1917 | Acting. Granted combined privilege leave and leave on medical certificate for six months. Further extension granted for six months. |

| Rank. | Name. | Nature of duties. | Periods during which the officers were present for duty. |    | Remarks. |
|-------|-------|-------------------|----------------------------------------------------------|----|----------|
|       |       |                   | From                                                     | To |          |

## Medical Staff—cont.

|                          |                                                      |                                 |              |              |               |
|--------------------------|------------------------------------------------------|---------------------------------|--------------|--------------|---------------|
| Major, I.M.S.            | C. A. F. Hingston, M.B.C.S., L.R.C.P.                | Second Surgeon                  | 17 Jan. 1917 | 7 June 1917  | Acting.       |
| Major, I.M.S. (retired). | C. H. L. Palk, M.B., C.M., F.R.C.S. (Ed.)            | Do.                             | 8 June 1917  | 9 June 1917  | Do.           |
| Lieut.-Col., I.M.S.      | E. M. Illington, M.B.C.S., L.R.C.P., D.T.M.          | Do.                             | 10 June 1917 | 28 June 1917 | Do.           |
| Major, I.M.S.            | J. J. Robb, M.B., B.Ch., B.A.O., D.P.H.              | Do.                             | 28 June 1917 | 31 Dec. 1917 | Do.           |
| Civil Assistant Surgeon. | T. M. K. Nedungadi, L.M.S.                           | Third Surgeon                   | 1 Jan. 1917  | 10 Apr. 1917 | Sub. pro tem. |
| Lieut.-Col., I.M.S.      | W. J. Niblock, M.B., F.R.C.S. (Ed.)                  | Do.                             | 11 Apr. 1917 | 10 May 1917  | Acting        |
| Civil Assistant Surgeon. | T. M. K. Nedungadi, L.M.S.                           | Do.                             | 11 May 1917  | 6 Aug. 1917  | Sub. pro tem. |
| Do.                      | W. J. Fernandes, L.M.S.                              | Do.                             | 7 Aug. 1917  | 31 Dec. 1917 | Do.           |
| Captain, I.M.S.          | A. J. H. Russell, M.A., M.D., Ch.B.                  | Resident Medical Officer.       | 1 Jan. 1917  | 18 Mar. 1917 | Acting.       |
| Civil Assistant Surgeon. | T. M. K. Nedungadi, L.M.S.                           | Do.                             | 19 Mar. 1917 | 20 Mar. 1917 | Do.           |
| Major, I.M.S.            | J. J. Robb, M.B., B.Ch., B.A.O., D.P.H.              | Do.                             | 21 Mar. 1917 | 1 July 1917  | Do.           |
| Captain, I.M.S.          | A. J. H. Russell, M.A., M.D., Ch.B.                  | Do.                             | 2 July 1917  | 31 Oct. 1917 | Do.           |
| Civil Assistant Surgeon. | R. R. Williams, B.A., M.B., C.M., M.R.C.S., L.R.C.P. | Do.                             | 1 Nov. 1917  | 14 Nov. 1917 | Acting.       |
| Do.                      | T. M. K. Nedungadi, L.M.S.                           | Do.                             | 15 Nov. 1917 | 31 Dec. 1917 | Do.           |
| Do.                      | Do.                                                  | Joint Resident Medical Officer. | 1 Jan. 1917  | 6 Aug. 1917  | Do.           |
| Do.                      | W. J. Fernandes, L.M.S.                              | Do.                             | 15 Aug. 1917 | 31 Dec. 1917 | Do.           |
| ...                      | C. F. Badcock, L.D.S.                                | Dental Surgeon                  | 1 Jan. 1917  | Do.          | Do.           |

Granted combined privilege leave and furlough on medical certificate for one year from 1 Nov. 1917—vide G.O. No. 191, L. & M. (Medical) R., dated 17 Nov. 1917.

Mr. H. Venkata Rao acted for him during his absence at the time of the college vacation in the month of June 1917.

## Subordinate Medical Staff.

|                                    |                                   |                                |                         |              |                                                                      |
|------------------------------------|-----------------------------------|--------------------------------|-------------------------|--------------|----------------------------------------------------------------------|
| Civil Apothecary.                  | P. Parthasarathi Nayudu.          | Senior Assistant Surgeon.      | 1 Jan. 1917             | 21 Dec. 1917 |                                                                      |
| Civil Assistant Surgeon.           | K. V. Gopalakrishna Ayyar, L.M.S. | Assistant to First Physician.  | 1 Jan. 1917             | 29 Mar. 1917 |                                                                      |
| Do.                                | C. K. Joseph, M.B., C.M.          | Do.                            | 30 Mar. 1917            | 1 June 1917  |                                                                      |
| House Physician.                   | G. R. Dinker Rao, M.B., B.S.      | Do.                            | 2 June 1917             | 17 June 1917 |                                                                      |
| Temporary Civil Assistant Surgeon. | Do.                               | Do.                            | 18 June 1917            | 19 July 1917 | Transferred to Military duty as a temporary Lieutenant in the I.M.S. |
| Do.                                | K. E. Pothan, L.M.S.              | Do.                            | 20 July 1917            | 10 Nov. 1917 |                                                                      |
| Do.                                | R. Subbaya, M.B., B.S.            | Do.                            | One day on 14 Dec. 1917 |              |                                                                      |
| Do.                                | T. Balakrishnan, M.B., B.S.       | Do.                            | 20 Dec. 1917            | 31 Dec. 1917 |                                                                      |
| Civil Assistant Surgeon.           | V. Govindan Nayar, L.M.S.         | Assistant to Second Physician. | 1 Jan. 1917             | 9 Feb. 1917  |                                                                      |
| Do.                                | B. Tirumala Rao, L.M.S.           | Do.                            | 10 Feb. 1917            | 28 June 1917 |                                                                      |
| Temporary Civil Assistant Surgeon. | A. R. Parasuram, L.M.S.           | Do.                            | 29 June 1917            | 18 Aug. 1917 |                                                                      |
| Do.                                | G. I. Benjamin, L.M.S.            | Do.                            | 14 Aug. 1917            | 31 Aug. 1917 | Transferred to Military duty as a temporary Lieutenant in the I.M.S. |

| Rank. | Name. | Nature of duties. | Period during which the officers were present for duty. |    | Remarks. |
|-------|-------|-------------------|---------------------------------------------------------|----|----------|
|       |       |                   | From                                                    | To |          |

## Subordinate Medical Staff—cont.

|                                    |                                  |                                               |              |                   |                                                                      |
|------------------------------------|----------------------------------|-----------------------------------------------|--------------|-------------------|----------------------------------------------------------------------|
| Civil Assistant Surgeon.           | P. K. Kurian, L.M.S.             | Assistant to Second Physician.                | 4 Sep. 1917  | 31 Dec. 1917      |                                                                      |
| Do.                                | V. Viswanatha Sarma, L.M.S.      | Assistant to Third Physician.                 | 1 Jan. 1917  | 30 Sep. 1917      |                                                                      |
| Do.                                | K. R. Thyagarajan, L.M.S.        | Do.                                           | 1 Oct. 1917  | 31 Dec. 1917      |                                                                      |
| Do.                                | L. S. Rajamanikkam, B.A., L.M.S. | Assistant to Fourth Physician.                | 1 Jan. 1917  | 14 Nov. 1917      |                                                                      |
| Do.                                | B. Tirumal Rao, L.M.S.           | Do.                                           | 15 Nov. 1917 | 31 Dec. 1917      |                                                                      |
| Do.                                | W. J. Fernandes, L.M.S.          | Assistant to First Surgeon.                   | 1 Jan. 1917  | 6 Aug. 1917       |                                                                      |
| House Surgeon.                     | O. O. Madhavan, M.B., B.S.       | Do.                                           | 7 Aug. 1917  | 13 Aug. 1917      |                                                                      |
| Temporary Civil Assistant Surgeon. | A. R. Parasuram, L.M.S.          | Do.                                           | 14 Aug. 1917 | 31 Aug. 1917      | Transferred to Military duty as a temporary Lieutenant in the I.M.S. |
| Civil Assistant Surgeon.           | B. V. Narasimhaaya, L.M.S.       | Do.                                           | 1 Sep. 1917  | 31 Dec. 1917      |                                                                      |
| Do.                                | A. P. Kuriappan, M.B., B.S.      | Assistant to Second Surgeon.                  | 1 Jan. 1917  | 6 Feb. 1917       |                                                                      |
| Do.                                | C. Abbu Mudaliyar, M.B., C.M.    | Do.                                           | 6 Feb. 1917  | 28 June 1917      |                                                                      |
| Do.                                | B. Tirumal Rao, L.M.S.           | Do.                                           | 29 June 1917 | 14 Nov. 1917      |                                                                      |
| Do.                                | L. S. Rajamanikkam, B.A., L.M.S. | Do.                                           | 15 Nov. 1917 | 31 Dec. 1917      |                                                                      |
| Do.                                | K. Gopala Menon, L.M.S.          | Assistant to Third Surgeon.                   | 1 Jan. 1917  | 29 Sep. 1917      | Transferred to Military duty as a temporary Lieutenant in the I.M.S. |
| Do.                                | V. Viswanatha Sarma, L.M.S.      | Do.                                           | 1 Oct. 1917  | 31 Dec. 1917      |                                                                      |
| Temporary Civil Assistant Surgeon. | K. Venugopal, L.M.S.             | Anæsthetist                                   | 1 Jan. 1917  | 31 Aug. 1917      | Transferred to Military duty as a temporary Lieutenant in the I.M.S. |
| Civil Assistant Surgeon.           | M. Seshadri Reddi, L.M.S.        | Do.                                           | 4 Sep. 1917  | 30 Sep. 1917      |                                                                      |
| Temporary Civil Assistant Surgeon. | S. Kolappa Pillai, L.M.S.        | Do.                                           | 1 Oct. 1917  | 31 Dec. 1917      |                                                                      |
| Civil Assistant Surgeon.           | C. Abbu Mudaliyar, M.B., C.M.    | First Assistant to Resident Medical Officer.  | 1 Jan. 1917  | 5 Feb. 1917       |                                                                      |
| Do.                                | F. J. Saldanha, L.M.S.           | Do.                                           | 6 Feb. 1917  | 9 Feb. 1917       |                                                                      |
| Do.                                | B. V. Narasimhaaya, L.M.S.       | Do.                                           | 10 Feb. 1917 | 31 Aug. 1917      |                                                                      |
| Do.                                | M. Seshadri Reddi, L.M.S.        | Do.                                           | 1 Sep. 1917  | 3 Sep. 1917       |                                                                      |
| Do.                                | K. R. Thyagarajan, L.M.S.        | Do.                                           | 4 Sep. 1917  | 30 Sep. 1917      |                                                                      |
| Do.                                | M. Seshadri Reddi, L.M.S.        | Do.                                           | 1 Oct. 1917  | 19 Nov. 1917      |                                                                      |
| Temporary Civil Assistant Surgeon. | R. Subbaya, M.B., B.S.           | Do.                                           | 15 Dec. 1917 | 30 Dec. 1917      |                                                                      |
| Civil Assistant Surgeon.           | A. Rangaramanujayya, L.M.S.      | Do.                                           | 31 Dec. 1917 | Still continuing. |                                                                      |
| Do.                                | C. Abbu Mudaliyar, M.B., C.M.    | Second Assistant to Resident Medical Officer. | 1 Jan. 1917  | 26 Jan. 1917      |                                                                      |
| Do.                                | F. J. Saldanha, L.M.S.           | Do.                                           | 27 Jan. 1917 | 28 Feb. 1917      |                                                                      |
| Do.                                | N. S. Natarajan, L.M.S.          | Do.                                           | 1 Mar. 1917  | 3 May 1917        |                                                                      |
| Do.                                | F. J. Saldanha, L.M.S.           | Do.                                           | 4 May 1917   | 2 July 1917       |                                                                      |

| Rank.                               | Name.                                 | Nature of duties.                                                            | Period during which the officers were present for duty. |              | Remarks.                                                                                                                                                    |
|-------------------------------------|---------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     |                                       |                                                                              | From                                                    | To           |                                                                                                                                                             |
| Subordinate Medical Staff—cont.     |                                       |                                                                              |                                                         |              |                                                                                                                                                             |
| Civil Assistant Surgeon.            | K. R. Thyagarajan, L.M.S.             | Second Assistant to Resident Medical Officer.                                | 3 July 1917                                             | 3 Sep. 1917  |                                                                                                                                                             |
| Do.                                 | Muhammad Abdul Kalique, L.M.S.        | Do.                                                                          | One day on                                              | 4 Sep. 1917  |                                                                                                                                                             |
| Senior Grade Sub-Assistant Surgeon. | Muhammad Ibrahim Sahib, L.M.P.        | Do.                                                                          | 6 Sep. 1917                                             | 4 Oct. 1917  |                                                                                                                                                             |
| Temporary Civil Assistant Surgeon.  | K. S. Gopalaaswami, L.M.S.            | Do.                                                                          | 5 Oct. 1917                                             | 31 Dec. 1917 |                                                                                                                                                             |
| Civil Assistant Surgeon.            | M. Govindarajulu Nayudu.              | X-Ray Assistant Surgeon.                                                     | 1 Jan. 1917                                             | Do.          | Promoted from Civil Apothecary Grade to the rank of Civil Assistant Surgeon with effect from 11 Dec. 1916—vide S.G.'s Order No. 60-782, dated 23 Dec. 1916. |
| Do.                                 | N. S. Natarajan, L.M.S.               | X-Ray Training and Relieving duty.                                           | Do.                                                     | 28 Feb. 1917 |                                                                                                                                                             |
| Do.                                 | F. J. Saldanha, L.M.S.                | Do.                                                                          | 1 Mar. 1917                                             | 2 July 1917  |                                                                                                                                                             |
| Do.                                 | K. R. Thyagarajan, L.M.S.             | Do.                                                                          | 3 July 1917                                             | 4 Sep. 1917  |                                                                                                                                                             |
| Do.                                 | Muhammad Abdul Kalique, L.M.S.        | Do.                                                                          | One day on                                              | 4 Sep. 1917  |                                                                                                                                                             |
| Senior Grade Sub-Assistant Surgeon. | Muhammad Ibrahim Sahib, L.M.P.        | Do.                                                                          | 6 Sep. 1917                                             | 12 Sep. 1917 |                                                                                                                                                             |
| Temporary Civil Assistant Surgeon.  | K. S. Gopalaaswami, L.M.S.            | Do.                                                                          | 6 Oct. 1917                                             | 31 Dec. 1917 |                                                                                                                                                             |
| Do.                                 | B. Krishnayya, B.A., L.M.S.           | Assistant Surgeon in sub-charge of venereal wards.                           | 7 Nov. 1917                                             | 16 Dec. 1917 | The venereal ward was opened on 30 Oct. 1917—vide G.O. No. 391, dated 10 Sep. 1917, and Hospital orders 619 and 620, dated 13 Nov. 1917.                    |
| Do.                                 | R. Subbaya, M.B., B.A.                | Do.                                                                          | 16 Dec. 1917                                            | 31 Dec. 1917 |                                                                                                                                                             |
| Civil Assistant Surgeon.            | V. N. Venkatram, B.A., M.B., B.S.     | Clinical Instructor, Out-Patient department.                                 | 24 July 1917                                            | ...          |                                                                                                                                                             |
| Temporary Civil Assistant Surgeon.  | P. Venkatakrishna Rao, L.M.S.         | Additional Clinical Instructor, Out-Patient department.                      | 7 Aug. 1917                                             | ...          |                                                                                                                                                             |
| Sub-Assistant Surgeons.             |                                       |                                                                              |                                                         |              |                                                                                                                                                             |
| First-grade Sub-Assistant Surgeon.  | S. Sarangasesha Nayudu, No. 632.      | In-dispensary, Out-patient dispensary and Senior Assistant Surgeon's Stores. | 1 Jan. 1917                                             | 7 June 1917  |                                                                                                                                                             |
| Do.                                 | N. S. Subrahmanyam, No. 553.          | Do.                                                                          | Do.                                                     | 31 Dec. 1917 |                                                                                                                                                             |
| Do.                                 | K. E. Sankaran, No. 694.              | Do.                                                                          | 8 Jan. 1917                                             | 18 Sep. 1917 |                                                                                                                                                             |
| Do.                                 | R. Subba Rao, No. 570.                | Do.                                                                          | 14 July 1917                                            | 31 Dec. 1917 |                                                                                                                                                             |
| Senior Grade Sub-Assistant Surgeon. | P. R. Muttukumara Mudaliyar, No. 420. | Do.                                                                          | 1 Jan. 1917                                             | 18 July 1917 |                                                                                                                                                             |
| Do.                                 | Muhammad Ibrahim Sahib, No. 307.      | Do.                                                                          | 6 Sep. 1917                                             | 16 Nov. 1917 |                                                                                                                                                             |
| Fourth-grade Sub-Assistant Surgeon. | Sultan Muhammad Sahib, No. 1068.      | Do.                                                                          | 1 Nov. 1917                                             | 28 Nov. 1917 |                                                                                                                                                             |
| Do.                                 | C. S. Mohanrangam, No. 1097.          | Do.                                                                          | 11 Dec. 1917                                            | 31 Dec. 1917 |                                                                                                                                                             |
| Do.                                 | P. Bhaskara Rao, No. 999.             | Do.                                                                          | 19 Dec. 1917                                            | Do.          |                                                                                                                                                             |
| Do.                                 | P. M. Sridharan, No. 992.             | Reserve duty ...                                                             | 30 Jan. 1917                                            | 19 Feb. 1917 |                                                                                                                                                             |
| Third-grade Sub-Assistant Surgeon.  | T. Kumaraswami Mudaliyar, No. 815.    | Do. ...                                                                      | 14 July 1917                                            | 12 Sep. 1917 |                                                                                                                                                             |

**Nursing Department.**—Mrs. K. S. Palsgrave, Matron Superintendent, went on two months' privilege leave from 7th August 1917, and Miss B. Royal Dawson, the acting Assistant Matron, acted for her in her absence. This led to the appointment of Miss E. Jackson of the Lady Amphyll Nursing Institute as Assistant Matron, vice Miss Royal Dawson on other duty—vide G.O. No. 408, Medical, dated 26th September 1917.

On the return of Mrs. K. S. Palsgrave, Miss Royal Dawson availed herself of one month's privilege leave and the duties were arranged for between the Matron and Miss Jackson who was then appointed Nursing Sister temporarily on a monthly salary of Rs. 120—4—140 from the date she was relieved in the arrangement of Mrs. K. S. Palsgrave—vide G.O. No. 410, L. & M. (Medical), dated 30th September 1917.

Nurse Terry, one of the senior nurses, held the appointment of Housekeeper until 1st March 1917 on which date she was succeeded by Mrs. R. E. Bates.

Difficulty is still experienced in obtaining the services of an *English Trained Sister* to fill the vacancy which still exists.

The salary offered to nurses in this hospital being unattractive they prefer leaving the service on completion of their training to join other hospitals or the army reserve.

The following statement shows the strength of the staff during the year:—

|                                        | No. |
|----------------------------------------|-----|
| Existing staff on the 1st January 1917 | 39  |
| Nurses trained in this hospital        | 18  |
| Otherwise attached                     | 4   |
| Total                                  | 61  |

|                                                        | No. |
|--------------------------------------------------------|-----|
| Left the service                                       | 11* |
| Leave on loss of pay                                   | 1   |
| On military duty                                       | 1   |
| In Hospital Ship "Madras"                              | 1   |
| Transferred to Maternity to complete midwifery diploma | 1   |
| Remaining on the 31st December 1917                    | 46† |
| Total                                                  | 61  |

\* NOTE.—Eleven nurses left the service on the following grounds:—

|                                  | No. |
|----------------------------------|-----|
| To better their prospects        | 8   |
| Retired on account of ill health | 1   |
| To be married                    | 1   |
| Dismissed from the service       | 1   |
| Total                            | 11  |

† Of the 46 nurses, nurses remaining on the roll at the end of the year, 6 are under training in the Government Maternity and Ophthalmic Hospitals.

**Male Ward Attendant Probationers.**—The sanctioned strength of this class is:—

|                                                         | No. |
|---------------------------------------------------------|-----|
| Existing staff on 1st January 1917                      | 6   |
| Newly entertained                                       | 24  |
| Total                                                   | 30  |
| Left the service                                        | 8   |
| Acting for ward attendants transferred to Hospital Ship | 16  |
| Remaining on 31st December 1917                         | 6   |
| Total                                                   | 30  |

**Ward Attendants, Male.**—The sanctioned establishment is distributed as follows:—

|              | No. | Pay. |
|--------------|-----|------|
| First grade  | 6   | 12   |
| Second grade | 20  | 10   |
| Third grade  | 20  | 8    |
| Fourth grade | 14  | 7    |

The figures for the year were as follows:—

|                                                      | No. |
|------------------------------------------------------|-----|
| Existing staff on 1st January including probationers | 68  |
| Newly entertained                                    | 24  |
| Total                                                | 90  |

66 at end of year  
66.  
Since received  
1000 a/c  
the whole  
So far the  
27.11.17

[illegible]

**Ward Attendants, Female.**—The sanctioned establishment is 22, distributed as follows:—

|                                         | No. | Pay. |
|-----------------------------------------|-----|------|
| First grade ... ..                      | 4   | 15   |
| Second grade ... ..                     | 6   | 12   |
| Third grade ... ..                      | 8   | 9    |
| Fourth grade ... ..                     | 4   | 7    |
| Total ...                               | 22  |      |
| Existing staff on 1st January 1917 ...  | —   |      |
| Remaining on the 31st December 1917 ... | 22  |      |
|                                         | 22  |      |

**Linen Department.**—The work done in this department is shown in the following table :—

| Year.    | Amount spent under bending and clothing. | Cost of materials used in the laundry. | Cost of washing 100 pieces in the laundry. | Number of pieces washed in the laundry. | Amount paid by nurses, etc., to replace linen lost. | Amount paid to extra tailors. |
|----------|------------------------------------------|----------------------------------------|--------------------------------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------|
|          | Rs. A. P.                                | Rs. A. P.                              | Rs. A. P.                                  |                                         | Rs. A. P.                                           |                               |
| 1915 ... | 9,077 14 7                               | 2,074 14 5                             | 1 2 0                                      |                                         | 269 2 10                                            |                               |
| 1916 ... | 6,207 6 10                               | 2,147 0 8                              | 1 2 10                                     | 299,360                                 | 187 1 0                                             | Nil.                          |
| 1917 ... | ...                                      | 2,422 5 7                              | 1 2 4                                      | 297,859                                 | 259 4 6                                             | Nil.                          |
|          |                                          |                                        |                                            | 320,625                                 |                                                     |                               |

The stock of linen was examined quarterly with the following result:—

| Year.   | Number of pieces condemned. | Cost of articles condemned. | Number of pieces washed. | Remarks.                                   |
|---------|-----------------------------|-----------------------------|--------------------------|--------------------------------------------|
| 1914-15 | 6,212                       | Rs. 5,706                   | 312,503                  | } These figures are for the official year. |
| 1915-16 | 4,699                       | 3,824                       | 293,272                  |                                            |
| 1916-17 | 5,217                       | 4,507                       | 300,820                  |                                            |

**Steam Laundry.**—The washing machines, steam boiler and the air heater are in charge of a licensed driver, while the electric motor is looked after by the head wireman in charge of the Electric department of the hospital.

The salary of the driver, which was Rs. 30 monthly, was made progressive during the year 1917 with biennial increment of Rs. 2 rising to a maximum of Rs. 40 and the driver was allowed to draw the first increment with effect from 1st April [G.O. Mis. No. 146, L. & M. (Medical), dated 5th December 1916].

The Senior Inspector of Boilers and Prime Movers inspected the boiler (Registry No. 1228) in the laundry on the 8th January 1917 and renewed the licence for another year from 10th January 1917, the date on which the previous licence expired. The petty improvements suggested by him were carried out by the Public Works department.

At a surprise inspection of this boiler on the 2nd June 1917, the Senior Inspector found the furnace lit up while there was no water in the boiler. This necessitated the suspension of work in the laundry for about a week and on the 7th June 1917, he tested the boiler once again and allowed it to be steamed. The Sanitary Engineer to Government submitted the correspondence to Government for decision and orders were received in G.O. No. 1543 W., dated 4th December 1917, exonerating the licensed driver and prohibiting the driver of the disinfecter in the hospital from being entrusted in any manner with the working of boilers until he qualifies as an engine driver.

The arrangement hitherto obtained in the hospital in respect to firing the boiler in the steam laundry was withdrawn and the licensed driver ordered to attend to this work himself. The General Superintendent of the Public Works Department.

The General Superintendent of the Public Works Workshops visited the laundry machines, as often as required and any repairs to the machinery needed were executed at the workshops.

Articles, such as blow off cocks, cast iron bottom collars and the like, were made and the washing machines including the hydro-extractor are repaired during the year. Under the direction of the General Superintendent, Public Works Workshops, other articles, viz., wire brush, gauge glass, rubber rings, leather belting of sizes, asbestos tape, rainbow packing, klinoha belt fasteners, etc., required occasionally were obtained from the Public Works Stores. Improvements to hot water connections, alterations to tanks, cisterns, etc., received the attention of the Executive Engineer, North Presidency Division.

**Steam Disinfector (Lyons).**—The driver in charge of the disinfector draws Rs. 20 per mensem as salary. He has put in two years' pucca service and was found fault with (vide paragraph above—steam laundry). He is under orders of warning that his services will be dispensed with, should he fail to obtain a pass in the next examination for engine drivers (May 1918).

The disinfection of articles is carried out thrice weekly and on other days when specially required. The licence for the boiler (Registry No. 1067) was renewed for another year commencing from 19th July 1917.

The General Superintendent of the Public Works Workshops inspected the machines as often as necessary and executed orders in connexion therewith.

**Auditors Cold Storage Cabinet.**—There is a driver in charge and his salary is debited to contingencies. The pay of the appointment is Rs. 25 per month rising to a maximum of Rs. 35 with annual increment of Re. 1.

C. Thomson, the permanent driver, having gone on active service on the 4th December 1917, the appointment remained vacant till the end of the year and the driver in charge of the disinfecter was made to carry out the work in addition to his own, pending the appointment of a new driver.

The doors of the freezing chambers were repaired by the Public Works Workshops during the year. The galvanized sheet covering, both inside and outside cabinet, was also replaced, the cost incurred being Rs. 126-4-1.

Other petty repairs required from time to time were carried out under the direction of the General Superintendent of the Public Works Workshops.

**Motor Ambulance Car.**—The chauffeur, whose salary is debited to contingencies, draws Rs. 35 a month. He is provided with free quarters and is available at all hours of the day or night. He made 463 trips covering a distance of 2,225 miles against 524 trips, making a total distance of 2,817 miles during 1916.

The quantity of commercial spirit used by the car was 216 gallons and this gives an average of 10.3 miles per gallon, as compared with 14.67 miles for each gallon used in 1916.

The total collections aggregated Rs. 887 in 1917 as compared with Rs. 707 in 1916.

Since the last overhauling in 1914, the ambulance car was in constant and hard use and this necessitated overhauling again, including painting and varnishing.

Messrs. Simpson & Co.'s estimate for Rs. 420 for overhauling and for Rs. 268-8-0 for additional charges incurred were sanctioned by Government in their orders No. 280, L. & M. (Medical), dated 24th May 1917, and No. 480, L. & M. (Medical), dated 26th November 1917. Other petty repairs required occasionally were carried out either by Messrs. Simpson & Co. or by the Public Works department.

The total cost of maintenance was Rs. 1,007-6-11 against Rs. 766-15-9 in 1916.

The lamp generator of the ambulance was condemned by the General Superintendent of the Public Works Workshops, and another one suitable for the ambulance car of the hospital could not be procured from any of the firms in Madras.

**Electrical Department.**—(Vide paragraph 15 above.) The whole installation was under the Electrical Subdivision of the Public Works department.

Urgent calls were attended to by the head wireman, who is in immediate charge and owing to lack of materials required, delays occurred in replacing the fans removed for repairs. Complaints of stoppages of punkahs were frequently received and these were said to be due to the want of proper ropes. The electric clocks in the hospital, which were supervised by the Public Works department, worked satisfactorily.

**Sanitary Department.**—This department was immediately supervised by the Hospital Sergeant, J. F. Dady, assisted by the headman of servants.

The Resident Medical Officer carried out daily inspections and any defects observed were rectified at once.

One hundred and seventy plants were purchased for Rs. 100 in August 1917.

**Office Establishment.**—The office establishment was enlarged by the conversion of two part-time clerks hitherto employed into whole-time clerks. This addition removed

the difficulty, hitherto experienced, in carrying out the duties of receiving and despatching messages by telephones and relieved both the stewards and the Assistant Surgeons 'on duty' from the telephone work.

The services of these two new men are utilized in carrying out the duties hitherto done by the part-time clerks and also in attending to the duties connected with the telephone. By the present arrangement, the telephone is available throughout the 24 hours.

The relief given to Stewards and Assistant Surgeons 'on duty' rendered matters satisfactory, inasmuch as they have time to attend to their more legitimate duties without inconvenience.

Steps have been taken to examine the old records and books which remain lodged in the office for a large number of years and with the sanction of the Surgeon-General, a portion of the books and records, which were found useless, were disposed of according to regulations.

The office establishment is immediately supervised by the Head Steward, P. S. Venkataramana Ayyar, who has carried out his onerous duties conscientiously and has been of great service to me in the administration of the hospital.

**Telephones.**—The Oriental Telephone line with the inter-communication switch board being in the Steward's office, the clerk who is detailed for duty attends to receiving and despatching messages, also during nights. Messages through the Oriental line being transferable to the Government line, a separate Government line was considered unnecessary. Accordingly, the Director of Telegraph Engineering, Southern Circle, Bombay, dismantled it, in accordance with G.O. Mis. No. 251, Medical, dated 6th June 1917.

The exchange inter-communication telephone which remains the property of the Oriental Telephone Company was well managed during the year and slight defects pointed out, occasionally, were immediately remedied.

The present scheme of working the telephone in the hospital rendered matters satisfactory and gave no cause for complaint.

**Typewriter.**—The Yost machine supplied in 1915 by the Superintendent of Stationery was in use. It worked satisfactorily.

**Library.**—The annual recurring grant of Rs. 100 for purchase of books was not availed of during the year.

**Diet Accounts.**—The monthly audit notes received from time to time from the Accountant-General pointed out the satisfactory working of these accounts. Any small differences that occurred occasionally were explained or corrected.

The suppliers for bread and eggs maintained a stock to meet urgent demands, and ice was obtained according to requirements, so that the receipts and expenditure of these articles agree at the end of every month.

The following statement shows the expenditure of most important extras which often increase the diet average in the hospital :—

| Item.                   | Articles.           | 1914.     |             | 1915.     |             | 1916.     |             | 1917.     |             |
|-------------------------|---------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
|                         |                     | Quantity. | Cost.       | Quantity. | Cost.       | Quantity. | Cost.       | Quantity. | Cost.       |
|                         |                     |           | Rs. A. P.   |           | Rs. A. P.   |           | Rs. A. P.   |           | Rs. A. P.   |
| 1                       | Milk ... Pints      | 328,598   | 24,562 10 6 | 272,680   | 28,785 2 0  | 197,511   | 20,574 1 7  | 208,212   | 22,508 4 11 |
| 2                       | Apples ... No.      | 16,510    | 2,063 12 0  | 8,921     | 1,115 2 0   | 4,980     | 820 0 0     | 816       | 102 0 0     |
| 3                       | Oranges ... "       | 31,887    | 797 15 5    | 15,690    | 572 0 6     | 6,470     | 235 14 2    | 6,194     | 225 13 2    |
| 4                       | Eggs ... "          | 104,186   | 3,120 2 5   | 85,498    | 2,560 7 9   | 47,108    | 1,410 10 2  | 51,040    | 1,578 9 9   |
| 5                       | Ice ... lb.         | 93,351    | 1,820 0 6   | 97,714    | 1,528 12 6  | 80,867    | 1,263 8 9   | 96,202    | 1,898 8 6   |
| 6                       | Wine and spirits.   | ...       | 1,146 7 2   | ...       | 997 5 1     | ...       | 542 9 5     | ...       | 846 7 8     |
| 7                       | Arrowroot biscuits. | 2,220-14  | 1,335 7 1   | 1,166-114 | 741 1 8     | 531-8     | 531 6 0     | 73-104    | 78 10 6     |
| 8                       | Coffee powder.      | 5,729-124 | 3,979 3 9   | 5,111-84  | 8,194 11 34 | 3,704-184 | 2,199 12 0  | 3,714-14  | 2,905 3 0   |
| 9                       | Sugar, brown        | ...       | ...         | ...       | ...         | ...       | ...         | 4,538-1   | 468 5 0     |
| 10                      | Sugar               | 20,327-24 | 2,329 2 54  | 17,421-14 | 2,722 0 84  | 11,614-7  | 1,905 7 104 | 7,448-10  | 1,352 4 3   |
| 11                      | Tea                 | 417-10    | 208 13 0    | 427-11    | 294 0 64    | 182-94    | 132 6 64    | 180-41    | 101 6 3     |
| <b>ARRANGED WATERS.</b> |                     |           |             |           |             |           |             |           |             |
| <b>Lemonade.</b>        |                     |           |             |           |             |           |             |           |             |
| 12                      | Large (bottls.)     | 947       | 44 6 3      | 837       | 39 3 9      | ...       | ...         | ...       | ...         |
| 13                      | Splits (do.)        | 23,865    | 261 7 9     | 18,278    | 475 15 10   | 11,114    | 159 13 0    | 5,013     | 178 4 4     |
| <b>Soda.</b>            |                     |           |             |           |             |           |             |           |             |
| 14                      | Large (bottls.)     | 10        | 0 4 2       | 525       | 13 10 9     | ...       | ...         | ...       | ...         |
| 15                      | Splits (do.)        | 33,845    | 528 13 8    | 28,708    | 370 7 0     | 14,420    | 300 6 8     | 14,301    | 297 15 0    |
| 16                      | Forrester Sauce.    | 10        | 10 0 0      | 15        | 26 6 0      | 6         | 10 8 0      | 3         | 5 4 0       |

The total cost for 1917 shows an increase of about Rs. 1,748 over 1916. The increase in cost is due to the increased expenditure of such articles as milk, eggs and ice, coupled with the enhanced contract rate paid for them during the greater part of the year 1917. Wines and spirits, which were obtained at higher rates, also accounted for the increased total cost.

**Average daily cost of in-patients.**—The following table shows the average daily cost of dieting each European and Indian patient in the general wards of the hospital, together with the average daily attendance of patients, dieted during each month of the three years ending with 1917 :—

| Months.           | Indians.                                     |                                 |                                              |                                 |                                              |                                 | Europeans.                                   |                                 |                                              |                                 |                                              |                                 |
|-------------------|----------------------------------------------|---------------------------------|----------------------------------------------|---------------------------------|----------------------------------------------|---------------------------------|----------------------------------------------|---------------------------------|----------------------------------------------|---------------------------------|----------------------------------------------|---------------------------------|
|                   | 1915.                                        |                                 | 1916.                                        |                                 | 1917.                                        |                                 | 1915.                                        |                                 | 1916.                                        |                                 | 1917.                                        |                                 |
|                   | Average daily attendance of patients dieted. | Average cost per head per diem. | Average daily attendance of patients dieted. | Average cost per head per diem. | Average daily attendance of patients dieted. | Average cost per head per diem. | Average daily attendance of patients dieted. | Average cost per head per diem. | Average daily attendance of patients dieted. | Average cost per head per diem. | Average daily attendance of patients dieted. | Average cost per head per diem. |
| January ...       | 271.22                                       | 6 0                             | 255.71                                       | 4 94                            | 243.93                                       | 5 04                            | 94.28                                        | 11 14                           | 75.88                                        | 9 24                            | 85.22                                        | 9 94                            |
| February ...      | 282.25                                       | 6 04                            | 276.12                                       | 4 11                            | 241.96                                       | 4 94                            | 105.00                                       | 10 7                            | 86.13                                        | 9 64                            | 89.14                                        | 9 44                            |
| March ...         | 281.58                                       | 6 14                            | 279.08                                       | 4 94                            | 264.95                                       | 4 9                             | 108.68                                       | 11 04                           | 95.98                                        | 9 84                            | 98.83                                        | 9 84                            |
| April ...         | 288.17                                       | 6 24                            | 288.56                                       | 4 94                            | 285.24                                       | 5 14                            | 104.94                                       | 11 34                           | 86.97                                        | 9 104                           | 82.40                                        | 10 64                           |
| May ...           | 297.71                                       | 6 14                            | 301.02                                       | 4 104                           | 267.41                                       | 4 114                           | 108.98                                       | 11 10                           | 89.44                                        | 9 9                             | 80.74                                        | 9 104                           |
| June ...          | 311.29                                       | 6 04                            | 289.50                                       | 4 94                            | 265.34                                       | 4 114                           | 96.70                                        | 11 4                            | 90.34                                        | 9 7                             | 80.00                                        | 9 94                            |
| July ...          | 303.19                                       | 5 104                           | 285.43                                       | 4 94                            | 287.12                                       | 4 10                            | 105.39                                       | 11 84                           | 87.57                                        | 9 4                             | 83.00                                        | 9 34                            |
| August ...        | 278.40                                       | 5 114                           | 273.87                                       | 4 84                            | 267.00                                       | 4 11                            | 102.44                                       | 10 11                           | 90.99                                        | 9 0                             | 93.00                                        | 9 3                             |
| September ...     | 288.53                                       | 5 54                            | 282.87                                       | 4 104                           | 264.00                                       | 4 11                            | 109.47                                       | 9 14                            | 82.94                                        | 9 34                            | 82.11                                        | 9 64                            |
| October ...       | 287.00                                       | 4 94                            | 262.16                                       | 4 11                            | 283.12                                       | 4 84                            | 99.76                                        | 8 10                            | 71.91                                        | 9 5                             | 71.22                                        | 9 54                            |
| November ...      | 275.93                                       | 4 104                           | 284.01                                       | 4 114                           | 274.67                                       | 4 114                           | 93.14                                        | 8 11                            | 78.11                                        | 9 44                            | 67.40                                        | 9 5                             |
| December ...      | 272.43                                       | 4 10                            | 271.26                                       | 4 114                           | 278.16                                       | 4 9                             | 71.65                                        | 8 94                            | 74.39                                        | 9 104                           | 68.86                                        | 9 7                             |
| Total average ... | 286.46                                       | 5 84                            | 279.18                                       | 4 10                            | 268.15                                       | 4 104                           | 99.56                                        | 10 54                           | 84.22                                        | 9 6                             | 81.08                                        | 9 74                            |

Special care was taken to scrutinize the bed head tickets and any extravagance noticed eliminated.

The attention of the medical officers and subordinates was daily drawn to excess averages noticed in their wards. The supervision exercised rendered matters satisfactory, in that the total averages of the hospital, both among Europeans and Indians, were respectively within the limit of 10 annas and 5 annas, the minimum fixed during the former years.

**Store Department.**—A storekeeper is in charge assisted by a weighman and two attendants.

All diet and non-diet articles, including paints, were obtained on contract, excepting a few articles, for which no tenders were received, were obtained departmentally.

The issues made on indents by the storekeeper were audited daily by one of the clerks detailed for the purpose, any excessive or deficient issues corrected immediately. The Resident Medical Officer checked the stock quarterly, in addition to the surprise check which he exercised at intervals.

The method adopted in the past years of obtaining supplies of rice, barley and dhol from contractors according to requirements instead of in bulk was extended also to other articles. This proved satisfactory, inasmuch as there occurred no wastage during 1917.

Great difficulty was experienced in obtaining articles of European manufacture, such as sunlight soap, brasso, etc., and these were obtained departmentally at prohibitive rates, at contractors' risk, whenever the contractors failed to comply with indents.

During the second quarter of the year, tenders for such soaps as sunlight soap and beehives bar soap were not accepted and for substitutes, washwell soaps made at the Government Soap Factory at Calicut were obtained.

Owing to the increasing market prices of white sugar, the old custom of using brown sugar in the preparation of Indian diets was resumed during May 1917.

On the abolition of the Government Voluntary Venereal Hospital the unexpended stock of that hospital was transferred to this hospital. They are as follows:—

| Names of articles.                 | Quantity. |     |                                                       |
|------------------------------------|-----------|-----|-------------------------------------------------------|
|                                    | lb.       | oz. |                                                       |
| Arrowroot ... ..                   | 2         | 1   | condemned by Senior Medical Officer as it was mouldy. |
| Chillies ... ..                    | 68        | 5½  |                                                       |
| Coffee powder ... ..               | 119       | 9½  |                                                       |
| Coriander ... ..                   | 48        | 0   |                                                       |
| Cuminseed ... ..                   | 4         | 2   |                                                       |
| Cocotine ... ..                    | 115       | 0   |                                                       |
| Dholl ... ..                       | 64        | 15  |                                                       |
| Firewood ... ..                    | 275       | 0   |                                                       |
| Garlic ... ..                      | 19        | 10½ |                                                       |
| Mustard ... ..                     | 3         | 1   |                                                       |
| Pepper ... ..                      | 27        | 11½ |                                                       |
| Rice ... ..                        | 2,842     | 8   |                                                       |
| Sago ... ..                        | 7         | ½   |                                                       |
| Salt ... ..                        | 142       | 4½  |                                                       |
| Sugar, brown ... ..                | 77        | 3½  |                                                       |
| Tamarind ... ..                    | 144       | 8½  |                                                       |
| Turmeric ... ..                    | 3         | 5   |                                                       |
| Vendium ... ..                     | 3         | 5   |                                                       |
| Indian kitchen curry powder ... .. | 9         | 11½ |                                                       |
| Gingelly oil ... ..                | 18        | 15  |                                                       |

Fourteen tons and 256 lb. of firewood were collected from the compound and added to the stock.

The stock of stationery was examined each quarter and found correct.

**Water-supply.**—Special attention was paid to the expenditure of water in the hospital and the warnings issued from time to time to restrict the expenditure resulted in a further reduction during 1917, as compared with 1916, the decrease observed being 1,035,950 gallons.

During the construction of the Biology shed of the Medical College on the south side of the Hospital compound, the Public Works department used 29,000 gallons and this quantity, when added to the decrease above observed, augmented the actual saving to 1,064,950 gallons.

Glancing at the cost of water consumed, the reduction is equally appreciable. But it cannot be wholly attributed to the decrease in expenditure. It is due also to the revised valuation introduced by the Corporation from 1st May 1916. The arrangement proposed by the President of the Corporation and accepted by the Senior Medical Officer was to charge all consumption of water up to 600,000 gallons at three annas per 1,000 gallons (half the rate of previous years) and any consumption over this fixed minimum at twelve annas per 1,000 gallons. During the first four months of the calendar year 1916, the expenditure was valued according to calculation then current, viz., six annas for every 1,000 gallons, and for the remaining period according to the revised method of valuation. The cost of water consumed during 1916 was therefore Rs. 2,545-10-0, and not Rs. 3,185-9-10 as shown in the report for 1916.

The cost incurred in 1917 was Rs. 1,603-3-8 (excluding Rs. 21-12-0, the cost of 29,000 gallons) which when compared with that for 1916 resulted in a saving of Rs. 942-6-4.

The following statement shows the expenditure of water during the past four years and points out how the expenditure was reduced gradually:—

| Year.       | Expenditure. | Cost.      |
|-------------|--------------|------------|
|             | GALLONS.     | RS. A. P.  |
| 1914 ... .. | 11,912,700   | 4,467 4 2  |
| 1915 ... .. | 10,477,700   | 3,929 2 2  |
| 1916 ... .. | 8,494,950    | 2,545 10 0 |
| 1917 ... .. | 7,430,600    | 1,603 3 8  |

Of the four meters in the hospital for recording consumption of water, the meter which recorded the reading of expenditure in the Resident Medical Officer's quarters, etc., was found, on the 8th May 1917, to be faulty and was changed on the 4th June 1917. In calculating the expenditure for this interval the average expenditure of the previous six months was taken as standard.

A failure of supply was observed in the hospital on the morning of the 9th June 1917, and the Corporation Special Engineer attributed it to an accident to one of the boilers at the pumping station.

The intermittent supply of water which was introduced on the 1st July 1917 proved a failure and the Corporation reverted to the old custom of sending a continuous supply from 12th July 1917.

Some of the planks of the boarded floor over the lower water storage tank near the kitchen were found to be rotten, allowing dust to come in contact with the water below. The Public Works department repaired the planks and cleaned the tank on the 17th December 1917.

**Garden Produce.**—3,260 mangoes and 705 silk cotton pods were collected during 1917, against 3,687 mangoes and 1,150 pods during 1916; the wood collected weighed 14 tons and 256 lb. against 9 tons and 280 lb. in 1916. Both the former articles were sold by auction while the latter was added to the stock.

The lease of the coconut trees in the hospital compound was sold by a public auction held on 10th September 1917 for a period extending over for one year ending with 30th September 1918, the amount realized being Rs. 315 against Rs. 265, or Rs. 50 more than in the previous year.

**Protection of Buildings.**—Four minimax extinguishers remain fixed to the wall on the ground floor while there is one small fire pump in the nurses' quarters, besides there are 125 fire buckets in charge of the Hospital Sergeant. The old manual fire engine which was condemned by the General Superintendent of the Public Works Workshops, being the property of the Military Department, was returned with all its appurtenances to the Assistant Director of Ordnance Stores, 9th Division, Madras, on the 24th February 1917.

**Bicycle and its Repairs.**—The only cycle which was supplied about the beginning of 1905 was in use. This underwent repairs several times in previous years and thrice during 1917.

No special orderlies were employed and the attendants attached to the office used it when they carried urgent tapals for delivery locally.

**Hot water furnaces.**—These were supervised by the stewards 'on duty' and the temperature of water was recorded in their morning reports. This rendered matters satisfactory, so that a supply of hot water was always available in the bath rooms of the main buildings.

Any repairs to boilers and furnaces were executed by the General Superintendent of the Public Works Workshops.

The lease for removal of rejected ash from the furnaces and boilers in the hospital was renewed for one year extending up to 30th June 1918, the amount collected being Rs. 42 against the same amount in 1916.

**Kitchens (European and Indian).**—Careful supervision was exercised over this department, special attention being paid to the timely preparation and regular issue of diets.

Owing to the smallness of the pay of the cook attendants in the Indian kitchen, difficulty is often experienced in finding men to fill vacancies during illness or absence from any other cause, of these servants. There are at present four attendants on a salary of Rs. 8 each per mensem with one head cook on Rs. 15 and an assistant cook on Rs. 10. When any of these men absents himself for some reason, it is found very difficult or impossible to obtain the services of a caste man, immediately, to fill the place on the salary offered, so that the appointment remains vacant until his return, the duties of the absentee being divided among the remaining staff, thus throwing additional strain on them. The duties of these men differ widely from those of the European kitchen. They go about serving diets and extras round the hospital many times in the mornings and evenings, in addition to their other duties in the kitchen, while the duties of cooks in the European kitchen are more or less confined to the kitchen itself. A small increase in the salary of these men will improve matters to a great extent and the difficulty now experienced in finding caste men for employment will be overcome.

No arrangement exists in the hospital for cooking food for Brahmans and other caste men who cannot partake of ordinary hospital diet. Provision exists at present for the employment of a Brahman cook on Rs. 10 per mensem, but the appointment remains vacant for want of a separate kitchen for the purpose. The Government in their Order No. 682, Public, dated 23rd May 1913 (communicated in Surgeon-General's Circular No. 4026, dated 5th June 1913) said that the proposal to provide a separate kitchen and dining room for Brahmans in the General Hospital should stand over until the question of the removal of the hospital to another site was decided. The pay of the Brahman cook, as at present sanctioned, will not attract suitable men for the post. It is pointed out that the establishment of a Brahman kitchen with a well paid staff will remove the difficulty now experienced by this class of patients in obtaining suitable diet. It will also reduce the number of self diet passes which are now necessary.

The boiler, which was fitted up (Regr. No. 614) in the European kitchen to supply steam to the hot cases in the pantry on the first floor, where diets to European patients are served, was in disuse as it was found to consume a very large quantity of firewood. Moreover, Mr. Roberts, the General Superintendent of Public Works Workshops, considers that a skilled mechanic should be always in attendance to work it. The boiler is therefore useless and steps will be taken to return it to the Public Works Stores.

The Senior Inspector of Boilers extended the licence up to 10th May 1918.

**Sale of Unserviceable Articles.**—A public auction was, as usual, held every third Saturday of the month in the hospital compound. Excepting the articles of crockery which are ordered to be destroyed, all other articles which were returned as unserviceable from the wards and other departments of the hospital were auctioned and the sale-proceeds credited to Government.

Articles such as packing cases, coffee powder and other empty tins, empty drums, old records, packing gunnies, earthen jars, etc., were auctioned. The appended statement shows the amount realized during the past five years :—

| Year. | Amount realized.<br>Rs. |
|-------|-------------------------|
| 1913  | 240                     |
| 1914  | 639                     |
| 1915  | 1,193                   |
| 1916  | 846                     |
| 1917  | 778                     |

**17. Inspection.**—The Honourable the Surgeon-General visited the hospital several times during the year.

**18. Verification of stock.**—The stock of furniture and crockery in the wards and other rooms in the hospital was verified by a Committee of Medical officers appointed for the purpose and the stock in the nurses' quarters by the Matron Superintendent.

The stock of perishable articles was examined by the Resident Medical Officer quarterly and also as often as he considered necessary. The annual checking of perishable articles remaining on hand on 31st December 1917 was carried out by the Head Steward and the value of stores aggregating Rs. 1,892-3-5.

The stock of stationary articles was checked by the Resident Medical Officer quarterly and that of linen by the Matron Superintendent.

**19. Verification of Service Registers.**—The service registers of both the superior and inferior permanent establishments were verified up to 31st December 1917.

**20. Sanctioned Establishment.**—The following alterations or additions were made in the permanent establishment of the hospital :—

(1) The two part-time clerks on Rs. 10 each were replaced by two whole-time clerks on Rs. 20 each, with effect from 1st July 1917—vide G.O. Mis. No. 251, L. & M. (Medical), dated 6th June 1917.

(2) The appointment of Miss Jackson as Nursing Sister was sanctioned temporarily by Government with effect from 7th October 1917 on a monthly salary of Rs. 120—4-140—vide G.O. Mis. No. 410, L & M. (Medical), dated 30th September 1917.

(3) Miss Royal Dawson, the Acting Assistant Matron Superintendent, was granted a personal allowance of Rs. 60 per mensem for a period of one year from 1st May 1917 or until the termination of the war, the condition being that she will draw only Rs. 40 when she gets her first increment (G.O. Mis. No. 175, L. & M. (Medical), dated 26th April 1917).

(4) A revised scale of pay to compounders employed in Government institutions was sanctioned in lieu of the scale laid down in G.O. No. 176, Public, dated 22nd February 1911, with effect from 1st March 1918 :—

|                                     | Per mensem.<br>Rs. |
|-------------------------------------|--------------------|
| Fourth Grade under 5 years' service | 15                 |
| Third do. 10 do.                    | 18                 |
| Second do. 15 do.                   | 21                 |
| First do. 15 do.                    | 25                 |

This order will be applicable only to those compounders who possess in full the qualifications prescribed in sub-section VI of section V of the Madras Civil Medical Code; on the introduction of the revised scale the grain compensation allowance now granted to such compounders will be withdrawn.

The compounders may be provided with free quarters, where available, but no house-rent allowance will be given, where this is not found possible.

## 21. Statement of Wound and Post-Mortem Certificates, etc.

| Number of wound certificates issued during the year 1917. | Number of post-mortem certificates issued during the year 1917. | Number of post-mortem examinations made |                          | Number of days during the year spent in courts of justice by Medical Officers and subordinates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           |                                                                 | For medico-legal purposes.              | For scientific purposes. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 104                                                       | 17                                                              | 17                                      | 83                       | <div> <div>Civil Asst. Surgeon V. Viswanatha Sarma ... 1</div> <div>Do. Govindarajulu Nayudu ... 1</div> <div>House Surgeon W. C. Thomas ... 8</div> <div>Civil Asst. Surgeon F. J. Saldanha ... 2</div> <div>House Physician D. Kanakasabesan ... 2</div> <div>Do. P. K. Koshy ... 6</div> <div>Civil Asst. Surgeon W. J. Fernandes ... 2</div> <div>House Physician E. K. Thomas ... 5</div> <div>Civil Asst. Surgeon C. Chinnaswami ... 2</div> <div>House Surgeon C. R. Nilakanta Pillai ... 5</div> <div>Civil Asst. Surgeon K. Venugopal ... 1</div> <div>Civil Asst. Surgeon B. V. Narasimhayya ... 15</div> <div>Do. C. Abbu Mudaliyar ... 2</div> <div>House Physician G. R. Linker Rao ... 2</div> <div>House Surgeon A. R. Parasuraman ... 3</div> <div>Civil Asst. Surgeon N. S. Natarajan ... 3</div> <div>House Surgeon O. C. Madhavan ... 3</div> <div>Do. K. Ganapati Ayyar ... 9</div> <div>Civil Asst. Surgeon T. M. K. Pedungadi, L.M. &amp; S., Acting Third Surgeon ... 1</div> <div>Civil Asst. Surgeon M. E. Guruswami Mudaliyar, B.A., M.B., C.M., Acting Second Physician ... 3</div> <div>Civil Asst. Surgeon L. S. Rajamanikkam ... 4</div> <div>Do. B. Tirumal Rao ... 3</div> <div>House Surgeon K. M. Methula ... 1</div> <div>Do. G. D. Gnanamattu ... 1</div> <div>Do. T. C. Mathew ... 2</div> <div>Civil Asst. Surgeon S. Kollappa Pillai ... 1</div> <div>Do. P. K. Kurian ... 2</div> <div>Do. M. Seshadiri Reddi ... 1</div> <div>House Physician E. Venkata Rao ... 1</div> <div>Do. Srinivasa Sastri ... 1</div> <div>House Surgeon A. Tirumalayya ... 1</div> </div> |
|                                                           |                                                                 |                                         |                          | Total ... 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**22. General Remarks.**—The following statement shows receipts and expenditure during the past four years ending with 1917 :—

|                                             | 1914.                 | 1915.                | 1916.                | 1917.                 |
|---------------------------------------------|-----------------------|----------------------|----------------------|-----------------------|
| Receipts.                                   | Rs.<br>5,09,029       | Rs.<br>4,82,757      | Rs.<br>3,53,741      | Rs.<br>3,80,775       |
| Expenditure—                                | Rs.                   | Rs.                  | Rs.                  | Rs.                   |
| Salaries (Medical Officers)                 | 84,501                | 85,878               | 70,370               | 75,249                |
| Salaries (Nurses)                           | 48,881                | 45,441               | 47,772               | 51,072                |
| Salaries (Inferior servants)                | 42,425                | 40,737               | 44,911               | 44,214                |
| Medicines (European)                        | 50,750                | 59,239               | 81,189               | 42,524                |
| Medicines (Bazaar)                          | 2,097                 | 1,548                | 1,130                | 1,436                 |
| Diet                                        | 93,256                | 85,170               | 58,575               | 60,603                |
| Miscellaneous charges                       | 1,02,359              | 1,44,430             | 79,958               | 85,476                |
| Buildings or repairs                        | 84,760                | 20,319               | 18,844               | 20,102                |
| Investments                                 | ...                   | ...                  | ...                  | ...                   |
| Average daily sick in 1913 (455-66)         | 439.17                | 401.37               | 379.23               | 372.60                |
| Cost per head of the total average strength | Rs. A. P.<br>416 14 1 | Rs. A. P.<br>515 8 6 | Rs. A. P.<br>367 7 8 | Rs. A. P.<br>385 7 11 |

There is an increase of Rs. 27,034 over that of the previous year. This is due partly to the fact that the cost of European articles has risen considerably and partly to the increase in the salary of Medical Officers and Nurses, etc.

GOVT. GENERAL HOSPITAL,  
MADRAS,  
15th January 1918.

C. H. L. PALK, Major, I.M.S. (Retired),  
Senior Medical Officer.

## APPENDIX A.

Comparative statement of the medical work done in the General Hospital, Madras, for the three years ending 1917.

| Years. | In-patients.             |                |        |         |                           |                          |                |                          |                |            | Out-patients.            |            |                     |             |
|--------|--------------------------|----------------|--------|---------|---------------------------|--------------------------|----------------|--------------------------|----------------|------------|--------------------------|------------|---------------------|-------------|
|        | Total treated.           |                |        |         |                           | Average cost of diet.    |                |                          |                |            | Total treated.           |            | Average daily sick. |             |
|        | Europeans and Eurasians. |                |        |         |                           | Officers' quarters.      |                |                          |                |            | Europeans and Eurasians. |            | Male side.          |             |
|        | Europeans and Eurasians. | Non-Europeans. | Total. | Deaths. | Average stay in hospital. | Europeans and Eurasians. | Non-Europeans. | Europeans and Eurasians. | Non-Europeans. | Rs. A. P.  | Rs. A. P.                | Rs. A. P.  | Female side.        | Operations. |
| 1915   | 1,328                    | 5,740          | 109,38 | 87      | 353                       | 440                      | 4,355          | 21-98                    | 18-87          | 0 10 5 1/2 | 0 5 8 1/2                | 1 5 2 1/2  | 132-25              | 6,942       |
| 1916   | 1,743                    | 6,176          | 84-47  | 284     | 76                        | 301                      | 4,920          | 21-93                    | 18-87          | 0 9 6      | 0 4 10                   | 0 15 8 1/2 | 138-06              | 5,728       |
| 1917   | 1,388                    | 5,678          | 93-90  | 62      | 304                       | 365                      | 4,515          | 20-23                    | 17-94          | 0 9 8      | 0 4 11 1/2               | 0 13 9 1/2 | 144-77              | 5,310       |

ANNUAL REPORT AND STATISTICS OF THE

## APPENDIX B.

Statement showing the medical work done by each Medical Officer during 1917.

| Medical officers. | Class of patients. | Admissions. |           |        |        |           |                       |       |            |                       |           | Average daily sick. | Operations.                |        |        |           |                       |       |               |                                       |                     |                | Average cost of diet. |  | Post-mortem examinations. |
|-------------------|--------------------|-------------|-----------|--------|--------|-----------|-----------------------|-------|------------|-----------------------|-----------|---------------------|----------------------------|--------|--------|-----------|-----------------------|-------|---------------|---------------------------------------|---------------------|----------------|-----------------------|--|---------------------------|
|                   |                    | Remained.   | Admitted. | Total. | Cured. | Believed. | Discharged otherwise. | Died. | Remaining. | Death-rate per 1,000. | Remained. |                     | Performed during the year. | Total. | Cured. | Believed. | Discharged otherwise. | Died. | Remains in p. | Average stay of patients in hospital. | Officers' quarters. | General wards. |                       |  |                           |
|                   |                    |             |           |        |        |           |                       |       |            |                       |           |                     |                            |        |        |           |                       |       |               |                                       |                     |                |                       |  |                           |
|                   |                    |             |           |        |        |           |                       |       |            |                       |           |                     |                            |        |        |           |                       |       |               |                                       |                     |                |                       |  |                           |
| First Physician   | Non-Europeans      | 20          | 510       | 509    | 226    | 101       | 115                   | 28    | 29         | 27-13                 | 30-78     | 1                   | 439                        | 440    | 308    | 35        | 4                     | ...   | ...           | 17-66                                 | Rs. A. P.           | Rs. A. P.      |                       |  |                           |
|                   | Europeans          | 22          | 642       | 721    | 495    | 168       | 194                   | 28    | 29         | 30-14                 | 38-78     | 8                   | 288                        | 291    | 215    | 20        | 16                    | ...   | ...           | 19-52                                 | 0 10 5              | 0 5 8          |                       |  |                           |
|                   | Total              | 42          | 1,152     | 1,230  | 631    | 369       | 309                   | 56    | 58         | 28-67                 | 51-16     | 9                   | 727                        | 731    | 623    | 55        | 20                    | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
| Second Physician  | Non-Europeans      | 23          | 750       | 823    | 374    | 250       | 141                   | 49    | 28         | 33-02                 | 59-01     | ...                 | 384                        | 391    | 278    | 103       | ...                   | ...   | ...           | 14-94                                 | 0 14 7              | 0 5 4          |                       |  |                           |
|                   | Europeans          | 9           | 197       | 306    | 111    | 61        | 23                    | 12    | 10         | 10-83                 | 58-25     | ...                 | 43                         | 43     | 43     | 13        | ...                   | ...   | ...           | 18-86                                 | 2 1 7               | 0 10 6         |                       |  |                           |
|                   | Total              | 32          | 947       | 1,129  | 485    | 281       | 164                   | 61    | 38         | 24-05                 | 50-53     | ...                 | 424                        | 434    | 321    | 116       | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
| Third Physician   | Non-Europeans      | 18          | 501       | 519    | 224    | 121       | 121                   | 83    | 20         | 23-53                 | 63-58     | ...                 | 117                        | 117    | 117    | 63        | ...                   | ...   | ...           | 16-86                                 | ...                 | ...            |                       |  |                           |
|                   | Europeans          | ...         | ...       | ...    | ...    | ...       | ...                   | ...   | ...        | ...                   | ...       | ...                 | ...                        | ...    | ...    | ...       | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
|                   | Total              | 18          | 501       | 519    | 224    | 121       | 121                   | 83    | 20         | 23-53                 | 63-58     | ...                 | 117                        | 117    | 117    | 63        | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
| Fourth Physician  | Non-Europeans      | 30          | 764       | 794    | 314    | 280       | 115                   | 26    | 30         | 31-18                 | 45-54     | 2                   | 287                        | 289    | 269    | 40        | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
|                   | Europeans          | 7           | 148       | 155    | 80     | 42        | 112                   | 8     | 4          | 8-67                  | 15-61     | ...                 | 102                        | 102    | 102    | 6         | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
|                   | Total              | 37          | 912       | 949    | 403    | 322       | 127                   | 34    | 34         | 39-75                 | 45-41     | 2                   | 389                        | 391    | 370    | 46        | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
| First Surgeon     | Non-Europeans      | 44          | 578       | 622    | 266    | 177       | 180                   | 39    | 61         | 29-53                 | 38-12     | 31                  | 332                        | 333    | 210    | 110       | ...                   | ...   | ...           | 21-38                                 | 0 13 5              | 0 4 8          |                       |  |                           |
|                   | Europeans          | 13          | 253       | 271    | 161    | 93        | 104                   | 15    | 15         | 15-50                 | 22-14     | 7                   | 303                        | 310    | 279    | 16        | ...                   | ...   | ...           | 20-10                                 | 0 13 44             | 0 9 7          |                       |  |                           |
|                   | Total              | 57          | 831       | 893    | 427    | 270       | 284                   | 54    | 76         | 32-03                 | 40-26     | 38                  | 635                        | 643    | 489    | 126       | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
| Second Surgeon    | Non-Europeans      | 36          | 890       | 926    | 408    | 281       | 144                   | 58    | 57         | 47-48                 | 53-42     | 29                  | 677                        | 697    | 498    | 112       | ...                   | ...   | ...           | 21-38                                 | 0 13 5              | 0 4 8          |                       |  |                           |
|                   | Europeans          | 7           | 135       | 162    | 102    | 51        | 16                    | 5     | 7          | 9-60                  | 15-50     | 2                   | 121                        | 123    | 123    | 12        | ...                   | ...   | ...           | 20-30                                 | 0 14 71             | 0 9 8          |                       |  |                           |
|                   | Total              | 43          | 975       | 1,019  | 510    | 332       | 160                   | 63    | 64         | 57-08                 | 59-52     | 31                  | 798                        | 820    | 601    | 124       | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
| Third Surgeon     | Non-Europeans      | 48          | 1,042     | 1,090  | 672    | 219       | 104                   | 53    | 46         | 46-93                 | 49-02     | 33                  | 745                        | 775    | 635    | 77        | ...                   | ...   | ...           | 20-34                                 | 0 14 71             | 0 4 9          |                       |  |                           |
|                   | Europeans          | 11          | 162       | 173    | 125    | 28        | 12                    | 3     | 6          | 10-46                 | 17-45     | 3                   | 133                        | 133    | 133    | 13        | ...                   | ...   | ...           | 21-90                                 | 2 10 2              | 0 8 1          |                       |  |                           |
|                   | Total              | 59          | 1,204     | 1,263  | 798    | 247       | 116                   | 56    | 52         | 57-39                 | 66-47     | 36                  | 878                        | 911    | 768    | 90        | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
| Total             | Non-Europeans      | 229         | 5,444     | 5,673  | 2,781  | 1,893     | 930                   | 304   | 247        | 27-70                 | 33-72     | 87                  | 3,686                      | 3,613  | 2,792  | 817       | ...                   | ...   | ...           | 18-86                                 | 0 12 71             | 0 4 11         |                       |  |                           |
|                   | Europeans          | 79          | 1,609     | 1,688  | 1,033  | 348       | 164                   | 62    | 71         | 15-50                 | 18-73     | 15                  | 880                        | 1,004  | 824    | 111       | ...                   | ...   | ...           | ...                                   | ...                 | ...            |                       |  |                           |
|                   | Grand Total        | 308         | 7,053     | 7,361  | 3,814  | 2,241     | 1,104                 | 366   | 318        | 37-20                 | 49-73     | 102                 | 4,566                      | 4,617  | 3,620  | 928       | 144                   | ...   | ...           | 18-49                                 | ...                 | ...            |                       |  |                           |

Out-patients.

## Out-patients.

| Medical officers.                                 | Class of patients. | Total treated. |        |        |                |                  |        | Average daily sick. |        |                |                  |       |        | Operation. |        |
|---------------------------------------------------|--------------------|----------------|--------|--------|----------------|------------------|--------|---------------------|--------|----------------|------------------|-------|--------|------------|--------|
|                                                   |                    | Men.           |        |        | Women.         |                  |        | Male children.      |        |                | Female children. |       |        | Total.     | Total. |
|                                                   |                    | Men.           | Women. | Total. | Male children. | Female children. | Men.   | Women.              | Total. | Male children. | Female children. | Men.  | Women. | Total.     | Total. |
| Resident Medical officers and Assistant Surgeons. | Non-European       | 37,983         | 8,125  | 46,108 | 4,806          | 4,507            | 32,786 | 60,24               | 38,76  | 99,00          | 32,19            | 46,67 | 4,635  | 3          |        |
|                                                   | European           | 2,573          | 1,164  | 3,737  | 520            | 453              | 1,481  | 7,40                | 3,54   | 10,94          | 2,42             | 2,96  | 995    | ...        |        |
|                                                   | Total              | 40,556         | 9,289  | 49,845 | 5,326          | 4,960            | 34,267 | 67,64               | 42,30  | 110,00         | 34,61            | 49,63 | 5,630  | 3          |        |

## APPENDIX C.

Statement showing 'Cost per head per annum' of the Daily Average Strength of the General Hospital, Madras, for the year 1917, as compared with those of 1914, 1915 and 1916.

| Name of hospital or dispensary. | Number of medical institutions. | Daily average number of in-patients treated. | Daily average number of out-patients treated. | Total of the daily average strength. | Total cost.      |                | Establishment.   |              | Medicines, both European and country. |             | Diet.          |              | Miscellaneous charges. |              |
|---------------------------------|---------------------------------|----------------------------------------------|-----------------------------------------------|--------------------------------------|------------------|----------------|------------------|--------------|---------------------------------------|-------------|----------------|--------------|------------------------|--------------|
|                                 |                                 |                                              |                                               |                                      | Cost.            | Strength.      | Cost.            | Strength.    | Cost.                                 | Strength.   | Cost.          | Strength.    | Cost.                  | Strength.    |
| 1                               | 2                               | 3                                            | 4                                             | 5                                    | 6                | 7              | 8                | 9            | 10                                    | 11          | 12             | 13           | 14                     | 15           |
| 1914.                           | 1                               | 489-17                                       | 460-01                                        | 609-08                               | Rs. 3,44,918 0 0 | A. P. 416 14 1 | Rs. 1,75,807 0 0 | Rs. 195 8 8  | Rs. 52,847 0 0                        | Rs. 58 1 2  | Rs. 93,556 0 0 | Rs. 210 4 8  | Rs. 73,008 0 0         | Rs. 82 4 8   |
| 1915.                           | 1                               | 401-32                                       | 437-18                                        | 838-50                               | Rs. 4,32,011 0 0 | A. P. 515 8 6  | Rs. 1,72,558 0 0 | Rs. 205 3 1  | Rs. 80,782 0 0                        | Rs. 72 7 10 | Rs. 85,170 0 0 | Rs. 312 3 5  | Rs. 1,14,003 0 0       | Rs. 185 15 4 |
| 1916.                           | 1                               | 370-23                                       | 454-87                                        | 834-10                               | Rs. 3,03,405 0 0 | A. P. 367 7 8  | Rs. 1,63,053 0 0 | Rs. 197 5 8  | Rs. 32,319 0 0                        | Rs. 39 2 0  | Rs. 58,575 0 0 | Rs. 154 7 4  | Rs. 40,458 0 0         | Rs. 130 6 8  |
| 1917.                           | 1                               | 372-60                                       | 435-36                                        | 857-96                               | Rs. 3,50,947 0 0 | A. P. 408 12 8 | Rs. 1,70,535 0 0 | Rs. 195 11 2 | Rs. 48,900 0 0                        | Rs. 51 3 9  | Rs. 60,804 0 0 | Rs. 162 10 4 | Rs. 55,648 0 0         | Rs. 149 2 6  |

Column 6 is the same as column 22 in Statement H, minus columns 11 and 20 of the latter.  
Column 8 is the same as column 4 of Statement H.  
Column 10 is the total of columns 16 and 17 of Statement H.

Column 12 is the same as column 18 of Statement H.

Column 14 is the same as column 19 of Statement H, minus column 11 of the same, Rs. 29,353.  
Cost of petty repairs to buildings has been included in column 20 of Statement H.

## APPENDIX D.

## INDIANS.

Statement showing the in-patients treated with results in the year 1917.

| No.       | Disease.                                                                           | Remained. | Admitted. | Total. | Results. |           |                       |       |            | Total. |
|-----------|------------------------------------------------------------------------------------|-----------|-----------|--------|----------|-----------|-----------------------|-------|------------|--------|
|           |                                                                                    |           |           |        | Cured.   | Relieved. | Discharged otherwise. | Died. | Remaining. |        |
| 1         | Cholera ...                                                                        | ...       | ...       | ...    | ...      | ...       | ...                   | ...   | ...        | ...    |
| 2         | Dysentery ...                                                                      | 8         | 162       | 170    | 180      | 15        | 12                    | ...   | 5          | 170    |
| 3         | Enteric fever ...                                                                  | 6         | 35        | 41     | 29       | 1         | 5                     | 3     | ...        | 41     |
| 4         | Gonorrhoea ...                                                                     | 5         | 91        | 96     | 25       | 43        | 18                    | ...   | 10         | 96     |
| 5         | Kala Azar ...                                                                      | 3         | 38        | 41     | 5        | 14        | 14                    | 6     | 2          | 41     |
| 6         | Leprosy ...                                                                        | ...       | 3         | 3      | ...      | ...       | 3                     | ...   | ...        | 3      |
| 7         | Malaria ...                                                                        | 6         | 363       | 369    | 276      | 56        | 20                    | 7     | 10         | 369    |
| 8         | Plague ...                                                                         | ...       | ...       | ...    | ...      | ...       | ...                   | ...   | ...        | ...    |
| 9         | Pneumonia ...                                                                      | 6         | 113       | 119    | 75       | 8         | 6                     | 26    | 4          | 119    |
| 10        | Pyrexia of uncertain origin ...                                                    | ...       | 73        | 73     | 53       | 7         | 8                     | 5     | ...        | 73     |
| 11        | Rheumatic fever and rheumatism ...                                                 | 5         | 64        | 69     | 30       | 23        | 4                     | ...   | 3          | 69     |
| 12        | Small-pox ...                                                                      | ...       | 1         | 1      | ...      | ...       | ...                   | ...   | ...        | 1      |
| 13        | Syphilis (primary and secondary) ...                                               | 2         | 121       | 123    | 18       | 76        | 28                    | 1     | 5          | 123    |
| 14        | Tubercle of the lung ...                                                           | 4         | 153       | 157    | 3        | 57        | 78                    | 13    | 11         | 157    |
| 15        | Other tubercular diseases ...                                                      | 3         | 108       | 111    | 29       | 38        | 23                    | 12    | 9          | 111    |
| 16        | All other infective diseases ...                                                   | 5         | 183       | 188    | 105      | 25        | 26                    | 24    | 8          | 188    |
| 17        | Anæmia ...                                                                         | 5         | 43        | 48     | 8        | 21        | 10                    | 5     | 4          | 48     |
| 18        | Diabetes ...                                                                       | ...       | 47        | 47     | 10       | 18        | 14                    | 4     | 1          | 47     |
| 19        | Scurvy ...                                                                         | ...       | 1         | 1      | ...      | ...       | ...                   | ...   | ...        | 1      |
| 20        | New growth { Non-malignant                                                         | ...       | 1         | 1      | ...      | ...       | ...                   | ...   | ...        | 1      |
| 21        | { Malignant                                                                        | ...       | 5         | 5      | ...      | ...       | ...                   | ...   | ...        | 5      |
| 22        | All other general diseases ...                                                     | 7         | 130       | 137    | 59       | 33        | 31                    | 4     | 10         | 137    |
| 23        | Diseases of the nervous system ...                                                 | 2         | 49        | 51     | 12       | 20        | 13                    | 2     | 4          | 51     |
| 24        | Do. eye ...                                                                        | ...       | 7         | 7      | 4        | 2         | 1                     | ...   | ...        | 7      |
| 25        | Do. ear ...                                                                        | 1         | 15        | 16     | 10       | 4         | 1                     | ...   | 1          | 16     |
| 26        | Do. nose ...                                                                       | 1         | 21        | 22     | 19       | ...       | 3                     | ...   | ...        | 22     |
| 27        | Do. circulatory system ...                                                         | 5         | 204       | 209    | 40       | 98        | 42                    | 20    | 9          | 209    |
| 28        | All diseases of the respiratory system except pneumonia and tubercle of the lungs. | 9         | 230       | 239    | 108      | 95        | 18                    | 8     | 13         | 239    |
| 29        | Dyspepsia ...                                                                      | ...       | 18        | 18     | 8        | 11        | 2                     | 2     | ...        | 18     |
| 30        | Diarrhoea ...                                                                      | 2         | 38        | 40     | 16       | 11        | 5                     | 8     | ...        | 40     |
| 31        | Abscess of the liver ...                                                           | ...       | 29        | 29     | 17       | 3         | 5                     | 4     | ...        | 29     |
| 32        | All other diseases of the liver ...                                                | 7         | 102       | 109    | 9        | 52        | 30                    | 12    | 6          | 109    |
| 33        | Appendicitis ...                                                                   | 2         | 46        | 48     | 25       | 13        | 8                     | ...   | 2          | 48     |
| 34        | All other diseases of the digestive system ...                                     | 25        | 972       | 997    | 502      | 234       | 158                   | 62    | 41         | 997    |
| 35        | Inflammation and suppuration of lymph glands.                                      | 5         | 98        | 103    | 55       | 27        | 10                    | 2     | 9          | 103    |
| 36        | Goitre ...                                                                         | 1         | 9         | 10     | 2        | 6         | 2                     | ...   | ...        | 10     |
| 37        | Bright's disease ...                                                               | ...       | 18        | 18     | 4        | 8         | 3                     | 2     | 1          | 18     |
| 38        | All other diseases of the urinary system ...                                       | 17        | 226       | 243    | 123      | 58        | 43                    | 9     | 10         | 243    |
| 39        | Hydrocele ...                                                                      | 7         | 203       | 210    | 166      | 13        | 19                    | 4     | 8          | 210    |
| 40        | Other diseases of the generative system ...                                        | 1         | 210       | 211    | 112      | 86        | 88                    | 2     | 22         | 211    |
| 41        | Diseases of the organs of locomotion ...                                           | 22        | 249       | 271    | 158      | 45        | 36                    | 11    | 21         | 271    |
| 42        | Diseases of the connective tissue ...                                              | 3         | 107       | 110    | 59       | 30        | 16                    | 1     | 4          | 110    |
| 43        | Ulcers ...                                                                         | 7         | 55        | 62     | 24       | 24        | 7                     | 1     | 2          | 62     |
| 44        | Other diseases of the skin ...                                                     | 27        | 326       | 353    | 223      | 70        | 85                    | 9     | 16         | 353    |
| 45        | All other local diseases ...                                                       | 5         | 250       | 255    | 82       | 53        | 110                   | 5     | 5          | 255    |
| 46        | Injuries (general and local) ...                                                   | 15        | 198       | 213    | 129      | 36        | 13                    | 24    | 8          | 213    |
| 47        | Poisoning { By opium ...                                                           | ...       | 19        | 19     | 7        | 11        | ...                   | ...   | 1          | 19     |
| 48        | { By other poisons ...                                                             | ...       | 10        | 10     | 8        | ...       | ...                   | 2     | ...        | 10     |
| 49        | Labour { Normal ...                                                                | ...       | ...       | ...    | ...      | ...       | ...                   | ...   | ...        | ...    |
| 50        | { Abnormal ...                                                                     | ...       | ...       | ...    | ...      | ...       | ...                   | ...   | ...        | ...    |
| Total ... |                                                                                    | 229       | 5,414     | 5,678  | 2,734    | 1,398     | 920                   | 304   | 247        | 5,678  |

## APPENDIX E.

EUROPEANS AND ANGLO-INDIANS.

*Statement showing the in-patients treated with results in the year 1917.*

| No. | Diseases.                                                                          | Remained. | Admitted. | Total. | Cured. | Believed. | Discharged otherwise. | Died. | Remaining. | Total |
|-----|------------------------------------------------------------------------------------|-----------|-----------|--------|--------|-----------|-----------------------|-------|------------|-------|
| 1   | Cholera                                                                            | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 2   | Dysentery                                                                          | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 3   | Enteric fever                                                                      | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 4   | Gonorrhoea                                                                         | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 5   | Kala Asar                                                                          | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 6   | Leprosy                                                                            | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 7   | Malaria                                                                            | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 8   | Plague                                                                             | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 9   | Pneumonia                                                                          | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 10  | Pyrexia of uncertain origin                                                        | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 11  | Rheumatic fever and rheumatism                                                     | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 12  | Small-pox                                                                          | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 13  | Syphilis (primary and secondary)                                                   | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 14  | Tubercle of the lung                                                               | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 15  | Other tubercular diseases                                                          | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 16  | All other infective diseases                                                       | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 17  | Anæmia                                                                             | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 18  | Diabetes                                                                           | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 19  | Scurvy                                                                             | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 20  |                                                                                    | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 21  | } New growth { Non-malignant                                                       | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 22  | } Malignant                                                                        | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 23  | All other general diseases                                                         | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 24  | Diseases of the nervous system                                                     | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 25  | Do. eye                                                                            | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 26  | Do. ear                                                                            | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 27  | Do. nose                                                                           | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 28  | Do. circulatory system                                                             | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 29  | All diseases of the respiratory system except pneumonia and tubercle of the lungs. | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 30  | Dyspepsia                                                                          | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 31  | Diarrhoea                                                                          | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 32  | Abscess of the liver                                                               | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 33  | All other diseases of the liver                                                    | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 34  | Appendicitis                                                                       | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 35  | All other diseases of the digestive system                                         | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 36  | Inflammation and suppuration of lymph glands.                                      | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 37  | Goitre                                                                             | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 38  | Bright's disease                                                                   | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 39  | All other diseases of the urinary system                                           | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 40  | Hydrocele                                                                          | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 41  | Other diseases of the generative system                                            | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 42  | Diseases of the organs of locomotion                                               | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 43  | Diseases of the connective tissue                                                  | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 44  | Ulcers                                                                             | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 45  | Other diseases of the skin                                                         | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 46  | All other local diseases                                                           | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 47  | Injuries (general and local)                                                       | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 48  | } Poisoning { By opium                                                             | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 49  | } By other poisons                                                                 | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
| 50  | } Labour { Normal                                                                  | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
|     | } Abnormal                                                                         | ..        | ..        | ..     | ..     | ..        | ..                    | ..    | ..         | ..    |
|     | Total                                                                              | 79        | 1,609     | 1,688  | 1,023  | 348       | 184                   | 62    | 71         | 1,688 |

## APPENDIX F.

*Table showing the number of admissions, etc., from 1862.*

| Years.              | In-patients.   |           |          |           |                     |           |          |           |          |           | Out-patients.  |           |                     |           | Total.         |                     |          |           |
|---------------------|----------------|-----------|----------|-----------|---------------------|-----------|----------|-----------|----------|-----------|----------------|-----------|---------------------|-----------|----------------|---------------------|----------|-----------|
|                     | Total treated. |           |          |           | Average daily sick. |           |          |           | Deaths.  |           | Total treated. |           | Average daily sick. |           | Total treated. | Average daily sick. |          |           |
|                     | Europeans.     |           | Indians. |           | Europeans.          |           | Indians. |           | Medical. |           | Surgical.      |           | Europeans.          |           |                |                     | Indians. |           |
|                     | Medical.       | Surgical. | Medical. | Surgical. | Medical.            | Surgical. | Medical. | Surgical. | Medical. | Surgical. | Medical.       | Surgical. | Medical.            | Surgical. |                |                     | Medical. | Surgical. |
| 1863                | 1,118          | 741       | 684      | 784       | 39                  | 106       | 145      | 672       | 1,844    | 164       | 814            | 1,700     | 9,086               | 82        | 111            |                     |          |           |
| 1864                | 1,223          | 651       | 624      | 804       | 37                  | 78        | 115      | 847       | 1,654    | 184       | 204            | 2,066     | 9,305               | 754       | 1,074          |                     |          |           |
| 1865                | 1,326          | 650       | 724      | 814       | 48                  | 41        | 129      | 1,111     | 2,224    | 104       | 23             | 2,487     | 9,374               | 834       | 1,034          |                     |          |           |
| 1866                | 1,480          | 683       | 82       | 82        | 42                  | 107       | 140      | 981       | 1,084    | 6         | 134            | 2,471     | 9,347               | 744       | 1,034          |                     |          |           |
| 1867                | 1,478          | 944       | 924      | 144       | 95                  | 144       | 230      | 1,251     | 2,503    | 124       | 22             | 2,759     | 9,740               | 1,064     | 1,164          |                     |          |           |
| 1868                | 1,402          | 1,205     | 994      | 984       | 68                  | 131       | 189      | 1,229     | 3,458    | 17        | 34             | 3,131     | 4,723               | 1,164     | 1,324          |                     |          |           |
| 1869                | 1,486          | 1,440     | 1,004    | 97        | 43                  | 171       | 180      | 2,154     | 4,808    | 14        | 294            | 3,643     | 5,777               | 1,164     | 1,264          |                     |          |           |
| 1870                | 782            | 525       | 700      | 786       | 32                  | 75        | 107      | 1,577     | 5,002    | 104       | 414            | 2,864     | 6,523               | 664       | 1,164          |                     |          |           |
| 1871                | 683            | 402       | 469      | 334       | 39                  | 75        | 109      | 1,666     | 6,039    | 114       | 534            | 2,781     | 7,534               | 684       | 1,264          |                     |          |           |
| 1872                | 738            | 475       | 64       | 484       | 27                  | 63        | 90       | 1,934     | 5,803    | 16        | 544            | 3,147     | 7,320               | 724       | 1,187          |                     |          |           |
| 1873                | 891            | 1,118     | 888      | 444       | 41                  | 56        | 97       | 2,199     | 6,507    | 17        | 594            | 3,689     | 8,613               | 844       | 1,594          |                     |          |           |
| 1874                | 830            | 460       | 515      | 56        | 44                  | 74        | 118      | 2,425     | 8,768    | 164       | 71             | 3,716     | 10,581              | 794       | 1,185          |                     |          |           |
| 1st quarter of 1874 | 552            | 287       | 323      | 674       | 12                  | 23        | 35       | 2,107     | 5,774    | 64        | 64             | 953       | 2,777               | 814       | 1,199          |                     |          |           |
| 1874-75             | 922            | 551       | 995      | 1,058     | 43                  | 65        | 54       | 2,639     | 8,443    | 18        | 734            | 4,112     | 11,458              | 964       | 1,914          |                     |          |           |
| 1875-76             | 921            | 468       | 1,142    | 1,111     | 43                  | 137       | 175      | 3,001     | 9,902    | 194       | 514            | 4,380     | 12,165              | 874       | 1,954          |                     |          |           |
| 1876-77             | 978            | 432       | 2,123    | 1,104     | 60                  | 441       | 56       | 4,095     | 11,959   | 275       | 868            | 5,508     | 12,186              | 8475      | 2,2104         |                     |          |           |
| 1877                | 1,314          | 560       | 3,306    | 1,304     | 80                  | 876       | 113      | 5,292     | 13,281   | 324       | 943            | 7,166     | 17,511              | 1,0438    | 2,6540         |                     |          |           |
| 1878                | 1,562          | 2,636     | 7568     | 13932     | 76                  | 200       | 276      | 4,408     | 13,694   | 3366      | 11327          | 6,470     | 18,530              | 1,0934    | 2,5319         |                     |          |           |
| 1879                | 1,784          | 2,546     | 7023     | 13608     | 46                  | 164       | 210      | 4,989     | 19,441   | 3659      | 14631          | 6,308     | 31,788              | 1,0582    | 2,8199         |                     |          |           |
| 1880                | 1,856          | 2,666     | 5621     | 13431     | 57                  | 172       | 229      | 5,483     | 18,023   | 3897      | 14284          | 6,671     | 30,769              | 9318      | 2,7765         |                     |          |           |
| 1881                | 1,046          | 2,240     | 6057     | 11973     | 59                  | 153       | 211      | 6,719     | 18,904   | 4183      | 16343          | 6,765     | 21,144              | 1,0190    | 2,7815         |                     |          |           |
| 1882                | 1,027          | 2,221     | 6159     | 12829     | 57                  | 178       | 235      | 4,947     | 18,698   | 3520      | 13420          | 5,974     | 20,619              | 9679      | 2,7815         |                     |          |           |
| 1883                | 1,044          | 2,088     | 6282     | 13863     | 48                  | 138       | 187      | 4,889     | 22,185   | 3063      | 13357          | 5,983     | 24,223              | 9844      | 2,8720         |                     |          |           |
| 1884                | 1,181          | 2,173     | 6583     | 12256     | 77                  | 208       | 285      | 4,983     | 22,606   | 3427      | 16883          | 6,164     | 24,678              | 1,0044    | 2,8969         |                     |          |           |
| 1885                | 1,160          | 2,313     | 7307     | 13822     | 49                  | 154       | 203      | 5,533     | 25,129   | 3130      | 16967          | 6,083     | 27,442              | 1,0437    | 3,0789         |                     |          |           |
| 1886                | 1,209          | 2,288     | 7283     | 12871     | 46                  | 143       | 192      | 6,276     | 26,799   | 3282      | 17397          | 7,455     | 29,037              | 1,0565    | 3,0768         |                     |          |           |
| 1887                | 1,210          | 2,327     | 5989     | 13655     | 60                  | 230       | 290      | 6,923     | 23,752   | 3960      | 17188          | 8,133     | 28,579              | 9949      | 3,0846         |                     |          |           |
| 1888                | 1,423          | 3,482     | 6913     | 16868     | 64                  | 177       | 241      | 8,043     | 27,135   | 4139      | 18099          | 8,368     | 30,567              | 11052     | 3,3947         |                     |          |           |
| 1889                | 1,438          | 3,451     | 6743     | 14938     | 89                  | 194       | 233      | 8,087     | 30,417   | 4896      | 23114          | 8,580     | 33,868              | 11689     | 3,7052         |                     |          |           |
| 1890                | 1,498          | 3,946     | 7114     | 17216     | 87                  | 235       | 305      | 8,862     | 32,405   | 5538      | 28446          | 10,361    | 36,351              | 12647     | 4,1264         |                     |          |           |
| 1891                | 1,285          | 3,416     | 6824     | 17461     | 75                  | 329       | 404      | 7,785     | 31,970   | 4786      | 24978          | 9,020     | 35,986              | 11608     | 4,2439         |                     |          |           |
| 1892                | 1,273          | 3,077     | 8141     | 18198     | 74                  | 316       | 390      | 7,959     | 37,007   | 47961     | 27981          | 9,232     | 40,084              | 13347     | 4,6169         |                     |          |           |
| 1893                | 1,399          | 3,161     | 8043     | 17812     | 62                  | 246       | 308      | 8,171     | 41,450   | 6008      | 30143          | 9,500     | 44,611              | 13046     | 4,7465         |                     |          |           |

## APPENDIX G.

Nominal Register of Medical Officers of the General Hospital, Madras, from the year 1830.  
Old Organization.

| Garrison Surgeon. |                      |                   |              | Surgeon.           |                      |                   |               | Permanent Assistant Surgeon. |                      |                   |              |
|-------------------|----------------------|-------------------|--------------|--------------------|----------------------|-------------------|---------------|------------------------------|----------------------|-------------------|--------------|
| Name.             | Acting or permanent. | Tenure of office. |              | Name.              | Acting or permanent. | Tenure of office. |               | Name.                        | Acting or permanent. | Tenure of office. |              |
|                   |                      | From              | To           |                    |                      | From              | To            |                              |                      | From              | To           |
| T. Sevestre       | Permanent.           | 1 Jan. 1830       | 1 Jan. 1833  | W. Mortimer        | Permanent.           | Unknown.          | 1 July 1841   | W. Shaw                      | Permanent.           | 1 April 1851      | 1 Jan. 1852  |
| H. A. Atkinson    | Acting               | 1 July 1830       | 1 April 1831 | G. Harding         | Do.                  | 1 July 1841       | 1 April 1851  | A. Blacklock                 | Do.                  | 1 Jan. 1852       | 24 Aug. 1855 |
|                   |                      |                   |              | W. Evans, M.D.     | Do.                  | 1 April 1851      | 24 Feb. 1852  | J. B. Thomas                 | Acting               | 20 June 1857      | 13 July 1857 |
|                   |                      |                   |              | W. Gilchrist, M.D. | Do.                  | 24 Feb. 1852      | 24 May 1852   |                              | Permanent.           | 14 July 1857      | 25 Oct. 1870 |
|                   |                      |                   |              | T. A. Arthur, M.D. | Do.                  | 20 Aug. 1852      | 13 Jan. 1854  |                              |                      |                   |              |
|                   |                      |                   |              | W. Evans, M.D.     | Do.                  | 13 Jan. 1854      | 14 April 1859 |                              |                      |                   |              |
|                   |                      |                   |              | T. L. Paul, M.D.   | Do.                  | 14 April 1859     | 2 May 1860    |                              |                      |                   |              |

## New Organization.

| Senior Medical Officer.        |                            |                  |               | Senior Surgeon.         |                      |                  |               | Second Surgeon.         |                            |                  |               | Resident Medical Officer. |                            |                  |               | First Physician.          |                            |                  |               | Assistant Physician.    |                            |                  |              | Additional Medical Officer.     |                            |                  |               |
|--------------------------------|----------------------------|------------------|---------------|-------------------------|----------------------|------------------|---------------|-------------------------|----------------------------|------------------|---------------|---------------------------|----------------------------|------------------|---------------|---------------------------|----------------------------|------------------|---------------|-------------------------|----------------------------|------------------|--------------|---------------------------------|----------------------------|------------------|---------------|
| Name.                          | Acting or permanent.       | Tenure of office |               | Name.                   | Acting or permanent. | Tenure of office |               | Name.                   | Acting or permanent.       | Tenure of office |               | Name.                     | Acting or permanent.       | Tenure of office |               | Name.                     | Acting or permanent.       | Tenure of office |               | Name.                   | Acting or permanent.       | Tenure of office |              | Name.                           | Acting or permanent.       | Tenure of office |               |
|                                |                            | From             | To            |                         |                      | From             | To            |                         |                            | From             | To            |                           |                            | From             | To            |                           |                            | From             | To            |                         |                            | From             | To           |                                 |                            | From             | To            |
| W. N. Chipperfield.            | Perma-<br>nent.<br>Acting. | 24 Aug. 1865     | 21 Aug. 1872  | R. W. Cockerill         | Acting.              | 3 May 1869       | 5 May 1874    | J. Maitland, M.D.       | Perma-<br>nent.<br>Acting. | 23 Feb. 1882     | 27 Jan. 1891  | E. F. Drake-<br>Brookman. | Acting.                    | 6 July 1870      | 25 Oct. 1870  | W. B. Browning            | Perma-<br>nent.<br>Acting. | 4 May 1866       | 31 Dec. 1900  | A. M. Bramfoot,<br>M.D. | Perma-<br>nent.<br>Acting. | 12 July 1878     | 30 June 1891 | G. C. Hall                      | Perma-<br>nent.<br>Acting. | 19 July 1893     | 11 Mar. 1895  |
| G. Smith, M.D.                 | Perma-<br>nent.<br>Acting. | 22 June 1863     | 20 Aug. 1872  |                         | Perma-<br>nent.      | 6 May 1874       | 24 Feb. 1885  | C. M. Thompson,<br>M.D. | Acting.                    | 19 April 1885    | 9 July 1885   | H. A. F. Nailer,<br>M.D.  | Perma-<br>nent.<br>Acting. | 26 Oct. 1870     | 28 Feb. 1875  | H. A. F. Nailer,<br>M.D.  | Acting.                    | 9 June 1896      | 29 Aug. 1896  | T. K. Rodgers           | Acting.                    | 7 April 1878     | 27 June 1879 | D. Simpson, M.D.                | Acting.                    | 29 Oct. 1893     | 18 Mar. 1894  |
| M. G. Purnell,<br>M.D., C.I.E. | Do.                        | 21 Aug. 1872     | 24 Oct. 1874  |                         | Acting.              | 1 July 1875      | 31 Aug. 1875  | W. R. Browne,<br>M.D.   | Do.                        | 20 Mar. 1887     | 8 Aug. 1887   | P. N. Mookerjee           | Acting.                    | 7 July 1872      | 28 Aug. 1872  | D. F. Dymott, M.D.        | Do.                        | 29 Aug. 1896     | 10 Nov. 1896  | H. Armstrong            | Do.                        | 27 June 1870     | 18 July 1879 | C. L. Williams                  | Do.                        | 19 Mar. 1894     | 11 April 1898 |
|                                | Perma-<br>nent.<br>Acting. | 2 Sep. 1874      | 30 Sep. 1874  | O. Sibthorpe            | Do.                  | 6 May 1876       | 24 May 1876   | M. H. Smith             | Do.                        | 27 Mar. 1887     | 11 Aug. 1887  | W. E. Wright              | Do.                        | 2 July 1873      | 27 Dec. 1873  | J. Smyth, M.D.            | Do.                        | 10 Nov. 1896     | 3 April 1897  |                         | Do.                        | 17 July 1879     | 30 June 1881 | G. G. Giffard                   | Do.                        | 12 April 1894    | 4 June 1896   |
| B. W. Cockerill                | Do.                        | 24 Oct. 1874     | 28 Feb. 1875  |                         | Do.                  | 3 Aug. 1876      | 30 Sep. 1876  | A. P. Adams             | Do.                        | 12 Aug. 1887     | 8 Sep. 1887   |                           | Do.                        | 6 Aug. 1874      | 21 Sep. 1874  | D. Simpson, M.D.          | Do.                        | 3 April 1897     | 16 April 1897 | C. J. McNally,<br>M.D.  | Perma-<br>nent.            | 1 July 1881      | 4 July 1884  | R. Robertson                    | Perma-<br>nent.<br>Acting. | 12 Mar. 1895     | ...           |
| J. E. Dickenson                | Do.                        | 1 Mar. 1875      | 5 April 1880  | J. L. Ratton, M.D.      | Do.                  | 7 April 1877     | 10 April 1877 | F. Clarence Smith       | Do.                        | 9 Sep. 1887      | 10 Dec. 1888  | D. R. Thompson,<br>M.D.   | Do.                        | 13 Nov. 1874     | 28 Feb. 1875  | G. G. Giffard             | Do.                        | 16 April 1897    | 5 June 1898   | W. G. King              | Acting.                    | 14 April 1897    | 12 Nov. 1893 | P. C. Gabbett                   | Do.                        | 17 Mar. 1896     | 3 Oct. 1896   |
| Henry King, M.D.               | Perma-<br>nent.            | 14 April 1876    | 24 May 1876   | C. Sibthorpe            | Do.                  | 11 April 1877    | 18 June 1878  | W. R. Browne,<br>M.D.   | Do.                        | 22 Mar. 1889     | 17 April 1889 |                           | Do.                        | 1 Mar. 1875      | 10 May 1875   | Dr. A. C. Rendle,<br>M.D. | Do.                        | 5 June 1898      | 5 July 1898   |                         | Do.                        | 14 April 1897    | 12 Nov. 1893 | J. L. Macrae                    | Do.                        | 4 Oct. 1896      | 27 Oct. 1896  |
| James Keess,<br>M.D.           | Acting.                    | 25 May 1876      | 17 April 1877 | W. R. Browne,<br>M.D.   | Do.                  | 6 July 1880      | 5 Aug. 1880   | W. E. Browning          | Do.                        | 18 April 1889    | 30 Aug. 1890  | C. Sibthorpe              | Do.                        | 11 May 1875      | 15 Aug. 1883  | G. G. Giffard             | Do.                        | 6 July 1893      | 13 Mar. 1898  | D. F. Dymott,<br>M.D.   | Perma-<br>nent.            | 5 July 1884      | 27 Mar. 1885 | G. G. Giffard                   | Do.                        | 16 Sep. 1897     | 13 Oct. 1897  |
|                                | Perma-<br>nent.            | 6 April 1880     | 4 April 1882  |                         | Do.                  | 1 July 1881      | 30 Sep. 1881  | F. J. Crawford,<br>M.D. | Do.                        | 1 Sep. 1890      | 27 Jan. 1891  | J. Butler                 | Acting.                    | 1 July 1875      | 30 Aug. 1875  | C. Donovan, M.D.          | Do.                        | 14 Mar. 1898     | 16 April 1899 |                         | Do.                        | 28 Mar. 1885     | 25 Jan. 1888 | F. C. Pereira                   | Do.                        | 18 Oct. 1897     | 31 Jan. 1898  |
| A. Porter, M.D.                | Do.                        | 5 April 1882     | 15 Aug. 1883  | J. L. Ratton, M.D.      | Do.                  | 9 April 1884     | 5 Oct. 1884   | F. C. Reeves            | Acting.                    | 23 Jan. 1891     | 14 Sep. 1900  | J. A. Laing, M.D.         | Do.                        | 3 July 1876      | 30 Sep. 1876  | R. Robertson              | Do.                        | 17 April 1899    | 14 June 1900  | H. Allison, M.D.        | Do.                        | 26 Mar. 1885     | 25 Jan. 1888 | Dr. H. H. G.                    | Do.                        | 1 Feb. 1898      | 20 Feb. 1898  |
| O. Sibthorpe                   | Do.                        | 16 Aug. 1883     | 4 Jan. 1887   | C. Sibthorpe            | Perma-<br>nent.      | 25 Feb. 1885     | 25 Jan. 1888  | D. Simpson, M.D.        | Do.                        | 27 June 1891     | 28 July 1891  | A. M. Bramfoot,<br>M.D.   | Do.                        | 28 April 1877    | 11 July 1879  | A. N. Fleming,<br>M.D.    | Do.                        | 15 June 1900     | 9 Aug. 1903   | F. C. Reeves            | Acting.                    | 29 Oct. 1885     | 10 Dec. 1885 | Krapp                           | Do.                        | 21 Feb. 1898     | 30 Nov. 1898  |
| H. Allison, M.D.               | Acting.                    | 5 Jan. 1887      | 25 July 1890  | J. Maitland, M.D.       | Acting.              | 19 July 1886     | 31 Aug. 1886  | D. Simpson, M.D.        | Do.                        | 20 July 1891     | 24 Sep. 1891  | J. J. Moran, M.D.         | Do.                        | 2 Dec. 1878      | 14 Dec. 1878  | C. Donovan, M.D.          | Do.                        | 10 Aug. 1900     | 9 Sep. 1900   | J. Smyth, M.D.          | Do.                        | 11 Dec. 1885     | 23 Mar. 1886 | Dr. V. O. Taylor                | Do.                        | 3 May 1899       | 13 Dec. 1899  |
| J. H. Ritchie, M.D.            | Do.                        | 12 Aug. 1887     | 30 Sep. 1887  | W. R. Browne, M.D.      | Do.                  | 1 Sep. 1886      | 30 Sep. 1886  | R. Robertson            | Do.                        | 2 May 1892       | 2 July 1892   | G. L. Walker, M.D.        | Do.                        | 15 Dec. 1873     | 27 July 1879  | R. Robertson              | Do.                        | 10 Sep. 1900     | 31 Dec. 1900  |                         | Do.                        | 13 Aug. 1886     | 31 Aug. 1887 | Dr. A. C. Rendle,<br>M.D.       | Do.                        | 1 Dec. 1898      | 2 May 1899    |
| C. Sibthorpe                   | Do.                        | 9 Sep. 1888      | 30 Sep. 1888  |                         | Do.                  | 1 Oct. 1886      | 16 Nov. 1886  | D. Simpson, M.D.        | Do.                        | 3 July 1892      | 22 Jan. 1893  | A. J. Sturmer             | Do.                        | 4 Sep. 1879      | 5 Dec. 1879   |                           | Do.                        | 10 Sep. 1900     | 31 Dec. 1900  | T. H. Pope, M.D.        | Perma-<br>nent.            | 26 Jan. 1883     | 5 Dec. 1892  | C. B. Harrison                  | Do.                        | 3 May 1899       | 13 Dec. 1899  |
| J. H. Ritchie, M.D.            | Do.                        | 3 April 1889     | 9 Dec. 1889   | C. Sibthorpe            | Do.                  | 17 Nov. 1886     | 25 Jan. 1888  | D. Simpson, M.D.        | Do.                        | 23 Jan. 1893     | 31 Mar. 1893  | W. R. Browne,<br>M.D.     | Do.                        | 18 Nov. 1880     | 5 April 1882  |                           | Do.                        | 1 Jan. 1901      | 1 Aug. 1901   | J. Smyth, M.D.          | Acting.                    | 2 Sep. 1887      | 23 Dec. 1887 | K. Mitter                       | Perma-<br>nent.            | 14 Dec. 1899     | 8 Mar. 1900   |
| J. H. Ritchie, M.D.            | Perma-<br>nent.            | 10 Dec. 1889     | 15 April 1890 | H. Allison, M.D.        | Perma-<br>nent.      | 26 Jan. 1888     | 8 Dec. 1890   | C. L. Williams          | Do.                        | 1 April 1893     | 4 Oct. 1893   | W. E. Johnson,<br>M.D.    | Do.                        | 6 April 1882     | 31 Mar. 1883  |                           | Do.                        |                  |               | H. K. Fuller, M.D.      | Do.                        | 24 Dec. 1887     | 25 Aug. 1888 | A. E. Grant, M.D.               | Acting.                    | 9 Mar. 1900      | 17 Mar. 1900  |
| W. Price, M.D.                 | Acting.                    | 26 July 1890     | 18 Nov. 1891  | W. R. Browne,<br>M.D.   | Do.                  | 29 July 1888     | 30 Sep. 1888  | R. Robertson            | Do.                        | 25 Mar. 1895     | 6 Nov. 1895   | J. Smyth, M.D.            | Do.                        | 1 April 1883     | 13 April 1883 | F. Clarence Smith         | Do.                        | 29 Aug. 1888     | 10 Sep. 1888  |                         | Do.                        | 29 Oct. 1885     | 10 Dec. 1885 | W. J. Niblock,<br>M.D.          | Do.                        | 18 Mar. 1900     | 30 Mar. 1900  |
|                                | Perma-<br>nent.            | 29 Sep. 1891     | 6 April 1896  |                         | Do.                  | 1 Oct. 1888      | 30 June 1889  | P. C. Gabbett           | Do.                        | 7 Nov. 1895      | 27 Oct. 1896  | G. T. Thomas              | Do.                        | 14 April 1883    | 7 Nov. 1883   | D. B. Brownlie            | Do.                        | 11 Sep. 1883     | 26 Dec. 1883  |                         | Do.                        | 23 Aug. 1888     | 10 Sep. 1888 | A. N. Fleming                   | Do.                        | 31 Mar. 1900     | 20 May 1900   |
| W. R. Browne,<br>M.D.          | Do.                        | 1 April 1893     | 30 June 1893  | H. Allison, M.D.        | Do.                  | 1 July 1889      | 31 Aug. 1889  | W. J. Niblock,<br>M.D.  | Do.                        | 30 April 1898    | 12 Mar. 1899  | W. R. Browne,<br>M.D.     | Perma-<br>nent.            | 8 Nov. 1893      | 28 Oct. 1894  | J. Smyth, M.D.            | Do.                        | 14 June 1890     | 31 Aug. 1900  |                         | Do.                        | 14 Sep. 1890     | 7 Mar. 1892  | C. B. Harrison                  | Do.                        | 21 May 1900      | 16 Aug. 1900  |
| J. Maitland, M.D.              | Do.                        | 6 Oct. 1893      | 5 July 1894   | W. R. Browne,<br>M.D.   | Do.                  | 1 Sep. 1889      | 31 Jan. 1890  | W. J. Niblock, M.D.     | Do.                        | 13 Mar. 1899     | 17 Mar. 1900  | J. Smyth, M.D.            | Acting.                    | 9 April 1884     | 5 Oct. 1884   |                           | Do.                        | 1 Sep. 1890      | 7 Mar. 1892   | H. St. J. Fraser        | Do.                        | 17 Aug. 1900     | 23 Aug. 1900 | H. St. J. Fraser                | Do.                        | 17 Aug. 1900     | 23 Aug. 1900  |
| H. Allison, M.D.               | Perma-<br>nent.            | 15 Aug. 1895     | 14 Sep. 1895  | W. Price, M.D.          | Do.                  | 1 Feb. 1890      | 16 April 1890 | P. C. Gabbett           | Do.                        | 30 Mar. 1900     | 14 Sep. 1900  | G. T. Thomas              | Perma-<br>nent.            | 29 Oct. 1884     | 27 Mar. 1885  |                           | Do.                        | 6 Mar. 1892      | 5 Dec. 1892   |                         | Do.                        | 24 Aug. 1900     | 5 Feb. 1901  | C. B. Harrison                  | Do.                        | 6 Feb. 1901      | 3 April 1901  |
| W. R. Browne, M.D.             | Acting.                    | 7 April 1896     | 1 Aug. 1901   | W. Price, M.D.          | Do.                  | 15 May 1890      | 28 Sep. 1890  |                         | Do.                        | 15 Sep. 1900     | 1 Aug. 1901   | H. A. F. Nailer,<br>M.D.  | Acting.                    | 27 Oct. 1885     | 7 May 1886    |                           | Do.                        | 6 Dec. 1892      | 13 Sep. 1900  |                         | Do.                        | 4 April 1901     | 1 Aug. 1901  | Dr. W. H. Murray,<br>M.D., C.M. | Do.                        | 4 April 1901     | 1 Aug. 1901   |
| H. Allison, M.D.               | Do.                        | 26 May 1898      | 2 Aug. 1897   | W. R. Browne,<br>M.D.   | Do.                  | 20 Sep. 1890     | 8 Dec. 1890   | W. J. Niblock, M.D.     | Perma-<br>nent.            |                  |               |                           | Do.                        | 28 Mar. 1885     | 30 June 1886  |                           | Do.                        | 1 April 1893     | 30 June 1893  |                         | Do.                        | 12 June 1894     | 3 July 1894  |                                 | Do.                        |                  |               |
| J. Maitland, M.D.              | Do.                        | 5 April 1900     | 7 Jan. 1901   |                         | Perma-<br>nent.      | 9 Dec. 1890      | 6 April 1896  |                         | Do.                        |                  |               |                           | Do.                        | 27 Oct. 1885     | 7 May 1886    |                           | Do.                        | 12 June 1894     | 3 July 1894   |                         | Do.                        | 4 July 1894      | 14 Nov. 1895 |                                 | Do.                        |                  |               |
|                                |                            |                  |               | J. Maitland, M.D.       | Acting.              | 7 April 1893     | 5 July 1894   |                         |                            |                  |               |                           | Do.                        | 24 Dec. 1887     | 30 June 1889  |                           | Do.                        | 4 July 1894      | 14 Nov. 1895  |                         | Do.                        | 23 June 1893     | 5 July 1893  |                                 | Do.                        |                  |               |
|                                |                            |                  |               | J. Smyth, M.D.          | Do.                  | 15 Aug. 1895     | 14 Sep. 1895  |                         |                            |                  |               |                           | Do.                        | 1 July 1883      | 5 June 1886   |                           | Do.                        | 7 April 1899     | 24 Sep. 1899  |                         | Do.                        | 7 April 1898     | 6 July 1899  |                                 | Do.                        |                  |               |
|                                |                            |                  |               | J. Maitland, M.D.       | Do.                  | 15 Sep. 1895     | 6 April 1896  |                         |                            |                  |               |                           | Do.                        | 7 April 1889     | 24 Sep. 1889  |                           | Do.                        | 10 April 1891    | 2 Sep. 1891   |                         | Do.                        | 12 June 1890     | 12 July 1900 |                                 | Do.                        |                  |               |
|                                |                            |                  |               | J. Maitland, M.D.       | Perma-<br>nent.      | April 1896       | 1 Aug. 1901   |                         |                            |                  |               |                           | Do.                        | 31 July 1892     | 11 Aug. 1892  |                           | Do.                        | 21 July 1892     | 11 Aug. 1892  |                         | Do.                        | 14 Sep. 1900     | 1 Aug. 1901  |                                 | Do.                        |                  |               |
|                                |                            |                  |               | J. Smyth, M.D.          | Acting.              | 4 April 1896     | 3 July 1896   |                         |                            |                  |               |                           | Do.                        | 12 Aug. 1892     | 21 Sep. 1892  |                           | Do.                        | 7 May 1893       | 1 June 1893   |                         | Do.                        | 21 Jan. 1901     | 2 April 1901 |                                 | Do.                        |                  |               |
|                                |                            |                  |               | H. Allison, M.D.        | Do.                  | 30 Mar. 1899     | 8 July 1899   |                         |                            |                  |               |                           | Do.                        | 2 June 1893      | 2 Sep. 1893   |                           | Do.                        | 2 June 1893      | 2 Sep. 1893   |                         | Do.                        | 8 April 1901     | 11 May 1901  |                                 | Do.                        |                  |               |
|                                |                            |                  |               | F. J. Crawford,<br>M.D. | Do.                  | 30 Jan. 1900     | 16 Feb. 1900  |                         |                            |                  |               |                           | Do.                        | 8 Sep. 1893      | 5 Mar. 1895   |                           | Do.                        | 5 June 1895      | 6 Nov. 1899   |                         | Do.                        | 12 May 1901      | 11 Aug. 1901 |                                 | Do.                        |                  |               |
|                                |                            |                  |               | H. Allison, M.D.        | Do.                  | 31 Mar. 1900     | 11 May 1900   |                         |                            |                  |               |                           | Do.                        | 12 Aug. 1896     | 4 Oct. 1896   |                           | Do.                        | 6 July 1896      | 11 Aug. 1896  |                         | Do.                        |                  |              |                                 | Do.                        |                  |               |
|                                |                            |                  |               | F. J. Crawford,<br>M.D. | Do.                  | 1 May 1900       | 25 June 1900  |                         |                            |                  |               |                           | Do.                        | 17 April 1898    | 1 Dec. 1898   |                           | Do.                        | 2 Dec. 1898      | 6 Nov. 1899   |                         | Do.                        |                  |              |                                 | Do.                        |                  |               |
|                                |                            |                  |               | G. G. Giffard           | Do.                  | 28 June 1900     | 14 Sep. 1900  |                         |                            |                  |               |                           | Do.                        | 2 Dec. 1898      | 6 Nov. 1899   |                           | Do.                        | 7 Nov. 1899      | 1 Aug. 1901   |                         | Do.                        |                  |              |                                 | Do.                        |                  |               |
|                                |                            |                  |               |                         | Do.                  | 15 Sep. 1900     | 24 Dec. 1900  |                         |                            |                  |               |                           | Do.                        | 7 Nov. 1899      | 1 Aug. 1901   |                           | Do.                        | 6 April 1900     | ...           |                         | Do.                        |                  |              |                                 | Do.                        |                  |               |
|                                |                            |                  |               |                         |                      |                  |               |                         |                            |                  |               |                           | Do.                        | 6 April 1900     | ...           |                           | Do.                        | 7 April 1900     | 3 July 1900   |                         | Do.                        |                  |              |                                 | Do.                        |                  |               |
|                                |                            |                  |               |                         |                      |                  |               |                         |                            |                  |               |                           | Do.                        | 1 Jan. 1901      | 5 Feb. 1901   |                           | Do.                        | 1 Jan. 1901      | 5 Feb. 1901   |                         | Do.                        |                  |              |                                 | Do.                        |                  |               |
|                                |                            |                  |               |                         |                      |                  |               |                         |                            |                  |               |                           | Do.                        | 8 Feb. 1901      | 3 April 1901  |                           | Do.                        | 8 Feb. 1901      | 3 April 1901  |                         | Do.                        |                  |              | </                              |                            |                  |               |

## APPEND

Nominal Register of Medical Officers of the Government

(G.O. No. 371, Educational, dated 2nd July 1901; G.O. No. 826, Public, dated 13th August 1901)

| Senior Medical Officer.                            |                      |                  |                 | First Physician.                                        |                                 |                  |                 | Second Physician.                                                                    |                                 |                  |               | Third Physician.                                                  |                      |                  |               | Fourth Physician.                                    |                      |
|----------------------------------------------------|----------------------|------------------|-----------------|---------------------------------------------------------|---------------------------------|------------------|-----------------|--------------------------------------------------------------------------------------|---------------------------------|------------------|---------------|-------------------------------------------------------------------|----------------------|------------------|---------------|------------------------------------------------------|----------------------|
| Name.                                              | Acting or permanent. | Tenure of office |                 | Name.                                                   | Acting or permanent.            | Tenure of office |                 | Name.                                                                                | Acting or permanent.            | Tenure of office |               | Name.                                                             | Acting or permanent. | Tenure of office |               | Name.                                                | Acting or permanent. |
|                                                    |                      | From             | To              |                                                         |                                 | From             | To              |                                                                                      |                                 | From             | To            |                                                                   |                      | From             | To            |                                                      |                      |
| W. R. Brown, M.D., Lieut.-Col., I.M.S.             | Permanent.           | 2 Aug. 1901      | 18 May 1903     | R. Robertson, M.D., Major, I.M.S.                       | Permanent.                      | 2 Aug. 1901      | 29 June 1913    | F. J. Crawford, M.D., Major, I.M.S.                                                  | Permanent.                      | 2 Aug. 1901      | 19 April 1905 | R. K. Mitter, M.D., Captain, I.M.S.                               | Permanent.           | 2 Aug. 1901      | 2 Mar. 1902   | G. G. Giffard, M.D., Major, I.M.S.                   | Permanent.           |
| F. J. Crawford, M.D., Major, I.M.S.                | Acting.              | 19 May 1902      | 29 June 1902    | F. J. Crawford, M.D., Major, I.M.S.                     | Acting.                         | 9 Jan. 1903      | 27 Feb. 1903    | F. D. S. Payrer, Captain, I.M.S.                                                     | Acting.                         | 2 Aug. 1901      | 25 Feb. 1902  | W. H. Murray, M.D., Plague Doctor, I.M.S.                         | Acting.              | 2 Aug. 1901      | 18 Nov. 1901  | P. C. Gabbett, Captain, I.M.S.                       | Acting.              |
| J. Maitland, M.D., I.M.S.                          | Do.                  | 7 Nov. 1902      | 18 May 1903     | A. Miller, Captain, I.M.S.                              | Do.                             | 28 Feb. 1903     | 9 April 1903    | C. Donovan, M.D., Captain, I.M.S. (Promoted to the rank of Major on 28th July 1903.) | Do.                             | 9 Jan. 1903      | 10 Mar. 1905  | H. St. J. Fraser, Captain, I.M.S.                                 | Do.                  | 19 Nov. 1901     | 2 Mar. 1902   | F. D. S. Payrer, Captain, I.M.S.                     | Do.                  |
| J. Maitland, M.D., Lieut.-Col., I.M.S.             | Permanent.           | 19 May 1903      | 31 Mar. 1906    | W. A. Lee, Lieut.-Col., I.M.S.                          | Do.                             | 8 May 1904       | 31 Oct. 1906    | C. Donovan, M.D., Major, I.M.S.                                                      | Permanent.                      | 11 April 1905    | 16 June 1914  | F. D. S. Payrer, Captain, I.M.S.                                  | Acting.              | 27 Mar. 1902     | 4 April 1902  | T. H. Symons, Captain, I.M.S.                        | Do.                  |
| R. Robertson, Major, I.M.S.                        | Acting.              | 20 May 1903      | 30 June 1903    | C. Donovan, M.D., Major, I.M.S.                         | Do.                             | 22 May 1910      | 16 Nov. 1910    | T. H. Foulkes, Major, I.M.S.                                                         | Acting.                         | 8 Dec. 1905      | 7 July 1907   | H. Kirkpatrick, Captain, I.M.S.                                   | Do.                  | 5 April 1902     | 8 Dec. 1902   | D. H. Tucker, Captain, I.M.S.                        | Do.                  |
| W. A. Lee, Lieut.-Col., I.M.S.                     | Do.                  | 18 May 1904      | 17 June 1904    | H. Kirkpatrick, Major, I.M.S.                           | Do.                             | 24 Mar. 1911     | 7 July 1911     | E. W. Browne, Captain, I.M.S.                                                        | Do.                             | 22 May 1910      | 16 Nov. 1910  | W. H. Tucker, Captain, I.M.S.                                     | Do.                  | 9 Dec. 1902      | 3 July 1903   | T. H. Symons, Captain, I.M.S.                        | Permanent.           |
| W. B. Browning, C.I.E., Lieut.-Col., I.M.S.        | Do.                  | 1 Mar. 1906      | 31 Mar. 1906    | W. J. Niblock, Major, I.M.S.                            | Do.                             | 28 June 1912     | (One day only.) | A. C. Ingram, Captain, I.M.S.                                                        | Do.                             | 13 Dec. 1910     | 27 Aug. 1911  | H. Kirkpatrick, Captain, I.M.S. (Promoted to the rank of Major.)  | Permanent.           | 14 Mar. 1903     | 7 April 1914  | F. F. Elwes, Captain, I.M.S.                         | Acting.              |
| W. B. Browning, C.I.E., Lieut.-Col., I.M.S.        | Permanent.           | 1 April 1906     | 16 May 1910     | W. Molesworth, Lieut.-Col., I.M.S.                      | Do.                             | 28 June 1912     | 16 Dec. 1912    | T. S. Ross, Major, I.M.S.                                                            | Do.                             | 28 Aug. 1911     | 30 Nov. 1911  | F. F. Elwes, Captain, I.M.S.                                      | Acting.              | 4 July 1903      | 12 July 1903  | T. W. Harley, Lieut., I.M.S.                         | Do.                  |
| F. J. Crawford, M.D., Major, I.M.S.                | Acting.              | 11 May 1906      | 22 Dec. 1906    | F. F. Elwes, Major, I.M.S.                              | Do.                             | 18 Dec. 1912     | 5 June 1913     | W. C. Gray, Captain, I.M.S.                                                          | Do.                             | 1 Dec. 1911      | 29 Jan. 1912  | T. H. Symons, Captain, I.M.S.                                     | Do.                  | 13 July 1903     | 30 Aug. 1903  | W. C. Long, Captain, I.M.S.                          | Do.                  |
| F. J. Crawford, M.D., Lieut.-Col., I.M.S.          | Do.                  | 7 May 1908       | 5 Nov. 1909     | H. Kirkpatrick, Major, I.M.S.                           | Do.                             | 6 June 1913      | 3 July 1913     | F. F. Elwes, Major, I.M.S.                                                           | Do.                             | 29 Jan. 1912     | 14 Dec. 1912  | W. H. Tucker, Captain, I.M.S.                                     | Do.                  | 31 Aug. 1903     | 30 Oct. 1903  | F. F. Elwes, Captain, I.M.S.                         | Do.                  |
| R. Robertson, Lieut.-Col., I.M.S.                  | Do.                  | 28 Sep. 1909     | 22 Nov. 1909    | F. F. Elwes, Major, I.M.S.                              | Made permanent on 30 June 1913. |                  |                 | C. G. Webster, Major, I.M.S.                                                         | Do.                             | 15 Dec. 1912     | 28 July 1913  | D. C. Kemp, Captain, I.M.S.                                       | Do.                  | 21 Feb. 1904     | 1 Mar. 1904   | W. C. Long, Captain, I.M.S.                          | Do.                  |
| C. M. Thompson, M.D., Lieut.-Col., I.M.S.          | Do.                  | 23 Nov. 1909     | 16 May 1910     | F. F. Elwes, Major, I.M.S.                              | Permanent.                      | 30 June 1913     | ...             | J. W. Illius, Major, I.M.S.                                                          | Do.                             | 29 July 1913     | 29 June 1914  | F. F. Elwes, Captain, I.M.S.                                      | Do.                  | 2 Mar. 1904      | 19 Oct. 1904  | W. R. J. Scroggie, Captain, I.M.S.                   | Do.                  |
| C. M. Thompson, M.D., Lieut.-Col., I.M.S.          | Permanent.           | 17 May 1910      | 31 Mar. 1911    | J. M. Skinner, Captain, I.M.S.                          | Acting.                         | 13 June 1914     | 16 June 1914    | E. C. C. Maunsell, Major, I.M.S.                                                     | Do.                             | 30 June 1914     | 12 Aug. 1914  | D. G. Rai, Lieut., I.M.S.                                         | Do.                  | 20 Oct. 1904     | 25 Oct. 1904  | D. G. Rai, Captain, I.M.S.                           | Do.                  |
| W. J. Niblock, Major, I.M.S.                       | Acting.              | 1 April 1911     | 4 April 1911    | W. Molesworth, C.I.E., Lieut.-Col., I.M.S.              | Do.                             | 17 June 1914     | 14 Sep. 1914    | J. W. Illius, Major, I.M.S.                                                          | Do.                             | 13 Aug. 1914     | 7 Sep. 1914   | D. G. Rai, Lieut., I.M.S.                                         | Do.                  | 15 May 1905      | 12 Nov. 1905  | E. W. Browne, Captain, I.M.S.                        | Do.                  |
| E. Hasell Wright, Lieut.-Col., I.M.S.              | Sub. pro tem.        | 5 April 1911     | 7 July 1911     | W. Molesworth, C.I.E., Lieut.-Col., I.M.S.              | Do.                             | 24 May 1915      | 14 June 1915    | A. C. Ingram, Captain, I.M.S.                                                        | Do.                             | 8 Sep. 1914      | 14 Sep. 1914  | J. W. Illius, Captain, I.M.S.                                     | Do.                  | 16 Feb. 1906     | 29 Mar. 1906  | E. W. Browne, Captain, I.M.S.                        | Permanent.           |
| R. Robertson, Lieut.-Col., I.M.S.                  | Acting.              | 8 July 1911      | 31 Mar. 1912    | W. Molesworth, C.I.E., Lieut.-Col., I.M.S.              | Do.                             | 18 Sep. 1915     | 27 Sep. 1915    | W. H. Tucker, Captain, I.M.S.                                                        | Do.                             |                  |               | J. W. Illius, Captain, I.M.S.                                     | Do.                  | 11 May 1909      | 22 July 1909  | E. W. Browne, Captain, I.M.S.                        | Permanent.           |
| R. Robertson, Lieut.-Col., I.M.S.                  | Permanent.           | 1 April 1912     | 30 June 1913    | J. J. Robb, M.D., B.O.H., B.A.O., D.P.H., Major, I.M.S. | Do.                             | 1 June 1917      | 30 June 1917    | W. Molesworth, C.I.E., M.B., Lieut.-Col., I.M.S.                                     | Made permanent on 17 June 1914. |                  |               | T. H. Symons, Captain, I.M.S.                                     | Do.                  | 23 July 1906     | 22 Dec. 1906  | J. M. Skinner, Captain, I.M.S.                       | Acting.              |
| W. J. Niblock, Major, I.M.S.                       | Acting.              | 25 June 1912     | (One day only.) |                                                         |                                 |                  |                 | F. F. Elwes, C.I.E., M.D., M.R.C.S., L.R.C.P., Major, I.M.S.                         | Permanent.                      | 17 June 1914     | ...           | D. S. A. O'Keefe, Captain, I.M.S.                                 | Do.                  | 24 Mar. 1908     | 2 April 1908  | M. 4 Wards distributed among M-1, M-2 and M-3        | ...                  |
| W. Molesworth, M.B., Lieut.-Col., I.M.S.           | Do.                  | 26 June 1912     | 15 Dec. 1912    |                                                         |                                 |                  |                 | C. Donovan, M.D., Major, I.M.S.                                                      | Do.                             | 13 June 1915     | 4 July 1915   | J. W. Illius, Captain, I.M.S.                                     | Do.                  | 3 April 1908     | 15 Oct. 1908  | A. C. Ingram, Captain, I.M.S.                        | Acting.              |
| C. G. Webster, Major, I.M.S.                       | Do.                  | 15 Dec. 1912     | 28 July 1913    |                                                         |                                 |                  |                 | Dr. F. E. S. Milton, F.R.C.S., M.R.C.P., F. F. Elwes, C.I.E., Major, I.M.S.          | Do.                             | 13 May 1916      | 1 June 1916   | A. C. Ingram, Captain, I.M.S.                                     | Do.                  | 16 Oct. 1908     | 21 May 1909   | J. L. Macrae, Major, I.M.S.                          | Do.                  |
| H. Kirkpatrick, Major, I.M.S.                      | Do.                  | 29 July 1913     | 7 April 1914    |                                                         |                                 |                  |                 | F. F. Elwes, C.I.E., M.D., Major, I.M.S.                                             | Do.                             | 2 June 1916      | 1 July 1916   | E. W. Browne, Captain, I.M.S.                                     | Do.                  | 22 May 1909      | 3 July 1909   | A. C. Ingram, Captain, I.M.S.                        | Do.                  |
| W. J. Niblock, M.B., Major, I.M.S.                 | Do.                  | 8 April 1914     | 16 June 1914    |                                                         |                                 |                  |                 | T. S. Ross, L.R.C.P., L.R.C.S., Major, I.M.S.                                        | Do.                             | 2 July 1916      | 8 Jan. 1917   | E. A. Roberts, Captain, I.M.S.                                    | Do.                  | 4 July 1909      | 15 May 1910   | A. C. Ingram, Captain, I.M.S.                        | Do.                  |
| W. Molesworth, C.I.E., Lieut.-Col., I.M.S.         | Permanent.           | 17 June 1914     | ...             |                                                         |                                 |                  |                 | F. F. Elwes, C.I.E., M.D., Major, I.M.S.                                             | Do.                             | 9 Jan. 1917      | 30 April 1917 | A. C. Ingram, Captain, I.M.S.                                     | Do.                  | 16 May 1910      | 15 June 1910  | A. J. H. Russell, Captain, I.M.S.                    | Do.                  |
| W. J. Niblock, M.B., Lieut.-Col., I.M.S.           | Acting.              | 15 June 1915     | 4 July 1915     |                                                         |                                 |                  |                 | T. S. Ross, L.R.C.P., L.R.C.S., Major, I.M.S.                                        | Do.                             | 1 May 1917       | 31 May 1917   | T. W. Harley, Captain, I.M.S.                                     | Do.                  | 16 June 1910     | 15 Dec. 1910  | J. M. Skinner, Captain, I.M.S.                       | Do.                  |
| W. J. Niblock, M.B., Lieut.-Col., I.M.S.           | Do.                  | 13 May 1916      | 31 May 1916     |                                                         |                                 |                  |                 | F. F. Elwes, C.I.E., M.D., Major, I.M.S.                                             | Do.                             | 1 June 1917      | 3 June 1917   | A. C. Ingram, Captain, I.M.S.                                     | Do.                  | 20 June 1911     | 6 Nov. 1911   | A. C. Ingram, Captain, I.M.S.                        | Do.                  |
| W. J. Niblock, M.B., Lieut.-Col., I.M.S.           | Do.                  | 1 June 1916      | 17 Sep. 1916    |                                                         |                                 |                  |                 | C. H. L. Palk, M.D., F.R.C.S. (Ed.), Major, I.M.S.                                   | Do.                             | One day on       | 4 June 1917   | T. S. Ross, L.R.C.P., L.R.C.S., Major, I.M.S.                     | Do.                  | 3 June 1912      | 2 July 1912   | T. S. Ross, Major, I.M.S.                            | Sub. pro tem.        |
| C. H. L. Palk, M.B., F.R.C.S. (Ed.), Major, I.M.S. | Do.                  | 18 Sep. 1916     | 17 Oct. 1916    |                                                         |                                 |                  |                 | T. S. Ross, L.R.C.P., L.R.C.S., Major, I.M.S.                                        | Do.                             | 5 June 1917      | 21 June 1917  | A. J. H. Russell, Captain, I.M.S.                                 | Do.                  | 8 April 1914     | 30 June 1914  | C. A. F. Hingston, M.R.C.S., L.R.C.P., Major, I.M.S. | Acting.              |
| W. J. Niblock, M.B., Lieut.-Col., I.M.S.           | Do.                  | 18 Oct. 1916     | 8 Sep. 1917     |                                                         |                                 |                  |                 | M. R. Guruswami Mudaliyar, B.A., M.R.C.M., Civil Asst. Surgeon.                      | Do.                             | 22 June 1917     | ...           | W. Molesworth, C.I.E., M.B., Lieut.-Col., I.M.S.                  | Do.                  | 1 July 1914      | 9 Oct. 1914   | Rao Sahib M. C. Koman, L.M. & S.                     | Do.                  |
| C. H. L. Palk, M.B., F.R.C.S. (Ed.), Major, I.M.S. | Do.                  | 9 Sep. 1917      | 8 Oct. 1917     |                                                         |                                 |                  |                 |                                                                                      |                                 |                  |               | O. H. L. Palk, M.B., Major, I.M.S. (Retired).                     | Permanent.           | 10 Oct. 1914     | 17 Jan. 1915  |                                                      |                      |
| W. J. Niblock, M.B., Lieut.-Col., I.M.S.           | Do.                  | 9 Oct. 1917      | 19 Jan. 1917    |                                                         |                                 |                  |                 |                                                                                      |                                 |                  |               | A. C. Ingram, M.D., Major, I.M.S.                                 | Sub. pro tem.        | 18 Jan. 1915     | 23 April 1915 |                                                      |                      |
| W. J. Niblock, M.B., Lieut.-Col., I.M.S.           | Do.                  | 20 Jan. 1917     | ...             |                                                         |                                 |                  |                 |                                                                                      |                                 |                  |               | T. S. Ross, L.R.C.P., L.R.C.S., Major, I.M.S.                     | Acting.              | 8 Sep. 1914      | ...           |                                                      |                      |
|                                                    |                      |                  |                 |                                                         |                                 |                  |                 |                                                                                      |                                 |                  |               | Rao Sahib M. C. Koman, L.M. & S., Civil Asst. Surgeon.            | Acting.              | 6 Nov. 1915      | 30 April 1917 |                                                      |                      |
|                                                    |                      |                  |                 |                                                         |                                 |                  |                 |                                                                                      |                                 |                  |               | T. S. Ross, L.R.C.P., L.R.C.S., Major, I.M.S.                     | Acting.              | 1 May 1917       | 3 June 1917   |                                                      |                      |
|                                                    |                      |                  |                 |                                                         |                                 |                  |                 |                                                                                      |                                 |                  |               | M. R. Guruswami Mudaliyar, B.A., M.B., C.M., Civil Asst. Surgeon. | Do.                  | 5 June 1919      | 21 June 1917  |                                                      |                      |
|                                                    |                      |                  |                 |                                                         |                                 |                  |                 |                                                                                      |                                 |                  |               | T. S. Tirunavathi, B.A., M.B., C.M., Civil Surgeon.               | Do.                  | 22 June 1917     | 18 Sep. 1917  |                                                      |                      |
|                                                    |                      |                  |                 |                                                         |                                 |                  |                 |                                                                                      |                                 |                  |               |                                                                   | Do.                  | 19 Sep. 1917     | ...           |                                                      |                      |

\* Appointed to be Inspector-General of Prisons, Madras, Sub. pro tem.

† Revers

K G—cont.

at General Hospital, Madras, from 2nd August 1911.

G.O. No. 16, Public, dated 3rd January 1902; and G.O. No. 1177, Public, dated 20th November 1902).

| Tenure of office |               | Name.                                      | Acting or permanent. | Tenure of office |               | Name.                                 | Acting or permanent. | Tenure of office |               | Name.                                              | Acting or permanent. | Tenure of office |               | Name.                                                                  | Acting or permanent. | Tenure of office |               |
|------------------|---------------|--------------------------------------------|----------------------|------------------|---------------|---------------------------------------|----------------------|------------------|---------------|----------------------------------------------------|----------------------|------------------|---------------|------------------------------------------------------------------------|----------------------|------------------|---------------|
| From             | To            |                                            |                      | From             | To            |                                       |                      | From             | To            |                                                    |                      | From             | To            |                                                                        |                      | From             | To            |
| 2 Aug. 1901      | 18 May 1903   | J. Matland, M.D., Lieut.-Col., I.M.S.      | Permanent.           | 2 Aug. 1901      | 18 May 1903   | H. Allison, M.D., Lieut.-Col., I.M.S. | Permanent.           | 2 Aug. 1901      | 30 Oct. 1903  | W. J. Niblock, M.B., Captain, I.M.S.               | Permanent.           | 2 Aug. 1901      | 5 Nov. 1909   | H. St. J. Fraser, Captain, I.M.S.                                      | Permanent.           | 2 Aug. 1901      | 2 Mar. 1902   |
| 2 Aug. 1901      | 26 Feb. 1902  | T. H. Symons, Captain, I.M.S.              | Acting.              | 2 June 1902      | 30 June 1902  | H. Kirkpatrick, Captain, I.M.S.       | Acting.              | 2 Aug. 1901      | 4 April 1902  | T. H. Symons, Captain, I.M.S.                      | Acting.              | 2 May 1902       | 2 Nov. 1902   | C. R. Harrison, Captain, I.M.S.                                        | Do.                  | 3 Mar. 1902      | 10 Feb. 1903  |
| 7 Feb. 1902      | 7 Jan. 1903   | W. B. Browning, Lieut.-Col., I.M.S.        | Do.                  | 7 Nov. 1902      | 8 Jan. 1903   | C. Donovan, Captain, I.M.S.           | Do.                  | 5 April 1902     | 10 Aug. 1902  | R. Bryson, Captain, I.M.S.                         | Do.                  | 9 April 1903     | 23 Dec. 1903  | T. H. Symons, Captain, I.M.S.                                          | Acting.              | 19 Nov. 1901     | 1 May 1902    |
| 2 Feb. 1903      | 13 April 1903 | R. Robertson, Major, I.M.S.                | Do.                  | 9 Jan. 1903      | 8 April 1903  | H. Kirkpatrick, Captain, I.M.S.       | Do.                  | 19 Nov. 1902     | 30 Oct. 1903  | F. F. Elwes, Captain, I.M.S.                       | Do.                  | 1 Dec. 1906      | 13 June 1906  | R. Bryson, Captain, I.M.S.                                             | Do.                  | 2 May 1902       | 23 Sep. 1902  |
| 4 April 1903     | 3 July 1903   | W. J. Niblock, M.B., Captain, I.M.S.       | Do.                  | 9 April 1903     | 23 Dec. 1903  | D. Simpson, Major, I.M.S.             | Permanent.           | 31 Oct. 1903     | 11 April 1905 | W. C. Long, Captain, I.M.S.                        | Do.                  | 14 June 1906     | 13 July 1906  | A. Miller, Captain, I.M.S.                                             | Do.                  | 29 Sep. 1902     | 2 Nov. 1902   |
| 9 May 1903       | 5 Nov. 1909   | G. G. Giffard, Major, I.M.S.               | Permanent.           | 19 May 1903      | 18 May 1906   | W. J. Niblock, M.B., Captain, I.M.S.  | Acting.              | 3 May 1904       | 4 July 1904   | P. P. Elwes, Captain, I.M.S.                       | Do.                  | 14 July 1906     | 6 Mar. 1907   | T. H. Symons, Captain, I.M.S.                                          | Do.                  | 3 Nov. 1902      | 9 Mar. 1903   |
| 4 July 1903      | 12 July 1903  | W. B. Browning, Lieut.-Col., I.M.S.        | Acting.              | 12 June 1905     | 3 July 1905   | F. J. Crawford, Major, I.M.S.         | Permanent.           | 12 April 1905    | 5 Nov. 1905   | J. W. Illius, Captain, I.M.S.                      | Do.                  | 6 Mar. 1907      | 29 April 1907 | D. G. Kemp, Captain, I.M.S.                                            | Do.                  | 10 Mar. 1903     | 1 Mar. 1904   |
| May 1904         | 19 May 1904   | P. C. Gabbett, Major, I.M.S.               | Permanent.           | 19 May 1906      | 25 Aug. 1912  | W. A. Lee, Lieut.-Col., I.M.S.        | Acting.              | 15 April 1905    | 14 May 1905   | E. W. Browne, Captain, I.M.S.                      | Do.                  | 30 April 1907    | 1 Dec. 1907   | D. G. Kemp, Captain, I.M.S.                                            | Do.                  | 2 Mar. 1904      | 24 Jan. 1905  |
| May 1904         | 10 June 1904  | T. H. Symons, Major, I.M.S.                | Acting.              | 22 Jan. 1909     | 15 July 1909  | H. Kirkpatrick, Captain, I.M.S.       | Do.                  | 16 Feb. 1906     | 29 Mar. 1906  | R. D. Willocks, Captain, I.M.S.                    | Do.                  | 29 April 1908    | 30 April 1908 | J. W. Illius, Captain, I.M.S.                                          | Do.                  | 25 Jan. 1905     | 11 June 1906  |
| July 1906        | 11 May 1906   | W. J. Niblock, Major, I.M.S.               | Do.                  | 26 Aug. 1910     | 30 April 1911 | H. Kirkpatrick, Captain, I.M.S.       | Do.                  | 11 May 1906      | 22 Dec. 1906  | D. S. A. O'Keefe, Captain, I.M.S.                  | Do.                  | 1 May 1909       | 15 July 1909  | W. C. Long, Captain, I.M.S.                                            | Do.                  | 12 June 1905     | 23 July 1906  |
| 1 May 1906       | 11 June 1906  | A. Chalmers, Captain, I.M.S.               | Do.                  | 1 May 1911       | 31 May 1911   | T. H. Symons, Major, I.M.S.           | Do.                  | 3 May 1907       | 28 Feb. 1908  | T. H. Symons, Major, I.M.S.                        | Do.                  | 16 July 1909     | 15 Aug. 1909  | E. W. Browne, Captain, I.M.S.                                          | Do.                  | 23 July 1906     | 11 Nov. 1906  |
| 1 June 1906      | 11 Nov. 1906  | W. J. Niblock, Major, I.M.S.               | Do.                  | 1 June 1911      | 8 Sep. 1912   | T. H. Symons, Major, I.M.S.           | Do.                  | 7 May 1908       | 21 Jan. 1909  | D. S. A. O'Keefe, Captain, I.M.S.                  | Do.                  | 16 Aug. 1909     | 18 Jan. 1910  | B. B. R. Foster, Captain, I.M.S.                                       | Acting.              | 11 Feb. 1908     | 30 June 1908  |
| 1 May 1907       | 25 May 1907   | T. H. Symons, Major, I.M.S.                | Do.                  | 9 Sep. 1912      | 18 May 1913   | L. Hirsch, Captain, I.M.S.            | Do.                  | 22 Jan. 1909     | 2 May 1909    | T. W. Harley, Captain, I.M.S.                      | Do.                  | 6 Nov. 1909      | 25 Aug. 1912  | T. S. Ross, Captain, I.M.S.                                            | Permanent.           | 1 July 1908      | 5 Nov. 1909   |
| 1 May 1907       | 1 Dec. 1907   | W. J. Niblock, M.B., Major, I.M.S.         | Permanent.           | 26 Aug. 1913     | ...           | E. W. Browne, Captain, I.M.S.         | Do.                  | 3 May 1909       | 23 May 1909   | W. J. Niblock, M.B., Major, I.M.S.                 | Do.                  | 19 Jan. 1910     | 10 Mar. 1910  | W. C. Long, Captain, I.M.S.                                            | Do.                  | 6 May 1910       | 14 Mar. 1912  |
| Dec. 1907        | 28 Feb. 1908  | E. W. C. Bradfield, Captain, I.M.S.        | Acting.              | 19 May 1913      | 29 June 1913  | T. W. Harley, Captain, I.M.S.         | Do.                  | 24 May 1909      | 16 Jan. 1910  | L. Hirsch, Captain, I.M.S.                         | Do.                  | 11 Mar. 1910     | 13 Mar. 1910  | E. A. Roberts, Captain, I.M.S.                                         | Acting.              | 18 July 1910     | 17 Oct. 1910  |
| May 1908         | ...           | T. H. Symons, Major, I.M.S.                | Do.                  | 30 June 1913     | 9 Dec. 1913   | W. J. Niblock, Major, I.M.S.          | Permanent.           | 6 Nov. 1909      | 23 Aug. 1912  | D. H. Graves, Major, I.M.S.                        | Do.                  | 14 Mar. 1910     | 16 Apr. 1910  | J. M. Skinner, Captain, I.M.S.                                         | Do.                  | 15 Oct. 1910     | 4 Dec. 1910   |
| May 1910         | 16 Nov. 1910  | A. Chalmers, M.B., Major, I.M.S.           | Do.                  | 1 June 1916      | 30 June 1916  | W. J. Niblock, Major, I.M.S.          | Do.                  | 26 Aug. 1912     | 23 Aug. 1912  | M. J. Quirke, Captain, I.M.S.                      | Do.                  | 11 April 1910    | 20 June 1910  | A. C. Ingram, Captain, I.M.S.                                          | Do.                  | 5 Dec. 1910      | 16 Jan. 1911  |
| July 1911        | 27 Aug. 1911  | C. A. P. Hingston, M.B., Major, I.M.S.     | Do.                  | 14 May 1917      | 7 June 1917   | T. H. Symons, C.I.E., Major, I.M.S.   | Do.                  | 26 Aug. 1912     | ...           | W. J. Niblock, M.B., Major, I.M.S.                 | Do.                  | 21 June 1910     | 17 July 1910  | M. J. Quirke, Captain, I.M.S.                                          | Do.                  | 17 Jan. 1911     | 17 July 1911  |
| Aug. 1911        | 2 June 1912   | E. M. Illington, M.B., Lieut.-Col., I.M.S. | Do.                  | 8 June 1917      | 9 June 1917   | A. Chalmers, Captain, I.M.S.          | Acting.              | 26 Aug. 1912     | ...           | A. Chalmers, Captain, I.M.S.                       | Do.                  | 18 July 1910     | 19 Aug. 1910  | R. Bose, Captain, I.M.S.                                               | Do.                  | 18 July 1911     | 4 Sep. 1911   |
| June 1912        | 2 July 1912   | F.N.                                       | Do.                  | 10 June 1917     | 13 June 1917  | W. C. Gray, Captain, I.M.S.           | Do.                  | 26 Aug. 1912     | 15 Mar. 1913  | L. Hirsch, Captain, I.M.S.                         | Do.                  | 26 Aug. 1912     | 25 June 1912  | A. J. H. Russell, Captain, I.M.S.                                      | Do.                  | 15 Mar. 1912     | 16 Nov. 1914  |
| July 1912        | 29 June 1913  | F.N.                                       | Do.                  | ...              | ...           | ...                                   | Do.                  | 16 Mar. 1912     | 27 Mar. 1912  | J. L. Macrae, Lieut.-Col., I.M.S.                  | Do.                  | 26 June 1912     | 31 Oct. 1912  | A. P. G. Lorimer, Captain, I.M.S.                                      | Do.                  | 1 Oct. 1912      | 31 Oct. 1912  |
| June 1913        | 2 July 1913   | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 26 Mar. 1912     | 9 Sep. 1913   | T. W. Harley, Captain, I.M.S.                      | Do.                  | 26 Aug. 1912     | 26 April 1913 | A. J. H. Russell, Captain, I.M.S.                                      | Do.                  | 1 Nov. 1912      | 11 Aug. 1913  |
| July 1913        | 14 Sep. 1914  | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 26 Mar. 1912     | 9 Dec. 1913   | A. J. H. Russell, Captain, I.M.S.                  | Do.                  | 26 Aug. 1912     | 26 April 1913 | A. P. G. Lorimer, Captain, I.M.S.                                      | Do.                  | 12 Aug. 1913     | 11 Sep. 1913  |
| Sep. 1914        | 4 Nov. 1915   | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 10 Sep. 1913     | 9 Dec. 1913   | E. W. C. Bradfield, Captain, I.M.S.                | Do.                  | 1 Nov. 1912      | 18 Dec. 1913  | A. P. G. Lorimer, Captain, I.M.S.                                      | Do.                  | 12 Sep. 1913     | 14 July 1914  |
| Nov. 1915        | 10 Nov. 1916  | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 13 Nov. 1914     | 15 Nov. 1914  | W. C. Gray, Captain, I.M.S.                        | Do.                  | 19 Dec. 1913     | 19 Mar. 1914  | J. M. Skinner, Captain, I.M.S.                                         | Do.                  | 15 July 1914     | 17 July 1914  |
| Nov. 1916        | 31 Jan. 1917  | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 16 Nov. 1914     | 25 April 1915 | E. W. C. Bradfield, Captain, I.M.S.                | Do.                  | 20 Mar. 1914     | 8 April 1914  | A. S. Leslie, Captain, I.M.S.                                          | Do.                  | 18 July 1914     | 12 Aug. 1914  |
| Feb. 1917        | ...           | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 26 April 1915    | 30 June 1915  | W. C. Gray, Captain, I.M.S.                        | Do.                  | 9 April 1914     | 25 May 1914   | J. M. Skinner, M.B., Captain, I.M.S.                                   | Do.                  | 13 Aug. 1914     | 17 Aug. 1914  |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 1 July 1915      | 16 Jan. 1917  | A. Chalmers, Major, I.M.S.                         | Do.                  | 13 Nov. 1914     | 15 Nov. 1914  | J. M. Skinner, Captain, I.M.S.                                         | Do.                  | 18 Aug. 1914     | 20 Oct. 1914  |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 17 Jan. 1917     | 7 June 1917   | P. C. Gabbett, Lieut.-Col., I.M.S. (Rtd.)          | Do.                  | 16 Nov. 1914     | 22 Nov. 1914  | F. C. Rogers, Major, I.M.S.                                            | Permanent.           | 17 Nov. 1914     | 9 April 1916  |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 8 June 1917      | 9 June 1917   | J. M. Skinner, M.B., Captain, I.M.S.               | Do.                  | 23 Nov. 1914     | 20 Dec. 1914  | J. M. Skinner, Captain, I.M.S.                                         | Acting.              | 21 Oct. 1914     | 31 Dec. 1914  |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 10 June 1917     | 28 June 1917  | A. Chalmers, M.B., Major, I.M.S.                   | Do.                  | 21 Dec. 1914     | 7 Mar. 1915   | A. J. H. Russell, Captain, I.M.S.                                      | Do.                  | 1 Jan. 1915      | 28 April 1915 |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 29 June 1917     | 24 Jan. 1918  | T. M. K. Nedun-<br>gadi, M.B., Civil Asst. Surgeon | Do.                  | 8 Mar. 1914      | 31 May 1915   | J. M. Skinner, M.B., Captain, I.M.S.                                   | Do.                  | 29 April 1915    | 23 May 1915   |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  | 25 Jan. 1918     | ...           | E. C. O. Maunsell, M.B., Major, I.M.S.             | Permanent.           | 1 June 1915      | 4 July 1916   | A. J. H. Russell, Captain, I.M.S.                                      | Do.                  | 29 May 1915      | 18 Mar. 1917  |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  |                  |               | W. J. Niblock, M.B., Lieut.-Col., I.M.S.           | Acting.              | 5 July 1915      | 31 Oct. 1915  | A. P. G. Lorimer, M.B., Captain, I.M.S.                                | Permanent.           | 10 April 1916    | ...           |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  |                  |               | W. J. Fernandez, M.B., Civil Asst. Surgeon.        | Do.                  | 1 Nov. 1915      | 26 Nov. 1915  | T. S. Ross, L.R.C.S., L.R.C.P., Major, I.M.S.                          | Acting.              | 1 May 1916       | 31 May 1916   |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  |                  |               |                                                    | Do.                  | 27 Nov. 1915     | 6 Aug. 1917   | T. M. K. Nedun-<br>gadi, M.B., Civil Asst. Surgeon                     | Do.                  | 19 Mar. 1917     | 20 Mar. 1917  |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  |                  |               |                                                    | Do.                  | 27 April 1916    | ...           | J. J. Robb, M.B., B.Sc., D.P.M., Major, I.M.S.                         | Do.                  | 21 Mar. 1917     | 1 July 1917   |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  |                  |               |                                                    | Do.                  | 11 April 1917    | 10 May 1917   | A. J. H. Russell, M.B., M.D., Captain, I.M.S.                          | Do.                  | 9 July 1917      | 31 Oct. 1917  |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  |                  |               |                                                    | Do.                  | 7 Aug. 1917      | ...           | R. R. Williams, B.A., M.B., C.M., L.R.C.P., etc., Civil Asst. Surgeon. | Do.                  | 1 Nov. 1917      | 14 Nov. 1917  |
|                  |               | ...                                        | Do.                  | ...              | ...           | ...                                   | Do.                  |                  |               |                                                    | Do.                  |                  |               | T. M. K. Nedun-<br>gadi, M.B., Civil Asst. Surgeon.                    | Do.                  | 15 Nov. 1917     | ...           |

## APPENDIX F—cont.

Table showing the number of admissions, etc., from 1862—cont.

| Years. | In-patients.        |           |                     |           |        |                     |           |                     |           |        | Out-patients.       |           |                     |           | Total.              |           |                     |           |
|--------|---------------------|-----------|---------------------|-----------|--------|---------------------|-----------|---------------------|-----------|--------|---------------------|-----------|---------------------|-----------|---------------------|-----------|---------------------|-----------|
|        | Total treated.      |           |                     |           |        | Average daily sick. |           |                     |           |        | Total treated.      |           | Average daily sick. |           | Total treated.      |           | Average daily sick. |           |
|        | Europeans.          |           | Indians.            |           |        | Europeans.          |           | Indians.            |           |        | Europeans.          |           | Indians.            |           | Europeans.          |           | Indians.            |           |
|        | Medical.            | Surgical. | Medical.            | Surgical. | Total. | Medical.            | Surgical. | Medical.            | Surgical. | Total. | Medical.            | Surgical. | Medical.            | Surgical. | Medical.            | Surgical. | Medical.            | Surgical. |
|        | Average daily sick. |           | Average daily sick. |           |        | Average daily sick. |           | Average daily sick. |           |        | Average daily sick. |           | Average daily sick. |           | Average daily sick. |           | Average daily sick. |           |
| 1864   | 1,548               | 3,947     | 81.21               | 187.11    | 57     | 300                 | 300       | 300                 | 300       | 300    | 42,850              | 49.54     | 293.27              | 10,013    | 46,207              | 133.75    | 420.38              |           |
| 1865   | 1,630               | 4,233     | 109.18              | 280.81    | 77     | 300                 | 300       | 300                 | 300       | 300    | 42,809              | 61.83     | 294.23              | 12,276    | 46,542              | 171.01    | 555.04              |           |
| 1866   | 2,190               | 5,233     | 111.00              | 267.91    | 98     | 344                 | 344       | 344                 | 344       | 344    | 47,443              | 74.48     | 328.62              | 15,483    | 52,674              | 186.48    | 646.18              |           |
| 1867   | 2,059               | 5,823     | 111.56              | 286.78    | 120    | 413                 | 413       | 413                 | 413       | 413    | 47,426              | 79.98     | 346.48              | 16,327    | 57,176              | 191.52    | 638.26              |           |
| 1868   | 1,632               | 6,119     | 102.38              | 252.68    | 106    | 449                 | 449       | 449                 | 449       | 449    | 45,328              | 79.54     | 318.28              | 14,675    | 50,447              | 181.47    | 601.11              |           |
| 1869   | 1,527               | 4,677     | 126.08              | 266.08    | 139    | 412                 | 412       | 412                 | 412       | 412    | 42,390              | 75.87     | 313.95              | 13,276    | 47,067              | 172.45    | 580.03              |           |
| 1870   | 2,028               | 5,582     | 110.24              | 294.50    | 138    | 467                 | 467       | 467                 | 467       | 467    | 51,839              | 89.06     | 370.02              | 18,208    | 67,414              | 179.30    | 684.52              |           |
| 1871   | 1,886               | 5,032     | 100.74              | 278.93    | 131    | 523                 | 523       | 523                 | 523       | 523    | 56,532              | 67.18     | 385.13              | 12,361    | 61,504              | 167.92    | 664.06              |           |
| 1872   | 2,015               | 5,802     | 109.08              | 279.51    | 122    | 548                 | 548       | 548                 | 548       | 548    | 50,895              | 70.92     | 394.65              | 12,390    | 55,697              | 180.00    | 674.16              |           |
| 1873   | 1,843               | 5,234     | 119.49              | 283.01    | 138    | 506                 | 506       | 506                 | 506       | 506    | 50,219              | 79.86     | 381.51              | 11,566    | 55,463              | 191.85    | 684.52              |           |
| 1874   | 1,938               | 5,086     | 117.24              | 272.46    | 121    | 460                 | 460       | 460                 | 460       | 460    | 46,618              | 88.94     | 348.68              | 12,124    | 51,554              | 186.18    | 616.84              |           |
| 1875   | 1,979               | 5,287     | 108.83              | 281.30    | 145    | 477                 | 477       | 477                 | 477       | 477    | 46,036              | 67.14     | 355.64              | 10,669    | 50,323              | 166.07    | 634.94              |           |
| 1876   | 1,933               | 4,698     | 115.26              | 283.75    | 123    | 425                 | 425       | 425                 | 425       | 425    | 46,589              | 49.66     | 345.46              | 9,940     | 61,507              | 164.91    | 629.21              |           |
| 1877   | 1,747               | 4,842     | 103.17              | 284.03    | 125    | 393                 | 393       | 393                 | 393       | 393    | 46,202              | 46.53     | 359.86              | 8,788     | 50,854              | 149.70    | 643.39              |           |
| 1878   | 1,979               | 5,538     | 111.85              | 308.63    | 141    | 448                 | 448       | 448                 | 448       | 448    | 46,638              | 45.705    | 382.91              | 8,517     | 61,238              | 167.78    | 691.54              |           |
| 1879   | 1,946               | 5,629     | 115.08              | 306.81    | 132    | 514                 | 514       | 514                 | 514       | 514    | 46,097              | 47.08     | 411.16              | 8,043     | 61,627              | 163.09    | 717.27              |           |
| 1880   | 2,088               | 5,818     | 113.12              | 308.95    | 106    | 508                 | 508       | 508                 | 508       | 508    | 61,200              | 45.876    | 407.83              | 8,158     | 61,694              | 159.84    | 717.28              |           |
| 1881   | 2,066               | 5,705     | 121.41              | 312.55    | 130    | 333                 | 333       | 333                 | 333       | 333    | 61,073              | 40.77     | 398.87              | 8,173     | 47,158              | 163.18    | 706.52              |           |
| 1882   | 2,022               | 6,270     | 108.54              | 327.69    | 98     | 454                 | 454       | 454                 | 454       | 454    | 57,400              | 35.04     | 341.75              | 7,702     | 61,502              | 143.58    | 689.24              |           |
| 1883   | 2,057               | 5,579     | 123.03              | 332.63    | 96     | 416                 | 416       | 416                 | 416       | 416    | 62,229              | 47.006    | 359.24              | 8,281     | 62,555              | 169.27    | 681.74              |           |
| 1884   | 2,137               | 6,179     | 120.18              | 318.99    | 78     | 406                 | 406       | 406                 | 406       | 406    | 70,047              | 38.06     | 421.25              | 9,174     | 61,988              | 168.84    | 740.24              |           |
| 1885   | 1,823               | 5,740     | 109.33              | 291.92    | 93     | 358                 | 358       | 358                 | 358       | 358    | 69,001              | 56.958    | 27.41               | 409.77    | 7,688               | 62,432    | 186.74              | 701.76    |
| 1886   | 1,743               | 6,176     | 94.47               | 284.76    | 76     | 301                 | 301       | 301                 | 301       | 301    | 61,690              | 53.177    | 27.57               | 427.30    | 6,908               | 59,383    | 122.04              | 712.06    |
| 1887   | 1,688               | 5,673     | 93.60               | 278.70    | 62     | 304                 | 304       | 304                 | 304       | 304    | 46,690              | 55.188    | 25.79               | 453.57    | 6,378               | 60,856    | 119.69              | 758.27    |

## STATEMENT A

Showing the number of dispensaries in the Government General Hospital, Madras, during the year 1917. [Population of the City 518,660.]

| Class of dispensary. | Number open on 31st December 1917. | Number opened during the year. | Number closed during the year. | Number opened on the last day of the year. | Remarks. |
|----------------------|------------------------------------|--------------------------------|--------------------------------|--------------------------------------------|----------|
| 1                    | 2                                  | 3                              | 4                              | 5                                          | 6        |
| I.—State-Public ...  | 1                                  | ...                            | ...                            | 1                                          | ...      |

## STATEMENT B

Showing the number of in-door and out-door patients treated in the (State-Public) Government General Hospital, Madras, during the year 1917.

| District. | Name of dispensary.                  | Of what class.   | In-door patients.              |        |           |        |       |               |                  |                   |       |                                             |                           |           |        | Out-door patients.    |        |           |        |                 |        |           |        |        |                           |           |        |        | Total number of patients treated both in-door and out-door. |        |         |    |
|-----------|--------------------------------------|------------------|--------------------------------|--------|-----------|--------|-------|---------------|------------------|-------------------|-------|---------------------------------------------|---------------------------|-----------|--------|-----------------------|--------|-----------|--------|-----------------|--------|-----------|--------|--------|---------------------------|-----------|--------|--------|-------------------------------------------------------------|--------|---------|----|
|           |                                      |                  | Total treated during the year. |        |           |        |       | Number cured. | Number relieved. | Discharged other. | Died. | Ratio of deaths per cent. of total treated. | Number of beds available. |           |        | Daily average number. |        |           |        | Number treated. |        |           |        |        | Average daily attendance. |           |        |        |                                                             |        |         |    |
|           |                                      |                  | Men.                           | Women. | Children. | Total. | Men.  |               |                  |                   |       |                                             | Women.                    | Children. | Total. | Men.                  | Women. | Children. | Total. | Men.            | Women. | Children. | Total. | Men.   | Women.                    | Children. | Total. |        |                                                             |        |         |    |
|           |                                      |                  |                                |        |           |        |       |               |                  |                   |       |                                             |                           |           |        |                       |        |           |        |                 |        |           |        |        |                           |           |        |        |                                                             |        |         |    |
| 1         |                                      | 3                | 4                              | 5      | 6         | 7      | 8     | 9             | 10               | 11                | 12    | 13                                          | 14                        | 15        | 16     | 17                    | 18     | 19        | 20     | 21              | 22     | 23        | 24     | 25     | 26                        | 27        | 28     | 29     | 30                                                          | 31     | 32      | 33 |
| Madras.   | Government General Hospital, Madras. | I.—STATE-PUBLIC. | 6,104                          | 984    | 186       | 7,274  | 5,673 | 2,744         | 1,368            | 920               | 39.4  | 5.96                                        | 218                       | 70        | 208    | 1,104                 | 1,334  | 874       | 27,870 | 53,183          | 8,126  | 4,861     | 4,367  | 63,143 | 87,704                    | 64,839    | 60,784 | 88,776 | 39,750                                                      | 43,977 | 140,850 |    |
|           |                                      |                  | 983                            | 50     | 105       | 1,038  | 1,033 | 348           | 134              | 62                | 8.67  | 92                                          | 57                        | 56        | 205    | 198                   | 530    | 530       | 19,840 | 4,080           | 2,573  | 1,164     | 526    | 4,533  | 4,080                     | 13,761    | 7,440  | 9,756  | 2,742                                                       | 23,718 | 6,378   |    |
|           |                                      | Total            | 3,362                          | 1,467  | 291       | 5,120  | 7,301 | 3,807         | 1,746            | 1,104             | 30.6  | 4.97                                        | 310                       | 127       | 143    | 584                   | 1,843  | 1,414     | 37,760 | 57,263          | 9,290  | 6,025     | 4,893  | 63,181 | 87,763                    | 57,573    | 64,610 | 12,112 | 35,701                                                      | 64,536 | 107,214 |    |

\* In addition to the beds distinguished as European and Non-European in this Statement 63 beds are reserved as common to both Europeans and Non-Europeans as detailed below :—

|                                                         |     |    |
|---------------------------------------------------------|-----|----|
| Common to male Tubercular and Non-Tubercular patients   | ... | 20 |
| Common to female Tubercular and Non-Tubercular patients | ... | 18 |
| Female Venereal patients                                | ... | 12 |
| Common to both classes and sexes of infectious patients | ... | 11 |
| Cells                                                   | ... | 2  |
| Total                                                   | ... | 63 |

\* In addition to the beds distinguished as European and Non-European in the Statement B beds are reserved as common to both Europeans and Non-Europeans as detailed below:—

Common to male-Tubercular and Non-Tubercular patients ... .. 30  
 Common to female-Tubercular and Non-Tubercular patients ... .. 18  
 Female Venereal patients ... .. 12  
 Common to both classes and sexes of infectious patients ... .. 11  
 Cells ... .. 2  
**Total ... 63**

## INSTRUCTIONS.

- (1) Statement B is intended to comprise only those institutions from which full information can be expected. These are State-Public, Local Fund, and Private-aided Institutions.  
 (2) The classification in column 3 should accordingly be into I, II, IV of the classes shown in Statement A.  
 (3) In column 5 individual dispensaries should be shown, the dispensaries being arranged by districts. The arrangement of districts should be alphabetical. In each district should be shown first: A.—General dispensary, then B.—Female dispensary, then C.—Male dispensary. The whole statement will coincide with a provincial total for A.—General dispensary, a provincial total for B.—Female dispensary, and a provincial total for C.—Male dispensary.  
 (4) In filling up columns 6, 7, 18, 19, 25, 26, 30 and 31 all persons under 10 years of age should be treated as children.  
 (5) The columns for "total treated" (Nos. 4 in 3 and 25 in 31) should include both those from the previous year and those admitted during the year under report. The words "total treated" refer to the number of different individual cases. If, for example, the same person attends for 10 days, he should not be counted 10 times; if he re-appears as a fresh case he should be counted again.

## STATEMENT C (1)

Showing the diseases, etc., of the in-door patients treated in the (State-Public) Government General Hospital, Madras, during the year 1917.

| District. | Cholera. |         | Dysentery. |         | Enteric fever. |         | Gonorrhoea. |         | Kala azar. |         | Leprosy. |         | Malaria. |         | Plague. |         | Pneumonia. |         | Pyrexia of uncertain origin. |         | Rheumatic fever and rheumatism. |         | Small-pox. |         | Typhoid (primary and secondary). |         | Tubercle of the lung. |         | Other tubercular diseases. |         | All other infectious diseases. |         | Anemia. |         | Other general diseases. |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----------|----------|---------|------------|---------|----------------|---------|-------------|---------|------------|---------|----------|---------|----------|---------|---------|---------|------------|---------|------------------------------|---------|---------------------------------|---------|------------|---------|----------------------------------|---------|-----------------------|---------|----------------------------|---------|--------------------------------|---------|---------|---------|-------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|           |          |         |            |         |                |         |             |         |            |         |          |         |          |         |         |         |            |         |                              |         |                                 |         |            |         |                                  |         |                       |         |                            |         |                                |         |         |         |                         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|           |          |         |            |         |                |         |             |         |            |         |          |         |          |         |         |         |            |         |                              |         |                                 |         |            |         |                                  |         |                       |         |                            |         |                                |         |         |         |                         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 1         | 2        | Deaths. | Treatd.    | Deaths. | Treatd.        | Deaths. | Treatd.     | Deaths. | Treatd.    | Deaths. | Treatd.  | Deaths. | Treatd.  | Deaths. | Treatd. | Deaths. | Treatd.    | Deaths. | Treatd.                      | Deaths. | Treatd.                         | Deaths. | Treatd.    | Deaths. | Treatd.                          | Deaths. | Treatd.               | Deaths. | Treatd.                    | Deaths. | Treatd.                        | Deaths. | Treatd. | Deaths. | Treatd.                 | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. | Treatd. | Deaths. |

## STATEMENT C (I)—cont.

Showing the diseases, etc., of the in-door patients treated in the (State-Public) Government General Hospital, Madras, during the year 1917—cont.

| District. | Class of dispensary.                                                  | Systemic diseases—cont. |         |                   |         |                                           |         |                |         |                                          |         |                                       |         |                                    |         | General and Local. |         |                             |         | Labour.                   |         |                               |         | Total number of in-door patients. |         | Operations.    |         |                |         |                |         |         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |
|-----------|-----------------------------------------------------------------------|-------------------------|---------|-------------------|---------|-------------------------------------------|---------|----------------|---------|------------------------------------------|---------|---------------------------------------|---------|------------------------------------|---------|--------------------|---------|-----------------------------|---------|---------------------------|---------|-------------------------------|---------|-----------------------------------|---------|----------------|---------|----------------|---------|----------------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
|           |                                                                       | Goitre.                 |         | Bright's disease. |         | All other diseases of the urinary system. |         | Hydrocoele.    |         | Other diseases of the generative system. |         | Diseases of the organs of locomotion. |         | Diseases of the connective tissue. |         | Ulcers.            |         | Other diseases of the skin. |         | All other local diseases. |         | Injuries (general and local). |         | Poisoning                         |         | Normal.        |         | Abnormal.      |         | Total treated. |         | Deaths. |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |
|           |                                                                       | Total treated.          | Deaths. | Total treated.    | Deaths. | Total treated.                            | Deaths. | Total treated. | Deaths. | Total treated.                           | Deaths. | Total treated.                        | Deaths. | Total treated.                     | Deaths. | Total treated.     | Deaths. | Total treated.              | Deaths. | Total treated.            | Deaths. | Total treated.                | Deaths. | Total treated.                    | Deaths. | Total treated. | Deaths. | Total treated. | Deaths. | Total treated. | Deaths. |         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Madras.   | Government General Hospital, Madras—<br>I Class,<br>State,<br>Public. | 103                     | 2       | 10                | 18      | 2248                                      | 9       | 210            | 4211    | 8                                        | 271     | 11                                    | 110     | 1                                  | 62      | 1                  | 353     | 9                           | 2555    | 313                       | 24      | 19                            | ...     | ...                               | ...     | ...            | ...     | ...            | ...     | ...            | ...     | ...     | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...</ |

## INSTRUCTIONS.

(1) Statement C (I) is complementary to statement B and is intended to relate only to those institutions from which complete information can be expected. These are State-Public, Local Fund, and Private-aided institutions (classes I, III, IV of the classes in Statement A).  
 (2) Details need not be given for each institution. It will suffice if totals are given for each class.  
 (3) For guidance in filling up the columns the following remarks are added :—  
 In all cases the instructions contained in "The Nomenclature of Diseases," fourth edition, 1906, should be followed.

9 to include all diseases due to malaria. Non-malarial fevers should be returned in column 24—"All other general diseases."

15 to include all diseases due to the poison of syphilis, i.e., syphilis, etc.

6 to include all diseases resulting from gonorrheal infection, e.g., gonorrhoeal rheumatism.

19 to include only cases of anaemia of which the cause cannot be ascertained.

Columns 51 and 52 should also include labour cases among out-patients.

Return of Small-pox cases treated in the Government General Hospital, Madras, in the year 1917.

|                  | Number of cases protected on admission. |         |             |               |        | Nature of protection. |                 |                               | Average stay in hospital. |                 | Death-rate.                   |              | Remarks. |                 |                                                                                                                                                                            |
|------------------|-----------------------------------------|---------|-------------|---------------|--------|-----------------------|-----------------|-------------------------------|---------------------------|-----------------|-------------------------------|--------------|----------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | Male.                                   | Female. | Male child. | Female child. | Total. | Vaccination.          | Re-vaccination. | Previous attack of small-pox. | Vaccination.              | Re-vaccination. | Previous attack of small-pox. | Vaccination. |          | Re-vaccination. | Previous attack of small-pox.                                                                                                                                              |
| Europeans ...    | 1                                       | 2       | ...         | ...           | 3      | 3                     | ...             | ...                           | 7                         | ...             | ...                           | ...          | ...      | ...             | Of these, two female patients and one male child were transferred to Krishnam-pet Isolation Hospital. One male patient was treated here throughout as the attack was mild. |
| Non-Europeans... | ...                                     | ...     | 1           | ...           | 1      | 1                     | ...             | ...                           | 4                         | ...             | ...                           | ...          | ...      | ...             |                                                                                                                                                                            |

## STATEMENT C (II)

Showing the diseases of the out-door patients treated in the State-Public, Local Fund and Private-aided Dispensaries of Government General Hospital, Madras, during the year 1917.

| District. | Class of dispensary.                                       | Infective diseases. |            |                |                |            |                     |                                 |                      |                      |                              |                                     |                                                                                    |                                    |                        |                            |                                  |     |     | Systemic diseases. |  |  |  |  |  |  |  |  |  | All other diseases of the liver. |
|-----------|------------------------------------------------------------|---------------------|------------|----------------|----------------|------------|---------------------|---------------------------------|----------------------|----------------------|------------------------------|-------------------------------------|------------------------------------------------------------------------------------|------------------------------------|------------------------|----------------------------|----------------------------------|-----|-----|--------------------|--|--|--|--|--|--|--|--|--|----------------------------------|
|           |                                                            | Cholera.            | Dysentery. | Enteric fever. | Gonorrhoea.    | Kala-azar. | Leprosy.            | Malaria.                        | Plague.              | Pneumonia.           | Pyrexia of uncertain origin. | Rheumatic fever and rheumatism.     | Small-pox.                                                                         | Gyphitis (primary and second-ary). | Tubercle of the lungs. | Other tubercular diseases. | All other diseases.              |     |     |                    |  |  |  |  |  |  |  |  |  |                                  |
| Madras.   | Government General Hospital, Madras—Class I, State-Public. | 3                   | 4          | 5              | 6              | 7          | 8                   | 9                               | 10                   | 11                   | 12                           | 13                                  | 14                                                                                 | 15                                 | 16                     | 17                         | 18                               | 607 | 739 |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              |     |     |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              |     |     |                    |  |  |  |  |  |  |  |  |  |                                  |
| Madras.   | Government General Hospital, Madras—Class I, State-Public. | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              | ... | ... |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              | ... |     |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              | ... |     |                    |  |  |  |  |  |  |  |  |  |                                  |
| District. | Class of dispensary.                                       | 19                  | 20         | 21             | 22             | 23         | 24                  | 25                              | 26                   | 27                   | 28                           | 29                                  | 30                                                                                 | 31                                 | 32                     | 33                         | 34                               | 319 |     |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | Anaemia.            | Diabetes.  | Scoury.        | Non-malignant. | Malignant. | All other diseases. | Diseases of the nervous system. | Diseases of the eye. | Diseases of the ear. | Diseases of the nose.        | Diseases of the circulatory system. | All diseases of the respiratory system except pneumonia and tubercle of the lungs. | Dyspepsia.                         | Diarrhoea.             | Abscess of the liver.      | All other diseases of the liver. |     |     |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              |     | ... |                    |  |  |  |  |  |  |  |  |  |                                  |
| Madras.   | Government General Hospital, Madras—Class I, State-Public. | 165                 | 116        | ...            | 130            | 48         | 754                 | 880                             | 24                   | 2,995                | 171                          | 26                                  | 28                                                                                 | 29                                 | 30                     | 31                         | 32                               | 319 |     |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              | ... |     |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              | ... |     |                    |  |  |  |  |  |  |  |  |  |                                  |
| District. | Class of dispensary.                                       | 175                 | 131        | ...            | 130            | 52         | 880                 | 394                             | 36                   | 8,158                | 171                          | 41                                  | 6,712                                                                              | 368                                | 189                    | 435                        | 319                              |     |     |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              | ... |     |                    |  |  |  |  |  |  |  |  |  |                                  |
|           |                                                            | ...                 | ...        | ...            | ...            | ...        | ...                 | ...                             | ...                  | ...                  | ...                          | ...                                 | ...                                                                                | ...                                | ...                    | ...                        | ...                              | ... |     |                    |  |  |  |  |  |  |  |  |  |                                  |

## STATEMENT C (II)—cont.

Showing the diseases of the out-door patients treated in the State-Public, Local Fund and Private-aided Dispensaries of Government General Hospital, Madras, during the year 1917—cont.

| District. | Class of dispensary.                                       | Systemic diseases—cont. |                                             |                                               |             |                   |                                           |            |                                             |                                       |                                    |         |                             |                           |                               | General and local. |                   |        |       | Total number of out-door patients. | Operations. |
|-----------|------------------------------------------------------------|-------------------------|---------------------------------------------|-----------------------------------------------|-------------|-------------------|-------------------------------------------|------------|---------------------------------------------|---------------------------------------|------------------------------------|---------|-----------------------------|---------------------------|-------------------------------|--------------------|-------------------|--------|-------|------------------------------------|-------------|
|           |                                                            | Appendicitis.           | All other diseases of the digestive system. | Inflammation and suppuration of lymph glands. | Gonorrhoea. | Bright's disease. | All other diseases of the urinary system. | Hydrocele. | (Other diseases of the reproductive system. | Diseases of the organs of locomotion. | Diseases of the connective tissue. | Ulcers. | Other diseases of the skin. | All other local diseases. | Injuries (General and local). | By opium.          | By other poisons. |        |       |                                    |             |
| Madras.   | Government General Hospital, Madras—Class I, State-Public. | 35                      | 85                                          | 87                                            | 38          | 39                | 40                                        | 41         | 42                                          | 43                                    | 44                                 | 45      | 46                          | 47                        | 48                            | 49                 | 50                | 51     | 52    |                                    |             |
|           |                                                            | ...                     | ...                                         | ...                                           | ...         | ...               | ...                                       | ...        | ...                                         | ...                                   | ...                                | ...     | ...                         | ...                       | ...                           | ...                | ...               | ...    | ...   |                                    |             |
|           |                                                            | ...                     | ...                                         | ...                                           | ...         | ...               | ...                                       | ...        | ...                                         | ...                                   | ...                                | ...     | ...                         | ...                       | ...                           | ...                | ...               | ...    | ...   |                                    |             |
|           |                                                            | ...                     | ...                                         | ...                                           | ...         | ...               | ...                                       | ...        | ...                                         | ...                                   | ...                                | ...     | ...                         | ...                       | ...                           | ...                | ...               | ...    | ...   |                                    |             |
| Madras.   | Government General Hospital, Madras—Class I, State-Public. | 5                       | 5,828                                       | 172                                           | ...         | 59                | 594                                       | 393        | 1,340                                       | 3,801                                 | 4,360                              | 4,500   | 3,472                       | 3,881                     | 2,232                         | 7                  | ...               | 55,183 | 4,556 |                                    |             |
|           |                                                            | ...                     | ...                                         | ...                                           | ...         | ...               | ...                                       | ...        | ...                                         | ...                                   | ...                                | ...     | ...                         | ...                       | ...                           | ...                | ...               | ...    | ...   |                                    |             |
|           |                                                            | ...                     | ...                                         | ...                                           | ...         | ...               | ...                                       | ...        | ...                                         | ...                                   | ...                                | ...     | ...                         | ...                       | ...                           | ...                | ...               | ...    | ...   |                                    |             |
|           |                                                            | ...                     | ...                                         | ...                                           | ...         | ...               | ...                                       | ...        | ...                                         | ...                                   | ...                                | ...     | ...                         | ...                       | ...                           | ...                | ...               | ...    | ...   |                                    |             |
| Madras.   | Total ...                                                  | 9                       | 6,469                                       | 182                                           | 2           | 59                | 697                                       | 457        | 1,457                                       | 8,927                                 | 4,477                              | 4,630   | 3,569                       | 3,959                     | 2,334                         | 8                  | ...               | 59,873 | 5,240 |                                    |             |

## INSTRUCTIONS.

- (1) Statement C (II) is complementary to statement B and is intended to relate only to those institutions from which complete information can be expected. These are State-Public, Local Fund and Private-aided institutions (Classes I, II, IV of the classes in statement A).
- (2) Details need not be given for each institution. It will suffice if totals are given for each class.
- (3) For guidance in filling up the columns the following remarks are added:—  
In all cases the instructions contained in "The Nomenclature of Diseases," fourth edition, 1908, should be followed.
- Column 9 to include all diseases due to malaria. Non-malarial fevers should be returned in column 24.—"All other general diseases."  
" 15 to include all diseases due to the poison of syphilis, e.g., syphilitic tibia.  
" 16 to include all diseases resulting from gonorrhoeal infection, e.g., gonorrhoeal rheumatism.  
" 19 to include only cases of anaemia of which the cause cannot be ascertained.  
Labour cases should be included under columns 51 and 52 of statement C (I).

## STATEMENT F.

Number of in-door and out-door patients, according to class and sex, treated in the State-Public, Government General Hospital, Madras, in the year 1917.

| District. | Name and class of dispensary.                                       | Europeans and Eurasians. |         |           |         | Hindus. |         |           |         | Muhammadians. |         |           |         | Others. |         |           |         | Total treated. |    |       |
|-----------|---------------------------------------------------------------------|--------------------------|---------|-----------|---------|---------|---------|-----------|---------|---------------|---------|-----------|---------|---------|---------|-----------|---------|----------------|----|-------|
|           |                                                                     | Adults.                  |         | Children. |         | Adults. |         | Children. |         | Adults.       |         | Children. |         | Adults. |         | Children. |         |                |    |       |
|           |                                                                     | Male.                    | Female. | Male.     | Female. | Male.   | Female. | Male.     | Female. | Male.         | Female. | Male.     | Female. | Male.   | Female. | Male.     | Female. |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
| 1         | 2                                                                   | 3                        | 4       | 5         | 6       | 7       | 8       | 9         | 10      | 11            | 12      | 13        | 14      | 15      | 16      | 17        | 18      | 19             |    |       |
| Madras.   | (Government General Hospital, Madras, Class I, State Public, 1917.) | In-door ...              | ...     | 983       | 509     | 105     | 91      | 3,180     | 611     | 117           | 73      | 351       | 34      | 7       | 2       | 878       | 313     | 62             | 45 | 7,361 |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |
|           |                                                                     |                          |         |           |         |         |         |           |         |               |         |           |         |         |         |           |         |                |    |       |

## INSTRUCTIONS.

- (1) Statement F is intended to comprise only those institutions from which full information can be expected. These are State-Public, Local Fund and Private-aided dispensaries (Classes I, III and IV of the classes shown in Statement A).
- (2) In filling up columns 5, 6, 9, 10, 11, 13, 14, 17, 18 all under ten years of age should be reckoned as children.
- (3) The number of individual patients and not the number of visits should be shown throughout.
- (4) The specimen form is primarily adapted for use in provinces of India proper. For the Burma Provincial report the arrangement of the columns may be altered as the local Government sees fit.

## STATEMENT F (SUPPLEMENT).

Number of in-door and out-door patients, according to class and sex, treated in the (State-Public), Government General Hospital, Madras, in the year 1917.

| District. | Name and class of dispensary.                | Europeans and Eurasians. |       |           |     | Hindus. |       |           |       | Muhammadians. |      |           |     | Others. |       |           |       | Total. |       |  |         |  |
|-----------|----------------------------------------------|--------------------------|-------|-----------|-----|---------|-------|-----------|-------|---------------|------|-----------|-----|---------|-------|-----------|-------|--------|-------|--|---------|--|
|           |                                              | Adults.                  |       | Children. |     | Adults. |       | Children. |       | Adults.       |      | Children. |     | Adults. |       | Children. |       |        |       |  |         |  |
|           |                                              | Male.                    |       | Female.   |     | Male.   |       | Female.   |       | Male.         |      | Female.   |     | Male.   |       | Female.   |       |        | Male. |  | Female. |  |
|           |                                              |                          |       |           |     |         |       |           |       |               |      |           |     |         |       |           |       |        |       |  |         |  |
| 1         | 2                                            | 3                        | 4     | 5         | 6   | 7       | 8     | 9         | 10    | 11            | 12   | 13        | 14  | 15      | 16    | 17        | 18    | 19     |       |  |         |  |
| Madras.   | In-patients ...                              | 983                      | 509   | 105       | 91  | 3,180   | 611   | 117       | 73    | 351           | 34   | 7         | 2   | 878     | 313   | 62        | 45    | 7,361  |       |  |         |  |
|           | Out-door labour cases.                       | ...                      | ...   | ...       | ... | ...     | ...   | ...       | ...   | ...           | Nil. | ...       | ... | ...     | ...   | ...       | ...   | ...    |       |  |         |  |
|           | Other out-door cases represented by friends. | ...                      | ...   | ...       | ... | ...     | ...   | ...       | ...   | ...           | Nil. | ...       | ... | ...     | ...   | ...       | ...   | ...    |       |  |         |  |
|           | Out-door cases attended personally.          | 2,573                    | 1,164 | 520       | 433 | 28,931  | 6,160 | 3,468     | 3,008 | 2,568         | 194  | 166       | 106 | 6,693   | 1,771 | 1,175     | 1,153 | 59,878 |       |  |         |  |
|           | Total ...                                    | 3,556                    | 1,673 | 625       | 524 | 32,001  | 6,771 | 3,585     | 3,081 | 2,919         | 228  | 178       | 108 | 7,471   | 2,084 | 1,237     | 1,193 | 87,234 |       |  |         |  |

## INSTRUCTIONS.

- (1) Statement F is intended to comprise only those institutions from which full information can be expected. These are State-Public, Local Fund and Private-aided dispensaries (Classes I, III and IV of the classes shown in Statement A).
- (2) In filling up columns 5, 6, 9, 10, 11, 13, 14, 17, 18 all under ten years of age should be reckoned as children.
- (3) The number of individual patients and not the number of visits should be shown throughout.
- (4) The specimen form is primarily adapted for use in provinces of India proper. For the Burma Provincial report the arrangement of the columns may be altered as the local Government sees fit.

STATEMENT G.  
Showing the Results of the Surgical Operations performed in the General Hospital, Madras, for the year 1917.

| Class of operations.                         | Nature of operations.                         | Number of patients remaining from last year. | Number of operations performed during the year. |            |        | Number of patients operated on & to G. | Results of operations on patients. |           |                       |       | Number of patients remaining at the end of the year. |
|----------------------------------------------|-----------------------------------------------|----------------------------------------------|-------------------------------------------------|------------|--------|----------------------------------------|------------------------------------|-----------|-----------------------|-------|------------------------------------------------------|
|                                              |                                               |                                              |                                                 |            |        |                                        | Cured.                             | Believed. | Discharged otherwise. | Died. |                                                      |
|                                              |                                               |                                              | Primary.                                        | Secondary. | Total. |                                        |                                    |           |                       |       |                                                      |
| 1                                            | 2                                             | 3                                            | 4                                               | 5          | 6      | 7                                      | 8                                  | 9         | 10                    | 11    | 12                                                   |
| Operations on tumours                        | Removal by excision or other methods          | ...                                          | 78                                              | ...        | 78     | 78                                     | 67                                 | 4         | 1                     | 2     | 4                                                    |
|                                              | Exploratory puncture or incision              | ...                                          | 7                                               | ...        | 7      | 7                                      | 3                                  | 1         | 4                     | ...   | ...                                                  |
| Operations on cysts                          | Total                                         | ...                                          | 85                                              | ...        | 85     | 85                                     | 70                                 | 5         | 5                     | 2     | 4                                                    |
|                                              | Removal by enucleation                        | ...                                          | 48                                              | ...        | 48     | 48                                     | 48                                 | 1         | ...                   | ...   | ...                                                  |
| Operations for abscesses                     | Treatment by—                                 | ...                                          | 4                                               | ...        | 4      | 4                                      | 3                                  | 1         | ...                   | ...   | ...                                                  |
|                                              | Incision and plugging                         | ...                                          | 47                                              | ...        | 47     | 47                                     | 46                                 | 2         | ...                   | ...   | ...                                                  |
| Removal of foreign bodies                    | Acute abscess—incision                        | ...                                          | 1,469                                           | 14         | 1,483  | 1,483                                  | 1,465                              | 22        | 8                     | 4     | 6                                                    |
|                                              | Chronic abscess—incision and drainage         | ...                                          | 8                                               | ...        | 8      | 8                                      | 74                                 | 31        | 5                     | ...   | 7                                                    |
| Operations on arteries                       | —incision with or without injection.          | ...                                          | 78                                              | 3          | 81     | 78                                     | 54                                 | 15        | ...                   | ...   | 6                                                    |
|                                              | —aspiration, with or without injection.       | ...                                          | 4                                               | ...        | 4      | 4                                      | 2                                  | 1         | ...                   | ...   | 1                                                    |
| Operations on veins                          | Total                                         | ...                                          | 1,680                                           | 18         | 1,698  | 1,680                                  | 1,585                              | 59        | 8                     | 7     | 20                                                   |
|                                              | In the natural passages                       | ...                                          | 62                                              | ...        | 62     | 62                                     | 61                                 | 1         | ...                   | ...   | ...                                                  |
| Operations on lymphatics                     | Impacted or embedded substances               | ...                                          | 80                                              | ...        | 80     | 80                                     | 77                                 | 1         | 1                     | ...   | 1                                                    |
|                                              | Total                                         | ...                                          | 142                                             | ...        | 142    | 142                                    | 138                                | 2         | 1                     | ...   | 1                                                    |
| Operations on nerves                         | Ligature                                      | ...                                          | ...                                             | ...        | ...    | ...                                    | 1                                  | ...       | ...                   | ...   | ...                                                  |
|                                              | Phlebotomy (intravenous injections)           | ...                                          | 344                                             | 19         | 363    | 344                                    | 230                                | 105       | 5                     | ...   | 4                                                    |
| Operations on skin and subcutaneous tissues. | For varices—excision                          | ...                                          | 3                                               | ...        | 3      | 3                                      | 1                                  | ...       | ...                   | ...   | 2                                                    |
|                                              | Total                                         | ...                                          | 347                                             | 19         | 366    | 347                                    | 231                                | 105       | 5                     | ...   | 6                                                    |
| Operations on muscles                        | Removal of lymphatic glands by excision, etc. | ...                                          | 100                                             | 1          | 101    | 100                                    | 79                                 | 25        | ...                   | 2     | 8                                                    |
|                                              | Neurectomy                                    | ...                                          | 1                                               | ...        | 1      | 1                                      | 1                                  | ...       | ...                   | ...   | ...                                                  |

|                                                  |                                                                 |     |       |     |       |       |       |     |     |     |     |     |
|--------------------------------------------------|-----------------------------------------------------------------|-----|-------|-----|-------|-------|-------|-----|-----|-----|-----|-----|
| Operations on the skin and subcutaneous tissues. | Plastic operations for congenital malformations and cicatrices. | ... | 4     | ... | 4     | 4     | 4     | ... | ... | ... | ... | ... |
|                                                  | Skin grafting (Thiersch's method)                               | ... | 1,762 | 71  | 1,833 | 1,762 | 1,762 | ... | ... | ... | ... | ... |
| Operations on bones                              | Hypodermic injections                                           | ... | ...   | ... | ...   | ...   | ...   | ... | ... | ... | ... | ... |
|                                                  | Curettage—                                                      | ... | ...   | ... | ...   | ...   | ...   | ... | ... | ... | ... | ... |
| Operations on joints                             | For chronic ulcer                                               | ... | 37    | ... | 37    | 37    | 35    | 6   | 1   | ... | ... | ... |
|                                                  | For sinuses                                                     | ... | 82    | ... | 82    | 82    | 69    | 11  | 1   | ... | ... | ... |
| Operations on muscles                            | For infective granuloma                                         | ... | 4     | ... | 4     | 4     | 4     | ... | ... | ... | ... | ... |
|                                                  | For gumma                                                       | ... | 82    | ... | 82    | 82    | 73    | 10  | ... | ... | ... | ... |
| Operations on tendons                            | Cauterisation—thermo or electric                                | ... | 23    | ... | 23    | 23    | 23    | 1   | ... | ... | ... | ... |
|                                                  | Linear scarification—                                           | ... | 7     | ... | 7     | 7     | 7     | ... | ... | ... | ... | ... |
| Operations on ligaments                          | For elongated tendons                                           | ... | 2     | ... | 2     | 2     | 2     | ... | ... | ... | ... | ... |
|                                                  | For hamstrings                                                  | ... | 81    | ... | 81    | 81    | 70    | 11  | ... | ... | ... | ... |
| Operations on cartilages                         | For whitlows                                                    | ... | 2     | ... | 2     | 2     | 2     | ... | ... | ... | ... | ... |
|                                                  | Excision of elephantoid tissue                                  | ... | 9     | ... | 9     | 9     | 9     | ... | ... | ... | ... | ... |
| Operations on tendons                            | Excision of corns and warts                                     | ... | 23    | ... | 23    | 23    | 23    | ... | ... | ... | ... | ... |
|                                                  | Avulsion of nails                                               | ... | 117   | ... | 117   | 117   | 111   | 3   | ... | ... | ... | ... |
| Operations on tendons                            | Repair of wounds                                                | ... | 2     | ... | 2     | 2     | 2     | ... | ... | ... | ... | ... |
|                                                  | Excision of taloid                                              | ... | 7     | ... | 7     | 7     | 7     | ... | ... | ... | ... | ... |
| Operations on tendons                            | Infective granuloma excision and scraping                       | ... | 18    | ... | 18    | 18    | 18    | ... | ... | ... | ... | ... |
|                                                  | Total                                                           | ... | 2,304 | 74  | 2,378 | 2,304 | 2,243 | 50  | 5   | 10  | 14  | ... |
| Operations on bones                              | Incision of periosteum                                          | ... | 12    | ... | 12    | 12    | 8     | 3   | ... | ... | ... | ... |
|                                                  | Osteotomy, linear or cuneiform                                  | ... | 5     | ... | 5     | 5     | 5     | ... | ... | ... | ... | ... |
| Operations on bones                              | Wiring or otherwise uniting recent or ununited fractures.       | ... | 216   | ... | 216   | 216   | 183   | 25  | 7   | ... | ... | ... |
|                                                  | Removal of sequestra                                            | ... | 44    | ... | 44    | 44    | 38    | 11  | 1   | ... | ... | ... |
| Operations on bones                              | Excision, partial or complete                                   | ... | 28    | ... | 28    | 28    | 17    | 6   | ... | ... | ... | ... |
|                                                  | Excision of diseased bone                                       | ... | 2     | ... | 2     | 2     | 2     | ... | ... | ... | ... | ... |
| Operations on bones                              | Enucleation of a new growth                                     | ... | 15    | ... | 15    | 15    | 15    | ... | ... | ... | ... | ... |
|                                                  | Total                                                           | ... | 313   | 3   | 316   | 313   | 253   | 45  | 8   | ... | ... | ... |
| Operations on joints                             | Reduction of dislocation—                                       | ... | ...   | ... | ...   | ...   | ...   | ... | ... | ... | ... | ... |
|                                                  | Lower jaw                                                       | ... | 1     | ... | 1     | 1     | 1     | ... | ... | ... | ... | ... |
| Operations on joints                             | Shoulder                                                        | ... | 7     | ... | 7     | 7     | 7     | ... | ... | ... | ... | ... |
|                                                  | Elbow                                                           | ... | 6     | ... | 6     | 6     | 6     | ... | ... | ... | ... | ... |
| Operations on joints                             | Wrist                                                           | ... | 4     | ... | 4     | 4     | 4     | ... | ... | ... | ... | ... |
|                                                  | Hand and fingers                                                | ... | 6     | ... | 6     | 6     | 6     | ... | ... | ... | ... | ... |
| Operations on joints                             | Hip                                                             | ... | 1     | ... | 1     | 1     | 1     | ... | ... | ... | ... | ... |
|                                                  | Knee                                                            | ... | 1     | ... | 1     | 1     | 1     | ... | ... | ... | ... | ... |
| Operations on joints                             | For ankylosis by passive movements                              | ... | 18    | ... | 18    | 18    | 18    | ... | ... | ... | ... | ... |
|                                                  | Aspiration with or without injection                            | ... | 14    | ... | 14    | 14    | 14    | ... | ... | ... | ... | ... |
| Operations on joints                             | Arthrology                                                      | ... | 4     | ... | 4     | 4     | 4     | ... | ... | ... | ... | ... |
|                                                  | Excision, partial or complete                                   | ... | 3     | ... | 3     | 3     | 3     | ... | ... | ... | ... | ... |
| Operations on joints                             | Removal of semilunar cartilage                                  | ... | 6     | ... | 6     | 6     | 6     | ... | ... | ... | ... | ... |
|                                                  | Total                                                           | ... | 68    | ... | 68    | 68    | 49    | 21  | ... | ... | ... | ... |
| Operations on muscles                            | Tenotomy                                                        | ... | 2     | ... | 2     | 2     | 2     | ... | ... | ... | ... | ... |
|                                                  | Total                                                           | ... | 2     | ... | 2     | 2     | 2     | ... | ... | ... | ... | ... |

[illegible]

## STATEMENT G—cont.

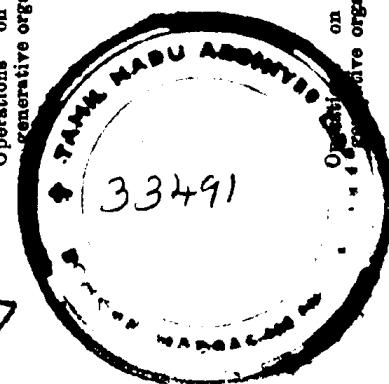
Showing the Results of the Surgical Operations performed in the General Hospital, Madras, for the year 1917—cont.

| Class of operations.               | Nature of operations.                             | Number of patients remaining from last year. | Number of operations performed during the year. |            |        | Number of patients operated on in columns 4 to 6. | Results of operations on patients. |           |                       |       | Number of patients remaining at the end of the year. |
|------------------------------------|---------------------------------------------------|----------------------------------------------|-------------------------------------------------|------------|--------|---------------------------------------------------|------------------------------------|-----------|-----------------------|-------|------------------------------------------------------|
|                                    |                                                   |                                              | Primary.                                        | Secondary. | Total. |                                                   | Cured.                             | Relieved. | Discharged otherwise. | Died. |                                                      |
|                                    |                                                   |                                              |                                                 |            |        |                                                   |                                    |           |                       |       |                                                      |
| 1                                  | 2                                                 | 3                                            | 4                                               | 5          | 6      | 7                                                 | 8                                  | 9         | 10                    | 11    | 12                                                   |
| Operations on the abdomen—cont.    | Operations on the intestines—cont.                | ...                                          | 5                                               | ...        | 5      | 5                                                 | 2                                  | 1         | ...                   | 2     | ...                                                  |
|                                    | Intestinal anastomosis ...                        | ...                                          | 3                                               | ...        | 3      | 3                                                 | 2                                  | ...       | ...                   | 1     | ...                                                  |
|                                    | For intestinal obstruction ...                    | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Operations for disease of the vermiform appendix— | ...                                          | 43                                              | ...        | 43     | 43                                                | 41                                 | ...       | 1                     | 2     | 2                                                    |
|                                    | Excision of the appendix ...                      | ...                                          | 5                                               | ...        | 5      | 5                                                 | 3                                  | ...       | ...                   | ...   | 1                                                    |
|                                    | Opening and drainage of abscess ...               | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Operations for external hernia—                   | ...                                          | 4                                               | ...        | 4      | 4                                                 | ...                                | 4         | ...                   | ...   | ...                                                  |
|                                    | (a) For strangulation and taxis ...               | ...                                          | 29                                              | ...        | 29     | 29                                                | 20                                 | 3         | ...                   | 9     | 1                                                    |
|                                    | Herniotomy with or without radical cure ...       | ...                                          | 99                                              | ...        | 100    | 99                                                | 85                                 | 3         | ...                   | 4     | 8                                                    |
|                                    | (b) For radical cure ...                          | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |
| Operations on the rectum and anus. | Operations on the liver—                          | ...                                          | 8                                               | ...        | 8      | 8                                                 | ...                                | 1         | ...                   | 2     | ...                                                  |
|                                    | Exploratory puncture ...                          | ...                                          | 19                                              | ...        | 19     | 19                                                | 16                                 | ...       | ...                   | 2     | ...                                                  |
|                                    | Liver abscess ...                                 | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Operations on the gall bladder and bile ducts—    | ...                                          | 3                                               | ...        | 3      | 3                                                 | 1                                  | ...       | ...                   | ...   | ...                                                  |
|                                    | Cholecystotomy ...                                | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Operations on the kidney—                         | ...                                          | 1                                               | ...        | 1      | 1                                                 | ...                                | ...       | ...                   | ...   | 1                                                    |
|                                    | Nephro-lithotomy ...                              | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Exploratory incision ...                          | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Nephropexy ...                                    | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Total ...                                         | 16                                           | 446                                             | 1          | 447    | 446                                               | 371                                | 20        | 15                    | 37    | 19                                                   |
| Operations on the rectum and anus. | For congenital malformations ...                  | ...                                          | 2                                               | ...        | 2      | 2                                                 | 3                                  | ...       | ...                   | ...   | 2                                                    |
|                                    | For anal fistula ...                              | ...                                          | 53                                              | ...        | 53     | 53                                                | 39                                 | 9         | ...                   | ...   | ...                                                  |
|                                    | For anal fissure or ulcer ...                     | ...                                          | 15                                              | ...        | 15     | 15                                                | 14                                 | ...       | ...                   | ...   | ...                                                  |
|                                    | For hemorrhoids ...                               | ...                                          | 123                                             | ...        | 123    | 123                                               | 121                                | 2         | ...                   | ...   | ...                                                  |
|                                    | For polypus ...                                   | ...                                          | 3                                               | ...        | 3      | 3                                                 | 3                                  | ...       | ...                   | ...   | ...                                                  |
|                                    | For prolapse ...                                  | ...                                          | 6                                               | ...        | 6      | 6                                                 | 4                                  | ...       | ...                   | ...   | ...                                                  |
|                                    | Operations on rectum for malignant stricture ...  | ...                                          | 1                                               | ...        | 1      | 1                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Proctocolectomy ...                               | ...                                          | 5                                               | ...        | 5      | 5                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Dilatation of sphincter ...                       | ...                                          | 9                                               | ...        | 9      | 9                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |
|                                    | Excision of rectum, partial or complete ...       | ...                                          | 3                                               | ...        | 3      | 3                                                 | 4                                  | ...       | ...                   | ...   | ...                                                  |
| Total ...                          | 6                                                 | 217                                          | 1                                               | 218        | 217    | 186                                               | 28                                 | 6         | 1                     | 6     |                                                      |

| Class of operations.                        | Nature of operations.                                | Number of patients remaining from last year. | Number of operations performed during the year. |            |        | Number of patients operated on in columns 4 to 6. | Results of operations on patients. |           |                       |       | Number of patients remaining at the end of the year. |  |  |
|---------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------|------------|--------|---------------------------------------------------|------------------------------------|-----------|-----------------------|-------|------------------------------------------------------|--|--|
|                                             |                                                      |                                              | Primary.                                        | Secondary. | Total. |                                                   | Cured.                             | Relieved. | Discharged otherwise. | Died. |                                                      |  |  |
|                                             |                                                      |                                              |                                                 |            |        |                                                   |                                    |           |                       |       |                                                      |  |  |
| 1                                           | 2                                                    | 3                                            | 4                                               | 5          | 6      | 7                                                 | 8                                  | 9         | 10                    | 11    | 12                                                   |  |  |
| Operations on the bladder                   | Sounding ...                                         | ...                                          | 2                                               | ...        | 2      | 2                                                 | 1                                  | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Supra-pubic puncture ...                             | ...                                          | 1                                               | ...        | 1      | 1                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Supra-pubic cystostomy ...                           | ...                                          | 2                                               | ...        | 2      | 2                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Supra-pubic lithotomy ...                            | ...                                          | 7                                               | ...        | 7      | 7                                                 | 6                                  | ...       | ...                   | 1     | ...                                                  |  |  |
|                                             | Total ...                                            | ...                                          | 12                                              | ...        | 12     | 12                                                | 7                                  | 3         | ...                   | ...   | ...                                                  |  |  |
| Operations on the prostate                  | Prostatectomy, partial or complete ...               | ...                                          | 2                                               | ...        | 2      | 2                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Passing of catheter or sound ...                     | ...                                          | 284                                             | 34         | 318    | 284                                               | 281                                | 31        | 2                     | ...   | ...                                                  |  |  |
|                                             | Dilatation of urethra ...                            | ...                                          | 45                                              | 1          | 46     | 45                                                | 39                                 | 13        | 4                     | ...   | ...                                                  |  |  |
|                                             | Urethrotomy, external ...                            | ...                                          | 2                                               | ...        | 2      | 2                                                 | 1                                  | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Cock's puncture ...                                  | ...                                          | 3                                               | ...        | 3      | 3                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Extravasation of urine ...                           | ...                                          | 5                                               | ...        | 5      | 5                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | For urethral fistula ...                             | ...                                          | 18                                              | ...        | 18     | 18                                                | 9                                  | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Removal of calculus or foreign body from urethra ... | ...                                          | 2                                               | ...        | 2      | 2                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Total ...                                            | ...                                          | 389                                             | 85         | 474    | 389                                               | 278                                | 49        | 9                     | 6     | 6                                                    |  |  |
| Operations on the male generative organs.   | Circumcision ...                                     | ...                                          | 139                                             | ...        | 139    | 129                                               | 123                                | 3         | ...                   | ...   | ...                                                  |  |  |
|                                             | Paraphimosis—                                        | ...                                          | 63                                              | ...        | 63     | 63                                                | 63                                 | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Reduction ...                                        | ...                                          | 19                                              | ...        | 19     | 19                                                | 18                                 | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Amputation of penis, partial or complete ...         | ...                                          | 7                                               | ...        | 7      | 7                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | For varicocele ...                                   | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | For hydrocele—                                       | ...                                          | 53                                              | ...        | 53     | 53                                                | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Tapping ...                                          | ...                                          | 1                                               | ...        | 1      | 1                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Do. and injection ...                                | ...                                          | 190                                             | ...        | 190    | 186                                               | 4                                  | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Excision and eversion of sac ...                     | ...                                          | 19                                              | ...        | 19     | 17                                                | 1                                  | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Excision of part of parietal sac ...                 | ...                                          | 14                                              | ...        | 14     | 12                                                | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
| Operations on the female generative organs. | Incision and drainage ...                            | ...                                          | 4                                               | ...        | 4      | 4                                                 | 4                                  | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Excision and eversion of sac ...                     | ...                                          | 2                                               | ...        | 2      | 2                                                 | 1                                  | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Excision of part of parietal sac ...                 | ...                                          | 4                                               | ...        | 4      | 4                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Removal of testes ...                                | ...                                          | 18                                              | ...        | 18     | 18                                                | 18                                 | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Removal of elephantoid scrotum ...                   | ...                                          | 45                                              | ...        | 45     | 41                                                | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Removal of elephantoid tissue of penis ...           | ...                                          | 1                                               | ...        | 1      | 1                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Total ...                                            | 14                                           | 570                                             | ...        | 570    | 551                                               | 10                                 | 2         | 5                     | 16    |                                                      |  |  |
|                                             | Operations involving abdominal section—              | ...                                          | ...                                             | ...        | ...    | ...                                               | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Ovariectomy ...                                      | ...                                          | 3                                               | ...        | 3      | 3                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Ventral fixation of uterus ...                       | ...                                          | 1                                               | ...        | 1      | 1                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
| Operations on the female generative organs. | Curetting of uterus ...                              | ...                                          | 1                                               | ...        | 1      | 1                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Amputation of clitoris ...                           | ...                                          | 1                                               | ...        | 1      | 1                                                 | ...                                | ...       | ...                   | ...   | ...                                                  |  |  |
|                                             | Total ...                                            | ...                                          | 6                                               | ...        | 6      | 4                                                 | ...                                | 1         | ...                   | 1     | ...                                                  |  |  |
|                                             | Grand Total ...                                      | 103                                          | 9,603                                           | 153        | 9,755  | 9,602                                             | 8,986                              | 484       | 63                    | 91    | 124                                                  |  |  |

L:14.211.M Y N17

N1831



## STATEMENT H

Showing the Income and Expenditure of Government General Hospital, Madras, in the year 1917.

| District. | Name of dispensary.          | Income.       |                          |          |      |                           |                               |                          |                |         |                                                         | Expenditure.    |                   |         |                 |            |         |        |        |                        |                       |              | Closing balance. |                    |
|-----------|------------------------------|---------------|--------------------------|----------|------|---------------------------|-------------------------------|--------------------------|----------------|---------|---------------------------------------------------------|-----------------|-------------------|---------|-----------------|------------|---------|--------|--------|------------------------|-----------------------|--------------|------------------|--------------------|
|           |                              | Cash balance. | Government contribution. |          |      | Local fund contributions. | Municipal fund contributions. | Interest on investments. | Subscriptions. |         | Miscellaneous receipts (to include sale of securities). | Total receipts. | Salaries.         |         |                 | Medicines. |         |        | Diet.  | Miscellaneous charges. | Buildings or repairs. | Investments. |                  | Total expenditure. |
|           |                              |               | As sal.                  | Other.   | Whe. |                           |                               |                          | Euro-pean.     | Indian. |                                                         |                 | Medical officers. | Nurses. | Inferior vants. | Kuro-pean. | Bazaar. |        |        |                        |                       |              |                  |                    |
| 1         | 2                            | 3             | 4                        | 5        | 6    | 7                         | 8                             | 9                        | 10             | 11      | 12                                                      | 13              | 14                | 15      | 16              | 17         | 18      | 19     | 20     | 21                     | 22                    | 23           |                  |                    |
| Madras.   | Government General Hospital. | ...           | 1,70,635                 | 1,80,413 | ...  | ...                       | ...                           | ...                      | ...            | 29,828  | 3,80,775                                                | 76,249          | 51,072            | 44,214  | 42,524          | 1,436      | 80,802  | 95,476 | 20,202 | ...                    | 3,80,775              | ...          |                  |                    |

## INSTRUCTIONS.

(1) Statement H is intended to comprise only those institutions from which complete information can be expected. These are State-Public, Local Fund and Private-aided dispensaries (Classes I, III and IV of the classes shown in Statement A).

(2) Figures for individual dispensaries should be given: and dispensaries should be arranged in column 2, as in Statement B, except that district totals (for general, female or combined institutions) need not be given.

(3) Figures should be given for the following: (1) the salaries of Surgeons, Assistant Surgeons, Apothecaries, Hospital Assistants and Indian Doctors, including special dispensary allowance (if any), and (2) the special dispensary allowance given to Surgeons, Assistant Surgeons, Apothecaries, Hospital Assistants and Indian Doctors for holding charge of the dispensary in addition to their ordinary civil work. The pay of Civil Surgeons or other Medical officers holding charge of the dispensary in addition to their ordinary civil work. The pay of Civil Surgeons or other Medical officers holding charge of the dispensary in addition to their ordinary civil work.

(4) In column 13 should be shown the salaries of (1) compounders, dressers, etc., and (2) menial servants, e.g., cooks, sweepers, chautidars, etc.

## GOVERNMENT GENERAL HOSPITAL

## STATEMENT III-B.

Selected List of Operations performed by each Medical Officer, Government General Hospital, Madras, for the year 1917.

| Number.   | Names of operators.                    | Period of duty.                                                                                            | Excision of tumours (all kinds). |                                | Excision of joints (partial or complete). | Operations on bones. | Amputations. |              | Abdominal section (for any purpose other than operations). | Removal of vesical calculi. |     | Arthroclomy. | Operations on arteries and veins. | Operations on skull, brain and spinal cord. | Operations on intestines including bursae. | Operations on bladder and urethra. | Operations on kidneys. | Operations on elephantoid scrotum. | Operations on testicle and spermatic cord. | Other operations on male Genitive organs. | Total. |
|-----------|----------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------|-------------------------------------------|----------------------|--------------|--------------|------------------------------------------------------------|-----------------------------|-----|--------------|-----------------------------------|---------------------------------------------|--------------------------------------------|------------------------------------|------------------------|------------------------------------|--------------------------------------------|-------------------------------------------|--------|
|           |                                        |                                                                                                            | Through and above meta-carpus.   | Through and above meta-tarsus. |                                           |                      | By incision. | By crushing. |                                                            |                             |     |              |                                   |                                             |                                            |                                    |                        |                                    |                                            |                                           |        |
| 1         | Lieut. Colonel W. J. Niblock, I.M.S.   | From 1st Jan. to 18th May, 14th June to 31st Dec. and 11th Apr. to 10th May 1917 (S-1).                    | 40                               | ...                            | ...                                       | 33                   | 3            | 6            | 49                                                         | 10                          | 2   | ...          | 6                                 | 5                                           | 57                                         | 19                                 | 2                      | 17                                 | 132                                        | 3                                         | 374    |
| 2         | Major C. A. F. Hingston, I.M.S.        | From 17th Jan. to 7th June 1917 (S-2). From 14th May to 7th June 1917 (S-1).                               | 13                               | ...                            | ...                                       | 6                    | ...          | 1            | 5                                                          | 8                           | ... | ...          | ...                               | 3                                           | 21                                         | 18                                 | ...                    | 8                                  | 28                                         | 4                                         | 89     |
| 3         | Lieut. Colonel E. M. Illington, I.M.S. | From 10th to 28th June 1917 (S-2). From 10th to 13th June 1917 (S-1 and S-3).                              | ...                              | ...                            | ...                                       | 5                    | 1            | ...          | ...                                                        | ...                         | ... | ...          | ...                               | ...                                         | 4                                          | 1                                  | ...                    | 8                                  | 7                                          | ...                                       | 21     |
| 4         | Major J. J. Robb, I.M.S.               | From 21st Mar. to 1st July 1917 (R.M.O.). From 28th June to 31st Dec. 1917 (S-3).                          | 23                               | ...                            | ...                                       | 25                   | 1            | 4            | 4                                                          | 3                           | ... | ...          | ...                               | 2                                           | 12                                         | 16                                 | ...                    | 6                                  | 27                                         | 8                                         | 131    |
| 5         | Captain A. J. H. Russell, I.M.S.       | From 1st Jan. to 18th Mar. and 2nd July to 31st Oct. 1917.                                                 | ...                              | ...                            | ...                                       | ...                  | ...          | ...          | 3                                                          | ...                         | ... | ...          | ...                               | ...                                         | 8                                          | 1                                  | ...                    | ...                                | ...                                        | ...                                       | 7      |
| 6         | Dr. T. M. K. Nedun-gadi, I.M.S.        | From 1st Jan. to 10th Apr. and 11th May to 6th Aug. 1917 (S-3). From 15th Nov. to 31st Dec. 1917 (R.M.O.). | 8                                | 2                              | 2                                         | 42                   | 6            | 6            | 8                                                          | 3                           | 1   | ...          | 18                                | 3                                           | 29                                         | 8                                  | ...                    | 14                                 | 47                                         | 18                                        | 213    |
| 7         | Dr. W. J. Fernandes, I.M.S.            | From 7th Aug. to 31st Dec. 1917 (S-3).                                                                     | 13                               | ...                            | ...                                       | 34                   | 4            | 4            | 5                                                          | ...                         | 2   | ...          | 11                                | 1                                           | 24                                         | 11                                 | ...                    | 6                                  | 23                                         | 12                                        | 150    |
| Total ... |                                        |                                                                                                            | 97                               | 21                             | 74                                        | 145                  | 15           | 21           | 74                                                         | 19                          | 5   | ...          | 35                                | 13                                          | 150                                        | 69                                 | 2                      | 49                                 | 254                                        | 45                                        | 985    |

## FIRST PHYSICIAN'S WARDS.

These wards were in my charge throughout the year except during the month of June when Major C. H. L. Palk, I.M.S. (retired), acted for me.

The number of admissions and deaths in these wards were as follows :—

| Class.               | 1915.          |         | 1916.          |         | 1917.          |         |
|----------------------|----------------|---------|----------------|---------|----------------|---------|
|                      | Total treated. | Deaths. | Total treated. | Deaths. | Total treated. | Deaths. |
| Europeans ... ..     | 718            | 46      | 767            | 41      | 721            | 28      |
| Non-Europeans ... .. | 669            | 54      | 670            | 38      | 569            | 28      |
| Total ... ..         | 1,382          | 100     | 1,437          | 79      | 1,290          | 56      |

Twenty-four cases were admitted moribund. The total percentage of deaths was 5.01 or excluding moribund cases 3.25. The death-rate amongst Europeans was 3.83 per cent and amongst non-Europeans 6.68 per cent or excluding moribund cases 2.36 per cent amongst Europeans and 4.04 per cent amongst non-Europeans.

The principal diseases and their mortality were as follows :—

| Diseases.                        | Total treated. |                |        | Deaths.    |                |        |
|----------------------------------|----------------|----------------|--------|------------|----------------|--------|
|                                  | Europeans.     | Non-Europeans. | Total. | Europeans. | Non-Europeans. | Total. |
| Malaria { Benign tertian ... ..  | 69             | 50             | 119    | ...        | ...            | ...    |
| { Malignant tertian ... ..       | 11             | 3              | 14     | ...        | ...            | ...    |
| { Chronic ... ..                 | 10             | 17             | 27     | ...        | 1              | 1      |
| Enteric fever ... ..             | 58             | 7              | 65     | ...        | ...            | ...    |
| Kala-Azar ... ..                 | 14             | 12             | 26     | 1          | 1              | 2      |
| Pulmonary tuberculosis ... ..    | 18             | 28             | 46     | 2          | 1              | 3      |
| Lobar pneumonia ... ..           | 13             | 25             | 38     | 5          | 5              | 10     |
| Dysentery ... ..                 | 43             | 28             | 71     | ...        | 1              | 1      |
| Enteritis ... ..                 | 27             | 22             | 49     | ...        | ...            | ...    |
| Valvular disease of heart ... .. | 9              | 25             | 34     | 1          | 2              | 3      |
| Nephritis ... ..                 | 11             | 20             | 31     | 1          | 2              | 3      |
| Cirrhosis of liver ... ..        | 1              | 17             | 18     | 1          | ...            | 1      |
| Broncho-pneumonia ... ..         | 4              | 7              | 11     | ...        | ...            | ...    |
| Diabetes ... ..                  | 5              | 9              | 14     | ...        | 1              | 1      |
| Ankylostomiasis ... ..           | 3              | 23             | 26     | ...        | 1              | 1      |
| Pleurisy ... ..                  | 11             | 8              | 19     | ...        | ...            | ...    |
| Bronchitis ... ..                | 45             | 22             | 67     | ...        | ...            | ...    |

The number of Indian patients has been considerably below the average during the year 1917. This is probably accounted for by the fact that the sheds were closed for some time to undergo re-roofing and general repairs. Also the transfer of venereal cases from the Voluntary Venereal Hospital to the General Hospital has had the effect of reducing the beds under my charge.

**Kala-Azar.**—Ten cases were treated with 2 per cent tartar emetic solution injected intravenously; the maximum dose given in any case amounting to 12.5 c.c. One lady—a very advanced case—died suddenly during the course of the treatment. The cause of death was apparently embolism due probably to separation of a portion of blood clot from a vein which had been inflamed as a result of tartar emetic injection, though none of the fluid at any time escaped into the tissues around the vein.

Of the remaining nine cases two left hospital against advice after the temperature had become normal but before the spleen had become markedly reduced in size.\* One of these cases was readmitted to hospital two months after discharge with recurrence of symptoms and

\* Since writing the above report one of these two cases has died in hospital. I understand the patient was admitted for fever and died three days later but no malarial or Leishman Donovan bodies were found in the blood. No post mortem was allowed. Another case, one of these believed to have been cured has also died (January 1918) in hospital from gangrene resulting on a poisoned toe. When in hospital no enlargement of the spleen could be detected but the Surgeon under whose care the patient was could only account for the spread of the gangrene on the supposition that Kala-Azar had lowered the patient's vitality.

in spite of further injections of tartar emetic the patient became worse, left hospital and is, I understand, now extremely ill, probably dying. The other case continued to work till the end of the year 1917, but I am informed he still has an enlarged spleen and occasionally has fever. Of the remaining seven cases one is now in the army on active service in Mesopotamia and three more are alive and believed to be without any symptoms of Kala-Azar at present. The remaining three cases discharged from hospital apparently cured have not been heard of since their discharge.

**Asthma.**—A few cases of asthma were treated with peptone injections but although the injections generally relieved the asthmatic symptoms at the time, it apparently had no power to prevent recurrence of the attacks as two patients who had been given the peptone treatment were readmitted to hospital subsequently with fresh asthmatic attacks.

**Pulmonary Tuberculosis.**—The intravenous injection of colloidal iodine was tried in two cases but without apparent result either beneficial or otherwise, but in both cases the number of intravenous injections given was possibly too few in number.

**Lamblia intestinalis.**—This protozoon was found present in considerable numbers in the faeces of two patients, one a child and the other an adult, both suffering from dysentery. In both cases however amebae were also present and the dysentery yielded to the usual treatment for amebic dysentery. The amebae were therefore probably the cause of the dysenteric symptoms though no Lamblia could be found in the faeces after the subsidence of the dysenteric symptoms.

**Relapsing fever.**—This disease does not occur in Madras but a young Anglo-Indian man from Ajmere was admitted into hospital and the blood was found to contain a large number of spirilla. An intravenous injection of 0.6 grms. '914' was immediately administered; the temperature came down to normal within 48 hours and no relapse occurred during the subsequent fourteen days that the patient remained in hospital. Spirilla could not be found in the blood from the day following the salvarsan injection.

Ankylostomiasis cases treated during 1917 in the First Physician's wards :—

| Localities.          | Number treated. |    | Localities.                | Number treated. |
|----------------------|-----------------|----|----------------------------|-----------------|
|                      |                 |    |                            |                 |
| Chintadripet ... ..  | 2               | 16 | 2. Cochin ... ..           | 2               |
| Ohulai ... ..        | 2               |    | 3. Krishna district ... .. | 1               |
| Park Town ... ..     | 2               |    | 4. Salem ... ..            | 1               |
| Georgetown ... ..    | 3               |    | 5. Palghat ... ..          | 2               |
| Rayapuram ... ..     | 1               |    | 6. Dindigul ... ..         | 1               |
| Vepery ... ..        | 1               |    | 7. Chidambaram ... ..      | 1               |
| Purasawakam ... ..   | 1               |    | 8. Lahore ... ..           | 1               |
| New Town ... ..      | 1               |    |                            |                 |
| Elephant gate ... .. | 1               |    | Total ... ..               | 25              |
| Chetpat ... ..       | 1               |    |                            |                 |
| Marine police ... .. | 1               |    |                            |                 |

There were 25 cases of ankylostomiasis treated in the First Physician's wards during the year 1917. Of these, 8 cases occurred in Europeans, the remainder in Indians. There was one fatal case, the patient dying of heart failure secondary to anaemia. Of the 25 cases, 16 were residents of Madras, the remaining 9 coming from different districts in the Presidency.

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

F. F. ELWES, M.D., C.I.E., Major, I.M.S.,  
First Physician.

## SECOND PHYSICIAN'S WARDS.

The following officers were in charge of these wards during the period noted against each:—

|                                          |     | From                   | To           |
|------------------------------------------|-----|------------------------|--------------|
| 1. Major F. F. Elwes, C.I.E., I.M.S.     | ... | 1 Jan. 1917            | 8 Jan. 1917  |
| 2. Major T. S. Ross, I.M.S.              | ... | 9 Jan. 1917            | 30 Apr. 1917 |
| 3. Major F. F. Elwes, C.I.E., I.M.S.     | ... | 1 May 1917             | 31 May 1917  |
| 4. Major C. H. L. Palk, I.M.S. (Retired) | ... | 1 June 1917            | 8 June 1917  |
| 5. Major T. S. Ross, I.M.S.              | ... | One day on 4 June 1917 |              |
| 6. Major C. H. L. Palk, I.M.S. (Retired) | ... | 5 June 1917            | 21 June 1917 |

and I was in charge from 22nd June 1917 to end of the year.

The following table shows the number of patients treated:—

| Class of patients. | Remained. | Admitted. | Total. | Cured. | Relieved. | Discharged otherwise. | Died. | Re-<br>maining. |
|--------------------|-----------|-----------|--------|--------|-----------|-----------------------|-------|-----------------|
| Europeans ...      | 9         | 197       | 206    | 111    | 51        | 22                    | 13    | 10              |
| Non-Europeans ...  | 38        | 789       | 822    | 374    | 280       | 141                   | 49    | 28              |
| Total ...          | 42        | 986       | 1,028  | 485    | 281       | 163                   | 61    | 38              |

## Percentage of mortality of all cases—

| Europeans.     |         |                  | Non-Europeans. |         |                  | Percentage of death both Europeans and non-Europeans. | Total number of moribund cases admitted. | Percentage of deaths excluding moribund cases. |
|----------------|---------|------------------|----------------|---------|------------------|-------------------------------------------------------|------------------------------------------|------------------------------------------------|
| Total treated. | Deaths. | Percent-<br>age. | Total treated. | Deaths. | Percent-<br>age. |                                                       |                                          |                                                |
| 206            | 12      | 5.82             | 822            | 49      | 5.96             | 5.93                                                  | 18                                       | 4.18                                           |

The following table shows the principal diseases and their mortality:—

| Diseases.                       | Total treated. |          |        | Deaths.    |          |        |
|---------------------------------|----------------|----------|--------|------------|----------|--------|
|                                 | Europeans.     | Indians. | Total. | Europeans. | Indians. | Total. |
| Malaria { Benign tertian ...    | 22             | 44       | 66     | ...        | ...      | ...    |
| Malaria { Malignant tertian ... | 3              | 11       | 14     | ...        | ...      | ...    |
| Malaria { Chronic ...           | 10             | 78       | 88     | ...        | ...      | ...    |
| Enteric fever ...               | 5              | 10       | 15     | ...        | 2        | 2      |
| Pyrexia of unknown origin ...   | 14             | 22       | 36     | 1          | ...      | 1      |
| Tubercle of lungs ...           | 6              | 52       | 58     | ...        | 1        | 1      |
| Dysentery ...                   | 9              | 59       | 68     | 2          | 2        | 4      |
| Valvular disease of heart ...   | 3              | 15       | 18     | ...        | 5        | 5      |
| Disease of stomach ...          | 6              | 73       | 79     | ...        | 2        | 2      |
| Enteritis ...                   | 9              | 26       | 35     | ...        | 1        | 1      |
| Nephritis ...                   | 3              | 31       | 34     | 2          | 6        | 8      |
| Cirrhosis of liver ...          | 1              | 34       | 35     | ...        | 6        | 6      |
| Pneumonia ...                   | 4              | 31       | 35     | 1          | 5        | 6      |
| Nervous disease ...             | 7              | 53       | 60     | ...        | 6        | 6      |
| Asthma ...                      | 11             | 20       | 31     | 1          | ...      | 1      |
| Diabetes ...                    | ...            | 5        | 5      | 1          | ...      | 1      |
| Kala-Azar ...                   | 4              | 6        | 10     | ...        | 1        | 1      |
| Hepatitis ...                   | 6              | 8        | 14     | ...        | ...      | ...    |
| Gonorrhoeal Rheumatism ...      | 7              | 18       | 25     | ...        | ...      | ...    |
| Diphtheria ...                  | 4              | 1        | 5      | 1          | 1        | 2      |
| Measles ...                     | 1              | 2        | 3      | ...        | ...      | ...    |
| Chicken-pox ...                 | ...            | 1        | 1      | ...        | ...      | ...    |
| Small-pox ...                   | 2              | 1        | 3      | ...        | ...      | ...    |
| Whooping cough ...              | 4              | 1        | 5      | ...        | ...      | ...    |
| Mumps ...                       | ...            | 2        | 2      | ...        | ...      | ...    |
| Dengue ...                      | ...            | 3        | 3      | ...        | ...      | ...    |
| Relapsing fever ...             | ...            | 1        | 1      | ...        | ...      | ...    |
| Sand fly fever ...              | ...            | 14       | 14     | ...        | ...      | ...    |

## Report on Ankylostomiasis.

| Localities.        | Number treated. | Results.                   |
|--------------------|-----------------|----------------------------|
| Georgetown ...     | 2               | Cured ... 11               |
| Washermanpet ...   | 1               | Relieved ... 7             |
| Chintadripet ...   | 2               | Discharged otherwise ... 1 |
| Park Town ...      | 1               | Died ... 1                 |
| Choolai ...        | 1               |                            |
| Muthialpet ...     | 1               |                            |
| Rajampet ...       | 1               |                            |
| Malabar ...        | 3               |                            |
| Ponneri ...        | 1               |                            |
| Chittoor ...       | 1               |                            |
| Madura ...         | 1               |                            |
| Manthavelli ...    | 1               |                            |
| Puthur ...         | 1               |                            |
| Trichinopoly ...   | 1               |                            |
| Tiruvallur ...     | 1               |                            |
| Tiruvannamalai ... | 1               |                            |
| Total ...          | 20              | Total ... 20               |

Interesting cases that were treated during the year are:—

(1) A case of pneumonia in a police constable, which was under treatment from the second day of illness and which showed *Haematuria* on the eighth day. Temperature came down by crisis on the ninth day.

(2) A case of cerebral malaria in a police constable, who had three fits outside the hospital and two after admission. Blood showed B. T. and no Malignant Tertian parasites could be found in any of the slides taken. Temperature was not high, being only 101. Quinine injection promptly controlled further fits.

(3) Two cases of aneurysm, one of left subclavian, which showed very little pressure symptoms; and another a huge aneurysm of the descending aorta where the condition was made out in a routine examination of a patient who came in with a history of fever and weakness. Almost all the vessels in the trunk and upper extremities were tortuous and pulsating, while the femoral pulse could not be made out.

## A few therapeutic experiments.

(1) A case of spleno medullary leukemia which was treated with benzol and X-Ray; slight improvement beyond which the patient could not improve.

(2) Two cases of asthma which were tried with cauterizing the septum nasi, with the idea of testing the theory of increased pulmonary blood pressure in asthma. The cases showed definite improvement and the treatment deserves further trial.

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

M. R. GURUSWAMI, B.A., M.B., C.M.,  
Second Physician.

## THIRD PHYSICIAN'S WARDS.

The following officers were in charge of these wards during the period noted against each :—

|                                                                          | From           | To             |
|--------------------------------------------------------------------------|----------------|----------------|
| 1. Major T. S. Ross, I.M.S. ...                                          | 1st Jan. 1917  | 30th Apr. 1917 |
| 2. M.R.Ry. Rao Sahib M. C. Koman<br>Avargal, L.M.S. ...                  | 1st May 1917   | 2nd June 1917  |
| 3. Major T. S. Ross, I.M.S. ...                                          | One day on     | 4th June 1917  |
| 4. M.R.Ry. Rao Sahib M. C. Koman<br>Avargal, L.M.S. ...                  | 5th June 1917  | 21st June 1917 |
| 5. M.R.Ry. M. R. Guruswami Mudali-<br>yar Avargal, B.A., M.B. & C.M. ... | 22nd June 1917 | 18th Sep. 1917 |

These wards were in my charge from 19th September to 31st December 1917.

|                                               | 1917.     | 1916.     | 1915.     |
|-----------------------------------------------|-----------|-----------|-----------|
| Remained in January 1917 ...                  | 18        | ...       | ...       |
| Total admissions ...                          | 501       | 485       | 536       |
| Discharged cured ...                          | 223       | 177       | 167       |
| Do. relieved ...                              | 123       | 198       | 217       |
| Do. otherwise ...                             | 120       | 87        | 103       |
| Died ...                                      | 38        | 27        | 43        |
| Remaining on 31st December 1917 ...           | 20        | 18        | 27        |
| Total death-rate ...                          | 6.3       | 5.6       | 7.72      |
|                                               | per cent. | per cent. | per cent. |
| Total death-rate excluding moribund cases ... | 4.3       | 4.08      | 5.56      |
|                                               | per cent. | per cent. | per cent. |

The principal diseases treated and their deaths were as follows :—

| Diseases.                         | Total treated. | Deaths. | Remarks.                            |
|-----------------------------------|----------------|---------|-------------------------------------|
| Tuberculosis of lungs ...         | 32             | ...     |                                     |
| Tubercular Peritonitis ...        | 4              | ...     |                                     |
| Tubercular Diarrhoea ...          | 2              | 4       |                                     |
| Ankylostomiasis ...               | 11             | 2       |                                     |
| Rheumatism ...                    | 80             | ...     |                                     |
| Valvular disease of the heart ... | 27             | 4       |                                     |
| Dysentery ...                     | 29             | ...     |                                     |
| Nephritis ...                     | 19             | 1       |                                     |
| Cancer of internal organs ...     | 9              | ...     | One case with Dysentery.            |
| Malaria ...                       | 56             | 3       |                                     |
| Pneumonia ...                     | 11             | 5       |                                     |
| Pleurisy ...                      | 2              | ...     |                                     |
| Kala-Azar ...                     | 4              | ...     |                                     |
| Beri beri ...                     | 1              | ...     |                                     |
| Cirrhosis of liver ...            | 12             | 1       |                                     |
| Anæmia ...                        | 13             | 4       |                                     |
| Enteric ...                       | 9              | ...     | All four died of Pernicious anæmia. |

## Report on 'Hookworm.'

| Localities.           | No. of patients treated. | Results.                      |
|-----------------------|--------------------------|-------------------------------|
| Poonamallee ...       | 2                        | Cured ... 8                   |
| Mount Road ...        | 1                        | Relieved ... 2                |
| Papanchavadi ...      | 1                        | Discharged otherwise ... Nil. |
| Thulukan Chatram ...  | 1                        | Died ... 1                    |
| Mylapore ...          | 1                        |                               |
| Cuddalore ...         | 1                        |                               |
| Hindupur ...          | 1                        |                               |
| Inavaram ...          | 1                        |                               |
| Residence unknown ... | 2                        |                               |
| Total ...             | 11                       | Total ... 11                  |

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

T. S. TIRUMURTI, B.A., M.B., C.M.,  
Third Physician.

## FOURTH PHYSICIAN'S WARDS.

I was in charge of the wards throughout the year except in January 1917, when Major C. A. F. Hingston, I.M.S., was in charge.

The following table shows the admissions for the year and the result of treatment :—

| Class.            | Remained. | Admitted. | Total. | Cured. | Relieved. | Discharged otherwise. | Died. | Remain- ing. |
|-------------------|-----------|-----------|--------|--------|-----------|-----------------------|-------|--------------|
| Europeans ...     | 7         | 148       | 155    | 89     | 42        | 12                    | 8     | 4            |
| Non-Europeans ... | 30        | 764       | 794    | 314    | 289       | 115                   | 38    | 20           |
| Total             | 37        | 912       | 949    | 403    | 331       | 127                   | 46    | 24           |

The following table shows the percentage of deaths during the year :—

| Class.            | Percentage including cases admitted moribund. | Total number of cases admitted moribund. | Percentage excluding cases admitted moribund. |
|-------------------|-----------------------------------------------|------------------------------------------|-----------------------------------------------|
| Europeans ...     | 5.16                                          | 8                                        | 3.22                                          |
| Non-Europeans ... | 4.53                                          | 18                                       | 2.26                                          |

## Principal diseases and their death-rate—

| Diseases.                                   | Total treated. |                |        | Deaths.    |                |        |
|---------------------------------------------|----------------|----------------|--------|------------|----------------|--------|
|                                             | Europeans.     | Non-Europeans. | Total. | Europeans. | Non-Europeans. | Total. |
| Benign tertian ...                          | 16             | 49             | 65     | ...        | ...            | ...    |
| Malignant tertian ...                       | 4              | 6              | 10     | ...        | ...            | ...    |
| Malaria. Mixed ...                          | 17             | 43             | 60     | 1          | 1              | 2      |
| Chronic ...                                 | ...            | 4              | 4      | ...        | 1              | 1      |
| Cerebral ...                                | 10             | 13             | 23     | 1          | 4              | 5      |
| Enteric fever ...                           | 3              | 24             | 27     | ...        | 5              | 5      |
| Kala-Azar ...                               | 4              | 40             | 44     | ...        | 2              | 2      |
| Pulmonary tuberculosis ...                  | 10             | 43             | 53     | 1          | ...            | 1      |
| Dysentery ...                               | 4              | 24             | 24     | ...        | 3              | 3      |
| Enteritis ...                               | 4              | 39             | 43     | ...        | 4              | 4      |
| Valvular disease of the heart ...           | 5              | 34             | 39     | 4          | 6              | 10     |
| Lobar Pneumonia ...                         | 4              | 27             | 31     | 1          | 1              | 2      |
| Nephritis ...                               | 2              | 27             | 29     | ...        | 3              | 3      |
| Cirrhosis of liver ...                      | 5              | 4              | 9      | ...        | ...            | ...    |
| Hepatitis ...                               | 1              | 6              | 7      | ...        | ...            | ...    |
| Diabetes Mellitus ...                       | ...            | 4              | 4      | ...        | ...            | ...    |
| Beri-beri ...                               | 3              | 15             | 18     | ...        | ...            | ...    |
| Bronchial asthma ...                        | 1              | 7              | 8      | ...        | ...            | ...    |
| Sand-fly fever ...                          | 3              | 48             | 51     | ...        | ...            | ...    |
| Gastritis ...                               | 1              | 16             | 17     | ...        | ...            | ...    |
| Anæmia ...                                  | ...            | 16             | 16     | ...        | 1              | 1      |
| Ankylostomiasis ...                         | 2              | 1              | 3      | ...        | ...            | ...    |
| Sciatica ...                                | 1              | 15             | 16     | ...        | 2              | 2      |
| Hemiplegia and cerebral Hæ-<br>morrhage ... | ...            | 7              | 7      | ...        | ...            | ...    |
| Filaria ...                                 | 1              | 3              | 4      | ...        | 1              | 1      |
| Uræmia ...                                  | ...            | ...            | ...    | ...        | ...            | ...    |

## Report on 'Hookworm.'

**Ankylostomiasis.**—Sixteen cases of Ankylostomiasis were admitted into the above wards this year and all of them occurred among non-Europeans.

Occupation of these patients—

|                |   |                   |   |
|----------------|---|-------------------|---|
| Coolies ...    | 5 | Compositor ...    | 1 |
| Ryots ...      | 4 | Gumasta ...       | 1 |
| Goldsmith ...  | 1 | Contractor ...    | 1 |
| Beggar ...     | 1 | No occupation ... | 2 |
| Localities—    |   |                   |   |
| Tiruvallur ... | 1 | Georgetown ...    | 1 |
| Perambur ...   | 1 | Villivakkam ...   | 1 |
| Pattur ...     | 1 | Villipuram ...    | 1 |
| Kumbakonam ... | 1 | Pallavaram ...    | 1 |
| Madavaram ...  | 1 |                   |   |

The remaining from different mufassal districts.

## Result of treatment—

|          |     |     |   |                      |     |     |   |
|----------|-----|-----|---|----------------------|-----|-----|---|
| Cured    | ... | ... | 9 | Discharged otherwise | ... | ... | 2 |
| Relieved | ... | ... | 4 | Died                 | ... | ... | 1 |

**Kala-Azar.**—Twenty-seven cases of Kala-Azar were admitted into the wards. The diagnosis was made generally from clinical picture of the cases and in several of them from the presence of Leishman Donovan bodies in the peripheral circulation. Some of these patients were treated with intravenous injection of two per cent tartar emetic in normal saline solution, beginning with a dose of 2 c.c. and gradually increasing to several injections of 10 c.c. Most of the patients so treated made rapid improvement—fever dropping to normal after a few injections and reduction in the size of the enlarged spleen taking place gradually. Complete disappearance of the spleen was rare, though all the patients put on flesh and were restored almost to normal health.

**Filariasis.**—From favourable results observed by me in the treatment of Filariasis by intravenous injection of novarseno benzol, two cases with the history of frequent attacks of filarial lymphangitis were so treated in the wards with equally favourable results. A case of chyluria was also treated in the same manner (where microfilaria were found in the urine and blood) urine became clear within a week and although it continued to remain so, a second injection was given as a precautionary measure two months later. Although six months have elapsed since the first injection was given the chyluria has not reappeared.

**Salvarsan in brain syphilis.**—A patient who was suffering from spastic paraplegia with defective vision and arterio-sclerosis was admitted into the wards after having received that morning an intravenous injection of 45 grams of arseno-benzol. He died soon after admission. Post-mortem examination revealed that the cause of death was softening of the brain on the left occipital lobe which was probably brought on rapidly by the action of the drug on the affected area of the brain.

**Hysteria.**—Involvement of the higher centres.

1. A Hindu student, aged 17 years, of very neurotic temperament, was admitted on the 13th October 1917 for pain in the large joints and convulsive fits. In the hospital it was noticed that he suffered daily once or twice from convulsive seizures in which the limbs were violently jerked about for 5 or 6 minutes followed by a condition of catalepsy characterized by placidity of the limbs, calmness of the face and deep respiration lasting from 4 to 6 hours. On waking up from the trance, he complained of some pain in all the large joints, especially in the shoulders and elbows and difficulty of speech and of swallowing. Salicylates, Bromides, Valerianates and persuasion having failed, chloroform was administered by inhalation until deep narcosis was produced. Thereafter the patient made an uninterrupted recovery and was discharged cured two weeks after admission.

2. A Sinhalese chauffeur, aged 25 years, of strong muscular development, was admitted on the 1st September 1917 for loss of speech, pain in the throat and inability to protrude the tongue and to swallow solid food. The case was diagnosed as 'hysterical aphonia.' He was chloroformed and his tongue drawn out with a pair of forceps. On recovering from the effects of chloroform, he was able to articulate a few words at a time. He was put again under deep chloroform narcosis on the fourth day. This had the effect of causing the complete disappearance of all the manifestations mentioned above and the patient was discharged cured on the 11th September 1917.

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

M. C. KOMAN, L.M.S.,  
Fourth Physician.

## FIRST SURGEON'S WARDS.

These wards were in my charge throughout the year except for one month when I was on leave.

The following table shows the number of patients treated :—

| Class.        | Remained | Admitted. | Total. | Cured. | Relieved. | Discharged otherwise. | Died. | Remain- ing. |
|---------------|----------|-----------|--------|--------|-----------|-----------------------|-------|--------------|
| Europeans     | 13       | 258       | 271    | 189    | 83        | 28                    | 6     | 15           |
| Non-Europeans | 44       | 979       | 1,023  | 566    | 177       | 150                   | 39    | 61           |
| Total         | 57       | 1,237     | 1,294  | 745    | 260       | 178                   | 45    | 76           |

**Mortality.**—3.47.

The following table shows the operative work done :—

| Class.        | Remained | Performed during the year. | Total. | Cured | Relieved. | Discharged otherwise. | Died. | Remain- ing. |
|---------------|----------|----------------------------|--------|-------|-----------|-----------------------|-------|--------------|
| Europeans     | 7        | 308                        | 315    | 279   | 16        | 2                     | 2     | 11           |
| Non-Europeans | 31       | 882                        | 913    | 710   | 102       | 31                    | 23    | 37           |
| Total         | 38       | 1,190                      | 1,228  | 989   | 118       | 33                    | 25    | 48           |

**Mortality.**—2.04 per cent.

Number of moribund cases admitted during the year: Europeans 2, non-Europeans 15, total 17.

Number of moribund cases discharged: European 1, non-Europeans 3: total 4.

Amongst the most interesting cases were the following :—

**Abdominal operations.**

(a) *Appendicitis.*—There were 36 operations for appendicitis, in 31 of which the appendix was removed; the other 5 were suppurative in which the appendix could not be found without increased risk to the patient. All the patients made good recoveries. One of the suppurating cases was interesting. The patient was a Swiss doctor who had arrived in India five weeks prior to admission. He was to all appearances in good health when suddenly symptoms of acute appendicitis developed which rapidly went on to suppuration. Two stones were found in the abscess cavity, each of them the size of a large pea and faceted. On chemical examination, they were found to consist almost entirely of calcium phosphate. No symptoms of appendix trouble were noticed by the patient previous to this attack.

(b) *Carcinoma of caecum and colon.*—This had been diagnosed as a case of tubercular caecum and even at the operation the appearance was similar to that disease. The caecum, lower end of ileum, and the greater part of the ascending colon were involved forming a large mass. No glands were involved. Complete resection with lateral anastomosis was performed. On pathological examination, the growth proved to be an adeno-carcinoma.

The patient made a good recovery and when seen a year later was doing well. This is the first occasion on which I have met with an undoubted case of carcinoma of the bowels in an Indian situated between the stomach and the rectum, although I have seen many in both of the latter situations.

(c) *Tuberculosis of caecum and ascending colon.*—Four operations, all for advanced conditions; two treated by complete excision and two by lateral anastomosis, all of whom did well.

(d) *Mesenteric cyst.*—This was met with in a man aged 55, and 136 ounces of brownish fluid with some caseating material were evacuated. The patient left hospital about four months later with a small sinus still persisting.

(e) *Carcinoma of undescended testis.*—This patient was admitted with a tumour the size of a man's head, arising from an undescended testis and situated partly within the abdomen and partly between the muscular layers of the abdominal wall. It looked exactly like a haematocele and was removed with much difficulty. The patient died from shock two days later.

**Pathological report.**—Spheroidal-celled carcinoma. Had the real nature of the disease been known no operation would have been attempted.

(f) **Liver abscess.**—There were eleven operations for liver abscess, all by the open method, with one death. The case which ended fatally was an abscess in the left lobe containing 25 ounces of pus, and of long duration, in an emaciated cooly aged 50. He died eight days after operation from sheer exhaustion.

Eight of the abscesses occurred in the left lobe, and only in the case of one had emetine been made use of in the treatment of the preceding dysentery, and then not in sufficient amount to be of any use.

The other abdominal operations were for dilated stomach, gall stones, intestinal obstruction, etc., and have no special interest.

**Hernia.**—Sixty operations.

(a) **Inguinal.**—Reducible 46, irreducible 1, strangulated 12 (with 4 deaths).

(b) **Ventral** 1.

**Operations on Bladder** (Cystotomy) included two for enlarged prostate and two for vesical calculus; all successful.

One of the latter cases was transferred from the medical wards where he was under treatment for advanced muscular dystrophy. The operation was performed with much misgiving but was absolutely necessary owing to the intense agony which the stone gave rise to. The bladder was sutured and the wound healed by first intention, a result which, taking into consideration the condition of the patient, was as satisfactory as it was unexpected.

**Carcinomata.**—Several operations were performed for removal of carcinomata, chiefly of penis, breast and tongue.

Unfortunately the great majority of the carcinomata seen at the hospital are already past the stage of operation. This remark applies specially to cancers of the cheek and tongue, which, particularly the former, are intensely malignant.

On the contrary comparatively few cases of cancer of the penis are inoperable, even though the disease may extend almost to the pubis.

I have never yet seen a local recurrence after any case of cancer of the penis in which I have performed complete amputation, but have had recurrences after partial amputation, which operation I have now entirely given up. In cases of cancer of the cheek even after very free removal early recurrence is the rule.

One of the patients successfully operated upon this year for cancer of the tongue also suffered from tertiary syphilis and advanced diabetes, not to mention pyorrhoea, for which all his teeth had to be removed.

Cuprase was tried in two cases of inoperable carcinoma with most disappointing results.

**Cystic tumour of scrotum (Guinea-worm).**—A patient, aged 18, was admitted with a tense cystic swelling in the scrotum the size of a hen's egg, which was quite unconnected with the testis or wall of the scrotum. He could give no history as to its development or growth.

After removal the cyst was opened and found to contain five guinea-worms. There was no sign of guinea-worm elsewhere.

**Hydroceles and Haematoceles.**—One hundred and five operations, usually incision with eversion of the sac. There was one death.

**Elephantiasis scroti.**—Sixteen, all cured. The number of cases of this disease is steadily decreasing and those met with are much smaller than used formerly to be the case.

This remark applies to most of the so-called "tropical" surgical diseases, which seem to be gradually disappearing.

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

W. J. NIBLOCK, Lieut.-Col., I.M.S.,  
First Surgeon.

## SECOND SURGEON'S WARDS.

These wards were in charge of the following officers during the year for the periods marked against their names:—

1. Major A. Chalmers, I.M.S., from 1st to 16th January 1917.
2. " C. A. F. Hingston, I.M.S., from 17th January to 7th June 1917.
3. " C. H. L. Palk, I.M.S. (Retired), from 8th January to 9th June 1917.
4. Lieut.-Col. E. M. Ellington, I.M.S., from 10th to 28th June 1917.
5. Major J. J. Robb, I.M.S., from 29th June to 31st December 1917.

The following table shows the number of patients treated:—

| Class of patients. | Remained. | Admitted. | Total. | Cured. | Relieved. | Discharged otherwise. | Died. | Remaining. |
|--------------------|-----------|-----------|--------|--------|-----------|-----------------------|-------|------------|
| Europeans          | 7         | 155       | 162    | 103    | 31        | 16                    | 5     | 7          |
| Non-Europeans      | 36        | 820       | 856    | 408    | 191       | 144                   | 58    | 57         |
| Total              | 43        | 975       | 1,018  | 511    | 222       | 160                   | 61    | 64         |

**Mortality.**—5.9 including 18 moribund cases.

The following table shows the operative work done:—

| Class of patients. | Remained. | Performed during the year. | Total. | Cured. | Relieved. | Discharged otherwise. | Died. | Remaining. |
|--------------------|-----------|----------------------------|--------|--------|-----------|-----------------------|-------|------------|
| Europeans          | 2         | 121                        | 123    | 95     | 12        | 6                     | 2     | 8          |
| Non-Europeans      | 20        | 677                        | 697    | 496    | 112       | 28                    | 29    | 32         |
| Total              | 22        | 798                        | 820    | 591    | 124       | 34                    | 31    | 40         |

The total number of operations performed is 912 including 92 secondary operations.

**Mortality.**—3.8 per cent.

The following table shows the important operations done during the year:—

| Diseases.                                   | Total number operated. | Cured. | Relieved. | Discharged otherwise. | Died. | Remaining. |
|---------------------------------------------|------------------------|--------|-----------|-----------------------|-------|------------|
| Tumours (including 7 malignant)             | 16                     | 9      | 8         | ..                    | 3     | 1          |
| Varicose veins including Haemorrhoids       | 28                     | 28     | ..        | ..                    | ..    | 2          |
| Fracture wiring                             | 1                      | 1      | ..        | ..                    | ..    | ..         |
| Amputations                                 | 19                     | 12     | 1         | 1                     | 1     | 4          |
| Mastoid and middle ear disease              | 1                      | 1      | ..        | ..                    | ..    | ..         |
| Stricture urethra                           | 14                     | 4      | 6         | 4                     | ..    | 1          |
| Hydrocele                                   | 48                     | 43     | 3         | ..                    | 2     | 1          |
| Haematocoele                                | 1                      | 1      | ..        | ..                    | ..    | ..         |
| Elephantoid scrotum                         | 10                     | 1      | 1         | ..                    | ..    | 1          |
| Liver abscess                               | 5                      | 4      | ..        | ..                    | 1     | ..         |
| Inguinal Hernia (including 9 strangulated). | 32                     | 23     | 1         | 1                     | 6     | 1          |
| Gastro-enterostomy                          | 1                      | 1      | ..        | ..                    | ..    | ..         |
| Appendicitis                                | 4                      | 4      | ..        | ..                    | ..    | ..         |
| Laparotomy                                  | 4                      | 1      | 1         | ..                    | 2     | ..         |
| Carcinoma Breast                            | 2                      | 1      | ..        | ..                    | ..    | 1          |
| Ovariectomy                                 | 1                      | 1      | ..        | 1                     | ..    | ..         |
| Ventral Fixation of uterus                  | 1                      | ..     | ..        | ..                    | ..    | ..         |
| Varicocele                                  | 3                      | 3      | ..        | ..                    | ..    | ..         |
| Intestinal obstruction                      | 2                      | 2      | ..        | ..                    | ..    | ..         |
| Carcinoma Penis                             | 4                      | 4      | ..        | ..                    | ..    | ..         |

**Intussusception.**—A European male child aged 6 months. This child was admitted with a diagnosis of intussusception. On palpating abdomen a distinct sausage shaped tumour could be felt and the mother gave a history of the child passing some blood and slime. On my opening the abdomen intussusception was found in the ileum and reduced appendix was elongated and inflamed and removed. Child made a very good and uneventful recovery. I have not removed an appendix in so young a child before; the case is interesting in this respect.

**2. Gastro-Enterostomy.**—A Hindu male, aged 30 years, gave a history of severe pain 2 or 3 hours after food, relieved by taking food and also disturbed at night by pain also relieved by taking food. Good many adhesions were found on posterior wall of stomach and so there was difficulty in getting sufficient surface to do the anastomosis. The patient made an excellent recovery and complained of no pain whatever afterwards and he was discharged feeling quite well.

**3. Intestinal Obstruction.**—A Hindu male, aged 37 years, was admitted with a history of constipation, intense pain in the abdomen and persistent vomiting. Pulse 120, rapid feeble. Temperature 98 F. It was diagnosed as intestinal obstruction. On opening the abdomen, the appendix was found much inflamed and thickened. The tip was adherent to the lower end of the ileum forming a loop through which the bowel had become constricted and was very dark in colour but not gangrenous. The stricture was released and the appendix was removed. The patient recovered without any trouble.

**4. Strangulated Hernia.**—A Hindu male, aged 40 years, was admitted with symptoms of 'Acute abdomen' and with a tense, tender, hard, irreducible swelling in the right inguinal region. The abdomen was acutely distended and on opening a portion of transverse colon and a large piece of omentum were found in the sac. The omentum was cut off and there was great difficulty in returning the gut owing to the distention of the abdomen which could only be done by raising the patient's legs. The patient was discharged cured.

**5. Congenital Hernia.**—A Hindu male child, aged 5 years, was admitted with a soft reducible swelling about the size of an orange in the right inguinal region, with expansile impulse. The external ring admitted two fingers. The sac on opening was found to contain lower end of ileum, caecum and appendix. The appendix was removed, the sac was separated, twisted and sutured. The child made a good recovery.

**6. Carcinoma Breast.**—An Indian Christian female, aged about 60 years, was admitted with foul ulcerated hard tumour, involving the whole of the right breast with a thin sanious discharge from the ulcerated portion. The skin was adherent. The nipple was retracted. The glands were slight involved. The general condition of the woman on admission was rather low for operation with a temperature of 101 in the evenings. After about a week's stay in the hospital, the temperature came to normal and she was operated upon. The insertion of pectoralis major was cut through and sternal and pectoral portions of the muscle were separated and pectoral portion completely removed. The glands in the axilla were completely taken away.

**7.** The two deaths shown against the 48 Hydroceles were from a suppurating Hydrocele and suppurating chylocele and these were not during my time.

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

J. J. ROBB, Major, I.M.S.,  
Second Surgeon.

The venereal wards were opened on 3rd November 1917.

#### Admissions—

|                    | Europeans. | Non-Europeans. | Total. |
|--------------------|------------|----------------|--------|
|                    | 5          | 54             | 59     |
| <b>Discharges—</b> |            |                |        |
| Cured ... ..       | 2          | 6              | 8      |
| Relieved ... ..    | 3          | 22             | 25     |
| Otherwise ... ..   | ...        | 5              | 5      |
|                    |            |                | 88     |
| Remaining ... ..   | ...        | ...            | 21     |
|                    |            |                | 59     |

During the period under report, special treatment was carried out for Gonorrhoea and Infective Granuloma.

**Gonorrhoea—In the female.**—In the main the treatment adopted was that recommended by Watson. "After a prolonged sitz bath, containing about an ounce of kerol, the vagina is carefully and gently swabbed with 1 in 2,000 biniodide of mercury or 1 in 100 lactic acid. Care must be taken to remove all trace of the mercurial antiseptic, and the next procedure is, therefore, to swab well with plain sterile water and then dry with wool. Colossal procedure is, therefore, to swab thoroughly applied to each infected area, the urethra, cervix and every reddened patch or pocket receiving careful treatment with wool wrapped probes dipped in the same solution, or by means of blunted hypodermic needles where probes cannot enter. The parts are again dried and the cervix when patent lightly packed with lactic bacillus powder, a bacillus pessary inserted high up in the vagina and the patient returned to bed.

"This routine is carried out night and morning for three or four days, when the condition will be found greatly to have improved. We then rely on lactic acid 1 in 100 as the only antiseptic for swabbing and the powder and pessaries as before. The silver preparation is continued for the urethra and all vulvar recesses harbouring Gonococci, and the cervix and vagina, as a rule, only receive lactic acid swabbing and the powder and pessary."

This treatment was carried out in the period under report with some modifications. Speaking generally, there are indications that the treatment is very effective in simple cases of Gonorrhoea where the disease has not spread to the uterus and tubes.

The lactic acid bacilli pessaries we were using were made at the Guindy Institute as follows:—

Lactose Broth of 2 per cent strength is inoculated with the lactic acid producing organisms, *B. Bulgaris* and *Streptothrix Dhahi* separately and incubated for three or four days at 42° C. The rich cultures thus obtained are mixed up with sugar of milk to a doughy consistency and cast into small pessaries in special moulds. They are then dried at 42° C in the incubator for two days.

**In the male.**—The local treatment of the urethra with injections of a 0.5 per cent solution of Protargol four times daily has yielded very satisfactory results.

**Infective Granuloma (*Granuloma Pudendi*).**—Two cases of this disease were treated in the wards in the period under report. Both of them were very advanced cases and the disease had existed for over a year. The routine treatment adopted was by means of intravenous injections of tartar emetic. The injections were first started with 2 c.c. of a 1 per cent solution given on alternate days. The dose for each succeeding injection was gradually increased, the amount of increase depending on the reaction exhibited by the patient. This was continued till the dose of 5 c.c. of the 1 per cent solution was reached. The injections were then continued, beginning with 8 c.c. of the 2 per cent solution, the subsequent doses being gradually increased. As a rule, about 10 injections were required to obtain a cure; and by this time the ultimate dose reached was 5 c.c. of the 2 per cent solution. The ulcers were dressed with gauze soaked in a 1 per cent solution of tartar emetic.

There was one interesting point worthy of note, that if the injections were discontinued before complete cure took place, in a few days, fresh eruptions and ulcerations appear at the margins of the old. This is probably because as the curative dose for tartar emetic is very high the antimony has always to be kept circulating in the blood stream to effect a cure.

**Vaccines.**—Gonococcus vaccine was only used in one case of arthritis of the wrist. The result was very encouraging.

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

J. J. ROBB, Major, I.M.S.,  
Second Surgeon.

## THIRD SURGEON'S WARDS.

Dr. Nedungadi was in charge of these wards from the beginning of the year till the 7th August when I took charge.

The following table shows the number of patients treated during the year 1917:—

| Class.            | Remained. | Admitted. | Total. | Cured. | Relieved. | Discharged otherwise. | Died. | Remain- ing. |
|-------------------|-----------|-----------|--------|--------|-----------|-----------------------|-------|--------------|
| Non-Europeans ... | 48        | 1,042     | 1,090  | 672    | 219       | 104                   | 53    | 42           |
| Europeans ...     | 11        | 162       | 173    | 126    | 26        | 12                    | 3     | 6            |
| Total ...         | 59        | 1,204     | 1,263  | 798    | 245       | 116                   | 56    | 48           |

**Mortality.**—4.43 per cent. This includes cases eighteen admitted moribund.

**Operative Work.**—The following table shows the operations done during the year including hypodermic injections and catheterisation:—

| Class.            | Remained. | Operated. | Total. | Cured. | Relieved. | Discharged otherwise. | Died. | Remain- ing. |
|-------------------|-----------|-----------|--------|--------|-----------|-----------------------|-------|--------------|
| Non-Europeans ... | 3         | 743       | 746    | 638    | 77        | 4                     | 30    | 27           |
| Europeans ...     | 3         | 132       | 135    | 123    | 6         | ...                   | 3     | 3            |
| Total ...         | 6         | 875       | 911    | 761    | 83        | 4                     | 33    | 30           |

**Mortality.**—3.28 per cent.

The following were the important or the interesting operations done during the year:—

**Tumours and Cysts.**—Twenty-two cases. Seventeen cured, three relieved and two died.

**Wiring of Fractures.**—Two cases. One was a compound fracture of the lower jaw and the other a transverse fracture of the patella. The jaw case was cured and the patella case is still in the hospital, the result being successful.

**Excision of Jaw.**—(Upper and Lower)—Three cases. All cured.

**Sequestrotomy.**—(For necrosis)—Twenty-three cases. Nineteen cured and four relieved.

**Major Amputations.**—Sixteen cases. Eleven cured, two relieved, two died and one remaining. One of these was a Hindu male, aged 18, with cavernous angioma of the arm. He was admitted on 6th January with a soft tumour on the inner aspect of the upper arm fluctuating but free from pain. It was thought to be a chronic abscess and opened, when profuse hæmorrhage (venous) started. On dissection the whole arm was found to be covered with a net work of very dilated and thin-walled veins. Some were so dilated that bleeding occurred on the slightest touch. This state of affairs existed as far as the middle of the axilla and finding it impossible to stop the bleeding, the arm was amputated at the shoulder. Many of the dilated veins had lots of phleboliths in them. The dilated plexus of veins had only the thinnest endothelial lining. The patient recovered uninterruptedly.

**Elevation of Depressed Fracture of the Skull.**—Two cases. One cured and the other died. One of these cases was a Hindu male, aged 30. He was brought to the hospital on the night of 7th October 1917 with a history of having been given a blow with a stick on the head. When I saw him on admission there was a large hæmatoma on the left parietal region with a wound. The patient was semi-conscious but had no definite symptoms of compression. On probing the wound I suspected fracture of the skull. The patient was taken to the Operation Theatre and under general anaesthesia a semi-circular flap was reflected. It was then found that a portion of the left parietal bone, a little more than a rupee size, was fractured into four pieces which were jammed into the membranes and brain. The membranes were badly torn and the brain surface was lacerated, pieces of brain matter escaping through the opening in the meninges. The fragments were elevated and removed one by one. The meninges and the brain surface were gently washed out with saline and the wound on the scalp was closed leaving a gauze drain. The patient was fully unconscious for three days after operation. He then gradually recovered consciousness and made an uninterrupted recovery. He was discharged from the hospital at the end of November when he was complaining of slight pain on the left arm and defective memory.

**Excision of Tongue for Cancer.**—Only one case was operated and discharged cured.

**Mastoid Abscess.**—Three cases. All cured.

**Amputation of Breast.**—Three cases. Two cured and one died.

**Abdominal Operations.**—(a) *Gastro-Enterostomy (posterior)*.—One case was operated for pyloric stenosis and dilated stomach and he is still in the hospital and doing well.

(b) *Colotomy*.—Two cases (one for inoperable cancer of the rectum and the other for strangulated hernia). One was relieved and the other died.

(c) *Entero-Anastomosis*.—Three cases. One cured and two died.

(d) *Appendicectomy*.—Seven cases. Five cured and two died.

Besides these, ten abdominal sections were performed for malignant tumours, intestinal obstructions and injuries to the abdomen.

One of these cases was a Hindu male, aged 20, and admitted on the 5th of August 1917 with a history of fever, vomiting and pain in the abdomen which was distended and tender. The pulse was very quick and feeble. Peritonitis was present. On opening the abdomen the small intestines were found protruding through the forearm of Winslow into the lesser sac which was distended, bluish in colour and looked exactly like a gangrenous stomach. The opening was enlarged and the gut was reduced. The patient became very bad after the operation and died on the same day.

**Hernia.**—(a) *Reducible Inguinal*.—Twenty-eight cases. Twenty-five cured, one relieved, one discharged otherwise and one died.

(b) *Irreducible Inguinal*.—Two cases. One cured and one is remaining and doing well.

(c) *Strangulated Inguinal*.—Eight cases. Six cured and two discharged otherwise.

**Abscess of the Liver.**—Three cases. All cured.

**Excision of Rectum** (for prolapse of the rectum).—Three cases. Two cured and one died.

**Stricture Urethra.**—(a) *Dilatation*.—Nineteen cases. Fourteen cured, four relieved and one died. The case that died had a large cancer of the bladder which was not suspected either from the history or signs and symptoms. The patient was dilated for stricture and died suddenly the next morning. On post-mortem examination it was found that he had a large cancer of the bladder blocking the entrance of the right ureter into the bladder. The ureter itself was hypertrophied and dilated and the right kidney was somewhat hydro-nephrotic.

(b) *External urethrotomy* (Wheelhose's operation).—One cured.

(c) *Cock's puncture*.—Two cases. One cured and the other died.

**Amputation of Penis** (complete).—Ten were done for carcinoma of penis, nine cured, one is still in the hospital.

**Hydrocele and Haematocoele.**—Seventy-five cases. Seventy cured, two relieved and three remaining in the hospital.

**Castration.**—Eight cases (for malignant growth of the cord and suppurating hæmatocoele). All cured.

**Elephantiasis Scrotum and Penis.**—Nineteen cases. One is still in the hospital and the rest cured.

**Ovariotomy.**—One cured.

Many cases of granuloma of the pudenda were treated with intravenous injections of tartar emetic, dressed with gauze soaked in solution of tartar emetic in saline and also exposed to X-ray with favourable results.

A large number of cases of gonorrhoeal rheumatism were treated with polyvalent gonococcus vaccine supplied from King Institute, Guindy, with good results.

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

W. J. FERNANDES, L.M.S.,  
Third Surgeon.

## X-RAY DEPARTMENT.

The X-Ray and Electro-Therapeutic department was under my charge throughout the past year assisted by Civil Assistant Surgeon M. Govindarajulu Nayudu. The total cases examined exceeded those of the previous year by thirty-four. Details of the work are shown in Table I.

The X-Ray installation is satisfactory. Some modern additions for up-to-date work which were indented for have not yet arrived.

X-Ray treatment for fibroid tumours of the uterus was carried out on several cases sent for that purpose by the Superintendent of Government Maternity Hospital.

It is now nearly three years ago that I suggested the appointment of a Junior Assistant Surgeon to the X-Ray and Electro-Therapeutic department in order that he might be thoroughly trained in this department of medical science and be capable of ultimately being in sole charge. I regret that my suggestion has not been given effect to. It is true that a Junior Assistant Surgeon has been posted to assist in this department during the year, but such frequent changes have occurred owing, apparently, to the exigencies of the service that it has been impossible to train any single officer thoroughly and efficiently. No less than six junior assistants have been working to this department at different times during the past year.

TABLE I.

## STATISTICS OF X-RAY DEPARTMENT.

Comparative statement for the past three years.

|                                    | 1915.        | 1916.        | 1917.        |
|------------------------------------|--------------|--------------|--------------|
| <b>I. Radiographic work—</b>       |              |              |              |
| (a) Skiagraphs ... ..              | 983          | 943          | 824          |
| (b) Screen examinations ... ..     | 77           | 22           | 41           |
| <b>II. Radio-therapeutic work—</b> |              |              |              |
| X-Ray exposures ... ..             | 337          | 350          | 438          |
| <b>III. Photographic work—</b>     |              |              |              |
| Photographs ... ..                 | 24           | 36           | 8            |
| <b>IV. Electro-medical work—</b>   |              |              |              |
| (a) Galvanisation ... ..           | 108          | 198          | 122          |
| (b) Faradisation ... ..            | 17           | 4            | 100          |
| (c) Electrolysis ... ..            | ...          | 15           | 5            |
| (d) Ionic medication ... ..        | 188          | 262          | 835          |
| (e) Cauterisation ... ..           | 20           | 63           | 61           |
| <b>Total ...</b>                   | <b>1,656</b> | <b>1,902</b> | <b>1,934</b> |

TABLE II.

Assistant Surgeons deputed to learn X-Ray work in 1917.

| Serial No. | Name.                             | Designation.                  | Period.          |                   |
|------------|-----------------------------------|-------------------------------|------------------|-------------------|
|            |                                   |                               | From.            | To.               |
| 1          | Natarajan ... ..                  | Assistant Surgeon, L.M.S. ... | 21 Dec. 1916     | 28 Feb. 1917      |
| 2          | F. J. Saldanha ... ..             | Do. ...                       | 1 Mar. 1917      | 2 July 1917       |
| 3          | K. B. Thyagarajan ... ..          | Do. ...                       | 8 July 1917      | 4 Sep. 1917       |
| 4          | Muhammad Abdul Kalique ... ..     | Do. ...                       | Only one day on. | 4 Sep. 1917       |
| 5          | Muhammad Ibrahim Sahib ... ..     | Sub-Assistant Surgeon, L.M.P. | 6 Sep. 1917      | 12 Sep. 1917      |
| 6          | K. S. Gopalaasami Ayyangar ... .. | Assistant Surgeon, L.M.S. ... | 9 Oct. 1917      | Still continuing. |

GOVT. GENERAL HOSPITAL, MADRAS,  
15th January 1918.

C. H. L. PALK, Major, I.M.S. (Retired),  
Officer in Charge of X-Ray Department.

## NOSE, THROAT AND EAR DEPARTMENT.

During the year under report, the total number of new cases treated was 682 and the number of operations performed 70. The following statement gives the different classes and sexes that were treated during 1917, with the average daily attendance, etc.:

| Total treated, 682. |         |             |               |         |         |             |               |              |         |             |               |               |         |             |               | Operations. |                | Total<br>average<br>daily<br>attende-<br>ance. |
|---------------------|---------|-------------|---------------|---------|---------|-------------|---------------|--------------|---------|-------------|---------------|---------------|---------|-------------|---------------|-------------|----------------|------------------------------------------------|
| Europeans.          |         |             |               | Hindus. |         |             |               | Muhammadans. |         |             |               | Other castes. |         |             |               | Europeans.  | Non-Europeans. |                                                |
| Male.               | Female. | Male child. | Female child. | Male.   | Female. | Male child. | Female child. | Male.        | Female. | Male child. | Female child. | Male.         | Female. | Male child. | Female child. |             |                |                                                |
| 48                  | 28      | 11          | 13            | 224     | 87      | 24          | 81            | 21           | ...     | 10          | 7             | 35            | 27      | 18          | 8             |             |                |                                                |

The department was managed by Mr. P. Parthasarathi Nayudu, the Senior Assistant Surgeon.

GOVT. GENERAL HOSPITAL, MADRAS,  
15th January 1918.

C. H. L. PALK, Major, I.M.S. (Retired),  
Senior Medical Officer.

## DENTAL DEPARTMENT.

|                                                                                                      | 1917. | 1918. | 1915. |
|------------------------------------------------------------------------------------------------------|-------|-------|-------|
| Number of admissions ... ..                                                                          | 2,134 | 2,198 | 2,450 |
| Europeans and Anglo-Indians ... ..                                                                   | 551   | 630   | 783   |
| Muhammadans ... ..                                                                                   | 78    | 67    | 106   |
| Hindus ... ..                                                                                        | 1,306 | 1,248 | 1,310 |
| Other castes ... ..                                                                                  | 199   | 253   | 251   |
| Adults—                                                                                              |       |       |       |
| Male ... ..                                                                                          | 1,552 | 1,560 | 1,772 |
| Female ... ..                                                                                        | 432   | 481   | 503   |
| Total ... ..                                                                                         | 1,984 | 2,041 | 2,275 |
| Children—                                                                                            |       |       |       |
| Male ... ..                                                                                          | 90    | 110   | 103   |
| Female ... ..                                                                                        | 60    | 47    | 72    |
| Total ... ..                                                                                         | 150   | 157   | 175   |
| Treatment carried out—                                                                               |       |       |       |
| Deciduous teeth and stumps extracted in treatment of retention, stomatitis, and dental caries ... .. | 179   | 220   | 212   |
| Permanent teeth and stumps extracted in treatment of the following conditions:—                      |       |       |       |
| Dental caries ... ..                                                                                 | 893   | 1,090 | 1,221 |
| Pyorrhea alveolaris, etc. ... ..                                                                     | 497   | 629   | 616   |
| Alveolar abscess, ulceration, etc. ... ..                                                            | 220   | 196   | 206   |
| Impacted lower third molars ... ..                                                                   | 25    | 40    | 28    |
| Abrasion and attrition ... ..                                                                        | 30    | 29    | 32    |
| Fractured and dislocated teeth ... ..                                                                | 5     | 17    | 10    |
| Irregular teeth ... ..                                                                               | 10    | 13    | 6     |
| Supernumerary teeth ... ..                                                                           | 4     | 4     | 5     |
| Extractions ... ..                                                                                   | 1,863 | 2,238 | 2,336 |
| Ethyl chloride was administered, chiefly by Captain Lynsdale, 151 times, and chloroform twice.       |       |       |       |
| Cocaine was injected in 10 cases.                                                                    |       |       |       |
| Fillings ... ..                                                                                      | 77    | 120   | 140   |
| Scaling ... ..                                                                                       | 188   | 259   | 192   |
| Incisions ... ..                                                                                     | 57    | 41    | 65    |
| Sequestra removed ... ..                                                                             | 8     | 3     | 8     |
| Wire splints for fractured jaws ... ..                                                               | 2     | 1     | ...   |
| Total operations ... ..                                                                              | 2,195 | 2,663 | 2,752 |
| Treatment of gums, alveolo-dental periosteum, etc. ... ..                                            | 337   | 246   | 231   |
| Advice ... ..                                                                                        | 33    | 38    | 62    |
| Examination or treatment refused by patients ... ..                                                  | 44    | 32    | 46    |

Capt. A. W. Lynsdale, I.S.M.D., has again assisted me this year, this being the fourth year during which he has voluntarily given his services both in the treatment of cases and in the administration of anæsthetics.

In the summer vacation, the work of the department was carried on during the month of June by Assistant Surgeon H. Venkat Rao.

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

C. F. BADCOCK, L.D.S., R.C.S. (Eng.),  
Dental Surgeon.

## OUT-PATIENT DEPARTMENT BY THE RESIDENT MEDICAL OFFICER.

The Out-Patient department was in charge of—

|                                                                             | From         | To           |
|-----------------------------------------------------------------------------|--------------|--------------|
| Captain A. J. H. Russell, M.A., M.D., B.Ch., I.M.S.                         | 1 Jan. 1917  | 18 Mar. 1917 |
| Civil Assistant Surgeon Dr. T. M. K. Nedungadi, L.M.S.                      | 19 Mar. 1917 | 20 Mar. 1917 |
| Major J. J. Robb, M.B., B.Ch., B.A.O., D.P.H., I.M.S.                       | 21 Mar. 1917 | 1 July 1917  |
| Captain A. J. H. Russell, M.A., M.D., C.H.B., I.M.S.                        | 2 July 1917  | 31 Oct. 1917 |
| Civil Assistant Surgeon R. R. William, B.A., M.B., C.M., M.B.O.S., L.R.C.P. | 1 Nov. 1917  | 14 Nov. 1917 |

I took over charge of the Out-Patient department on the 15th November 1917.

The following Assistant Surgeons and Sub-Assistant Surgeons were on the Out-Patient Staff during the year:—

## First Assistant to Resident Medical Officer.

|                                                           | From         | To                |
|-----------------------------------------------------------|--------------|-------------------|
| Civil Assistant Surgeon C. Abbu Mudaliyar, M.B., C.M.     | 1 Jan. 1917  | 5 Feb. 1917       |
| " F. J. Saldanha, L.M.S.                                  | 6 Feb. 1917  | 9 Feb. 1917       |
| " B. V. Narasimhayya, L.M.S.                              | 10 Feb. 1917 | 31 Aug. 1917      |
| " M. Seshadri Reddi, L.M.S.                               | 1 Sep. 1917  | 3 Sep. 1917       |
| " K. R. Thyagarajan, L.M.S.                               | 4 Sep. 1917  | 30 Sep. 1917      |
| " M. Seshadri Reddi, L.M.S.                               | 1 Oct. 1917  | 19 Nov. 1917      |
| Temporary Civil Assistant Surgeon R. Subbayya, M.B., B.S. | 15 Dec. 1917 | 30 Dec. 1917      |
| Civil Assistant Surgeon A. Rangaramanuja Ayya             | 31 Dec. 1917 | Still continuing. |

## Second Assistant to Resident Medical Officer.

|                                                                   | From                   | To           |
|-------------------------------------------------------------------|------------------------|--------------|
| Civil Assistant Surgeon C. Abbu Mudaliyar, M.B., C.M.             | 1 Jan. 1917            | 26 Jan. 1917 |
| " F. J. Saldanha, L.M.S.                                          | 27 Jan. 1917           | 28 Feb. 1917 |
| " N. S. Natarajan, L.M.S.                                         | 1 Mar. 1917            | 3 May 1917   |
| " F. J. Saldanha, L.M.S.                                          | 4 May 1917             | 2 July 1917  |
| " K. R. Thyagarajan, L.M.S.                                       | 3 July 1917            | 3 Sep. 1917  |
| " Muhammad Abdul Kalique, L.M.S.                                  | One day on 4 Sep. 1917 |              |
| Senior Grade Sub-Assistant Surgeon Muhammad Ibrahim Sahib, L.M.P. | 6 Sep. 1917            | 4 Oct. 1917  |
| Temporary Civil Assistant Surgeon K. S. Gopalswami, L.M.S.        | 5 Oct. 1917            | 31 Dec. 1917 |

## Clinical Instructors.

|                                                                     |
|---------------------------------------------------------------------|
| Civil Assistant Surgeon V. N. Venkataraman, B.A., M.B., B.S.        |
| Temporary Civil Assistant Surgeon P. Venkatakrishna Rao, M.S., B.S. |

## Sub-Assistant Surgeons.

|                                                                         | From         | To           |
|-------------------------------------------------------------------------|--------------|--------------|
| Senior Grade Sub-Assistant Surgeon P. R. Muttukumara Mudaliyar, No. 420 | 1 Jan. 1917  | 13 July 1917 |
| Senior Grade Sub-Assistant Surgeon Muhammad Ibrahim Sahib, No. 807      | 6 Sep. 1917  | 16 Nov. 1917 |
| First-grade Sub-Assistant Surgeon S. Sarangaseshu Nayudu, No. 632       | 1 Jan. 1917  | 7 June 1917  |
| " K. E. Sankaran, No. 694                                               | 8 June 1917  | 18 Sep. 1917 |
| " B. Subba Rao, No. 570                                                 | 14 July 1917 | 31 Dec. 1917 |
| " N. S. Subrahmanyam, No. 553                                           | 1 Jan. 1917  | 31 Dec. 1917 |

|                                              |  | From         | To           |
|----------------------------------------------|--|--------------|--------------|
| Third-grade Sub-Assistant Surgeon T. Kumara- |  |              |              |
| sawmi Mudaliyar, No. 815 (Reserve duty) ...  |  | 14 July 1917 | 12 Sep. 1917 |
| Fourth-grade Sub-Assistant                   |  |              |              |
| Surgeon P. M. Sridharan, No 992              |  |              |              |
| (Reserve duty) ...                           |  | 30 Jan. 1917 | 19 Feb. 1917 |
| " Muhammad Sultan                            |  |              |              |
| Muhammad Sahib, No.                          |  |              |              |
| 1086 ...                                     |  | 1 Nov. 1917  | 28 Nov. 1917 |
| " C. S. Mohan Rangam,                        |  |              |              |
| No. 1097 ...                                 |  | 11 Dec. 1917 | 31 Dec. 1917 |
| " P. Bhaskara Rao, No. 999.                  |  | 19 Dec. 1917 | 31 Dec. 1917 |

The following table shows the work done in the Out-Patient department during the year :—

|                | Total treated. |        |                        |                          |        | Average daily sick. |        |                        |                          |        | Opera-<br>tions. | Post-mortem ex-<br>amination. |
|----------------|----------------|--------|------------------------|--------------------------|--------|---------------------|--------|------------------------|--------------------------|--------|------------------|-------------------------------|
|                | Men.           | Women. | Male<br>chil-<br>dren. | Female<br>chil-<br>dren. | Total. | Men.                | Women. | Male<br>chil-<br>dren. | Female<br>chil-<br>dren. | Total. |                  |                               |
| Non-Europeans. | 37,982         | 8,125  | 4,809                  | 4,267                    | 55,183 | 827.98              | 20.24  | 88.76                  | 32.59                    | 459.57 | 4,555            | 2                             |
| Europeans ...  | 2,573          | 1,154  | 520                    | 433                      | 4,680  | 12.61               | 7.40   | 8.86                   | 2.42                     | 25.79  | 685              | ...                           |
| Total ...      | 40,555         | 9,289  | 5,329                  | 4,700                    | 59,873 | 840.59              | 27.74  | 97.62                  | 35.01                    | 485.36 | 5,240            | 2                             |

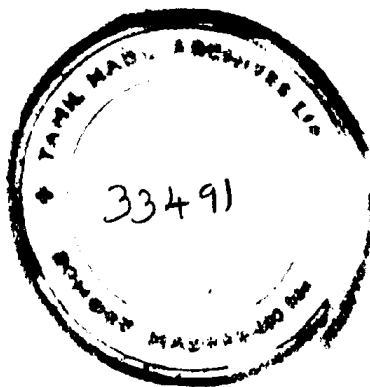
From this it will be seen that, while there was an increase of about 2,000 out-patients amongst Indians, the European out-patients were less than the year previous by 470. This decrease amongst Europeans and Eurasians 'or Anglo-Indians' has been continuing for the last three years.

The clinical teaching of students is done by the Resident Medical Officer and by Civil Assistant Surgeons V. N. Venkatraman, B.A., M.B., B.S., and P. Venkatakrishna Rao, L.M.S., both Assistants to Professors in Medical College, and the experience the students get here must be invaluable to them in after-life.

A separate venereal department was opened for out-patients on 30th October 1917 as per G.O. No. 391, dated 10th September 1917, and is doing good work. The weekly clinical lecture on venereal diseases has been continued throughout the year by the Second Surgeon.

GOVT. GENERAL HOSPITAL, MADRAS,  
31st January 1918.

T. M. K. NEDUNGADI, L.M.S.,  
Resident Medical Officer.



R  
L: 274.211.11 5 1917  
N1851