

GOVERNMENT GENERAL HOSPITAL
MADRAS

ANNUAL REPORT AND STATISTICS OF THE
GOVERNMENT GENERAL HOSPITAL, MADRAS
FOR THE YEAR 1918

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GOVERNMENT GENERAL HOSPITAL, MADRAS.

ANNUAL REPORT AND STATISTICS OF THE GOVERNMENT GENERAL HOSPITAL, MADRAS, FOR THE YEAR 1918.

ADMINISTRATION REPORT.

1. (a) Accommodation.—The hospital provides accommodation for 500 patients at present, and an additional ward for treatment of venereal cases is under construction.

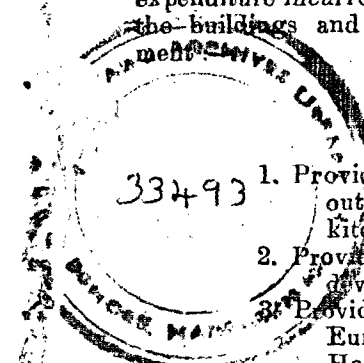
The distribution of beds with the average daily attendance is given in the statement below, the largest number of beds occupied on any one day being 480 on the 18th October 1918.

This abnormal increase was due to the prevalence of influenza in an epidemic form:—

1 General Hospital, Madras.	2 Number of beds available.				3 Average daily sick of in-patients.			
	Men.	Women.	Children.	Total.	Men.	Women.	Children.	Total.
Non-Europeans ...	218	64	16	298	223.23	63.97	18.02	311.12
Europeans ...	92	35	12	139	58.18	25.94	8.13	93.25
Common to both Europeans and non-Europeans.	...	...	...	* 63	...	...	...	...
Total ...	...	...	...	500	287.41	89.91	27.15	404.37

* Common to male tubercular and non-tubercular patients	...	...	...	20
Do. female do. do.	...	...	...	18
Female venereal patients	...	...	...	12
Common to both classes and sexes of infectious patients	...	...	...	11
Cells	...	...	...	2
Total	...	...	...	63

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



ORIGINAL WORKS.

1. Providing cooking range and carrying out certain improvements in Nurses' Kitchen ...
2. Providing six patent punkah disconnecting devices, General Hospital ...
3. Providing a door and sink in the European officers' quarters, General Hospital ...
4. Providing a flag staff to the General Hospital ...
5. Alterations to the bath rooms and lavatories in Nurses' quarters ...
6. Improvements to the Indian bath rooms in the General Hospital ...
7. Alterations and improvements to the venereal section of the General Hospital ...
8. Providing call bell installation in the Indian officers' quarters ...
9. Providing additional lights in the General Hospital ...

Amount of estimate.			Outlay to end of December 1918.		
RS.	A.	P.	RS.	A.	P.
820	0	0	818	0	0
140	0	0	120	0	0
345	0	0	341	0	0
80	0	0	46	0	0
2,040	0	0	787	0	0
1,040	0	0	303	0	0
875	0	0	666	0	0
304	0	0	239	0	0
250	0	0	228	0	0

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	Amount of estimate.			Outlay to end of December 1918.		
	RS.	A.	P.	RS.	A.	P.
10. Improvement latrine in the General Hospital ...	420	0	0	420	0	0
11. Converting No. 1, Resident Medical officer's quarters into quarters for Matron Superintendent and two nurses.	550	0	0	71	0	0
Total ...	6,870	0	0	4,039	0	0

REPAIRS.

1. Annual repairs during 1917-18 ...	4,540	0	0	1,861	0	0
2. Annual electric repairs during 1917-18 ...	3,557	0	0	1,666	0	0
3. Special repairs to the water tank ...	766	0	0	668	0	0
4. Special repairs to the General Hospital ...	7,807	0	0	7,682	0	0
5. Special repairs to the furnace in the laundry ...	30	0	0	31	0	0
6. Annual repairs during 1918-19 ...	6,800	0	0	7,380	0	0
7. Special repairs to No. 2, Resident Medical officer's quarters ...	750	0	0	225	0	0
8. Annual repairs to the Sergeant's quarters for 1918-19 ...	135	0	0	117	0	0
9. Annual repairs to No. 2, Resident Medical officer's quarters ...	350	0	0	8	0	0
10. Special repairs to No. 1, Resident Medical officer's quarters ...	630	0	0	310	0	0
11. Special repairs to the Clive Ward latrine and the fly proof shed attached to the European kitchen ...	990	0	0	407	0	0
Total ...	29,375	0	0	20,355	0	0

Details for item No. 2 (repairs)—

- (1) Providing electro lights in the cells and in the south-east corner of the contagious shed at the General Hospital, Madras—G.O. No. 680 W., dated 7th June 1918.
 - (2) Providing six patent punkah disconnecting devices at the General Hospital—G.O. No. 703 W., dated 12th October 1918.
 - (3) Providing call bell installation at the Indian officers' quarters, General Hospital—G.O. No. 438 W., dated 8th April 1918.
 - (4) P.E.R. to General Hospital for 1918-19.
 - (5) Annual punkah repair to General Hospital for 1918-19.
- The items (4) and (5) will be completed by the end of March 1919.
- The flag will be hoisted by the Hospital Sergeant on the following occasions:—
- (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.

The annual whitewashing of the buildings and out-houses was commenced as usual in the third week of May 1918 and completed towards the end of November 1918.

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

2. Total treated.—

(a) Out-patients—

(1) Number treated	Non-Europeans	...	57,032	
	Europeans	...	4,689	61,721
(2) Average daily sick	Non-Europeans	...	383.60	
	Europeans	...	25.32	408.92

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(b) In-patients—

(1) Remaining	Non-Europeans	...	267	
	Europeans	...	71	338
(2) Admissions	Non-Europeans	...	6,224	
	Europeans	...	1,760	7,984

(3) Results—

	Non-Europeans.	Europeans.	Total.
Cured	3,333	1,132	4,465
Relieved	1,289	83	1,619
Otherwise discharged	1,013	204	1,222
Died	540	82	622

The following statement gives the totals of in-patients (Europeans and non-Europeans) treated during the past ten years; an average for ten years is also shown for comparison with the figures for 1918:—

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.
1908	5,533	1,979	308.63	111.85	45,705	6,538	382.91	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	43.72
1911	5,705	2,086	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	291.89	103.33	56,958	5,900	409.77	27.41
1916	6,178	1,743	284.76	94.47	53,177	5,160	427.30	27.57
1917	5,673	1,958	278.70	93.90	55,183	4,690	459.57	25.79
1918	6,491	1,831	311.12	93.25	57,032	4,689	383.60	25.32

In-patients.—Comparing the figures for 1918 with those of 1917 it is observed that there was a decrease in the number of European, and increase in that of non-European admissions. The average daily attendance among the latter was greater than the previous years.

During the decennium ending 1918, the total admissions among non-Europeans steadily increased in the first three years (1908 to 1910) and fluctuated from 1911. The admissions in 1918 rose higher than previous ten years, the number of these admissions, viz., 6,491, being higher than 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 1918 being 1,831 which is below the average of ten years.

Average daily sick.—From a reading of the figures from 1908, it is observed that the non-European average steadily though slightly increased until 1914 from which year it decreased and recorded the smallest number in 1917. The year 1918 gives the highest figures in the record for the past three years. The remarks made about the European admissions apply also to the average daily sick which is below the average of ten years and the smallest average ever recorded.

Out-patients.—The number of non-European admissions increased during 1918 when compared with 1917, and is over the average of the past ten years, while the European admissions show a slight decrease in 1918, and is below the average of ten years.

The average daily attendance of non-Europeans show an yearly increase except in 1918 but the European average decreased yearly.

The following statements show the number of European and non-European admissions during each month of the past ten years :—

Non-Europeans.

Number of years.	Remaining for the year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1908	311	447	462	430	380	473	421	410	462	406	490	427	412	5,533
1909	290	440	427	464	407	480	444	481	452	459	457	420	418	5,629
1910	309	449	417	418	376	520	491	469	483	441	476	511	450	5,818
1911	262	431	376	139	370	495	507	450	512	412	446	498	469	5,705
1912	292	545	546	553	532	588	501	528	454	423	437	427	444	6,270
1913	305	468	421	414	435	473	399	421	437	394	422	492	498	5,579
1914	293	479	431	504	512	530	487	554	471	479	503	456	480	6,179
1915	266	441	388	439	430	485	536	493	451	480	479	435	437	5,740
1916	249	437	461	471	506	561	469	547	565	493	447	518	452	6,178
1917	229	485	424	539	443	437	427	490	415	458	469	429	453	5,673
1918	267	456	460	487	521	522	516	379	482	431	684	497	529	6,491

Europeans.

Number of years.	Remaining for the year.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
1908	85	168	174	167	149	156	135	151	181	182	177	151	103	1,379
1909	73	159	142	149	147	166	166	151	172	168	162	169	105	1,946
1910	65	153	141	153	136	157	153	160	207	212	193	167	129	2,638
1911	89	164	163	158	133	181	161	182	192	156	172	159	149	2,666
1912	101	178	157	168	180	169	169	155	174	153	162	138	123	2,622
1913	81	194	134	150	171	168	172	146	160	162	186	173	160	2,057
1914	108	195	153	175	181	178	135	172	191	175	176	137	151	2,127
1915	85	174	135	149	154	139	162	164	169	141	125	137	101	1,323
1916	65	135	125	144	119	156	113	171	169	149	130	145	126	1,743
1917	79	165	135	150	123	145	120	150	148	136	117	123	97	1,688
1918	71	128	120	126	155	148	118	155	117	172	250	139	132	1,831

3. Mortality.—The following table shows the number of deaths during 1917 and 1918 for each disease together with the percentage :—

Diseases.	Non-Europeans.				Europeans.			
	1917.		1918.		1917.		1918.	
	Deaths.	Percentage of deaths to total treated.	Deaths.	Percentage of deaths to total treated.	Deaths.	Percentage of deaths to total treated.	Deaths.	Percentage of deaths to total treated.
1 Cholera	...	...	11	42.31	...	...	1	33.33
2 Dysentery	8	4.84	21	10.77	...	...	2	2.56
3 Enteric fever	3	7.31	5	15.15	3	3.81	...	...
4 Gonorrhoea	...	...	1	1.12	1	3.45	...	...
5 Kala-Azar	6	14.62	6	14.63	1	4.35	4	20.00
6 Leprosy	...	...	...	...	...	...	1	1.20
7 Malaria	7	2.89	12	3.17	...	...	...	...
8 Plague	...	...	...	...	...	...	...	...
9 Pneumonia	29	21.94	38	33.92	6	16.67	7	22.58
10 Pyrexia of uncertain origin	5	0.85	11	11.60	2	1.85	3	3.45
11 Rheumatic fever and rheumatism	...	...	...	...	...	...	1	3.23
12 Small-pox	...	...	...	...	...	...	...	...
13 Syphilis (primary and secondary)	1	0.81	...	...	1	4.10	...	...
14 Tubercle of the lungs	13	8.02	29	15.34	5	13.16	3	7.14
15 Other tubercular diseases	12	10.81	5	5.10	1	7.69	1	9.08
16 All other infective diseases	24	12.76	113	15.31	2	1.81	23	5.06
17 Sepsis	5	10.41	13	19.65	1	16.66	...	...

Diseases.	Non-Europeans.				Europeans.			
	1917.		1918.		1917.		1918.	
	Deaths.	Percentage of deaths to total treated.	Deaths.	Percentage of deaths to total treated.	Deaths.	Percentage of deaths to total treated.	Deaths.	Percentage of deaths to total treated.
18 Diabetes	4	8.51	10	17.54	...	...	...	...
19 Scurvy	...	...	...	...	...	...	...	...
20 } New growth	...	...	4	14.28	...	...	...	...
21 } Non-Malignant.	...	...	...	...	...	...	...	...
22 } Malignant	...	...	...	...	...	...	...	...
23 All other general diseases	4	2.19	4	4.25	1	3.12	...	...
24 Diseases of the nervous system	2	3.92	5	4.63	1	4.17	...	...
25 Do. eye	...	...	...	...	...	...	...	...
26 Do. ear	...	...	...	...	...	...	...	...
27 Do. nose	...	...	3	10.71	...	...	...	...
28 Do. circulatory system	20	0.99	19	10.49	1	2.13	2	4.65
29 All diseases of the respiratory system except pneumonia and tubercle of the lungs.	8	3.35	30	9.93	10	6.45	11	10.00
30 Dyspepsia	2	11.11	1	2.85	...	...	...	...
31 Diarrhoea	3	5.71	5	14.70	1	9.09	...	...
32 Abscess of the liver	4	13.79	5	15.15	1	33.33	1	10.00
33 All other diseases of liver	12	11.01	21	17.79	2	40.00	1	7.69
34 Appendicitis	...	...	3	13.63	...	...	...	...
35 All other diseases of the digestive system.	62	6.21	77	7.73	10	4.29	14	5.20
36 Inflammation and suppuration of lymph glands.	2	1.94	2	1.57	...	...	1	2.17
37 Goitre	...	...	...	...	...	...	...	...
38 Bright's disease	2	11.77	9	25.00	...	...	4	44.41
39 All other diseases of the urinary system.	9	3.70	7	3.43	3	6.67	1	2.27
40 Hydrocele	4	1.90	2	0.94	...	...	...	...
41 Other diseases of the generative system.	3	1.42	3	1.59	2	4.16	1	3.33
42 Diseases of the organs of locomotion.	11	4.06	8	3.36	2	3.64	...	...
43 Diseases of the connective tissues	1	0.91	7	8.30	...	...	...	...
44 Ulcers	1	1.61	6	3.75	...	...	1	4.35
45 Other diseases of the skin	9	2.55	12	6.55	2	2.86	1	3.12
46 All other local diseases	5	1.55	8	4.23	...	...	1	1.49
47 Injuries (general and local)	24	11.28	23	7.74	3	14.29	1	4.76
48 } Poisoning { By opium	...	...	1	5.55	1	50.00	...	...
49 } By other poisons	2	20.00	...	...	...	...	...	...
50 } Labour { Normal	...	...	...	...	...	...	...	...
51 } Abnormal	...	...	...	...	...	...	...	...
Total	304	5.36	540	8.32	62	3.67	82	4.48

8,322 in-patients were treated during the year of which 622 died. This gives a death-rate of 74.74 per mille as compared with 49.72 per mille for 1917. The death-rate among Europeans was 44.78, and for non-Europeans, 83.19.

The register of moribund cases gives a total of 191 admissions during the year. Deducting this number from the total treated, the death-rate for the hospital is 58 per mille as compared with 32.46 per mille for 1917.

Deaths from Septic Causes.—

	Number of cases.
Extravasation of urine	1
Tetanus	11
Sapraemia and septicæmia	52
Peritonitis	16
Hydrophobia and Pyæmia	16
Total	96

Ninety-six deaths from sepsis were recorded as compared with fifty-five in 1917. these, two cases acquired this disease in hospital and ninety-four before admission.

The following table shows the total number of deaths for the last three years, the death from septic cases and the number of cases admitted and discharged in a moribund condition. The percentage of mortality for the year was 7.47 :—

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.	
1916 ...	377	4.76	114	8	3	47	3.32
1917 ...	363	4.97	127	5	2	53	3.24
1918 ...	622	7.47	191	4	2	94	5.17

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 1918 as compared with 1917 :—

Classes of diseases.	1917.			1918.		
	Total treated.		Total.	Total treated.		Total.
	In-door.	Out-door.		In-door.	Out-door.	
Other general diseases ...	182	880	1,062	126	1,242	1,368
Malarial fevers ...	511	6,176	6,687	461	5,102	5,563
Diseases of the digestive system ...	1,532	7,787	9,319	1,554	7,661	9,215
Do. respiratory system excepting pneumonia and tubercle of lungs ...	894	6,712	7,606	412	6,446	6,858
Do. skin ...	512	8,219	8,731	215	4,093	4,308
Do. ear ...	24	3,158	3,182	24	1,371	1,395
Do. generative system ...	529	1,914	2,443	470	2,004	2,474
Do. nervous system ...	75	394	469	147	340	487
Do. urinary system ...	310	756	1,066	293	863	1,156
Do. connective tissue ...	458	8,404	8,862	259	4,345	4,604
Injuries (general and local) ...	234	2,334	2,568	318	3,193	3,511
Ulcers ...	89	4,629	4,709	183	4,309	4,492
Dyspepsia ...	25	366	391	39	399	438
Rheumatic fever and rheumatism ...	99	109	208	85	124	219
Dysentery ...	237	934	1,171	273	1,030	1,303
Tuberculous affections ...	324	917	1,241	343	1,037	1,379
Syphilis ...	147	587	734	209	558	767
Gonorrhoea ...	125	972	1,097	104	818	922

Comparing the figures for 1918 with those for 1917, the following large difference occur :—

Diseases of the skin (— 4,418), diseases of the ear (— 1,787), diseases of the connective tissue (— 4,258), local and general injuries (+ 943), ulcers (— 127), tubercular affection (+ 138), malarial fevers (— 1,124), diseases of the digestive system (— 104), diseases of the generative system (+ 31), dysentery (+ 132), other general diseases (+ 306), diseases of the urinary system (+ 31).

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	1918 ...	5,563

There was again a decrease in the number of malarial fevers treated in 1918. This means that the epidemic which broke out in 1912 is gradually dying out.

Septic cases.—

Admitted with sepsis	Number admitted.
...	262

5. Operations.—The following is the comparative statement of work done by the three surgeons during the years 1916, 1917 and 1918 :—

	Years		
	1916.	1917.	1918.
First Surgeon ...	1,311	1,294	1,225
Second Surgeon ...	978	1,018	1,112
Third Surgeon ...	1,386	1,263	1,130
	3,675	3,575	3,467

The above figures represent the number of patients on whom operations were performed. A comparison of the figures for 1918 with those of the two preceding years show a decrease of 444 over 1917 and 574 over 1916.

Excluding such surgical aids as hypodermic injections, passing of catheters, etc., the number of operations performed during the year 1918 is as follows :—

First Surgeon ...	900
Second Surgeon ...	911
Third Surgeon ...	870
Total ...	2,681

The statement G appended show the details of operations performed in 1918 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.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
In-patients.																	
1918	1,072	562	104	93	3,694	797	145	65	403	53	16	10	893	335	45	35	8,322
1917	983	509	105	91	3,180	611	117	73	351	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
Out-patients.																	
1918	2,513	1,195	569	412	30,728	6,509	3,512	3,004	2,667	150	151	97	6,192	1,848	1,081	1,033	61,721
1917	2,573	1,164	520	433	28,821	6,160	3,468	3,008	2,568	191	168	103	6,593	1,771	1,175	1,153	59,873
1916	2,636	1,427	643	394	26,725	5,577	3,351	2,668	2,669	197	193	83	6,431	2,445	1,484	1,292	58,337
Total.																	
1918	3,585	1,757	673	505	34,422	7,306	3,657	3,069	3,070	203	167	107	7,085	2,183	1,126	1,128	70,043
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	3,769	1,934	758	452	30,220	6,140	3,471	2,736	3,040	236	200	92	7,504	2,810	1,568	1,336	66,256

There is an increase in the total of admissions among Europeans and Hindus male, female and male children during the year with a slight fall among female children. Among "Muhammadans" a slight decrease is found in all cases except among male patients. While in the case of "other class" there is a slight increase among females only, with a decrease in other columns. The total number of in-patients and out-patients is more than that of the past two years.

7. Epidemics.—Twenty-nine cases of cholera were treated during the year (Europeans three and non-Europeans twenty-six). Ten cases of small-pox were treated during the year (two Europeans and eight non-Europeans) against four cases in 1917.

The accompanying table shows the number of enteric cases treated in the hospital during 1918, as compared with two preceding years :—

	1916.		1917.		1918.	
	Euro-peans.	Non-Euro-peans.	Euro-peans.	Non-Euro-peans.	Euro-peans.	Non-Euro-peans.
Admissions	65	53	76	41	20	33
	118		117		53	

The death-rate was nil and 15.15 against 3.81 and 7.31 in 1917 among Europeans and non-Europeans respectively.

8. Training of Medical Students.—Two hundred and forty-one students of different ranks were given clinical instructions against 201 of the preceding year 1917.

9. Training School for Nurses.—During the year under report, 81 applications were received from women desirous of joining the hospital as Government probationers.

Thirty-four applications were received from candidates in answer to the advertisement for twenty additional nurse probationers as per G.O. No. 380, Local and Municipal (Medical), dated 20th August 1918.

There were no applications for lady probationers.

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

Existing staff on 1st January 1918	...	...	...	...	...	...	...	...	15
Newly entertained	...	...	...	...	...	...	...	...	30
									45
Qualified and promoted to the staff	...	...	...	...	...	...	...	...	8
Left the service	...	...	...	...	...	...	...	...	*10
Remaining on the 31st December 1918	...	...	...	...	...	...	...	...	27
									45

* Ten probationers left the service on the following grounds:—

Found unsuitable	...	...	...	...	...	...	...	...	8
To better prospects	...	...	...	...	...	...	...	...	2
									10

N.B.—There were fifteen probationers over the sanctioned number of twelve 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 1918	...	...	...	...	...	...	...	...	4
Newly entertained	...	...	...	...	...	...	...	...	1
									5
Dismissed from the service	...	...	...	...	...	...	...	...	1
Remaining on 31st December 1918	...	...	...	...	...	...	...	...	4
									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 1918.

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.

The amounts collected during the past three years are—

Year.	Amount.
RS.	
1916	26,818
1917	25,485
1918	29,879

(2) *Fees for X-ray treatment and skiagraphs.*—The total amount collected during the year under report is Rs. 1,322 against Rs. 266. The increase is due to the large number of patients treated. Out of the collection, a sum of Rs. 661 was disbursed to the X-ray Assistant Surgeon and an attendant attached to the Department—vide G.O. No. 437, Medical, dated 22nd October 1917.

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

Year.	Amount.
RS.	
1916	707
1917	837
1918	1,589

The increase under this item is due to the fact that towards the latter part of the year 1918, orders from well-to-do patients were received for the services of Motor Ambulance on account of the prevalence of "Influenza" in an epidemic form.

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

Year.	Amount.
RS.	
1916	280
1917	315
1918	477

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

Year.	Amount.
RS. A. P.	
1916	467 15 11
1917	318 15 9
1918	100 0 2

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

Year.	Amount.
RS.	
1916	888
1917	820
1918	623

Expenditure.—(1) *Salaries.*—The decrease shown in the salary of Medical officers is due to the fact that the posts held by the Indian Medical Service officers were filled up by the Subordinate Medical officers for want of Commissioned officers on deputation to military duty.

The decrease in the salary of nurses accounts to the fact that the large number of vacancies in the higher grade of staff nurses remained unfilled due to suitable and qualified hands not being available to fill up the posts.

During the latter part of the year 1918, the ward attendants and other menial servants went on strike, consequently a reduction in the number of ward attendants was made retaining only 10 for the year, subsequently this number was raised to 22.

(2) *Medicines, etc.*—The increase in the cost of bazaar medicine purchased is due to the higher rate of articles prevailing in the market on account of war.

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

(4) *Miscellaneous charges.*—The reason for the enormous increase under this is due to the fluctuation of the price of the articles purchased locally on account of the abnormal conditions prevalent in the markets due to the war.

(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.
	RS. A. P.		RS. A. P.
Opening balance	70 14 6	Expenditure during the year	154 13 6
Major F. F. Elwes, C.I.E., I.M.S., on behalf of a patient.	50 0 0	Deposited to Bank	650 0 0
W. Beardsell, Esq.	50 0 0	Balance on the 31st December 1918	93 11 0
A patient from out-patients	5 0 0		
Venkata Rao, District Munsif, Poona-mallee, through Major F. F. Elwes.	35 0 0		
Lieut-Col. E. M. Illington, I.M.S.	15 0 0		
Mr. W. McDonald, Plauter	2 0 0		
Mr. Venkataram, Madurai	3 0 0		
W. Beardsell, Esq.	550 0 0		
Abbay Narayana through Mr. C. F. Badcock, L.B.S.	10 0 0		
Honry Brightwell, Esq., Solicitor	100 0 0		
Rev. D. Boxell	7 8 0		
Anonymous	0 2 0		
Total	898 8 6	Total	899 8 6

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 non-authorized medicines and instruments were obtained from England as well as from the local firms whenever urgently required.

The Home indent for the official year 1918-19 was not sent as the one for previous year was not complied with.

A Storekeeper of Medicine was appointed on Rs. 100 per mensem on 20th July 1918 (as per G.O. No. 340, Medical, Mis., dated 15th July 1918), who relieved the Senior Assistant Surgeon from all the duties connected with the medical and surgical stores of this hospital. This appointment reduced the staff of sub-assistant surgeons by two.

Diet and non-diet articles.—The articles were obtained as usual by contract except those for which no tenderers applied. These were purchased departmentally. The articles which were received in bulk and stocked are now obtained on frequent indents as demands occur. This system works more satisfactorily.

The selection of 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.

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 materials required for making them.

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 necessaries.—These were purchased departmentally and by contract, and as well from other Government departments and jails. The daily expenditure of more important articles issued from the Storekeeper of medicine 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.

The following statement shows the expenditure of a few of the more important articles of surgical dressings, etc. during the past four years:—

Articles.	1915.		1916.		1917.		1918.	
	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.
		Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.
Absorbent cotton.	2,791 lb.	2,194 9 0	1,312 lb.	1,068 0 0	1,100 lb.	996 14 0	1,439 1/2 lb.	1,439 4 9
Comber cotton	6,200 "	3,100 0 0	4,000 "	2,000 0 0	4,600 "	2,875 0 0	4,372 1/2 "	4,372 8 0
Dungry cloth	36,000 pcs.	18,000 0 0	20,000 pcs.	10,000 0 0	28,000 pcs.	15,750 0 0	21,498 pcs.	15,468 12 0
Muslin	2,014 yds.	311 7 0	1,392 yds.	253 12 0	2,088 yds.	575 7 6	1,338 1/2 yds.	251 0 0
Long cloth	5,040 "	830 0 0	2,512 "	497 2 8	4,200 "	1,050 0 0	2,697 "	1,149 0 7
Glycerine	389 lb.	865 6 0	707 lb.	618 10 0	648 lb.	29 8 1 1/2	1,84 1/2 lb.	161 7 0
Alcohol	5,113 "	1,278 4 0	3,002 "	750 8 0	2,000 "	350 0 0	3,211 1/2 "	642 12 0
Carbolic acid	2,342 "	1,463 12 0	281 "	175 10 0	300 "	637 8 0	454 "	731 0 0
Flannel	1,964 yds.	1,473 0 0	932 yds.	632 0 0	964 yds.	421 12 0	436 1/2 yds.	218 6 0
Total		29,316 6 0		16,060 10 8		22,656 1 7 1/2		24,434 1 7

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.

Owing to the entertainment of European qualified Sisters the stock of furniture had to be increased both to the wards and Nurses' quarters.

15. Electric installation of Punkahs, Lights, Fans, etc.—These were under the supervision of the officer in charge of electric subdivision, who is now designated as Electrical Engineer to Government. The cotton ropes of all punkahs were covered with long cloth as usual.

16. Establishment.—The following changes occurred during the year 1918, both in the medical staff and in the subordinate medical staff:—

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. (Edin.).	Senior Medical Officer.	1 Jan. 1918	19 Jan. 1918.	Sub. pro tem. Transferred as Inspector-General of Prisons.
Lieut.-Col., I.M.S.	W. J. Niblock, M.B., F.R.C.S., F.M.U. (Ire.).	Do.	20 Jan. 1918	5 Feb. 1918	Acting.
Do.	E. M. Illington, M.B.C.S., L.R.C.P., D.T.M.	Do.	6 Feb. 1918	17 June 1918	Sub. pro tem.
Do.	W. J. Niblock, M.B., F.R.C.S., F.M.U. (Ire.).	Do.	18 Feb. 1918	28 July 1918	Acting.
Do.	E. M. Illington, M.B.C.S., L.R.C.P., D.T.M.	Do.	29 July 1918	6 Oct. 1918	Sub. pro tem.
Do.	W. J. Niblock, M.B., F.R.C.S., F.M.U. (Ire.).	Do.	7 Oct. 1918	18 Oct. 1918	Acting.
Do.	E. M. Illington, M.B.C.S., L.R.C.P., D.T.M.	Do.	17 Oct. 1918	22 Dec. 1918	Sub. pro tem.
Do.	W. J. Niblock, M.B., F.R.C.S., F.M.U. (Ire.).	Do.	23 Dec. 1918	31 Dec. 1918	Acting.
Major, I.M.S. ...	F. F. Elwes, M.D., C.I.E.	First Physician ...	1 Jan. 1918	5 May 1918	Permanent.
Lieut.-Col., I.M.S.	E. M. Illington, M.B.C.S., L.R.C.P., D.T.M.	Do. ...	5 May 1918	12 June 1918	Acting.
Major, I.M.S. ...	F. F. Elwes, M.D., C.I.E.	Do. ...	13 June 1918	18 July 1918	Permanent.
Lieut.-Col., I.M.S.	C. Donovan, B.A., M.D., B.C.H., B.A.O., F.M.U.	Do. ...	19 July 1918	23 July 1918	Acting.
Major, I.M.S. ...	F. F. Elwes, M.D., C.I.E.	Do. ...	24 July 1918	17 Sep. 1918	Permanent.
Do. ...	J. Kirkwood, M.B., F.R.C.S.E.	Do. ...	18 Sep. 1918	27 Sep. 1918	Acting.
Do. ...	F. F. Elwes, M.D., C.I.E.	Do. ...	28 Sep. 1918	1 Dec. 1918	Permanent.
Do. ...	J. Kirkwood, M.B., F.R.C.S.E.	Do. ...	2 Dec. 1918	11 Dec. 1918	Acting.
Do. ...	F. F. Elwes, M.D., C.I.E.	Do. ...	12 Dec. 1918	31 Dec. 1918	Permanent.
Civil Assistant Surgeon.	M. R. Guruswami Mudaliyar, B.A., M.B., & C.M.	Second Physician.	1 Jan. 1918	22 Dec. 1918	Sub. pro tem.
Do.	M. L. Kamath, B.A., M.D. & C.M.	Do.	23 Dec. 1918	27 Dec. 1918	Acting.
Do.	M. R. Guruswami Mudaliyar, B.A., M.B., & C.M.	Do.	28 Dec. 1918	31 Dec. 1918	Sub. pro tem.
Do.	T. S. Tirumurti, B.A., M.B. & C.M.	Third Physician ...	1 Jan. 1918	2 Sep. 1918	Do.
Do.	M. R. Guruswami Mudaliyar, B.A., M.B., & C.M.	Do. ...	3 Sep. 1918	2 Oct. 1918	Acting.
Do.	T. S. Tirumurti, B.A., M.B. & C.M.	Do. ...	3 Oct. 1918	31 Dec. 1918	Sub. pro tem.
Do.	Rao Sahib M. C. Koman, I.M.S.	Fourth Physician.	1 Jan. 1918	6 June 1918	Acting.
Do.	M. R. Guruswami Mudaliyar, B.A., M.B., & C.M.	Do.	7 June 1918	15 June 1918	Do.
Do.	Rao Sahib M. C. Koman, I.M.S.	Do.	16 June 1918	19 July 1918	Do.
Do.	M. R. Guruswami Mudaliyar, B.A., M.B., & C.M.	Do.	11 July 1918	28 July 1918	Do.
Major, I.M.S. ...	J. Kirkwood, M.B., F.R.C.S.E.	Do.	29 July 1918	29 Sep. 1918	Do.
Civil Assistant Surgeon.	M. L. Kamath, B.A., M.D. & C.M.	Do.	30 Sep. 1918	27 Dec. 1918	Sub. pro tem.
Do.	M. R. Guruswami Mudaliyar, B.A., M.B., & C.M.	Do.	28 Dec. 1918	31 Dec. 1918	Acting.
Lieut.-Col., I.M.S.	W. J. Niblock, M.B., F.R.C.S. (Ire.), F.M.U.	First Surgeon ...	1 Jan. 1918	15 May 1918	Permanent.
Major, I.M.S. ...	A. Chalmers, M.B., F.R.C.S.I.	Do. ...	16 May 1918	16 June 1918	Acting.
Lieut.-Col., I.M.S.	W. J. Niblock, M.B., F.R.C.S. (Ire.), F.M.U.	Do. ...	17 June 1918	17 Sep. 1918	Permanent.

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

Medical Staff—cont.

Lieut.-Col., I.M.S.	E. M. Illington, M.R.C.S. (Eng.), L.R.C.P. (Lond.), F.R.C.S. (Edin.)	First Surgeon ...	18 Sep. 1918	27 Sep. 1918	Acting.
Do.	W. J. Niblock, M.B., F.R.C.S. (Ire.), F.M.U.	Do.	28 Sep. 1918	31 Dec. 1918	Permanent.
Major, I.M.S.	J. J. Robb, M.B., B.Ch., B.A.O., D.P.H.	Second Surgeon.	1 Jan. 1918	24 Jan. 1918	Reverted to Military duty.
Lieut.-Col., I.M.S.	W. J. Niblock, M.B., F.R.C.S. (Ire.), F.M.U.	Do.	25 Jan. 1918	5 Feb. 1918	Acting.
Do.	E. M. Illington, M.R.C.S. (Eng.), L.R.C.P. (Lond.), F.R.C.S.	Do.	6 Feb. 1918	17 June 1918	Sub. pro tem.
Do.	W. J. Niblock, M.B., F.R.C.S. (Ire.), F.M.U.	Do.	18 June 1918	25 June 1918	Acting.
Major, I.M.S.	J. Kirkwood, M.B., F.R.C.S.	Do.	26 June 1918	28 July 1918	Do.
Lieut.-Col., I.M.S.	E. M. Illington, M.R.C.S. (Eng.), L.R.C.P. (Lond.), F.R.C.S. (Edin.)	Do.	28 July 1918	6 Oct. 1918	Sub. pro tem.
Do.	W. J. Niblock, M.B., F.R.C.S. (Ire.), F.M.U.	Do.	7 Oct. 1918	16 Oct. 1918	Acting.
Do.	E. M. Illington, M.R.C.S. (Eng.), L.R.C.P. (Lond.), F.R.C.S. (Edin.)	Do.	17 Oct. 1918	22 Dec. 1918	Sub. pro tem.
Do.	W. J. Niblock, M.B., F.R.C.S. (Ire.), F.M.U.	Do.	23 Dec. 1918	31 Dec. 1918	Acting.
Civil Assistant Surgeon.	W. J. Fernandez, L.M.S.	Third Surgeon...	1 Jan. 1918	31 Dec. 1918	Do.
Do.	K. Nedungadi, L.M.S.	Resident Medical Officer.	1 Jan. 1918	30 Oct. 1918	Do.
Major, I.M.S.	J. Kirkwood, M.B., F.R.C.S.	Do.	31 Oct. 1918	31 Dec. 1918	Sub. pro tem.

Subordinate Medical Staff.

Civil Apothecary.	P. Parthasarathi Nayudu.	Senior Assistant Surgeon.	1 Jan. 1918	27 June 1918	Transferred to Rayapuram Hospital.
Civil Assistant Surgeon.	C. Ranganujayya, L.M.S.	Do.	28 June 1918	31 Dec. 1918	
Do.	T. Balakrishnan, M.B., B.S.	Assistant to First Physician.	1 Jan. 1918	31 Dec. 1918	
Do.	P. K. Kurian, L.M.S.	Assistant to Second Physician.	1 Jan. 1918	30 June 1918	
Do.	G. Ramayya, L.M.S.	Do.	1 July 1918	27 July 1918	
Do.	K. Srinivasa Sastri, L.M.S.	Do.	28 July 1918	2 Aug. 1918	
Do.	C. Abba Mudaliyar, M.B., C.M.	Do.	3 Aug. 1918	8 Aug. 1918	
Do.	M. Tiruvankata Acharya, M.B., B.S.	Do.	9 Aug. 1918	27 Oct. 1918	
Do.	A. Narasinga Rao, L.M.S.	Do.	28 Oct. 1918	31 Dec. 1918	
Do.	K. R. Tyagarajan, L.M.S.	Assistant to Third Physician.	1 Jan. 1918	7 May 1918	
Do.	Trimalayya ...	Do.	8 May 1918	11 May 1918	
Temporary Civil Assistant Surgeon.	K. Ranganathan, L.M.S.	Do.	12 May 1918	30 Aug. 1918	
Civil Assistant Surgeon.	C. R. Venkatanarayanan, L.M.S.	Do.	31 Aug. 1918	9 Sep. 1918	
Do.	K. Srinivasa Sastri, L.M.S.	Do.	10 Sep. 1918	2 Nov. 1918	
Do.	N. Seshadrinadhan, L.M.S.	Do.	3 Nov. 1918	31 Dec. 1918	
Do.	B. Tirumal Rao, L.M.S.	Assistant to Fourth Physician.	1 Jan. 1918	30 Aug. 1918	
Do.	K. Ranganathan, L.M.S.	Do.	31 Aug. 1918	31 Dec. 1918	
Do.	B. V. Narasimayya, L.M.S.	Assistant to First Surgeon.	1 Jan. 1918	31 Dec. 1918	

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

Subordinate Medical Staff—cont.

Civil Assistant Surgeon.	K. Ranganathan, L.M.S.	Assistant to Second Surgeon.	1 Jan. 1918	22 Mar. 1918	
Do.	Havinarayana, L.M.S.	Do.	23 Mar. 1918	20 May 1918	
Do.	R. Subbayya, M.B., B.S.	Do.	25 May 1918	13 Nov. 1918	
Do.	A. R. Visvanathan, L.M.S.	Do.	14 Nov. 1918	31 Dec. 1918	
Do.	V. V. Sarma, L.M.S.	Assistant to Third Surgeon.	1 Jan. 1918	6 May 1918	
Temporary Civil Assistant Surgeon.	S. Kollappa Pillai, L.M.S.	Do.	7 May 1918	15 May 1918	
Civil Assistant Surgeon.	Albuquerque ...	Do.	16 May 1918	17 June 1918	
Do.	G. Ramayya ...	Do.	18 June 1918	30 June 1918	
Do.	Krishnaswami Pillai, L.M.S.	Do.	1 July 1918	9 July 1918	
Temporary Civil Assistant Surgeon.	K. Srinivasa Sastri, L.M.S.	Do.	10 July 1918	14 July 1918	
Do.	V. Sadasivan, M.B., B.S.	Do.	15 July 1918	31 Dec. 1918	
Civil Assistant Surgeon.	Kollappa Pillai ...	Anaesthetist.	1 Jan. 1918	6 May 1918	
Do.	K. Ranganathan, L.M.S.	Do.	7 May 1918	11 May 1918	
Do.	A. R. Visvanathan, L.M.S.	Do.	12 May 1918	13 Nov. 1918	
Do.	R. Subbayya, M.B., B.S.	Do.	14 Nov. 1918	31 Dec. 1918	
Do.	A. Ranganamanujayya.	First Assistant to Resident Medical Officer.	1 Jan. 1918	28 Aug. 1918	
Do.	A. R. Narasinga Rao.	Do.	29 Aug. 1918	27 Oct. 1918	
Do.	K. Srinivasa Sastri, L.M.S.	Do.	28 Oct. 1918	31 Dec. 1918	
Do.	Havinarayana, L.M.S.	Second Assistant to Resident Medical Officer.	7 Feb. 1918	22 Mar. 1918	
Do.	T. C. Mathew	Do.	4 Apr. 1918	11 June 1918	
Do.	A. Tirumalayya	Do.	11 June 1918	30 June 1918	
Do.	C. R. Venkatanarayana.	Do.	31 Aug. 1918	9 Sep. 1918	
Do.	Tiruvankata Acharya, M.B., B.S.	Do.	28 Oct. 1918	31 Dec. 1918	
Major, I.M.S.	C. H. L. Falk, M.B., C.M., F.R.C.S. (Edin.)	X Ray Officer ...	1 Jan. 1918	19 Jan. 1918	
Civil Assistant Surgeon.	M. Govindarajulu Nayudu.	X-Ray Assistant Surgeon.	1 Jan. 1918	2 May 1918	
Do.	M. R. Guruswami Mudaliyar, B.A., M.B. & C.M.	Do.	3 May 1918	26 May 1918	
Do.	R. A. D. Graham, M.B. & C.M.	Do.	27 May 1918	31 Dec. 1918	
Do.	T. S. Hariharayana, L.M.S.	Do.	8 Feb. 1918	22 Mar. 1918	For training.
Do.	Gopala Ayyar ...	Do.	1 Jan. 1918	7 Feb. 1918	
Do.	R. Subbayya, M.B., B.S.	Assistant Surgeon in chief of venereal wards.	1 Jan. 1918	29 May 1918	
Do.	M. Benegal ...	Do.	21 May 1918	5 Aug. 1918	
Do.	R. Subbiah, M.B.	Do.	6 Aug. 1918	3 Nov. 1918	
Do.	G. W. L. Hosington, L.M.S.	Do.	4 Nov. 1918	31 Dec. 1918	
Do.	V. N. Venkataraman, B.A., M.B., B.S. (Male side).	Clinical Instructor, Out-Patient department.	1 Jan. 1918	31 Dec. 1918	
Do.	P. Venkatakrishna Rao, L.M.S. (Female side).	Do.	1 Jan. 1918	...	
Do.	B. Srinivasachari, B.A., L.M.S.	Do.	...	...	

Rank.	Name.	Nature of duties.	Periods during which the officers were present for duty.		Remarks.
			From	To	
Sub-Assistant Surgeons.*					
First-grade Sub-Assistant Surgeon.	N. S. Subrahmanyam, No. 553.	In-dispensary, Out-dispensary Sub-Assistant Surgeon's Stores.	1 Jan. 1918	7 Apr. 1918	
Do.	R. Subbā Rao No. 570.	Do.	1 Jan. 1918	7 Apr. 1918	
Do.	Do.	Do.	8 June 1918	26 June 1918	
Second-grade Sub-Assistant Surgeon.	M. D. Umapathy, No. 1133.	Do.	24 June 1918	1 Oct. 1918	
Do.	P. S. David Pillai, No. 784.	Do.	1 July 1918	1 Oct. 1918	
Fourth-grade Sub-Assistant Surgeon.	C. E. Mohanrangam, No. 1097.	Do.	1 Jan. 1918	3 June 1918	
Do.	V. Sivagambu, No. 1033.	Do.	8 Nov. 1918	31 Dec. 1918	
Do.	Baskhar Rao, No. 999.	Do.	1 Jan. 1918	31 Dec. 1918	
First-grade Sub-Assistant Surgeon.	D. Narayanaswami Ayyangar, No. 721.	Reserve duty	9 Nov. 1918	31 Dec. 1918	

* Number of Sub-Assistant Surgeons was reduced by two owing to an appointment of a separate Storekeeper of Medicines sanctioned in G.O. Mis. No. 340, Medical, dated the 15th July 1918.

Nursing Department.—Mrs. K. S. Palsgrave, Matron Superintendent, went on 17 days' privilege leave from 5th to 21st August 1918 and Miss B. Royal Dawson, Assistant Matron, acted during her absence. Miss B. Royal Dawson, Assistant Matron, was granted privilege leave for one month from 10th January 1918.

Mrs. A. F. Harper, a fully trained English lady, was appointed as sister (as per G.O. No. 1863 of 1915) on 6th February 1918 on the sanctioned scale of pay of Rs. 120 per mensem, and subsequently in G.O. Mis. No. 224, L. & M. (Medical), dated 22nd May 1918, the pay of the appointment was raised from Rs. 120 to Rs. 150 per mensem as a special case for the duration of war.

Mrs. K. E. Vernede, the second sister, was appointed on the 15th May 1918 on which date sister E. Jackson who was appointed in 1917 was permitted to resign the service for a better post.

Four additional English trained sisters, viz., Miss A. Knowles, Miss M. Warren, Miss Bidolph and Mrs. B. Watts, were appointed on Rs. 100—120 with effect from 17th November 1918, 20th November 1918, 3rd January 1919 and 1st January 1919, respectively, as per G.O. No. 380, L. & M. (Medical), dated 20th August 1918.

Government in their Order Mis. No. 243, L. & M. (Medical), dated 31st May 1918, sanctioned for the duration of the war an increased uniform allowance of Rs. 50 each per annum to all Government nurses in the Presidency State Hospital in Madras in lieu of Rs. 30 each per annum now drawn by them.

In Mis. No. 238, L. & M. (Medical), dated 29th May 1918, Government sanctioned, as a temporary measure, subject to reconsideration after the war, the employments of a sewing woman on Rs. 25 per mensem and the tailor coolies on Rs. 15 per mensem instead of the present establishment of three tailors on Rs. 10 each per mensem.

House-keeper.—Great difficulty is still experienced in obtaining the service of a suitable House-keeper.

Miss R. E. Bates who was appointed on 1st March 1917 as a House-keeper left the service for a better-paid post on the 1st May 1918.

One of the nurses acted for one month (May 1918).

When Miss E. Swinney was appointed on 1st June 1918 she found the work too strenuous and hours too long and left for an easier post on the 4th September 1918.

Her place was taken on by one Miss K. Malony on the 23rd September 1918 but she also found the work too hard and left it on the 23rd October 1918.

Sister Harper was permitted to act as House-keeper and she performed the duties most satisfactorily till 18th November 1918, when Mrs. Watt, a fully trained nurse, from New Zealand took the post, but as it proved too much for her health, she resigned and applied for the vacant post of ward sister to which she was appointed on the 1st January 1919 when one of the Nursing staff Mrs. E. Thomas was appointed to act till 18th March 1919 when and the date is expected to join as House-keeper.

The following statement shows the strength of the staff during the year 1918:—

	No.
Existing staff on the 1st January 1918	46
Nurses trained in this hospital	8
Otherwise attached	5
Total	59

Left the service	16
Leave on loss of pay	1
On military duty	1
On two years' furlough	1
On Hospital Ship "Madras"	1
Remaining on the 31st December 1918	39
Total	59

NOTE.—Sixteen nurses left the service on the following grounds:—

To better their prospects	10
To be married	2
On private affairs	2
To join L.A.N.I., Madras	1
Do. Rayapuram Hospital	1
Total	16

Male Ward Attendants and Probationers.—These ward attendants went on strike towards the end of October 1918 on the grounds that their salary was less. As they left work without permission and persisted in their action, their services were dispensed with. Only 22 ward attendants who had rendered over 10 years' service were retained with the approval of the Surgeon-General with the Government of Madras.

Female Ward Attendants and Probationers.—The sanctioned strength of this class is four.

	No.
Existing staff on the 1st January 1918	4
Newly entertained	1
Total	5
Dismissed from the service	1
Remaining on the 31st December 1918	4
Total	5

Ward Attendants, Female.—The sanctioned establishment is 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 the 1st January 1918	22	
Remaining on the 31st December 1918	22	

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

Year.	Amount spent under bedding 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.	RS. A. P.
1916	6,207 6 10	2,147 0 8	1 2 10	207,859	187 1 0	NIL
1917	...	2,422 5 7	1 2 4	320,625	250 4 6	NIL
1918	8,488 2 5	2,920 3 9	1 8 7	278,177	368 3 5	58 6 8

The stock of linen was examined quarterly and the work of the linen department was satisfactory throughout the year.—

Year.	Number of pieces condemned.	Cost of articles condemned.	Number of pieces washed.	Remarks.
1915-16	4,699	Rs. 3,824	299,272	These figures are for the official year.
1916-17	5,217	4,507	303,820	
1917-18	4,723	5,672	308,657	

Steam Laundry.—A licensed driver is in charge of this machine.

The electric motor by which it is worked is under the Electrical Section of the Public Works Department. The Inspector of Steam Boilers and Prime Movers made an annual inspection and revised the licence as usual. The repairs suggested by him were executed by the General Superintendent, Public Works Department.

Steam Disinfector (Lyons).—A licensed driver has been appointed on Rs. 30—1—35 in G.O. Mis. No. 527, Local and Municipal (Medical), dated 21st November 1918. The disinfection of the articles is carried on thrice a week under the supervision of one of the Sub-Assistant Surgeons.

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 570 trips covering a distance of 3,488 miles against 463 trips, making a total distance of 2,225 miles during 1917.

The quantity of commercial spirit used by the car was 288 gallons and this gives an average of 12.11 miles per gallon as compared with 10.3 miles for each gallon used in 1917. The total collections aggregated Rs. 1,389 in 1918 as compared with Rs. 837 in 1917.

Electrical Department.—(Vide paragraph 15 above). The whole installation was under the Electrical Inspector to Government. Urgent calls were attended to by the Head Wireman, who is in immediate charge and provided with free quarters.

Sanitary Department.—This department was in immediate charge of the Hospital Sergeant. The Resident Medical Officer carried out daily inspections and any defects observed were rectified at once.

Office Establishment.—Head Steward P. S. Venkatarama Ayyar went on long leave during the year and his place was taken by Accountant T. Duraiswami Mudaliyar.

Telephones.—The Oriental Telephone line with the inter-communication switch board is in charge of a clerk who both day and night attends to messages.

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

Item.	Articles.	1915.		1916.		1917.		1918.	
		Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.	Quantity.	Cost.
			Rs. A. P.		Rs. A. P.		Rs. A. P.		Rs. A. P.
1	Milk ... Pints.	272,630	28,785 2 0	197,511	20,574 1 7	202,212	22,502 4 11	217,593-2½	25,899 8 6
2	Apples ... No.	8,221	1,115 2 0	4,980	620 0 0	816	102 0 0	484	60 12 0
3	Oranges ... "	15,690	572 0 6	4,470	235 14 2	6,194	225 13 2	7,028	256 2 6
4	Eggs ... "	85,498	2,500 7 9	47,103	1,410 10 2	51,040	1,576 9 9	42,696	1,275 10 7
5	Ice ... lb.	97,714	1,526 12 6	80,867	1,263 8 9	96,202	1,698 8 6	99,153	1,807 7 8
6	Wine and spirits.	...	997 5 1	...	542 9 5	...	843 7 8	...	984 9 4
7	Arrowroot biscuits.	1,166-11½	741 1 8	531-6	531 6 0	73-10½	73 10 6	...	...
8	Coffee powder.	5,111-8½	3,194 11 3½	3,704-13½	2,199 12 0	3,714-1½	2,205 3 0	4,060-3	2,537 9 10½
9	Sugar, brown	...	...	...	...	4,538-1	468 5 0	7,693-1½	801 5 10
10	Sugar	17,421-1½	2,722 0 3½	11,614-7	1,905 7 10½	7,443-10	1,352 4 3	4,096-7	618 11 9
11	Tea	427-11	294 0 6½	182-9½	132 6 6½	180-4½	101 6 3	185-10½	92 18 5
ABBATED WATERS.									
Lemonade.									
12	Large (bottls.)	637	39 3 9	...	...	...	...	...	...
13	Splits (do.)	18,278	475 15 10	7,114	159 13 0	5,013	178 4 4	3,919	142 14 1
Soda.									
14	Large (bottls.)	525	13 10 9	...	...	...	...	...	...
15	Splits (do.)	23,703	370 7 0	14,420	300 6 8	14,301	297 15 0	12,807	266 13 0
16	Worcester Sauce.	15	26 6 0	6	10 8 0	3	5 4 0	...	...

The total cost for 1918 shows an increase of about Rs. 4,109 over 1917. The increase in cost is due to the increased expenditure of such articles as milk, coffee, oranges, ice, lemonade splits, etc., together with the enhanced contract rate paid for them during the year 1918.

Average daily cost of in-patients.—The following table shows the average daily cost of dieting European and Indian patients, per diem in the general ward of this hospital, together with the average daily attendance of patients, dieted during each month of the three years from 1916:—

Months.	Indians.						Europeans.					
	1916.		1917.		1918.		1916.		1917.		1918.	
	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	255.71	4 9½	243.03	5 0½	261.71	4 11	75.88	9 2½	85.22	9 9½	69.00	9 11½
February	276.12	4 11	241.96	4 9½	275.53	5 1½	86.13	9 6½	89.14	9 4½	71.66	9 5½
March	279.08	4 0½	264.95	4 9	290.09	4 11½	95.98	9 8½	98.83	9 8½	77.63	9 5
April	288.56	4 9½	285.24	5 1½	289.96	5 2	86.97	9 10½	82.40	10 6½	94.73	9 5
May	301.02	4 10½	267.41	4 11½	296.03	5 1½	89.44	9 9	80.74	9 10½	85.64	9 5½
June	289.50	4 9½	265.34	4 11½	296.13	5 3½	90.34	9 7	80.00	9 9½	69.56	9 7½
July	285.43	4 9½	287.12	4 10	292.09	5 3½	87.57	9 4	83.00	9 3½	71.13	9 9½
August	273.87	4 8½	267.00	4 11	281.09	5 4½	90.99	9 0	93.60	9 3	65.84	10 1
September	282.87	4 10½	261.00	4 11	293.20	5 5	82.94	9 3½	82.11	9 6½	80.66	9 8½
October	262.16	4 11	283.12	4 8½	309.13	5 8½	71.91	9 5	71.22	9 5½	102.45	9 4½
November	284.01	4 11½	274.87	4 11½	270.13	5 10½	78.11	9 4½	67.40	9 5	84.60	9 10½
December	271.26	4 11½	278.16	4 9	307.71	5 9½	74.39	9 10½	63.86	9 7	76.78	10 10½
Total average	279.13	4 10	268.15	4 10½	288.73	5 4	84.22	9 6	81.03	9 7½	79.0	9 8½

The attention of the medical officers and subordinates was daily drawn to excess average noticed in their wards. The Medical Officers could not keep to the limit of As. 10 and As. 5 in the European and Indian patients, respectively, owing to the high rates of prices.

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. There are 125 fire buckets in charge of the Hospital Sergeant. The fire-station is within easy call of the hospital.

Hot-water Furnaces.—These were supervised by the steward on duty as usual and the temperature of water was recorded in their morning reports. The supply to the first-class paying wards was unsatisfactory.

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

Kitchens (European and Indian).—Separate kitchens are maintained for European and Indian patients. The cooks for the Indian patients are castemen. No Brahman cook was employed owing to want of proper and separate accommodation for a Brahman kitchen though there is a provision for one on Rs. 10 per mensem.

Sale of unserviceable articles.—Public auctions were as usual held every now and then in the hospital compound. Excepting the articles of crockery which are ordered to be destroyed, all other articles returned as unserviceable from the wards and other department of the hospital were sold in auction and the sale-proceeds credited to Government.

The appended statement shows the amount realized during the past five years:—

Years.	Amount realized.
1914	Rs. 639
1915	1,193
1916	846
1917	778
1918	613

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

Water-supply.—Special attention was paid to the expenditure of water in the hospital by warnings issued from time to time to restrict the expenditure. The result of this was a further reduction in expenditure during 1918 as compared with 1917; the decrease observed being 449,734 gallons.

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.
1915	10,477,700	3,929 2 2
1916	8,494,950	2,545 10 0
1917	7,430,000	1,603 3 8
1918	6,980,266	1,444 5 2

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.

19. Verification of Service Registers.—The service registers of both the superior and inferior permanent establishments were verified up to 31st December 1918.

20. Sanctioned Establishment.—For changes sanctioned during the year regarding the nursing staff vide paragraph 16 under heading "Nursing department".

As regards ward attendants vide paragraph 16 under heading "Male ward attendants".

A garden maistri on Rs. 14 has been sanctioned for the improvement in gardening of the compounds—G.O. No. 484, Local and Municipal (Medical), dated 27th November 1917.

A Second Dental Surgeon on Rs. 200 was also sanctioned during the year—vide G.O. Mis. No. 138, Local and Municipal (Medical), dated 9th April 1918.

A separate Storekeeper of Medicine was also sanctioned during the year under report—vide paragraph 14.

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

Number of wound certificates issued during the year 1918.	Number of post-mortem certificates issued during the year 1918.	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.	
101	14	14	138	Civil Asst. Surgeon V. Viswanatha Sarma ... 2 Do. S. K. Ganapati Ayyar ... 4 Do. M. Seshadiri Reddi ... 1 Do. A. Tirumalayya ... 10 Do. B. V. Narasimhayya ... 8 Do. L. S. Rajamonikham ... 1 Temporary Civil Asst. Surgeon B. Tirumal Rao ... 10 Temporary Civil Asst. Surgeon K. Srinivasa Sastri ... 9 Temporary Civil Asst. Surgeon K. Thegarajan ... 2 Civil Asst. Surgeon T. C. Mathew ... 3 Temporary Civil Asst. Surgeon R. Subbayya ... 5 Do. Balakrishnan ... 3 Civil Asst. Surgeon C. Ramannayya ... 5 Do. Rangaramanujayya ... 8 Do. G. Ramaya ... 1 Sub-Asst. Surgeon P. S. David Pillai ... 3 Temporary Civil Asst. Surgeon V. Sadasivan ... 2 Do. A. Narasinga Rao ... 9 Civil Asst. Surgeon C. Abba Mudaliyar ... 2 Do. A. S. Tiruvankata Achari ... 4 Do. R. A. D. Graham ... 1 Do. K. S. Gopalaswami Ayyangar ... 2 Do. S. Kollappa Pillai ... 2 House Surgeon Anantanarayana Ayyangar ... 1 Total ... 98

22. General Remarks.—The following statement shows receipts and expenditure during the past four years ending with 1918 :—

Receipts.	1915.	1916.	1917.	1918.
	RS. 4,82,757	RS. 3,58,741	RS. 3,80,775	RS. 4,17,273
Expenditure—	RS.	RS.	RS.	RS.
	RS.	RS.	RS.	RS.
Salaries (Medical Officers)	85,878	70,370	75,249	64,882
Salaries (Nurses)	45,441	47,772	51,072	41,892
Salaries (Inferior servants)	40,737	44,911	44,214	36,150
Medicines (European)	59,239	31,189	42,524	32,126
Medicines (Bazaar)	1,548	1,180	1,436	1,907
Diet	85,170	58,575	60,602	61,901
Miscellaneous charges	1,44,430	79,958	85,476	1,54,021
Buildings or repairs	20,319	19,844	20,202	24,394
Average daily sick in 1914 (439-17)	401.3	379.3	372.60	404.37
Cost per head of the total average strength	RS. A. P. 515 3 6	RS. A. P. 367 7 8	RS. A. P. 385 7 11	RS. A. P. 476 6 3

The expenditure during the year is more than that of the previous year by Rs. 36,498. This is due chiefly to the fact that the cost of all articles has risen considerably.

GOVT. GENERAL HOSPITAL, MADRAS,
10th March 1919.

E. M. ILLINGTON, Lieut.-Col., I.M.S.,
Senior Medical Officer.

APPENDIX A.

Comparative statement of the medical work done in the General Hospital, Madras, for the five years ending 1918.

ANNUAL REPORT AND STATISTICS OF THE

Year.	In-patients.										Out-patients.										
	Total treated.		Average daily sick.		Deaths.		Average stay in hospital.		Average cost of diet.				Total treated.		Average daily sick.		Operations.				
	Europeans and Eurasians.	Non-Europeans.	Europeans and Eurasians.	Non-Europeans.	Europeans and Eurasians.	Non-Europeans.	Europeans and Eurasians.	Non-Europeans.	General wards.		Officers' quarters.		Europeans and Eurasians.	Non-Europeans.	Total.	Male side.		Female side.	Total.		
									Europeans and Eurasians.	Non-Europeans.	Europeans and Eurasians.	Non-Europeans.									
																				Rs. A. P.	Rs. A. P.
1916	1,743	0,176	94,47	284,78	7	301	377	4,820	21,93	18,57	0 9 6	0 4 10	2 7 2	0 15 84	5,160	53,177	58,337	316,81	138,06	454,87	5,728
1917	1,688	5,673	93,90	278,70	62	204	355	4,515	20,23	17,94	0 9 8	0 4 11	2 5 21	0 13 91	4,680	55,163	59,873	340,59	144,77	485,36	5,240
1918	1,831	6,491	93,25	311,12	82	540	622	4,854	18,50	17,49	0 9 31	0 5 24	1 5 7	0 13 8	4,689	57,032	61,721	266,13	104,89	409,02	5,973

INDEX B.

Statement showing the medical work done by each Medical Officer during 1918.

In-patients.

Medical officers.	Class of patients.	Admissions.										Average daily sick.	Death-rate per 1,000.	Operations.						Average cost of diet.		Post-mortem examinations.
		Remained.	Admitted.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.	Remained.	Total.	Cured.			Relieved.	Discharged otherwise.	Died.	Remained.	Average stay of patients in hospital.	Officers' quarters.	General wards.		
First Physician	Non-Europeans Europeans	29 601	762 601	791 601	338 493	142 233	191 268	88 31	32 40	31.93 34.34	11.11 13.13	314 338	234 342	80 54	1 2	14.61 15.66	RS. A. P. 1 0 31	0 6 24 0 9 11	25 ...			
Second Physician	Non-Europeans Europeans	28 10	1,554 2,240	1,502 2,201	684 1,201	375 327	289 140	132 117	72 37	62.96 38.10	70.30 87.12	712 418	576 391	134 92	1 ...	11.37 16.18	0 13 44 1 8 04	0 4 44 0 6 44	25 ...			
Third Physician	Non-Europeans Europeans	29 20	1,303 636	1,431 646	707 296	382 139	161 76	130 100	45 35	48.23 28.36	90.53 154.80	467 307	467 307	112 143	2 ...	16.95	...	0 5 44 ...	28 ...			
Fourth Physician	Non-Europeans Europeans	30 4	930 222	960 226	428 132	216 63	153 21	90 17	33 3	37.57 19.63	87.75 73.22	269 169	303 140	33 11	2 ...	14.28 17.50	1 1 8 1 9 11	0 5 51 0 9 61	32 ...			
First Surgeon	Non-Europeans Europeans	34 15	1,152 262	1,180 277	570 508	290 123	204 153	107 43	36 10	43.40 50.51	90.21 47.46	407 37	234 723	44 12	22 5	11.76 23.72	0 13 94 1 10 15	0 4 10 0 9 44	7 2			
Second Surgeon	Non-Europeans Europeans	70 57	1,149 856	1,225 933	753 544	103 188	133 212	51 37	70 60	73.76 69.01	44.69 38.82	48 24	1,242 583	965 466	14 21	27 22	...	...	...	9		
Third Surgeon	Non-Europeans Europeans	61 42	1,043 950	1,112 992	644 573	212 155	142 145	41 63	73 64	70.86 58.94	38.37 33.31	685 27	714 813	95 74	22 36	...	...	...	10			
Total	Non-Europeans Europeans	43 6	1,082 132	1,189 138	601 86	177 22	161 16	68 5	103 9	68.79 49.25	40.18 33.31	80 132	578 133	78 123	41 3	13.74 17.74	...	...	146			
Total	Non-Europeans Europeans	267 71	6,294 1,700	6,491 1,831	3,333 1,132	1,299 530	1,018 204	540 82	311 83	81.11 49.25	63.10 44.78	3,634 2,070	3,737 1,068	698 913	74 10	23 23	18.59 1 5 7	0 5 24 0 5 84	3			
Grand Total		393	7,931	8,322	4,465	1,610	1,522	622	394	404.96	74.74	4,720	4,833	759	84	137	...	...	146			

Out-patients.

Medical officers.	Class of patients.	Total treated.					Average daily sick.					Opera- tion.	Post- mortem exami- nations.
		Men.	Women.	Male children.	Female children.	Total.	Men.	Women.	Male children.	Female children.	Total.		
Resident Medical Officer and Assistant Surgeons.	Non-Europeans	39,587	8,207	4,714	4,194	57,032	255 87	560 71	36 05	30 97	383 60	5,184	3 ⁹
	Europeans	2,313	1,195	569	412	4,490	12 26	7 18	3 50	2 48	25 42	779	1
	Total	42,000	9,702	5,313	4,606	61,721	268 13	67 89	39 55	33 45	409 02	5,973	4

* Post mortems conducted for scientific purposes ... 189
Post mortems conducted for medico-legal purposes ... 14
Total ... 203

APPENDIX C.

Statement showing 'Cost per head per annum' of the Daily Average Strength of the General Hospital, Madras, for the year 1918, as compared with those of 1915, 1916 and 1917.

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.	Cost per head of the total average strength.	Cost.	Cost per head of the total average strength.	Cost.	Cost per head of the total average strength.	Cost.	Cost per head of the total average strength.	Cost.	Cost per head of the total average strength.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1915.	1	401.32	437.18	838.50	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
1916.	1	379.23	454.87	834.10	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
1917.	1	372.60	455.39	827.99	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
1918.	1	404.37	409.02	813.39	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.

Column 6 is the same as column 22 in Statement H, minus column 11 of the same.
 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.
 Cost of petty repairs to buildings has been included in column 20 of Statement H.

6991. = 155
1104

APPENDIX D.

INDIANS.

Statement showing the in-patients treated with results in the year 1918.

No.	Diseases.	Remained.	Admitted.	Total.	Results.						Total.
					Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.		
1	Cholera ...	26	26	26	3	2	10	11	...	26	
2	Dysentery ...	5	190	195	138	9	21	21	6	195	
3	Enteric fever ...	3	30	33	27	...	1	5	...	33	
4	Gonorrhoea ...	10	79	89	35	39	14	1	...	89	
5	Kala Azar ...	2	39	41	5	9	17	6	4	41	
6	Leprosy ...	11	11	11	...	4	6	...	1	11	
7	Malaria ...	10	368	378	269	56	28	12	13	378	
8	Plague ...	...	...	...	...	...	...	...	...	...	
9	Pneumonia ...	4	103	112	57	1	16	38	...	112	
10	Pyrexia of uncertain origin ...	...	100	100	64	2	18	11	5	100	
11	Rheumatic fever and rheumatism ...	3	61	64	29	24	8	...	3	64	
12	Small-pox ...	...	8	8	1	...	7	...	...	8	
13	Syphilis (primary and secondary) ...	5	174	179	56	83	14	...	21	179	
14	Tubercle of the lung ...	11	180	191	4	69	80	29	9	191	
15	Other tubercular diseases ...	9	89	98	25	30	30	5	8	98	
16	All other infective diseases ...	8	730	738	496	50	61	113	15	738	
17	Anaemia ...	4	62	66	12	27	10	13	4	66	
18	Diabetes ...	1	56	57	14	16	15	10	2	57	
19	Scurvy ...	...	1	1	1	...	...	...	...	1	
20	{ New growth { Non-malignant	...	19	19	10	1	...	...	1	19	
21		{ Malignant ...	...	23	28	6	4	14	4	...	28
22	All other general diseases ...	10	84	94	45	30	12	4	3	94	
23	Diseases of the nervous system ...	4	104	108	19	44	30	5	10	108	
24	Do. eye ...	...	9	9	6	3	...	...	...	9	
25	Do. ear ...	1	21	22	12	3	5	...	2	22	
26	Do. nose ...	...	28	28	5	14	5	8	1	28	
27	Do. circulatory system ...	9	172	181	43	81	31	19	7	191	
28	All diseases of the respiratory system except pneumonia and tubercle of the lungs.	12	290	302	111	108	39	30	14	302	
29	Dyspepsia ...	...	35	35	26	5	3	1	...	35	
30	Diarrhoea ...	...	34	34	19	5	4	5	1	34	
31	Abcess of the liver ...	...	33	33	15	6	7	5	...	33	
32	All other diseases of the liver ...	6	112	118	16	43	34	21	4	118	
33	Appendicitis ...	2	20	22	9	7	3	3	...	22	
34	All other diseases of the digestive system ...	41	944	985	558	182	141	77	27	985	
35	Inflammation and suppuration of lymph glands.	9	118	127	62	27	32	2	4	127	
36	Goitre ...	...	...	...	...	...	...	...	...	...	
37	Bright's disease ...	1	35	36	5	14	4	9	4	36	
38	All other diseases of the urinary system ...	10	194	204	94	54	37	7	12	204	
39	Hydrocele ...	8	203	211	172	6	20	2	11	211	
40	Other diseases of the generative system ...	22	166	188	119	32	22	3	12	188	
41	Diseases of the organs of locomotion ...	21	217	238	124	62	41	8	13	238	
42	Diseases of the connective tissue ...	4	208	212	122	24	23	7	31	212	
43	Ulcers ...	2	153	160	85	26	17	6	26	160	
44	Other diseases of the skin ...	16	167	183	121	30	20	12	...	183	
45	All other local diseases ...	5	184	189	83	24	72	8	2	189	
46	Injuries (general and local) ...	8	289	297	186	37	23	23	23	297	
47	{ Poisoning { By opium	1	17	18	16	...	1	1	...	18	
48		{ By other poisons	...	23	23	8	1	7	...	7	23
49	{ Labour { Normal	...	...	...	...	...	...	...	...	...	
50		{ Abnormal	...	...	...	...	...	...	...	...	...
Total ...		267	6,224	6,491	3,333	1,239	1,018	540	311	6,491	

APPENDIX E.

EUROPEANS AND ANGLO-INDIANS.

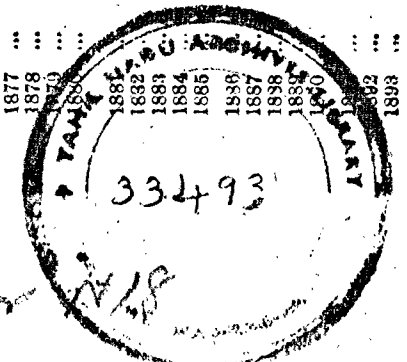
Statement showing the in-patients treated with results in the year 1918.

No.	Diseases.	Remained.	Admitted.	Total.	Results.					Total.
					Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.	
1	Cholera	...	3	3	1	1	...	1	...	3
2	Dysentery	...	78	78	65	4	...	2	...	78
3	Enteric fever	...	15	15	19	1	...	...	...	20
4	Gonorrhoea	...	15	15	2	9	...	...	...	15
5	Kala Azar	...	18	18	6	5	...	4	...	20
6	Leprosy	...	...	...	...	...	...	...	...	...
7	Malaria	...	82	83	71	8	1	1	...	83
8	Plague	...	...	...	...	...	...	...	...	...
9	Pneumonia	...	30	31	20	3	1	7	...	31
10	Pyrexia of uncertain origin	...	86	87	58	10	15	3	1	87
11	Rheumatic fever and rheumatism	...	29	31	11	14	2	1	3	31
12	Small-pox	...	2	2	1	...	...	...	...	2
13	Syphilis (primary and secondary)	...	29	30	11	11	6	...	2	30
14	Tubercle of the lung	...	34	42	6	14	14	3	5	42
15	Other tubercular diseases	...	10	11	...	2	8	1	...	11
16	All other infective diseases	...	354	360	301	15	15	18	11	360
17	Anæmia	...	13	13	8	2	3	...	...	13
18	Diabetes	...	16	16	5	7	4	...	...	16
19	Scurvy	...	2	2	...	...	...	...	...	2
20	New growth	...	2	2	2	...	...	...	...	2
21	Non-malignant	...	5	5	...	...	...	...	...	5
22	Malignant	...	30	32	18	11	4	1	3	32
23	All other general diseases	...	38	39	15	18	3	...	...	39
24	Diseases of the nervous system	...	5	5	3	1	...	...	...	5
25	Do. eye	...	1	1	2	1	...	...	...	2
26	Do. ear	...	8	8	3	1	3	...	...	8
27	Do. nose	...	39	43	10	21	7	2	3	43
28	Do. circulatory system	...	107	110	49	44	2	11	4	110
29	All diseases of the respiratory system except pneumonia and tubercle of the lungs.	...	2	2	4	2	...	...	...	4
30	Dyspepsia	...	1	4	5	...	1	...	...	5
31	Diarrhoea	...	10	10	5	1	3	...	...	10
32	Abscess of the liver	...	13	13	3	8	1	1	...	13
33	All other diseases of the liver	...	24	26	17	6	2	...	...	26
34	Appendicitis	...	265	269	168	41	29	14	17	269
35	All other diseases of the digestive system	...	43	46	26	13	4	1	2	46
36	Inflammation and suppuration of lymph glands.	...	8	8	6	...	2	...	...	8
37	Goitre	...	2	7	9	2	1	4	...	9
38	Bright's disease	...	41	44	20	15	5	1	3	44
39	All other diseases of the urinary system	...	41	41	36	1	3	...	...	41
40	Hydrocele	...	1	29	30	3	2	1	4	30
41	Other diseases of the generative system	...	36	43	30	9	3	...	...	43
42	Diseases of the organs of locomotion	...	47	47	36	4	5	...	...	47
43	Diseases of the connective tissue	...	1	22	23	11	7	1	3	23
44	Ulcers	...	4	28	32	21	5	1	...	32
45	Other diseases of the skin	...	65	67	23	6	37	1	...	67
46	All other local diseases	...	21	21	14	1	2	1	3	21
47	Injuries (general and local)	...	...	...	...	...	...	...	...	...
48	Poisoning { By opium	...	3	3	1	2	...	...	...	3
49	By other poison	...	...	...	...	...	...	...	...	...
50	Labour { Normal	...	...	...	...	...	...	...	...	...
	Abnormal	...	...	...	...	...	...	...	...	...
Total		71	1,760	1,831	1,132	330	204	82	83	1,831

APPENDIX F.

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

Years.	In-patients.										Out-patients.				Total.			
	Total treated.					Average daily sick.					Total treated.		Average daily sick.		Total treated.		Average daily sick.	
	Europeans.		Indians.		Total.	Europeans.		Indians.		Total.	Europeans.		Indians.		Europeans.		Indians.	
	Medical.	Surgical.	Medical.	Surgical.		Medical.	Surgical.	Medical.	Surgical.		Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.
1862	1,118	741	701	32	1,832	631	32	103	103	1,456	672	1,314	151	314	1,780	2,085	82	111
1863	1,326	651	801	37	2,115	721	48	78	78	2,464	837	1,654	131	201	2,056	2,305	751	1071
1864	1,326	650	811	42	2,129	721	48	81	81	2,450	837	1,654	131	201	2,056	2,305	751	1071
1865	1,480	663	62	42	1,585	821	42	107	107	1,734	991	1,984	121	221	2,471	2,647	88	741
1866	1,378	1,238	941	65	2,621	921	65	144	144	2,065	1,251	2,302	131	221	2,729	3,740	1061	1161
1867	1,402	1,265	981	68	2,656	991	68	131	131	2,089	1,729	3,458	17	34	3,131	4,723	1161	1321
1868	1,439	1,439	97	43	2,925	1,001	43	171	171	2,154	2,154	4,308	141	141	3,543	5,777	1141	1261
1869	783	625	700	766	1,869	556	191	75	75	1,577	1,577	5,002	101	411	2,884	6,528	661	1161
1870	663	402	489	781	1,335	291	33	79	79	1,666	1,666	6,093	111	531	2,731	7,544	531	1261
1871	738	475	601	833	1,647	33	33	63	63	1,934	1,934	5,866	15	541	3,147	7,520	721	137
1872	891	469	1,118	838	2,306	431	441	58	58	2,198	2,198	6,607	17	591	3,660	8,613	841	1691
1873	830	460	815	368	1,473	401	221	46	46	2,425	2,425	8,758	101	71	3,715	10,561	791	195
1st quarter of 1874	252	123	287	323	466	201	201	74	74	477	477	2,137	131	64	852	2,777	811	199
1874-75	922	551	995	1,058	2,526	421	26	23	23	2,639	2,639	8,443	18	731	4,112	11,456	961	1911
1875-76	921	458	1,142	1,111	2,632	521	48	11	127	3,001	3,001	9,102	191	811	4,380	12,155	871	1651
1876-77	978	432	2,123	1,104	3,537	39	67	14	41	4,066	4,066	11,959	27	56	5,600	12,786	8475	22101
1877	1,314	650	3,306	1,304	5,574	45	66	19	876	5,292	5,292	13,281	32	10	7,166	17,511	10,433	26554
1878	1,562	2,345	2,535	75	4,477	75	75	164	164	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1879	1,367	2,345	2,535	75	4,477	75	75	164	164	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1880	1,189	2,666	2,535	75	4,477	75	75	164	164	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1881	1,046	2,240	2,240	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1882	1,037	2,221	2,221	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1883	1,044	2,038	2,038	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1884	1,181	2,173	2,173	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1885	1,160	2,313	2,313	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1886	1,209	2,238	2,238	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1887	1,210	2,627	2,627	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1888	1,423	3,432	3,432	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1889	1,433	3,451	3,451	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1890	1,469	3,946	3,946	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1891	1,285	3,416	3,416	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1892	1,273	3,077	3,077	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319
1893	1,329	3,161	3,161	60	3,526	60	60	159	159	4,908	4,908	16,994	33	66	6,470	18,530	10,831	25319



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

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.		Europeans.		Indians.		Europeans.		Indians.		Europeans.		Indians.	
	Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.	Medical.	Surgical.
1894	1,548	3,947	84-21	197-11	57	309	300	377	300	377	300	377	42,350	49-54	292-27	10,013	46,297	133-75	420-38	
1895	1,620	4,233	109-18	260-81	77	300	300	377	300	377	300	377	42,309	51-83	294-23	12,276	46,542	171-01	555-04	
1896	2,150	5,232	111-00	267-91	98	344	344	442	344	442	344	442	42,369	74-48	328-52	16,483	52,674	185-48	596-13	
1897	2,059	5,823	111-59	286-78	130	413	413	533	413	533	413	533	41,363	79-93	346-48	16,327	57,176	191-52	633-26	
1898	1,632	5,119	102-33	282-83	106	449	449	555	449	555	449	555	45,398	79-54	318-28	14,575	50,447	181-87	601-11	
1899	1,627	4,677	106-58	266-08	109	412	412	521	412	521	412	521	42,340	78-87	312-95	13,278	47,067	172-45	580-03	
1900	2,028	5,585	110-24	294-80	138	457	457	605	457	605	457	605	41,829	69-06	370-02	13,206	57,414	179-30	664-52	
1901	1,886	5,032	100-74	278-63	131	523	523	654	523	654	523	654	56,532	67-18	385-13	12,351	61,564	167-92	664-06	
1902	2,015	5,302	109-08	279-61	122	543	543	665	543	665	543	665	50,395	70-92	391-65	12,330	56,697	160-00	674-16	
1903	1,843	5,234	119-49	293-01	138	506	506	644	506	644	506	644	50,219	72-86	381-51	11,566	55,453	131-85	684-52	
1904	1,838	5,036	117-24	272-46	121	450	450	571	450	571	450	571	46,046	68-94	343-58	12,124	51,554	166-18	618-34	
1905	1,879	5,257	108-43	281-30	145	477	477	622	477	622	477	622	46,036	57-14	353-64	10,656	50,323	156-07	634-94	
1906	1,983	4,968	115-26	283-75	133	425	425	558	425	558	425	558	46,589	49-65	345-46	9,940	51,207	104-91	628-21	
1907	1,747	4,592	103-17	284-03	125	393	393	518	393	518	393	518	46,262	46-53	359-36	8,785	50,854	149-70	643-39	
1908	1,979	5,533	111-85	308-63	141	448	448	589	448	589	448	589	708	45-83	382-91	8,517	61,238	157-78	691-54	
1909	1,946	5,629	116-03	306-81	132	514	514	646	514	646	514	646	6,998	47-06	411-16	8,043	61,227	162-09	710-77	
1910	2,038	5,818	113-12	309-95	106	508	508	614	508	614	508	614	45,876	46-72	407-33	8,158	61,584	159-84	717-28	
1911	2,066	5,705	121-41	312-65	138	393	393	529	393	529	393	529	41,453	40-77	393-87	8,173	61,207	162-18	706-52	
1912	2,022	6,270	108-54	327-59	98	454	454	552	454	552	454	552	45,292	35-04	341-75	7,762	61,502	143-58	669-84	
1913	2,057	5,579	123-03	332-63	96	416	416	512	416	512	416	512	47,006	35-24	349-11	8,281	62,585	159-27	681-74	
1914	2,127	6,179	120-18	318-99	78	400	400	484	400	484	400	484	55,807	38-66	421-25	9,174	61,986	158-84	740-24	
1915	1,823	5,740	106-33	291-99	87	353	353	440	353	440	353	440	56,958	27-41	409-77	7,638	62,432	136-74	701-76	
1916	1,743	5,176	94-47	284-76	76	301	301	377	301	377	301	377	53,177	27-57	427-30	6,908	59,353	122-04	712-06	
1917	1,688	5,673	93-90	278-70	62	304	304	369	304	369	304	369	55,183	25-79	459-57	6,378	60,856	119-69	738-27	
1918	1,831	6,401	93-25	311-12	82	540	540	623	540	623	540	623	57,032	25-42	383-60	6,520	63,523	118-67	864-72	

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. Serestre	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. Christ, 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	12 Jan. 1854				
				W. Evans, M.D.	Do.	13 Jan. 1854	14 April 1859				
				T. L. Paul, M.D.	Do.	14 April 1859	2 May 1859				

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- nent.	24 Aug. 1865	21 Aug. 1872	R. W. Cockerill	Acting.	3 May 1869	5 May 1874	J. Maitland, M.D.	Perma- nent.	23 Feb. 1852	27 Jan. 1861	E. P. Drake- Brockman.	Acting.	6 July 1870	25 Oct. 1870	W. B. Browning	Perma- nent.	4 May 1865	31 Dec. 1869	A. M. Brannfoot	Perma- nent.	12 July 1873	30 June 1881	Hall	Perma- nent.	12 July 1873	11 Mar. 1895
G. Smith, M.D.	Acting.	22 June 1868	20 Aug. 1872		Perma- nent.	6 May 1874	24 Feb. 1885	C. M. Thompson	Acting.	10 April 1855	9 July 1855	P. N. Mookerjee	Acting.	26 Oct. 1870	28 Feb. 1875	H. A. F. Nailer	Acting.	9 June 1866	29 Aug. 1869	T. K. Rodgers	Acting.	7 April 1876	27 June 1879	W. B. Browning	Acting.	29 Oct. 1892	18 Mar. 1894
	Perma- nent.	21 Aug. 1872	24 Oct. 1874		Acting.	1 July 1875	31 Aug. 1875	W. R. Browne	Do.	18 Oct. 1856	26 Mar. 1857	P. N. Mookerjee	Do.	7 July 1872	28 Aug. 1872	D. F. Dymott, M.D.	Do.	29 Aug. 1866	10 Nov. 1869	H. Armstrong	Do.	27 June 1879	16 July 1879	W. B. Browning	Do.	16 Mar. 1894	11 April 1895
M. C. Furnell, M.D., C.I.E.	Acting.	2 Sep. 1874	30 Sep. 1874		Do.	6 May 1876	24 May 1876	M. H. Smith	Do.	27 Mar. 1857	11 Aug. 1857	W. K. Wright	Do.	2 July 1873	27 Dec. 1873	J. Smyth, M.D.	Do.	10 Nov. 1895	3 April 1897	C. J. McNally, M.D.	Do.	17 July 1879	30 June 1879	W. B. Browning	Do.	12 April 1894	4 June 1895
	Perma- nent.	24 Oct. 1874	28 Feb. 1875	C. Sibthorpe	Do.	3 Aug. 1876	30 Sep. 1876	A. P. Adams	Do.	12 Aug. 1857	8 Sep. 1857		Do.	6 Aug. 1874	21 Sep. 1874	D. Simpson, M.D.	Do.	3 April 1897	16 April 1898		Perma- nent.	1 July 1881	4 July 1881	W. B. Browning	Do.	12 Mar. 1895	...
	Acting.	1 Mar. 1875	5 April 1880		Do.	7 April 1877	10 April 1877	F. Clarence Smith	Do.	9 Sep. 1857	19 Dec. 1858	D. R. Thompson, M.D.	Do.	13 Nov. 1874	23 Feb. 1875	G. G. Giffard	Do.	18 April 1898	5 June 1898	W. G. King	Acting.	14 April 1892	13 Nov. 1893	W. B. Browning	Do.	5 June 1895	16 Mar. 1896
R. W. Cockerill	Acting.	14 April 1876	24 May 1876	J. L. Retton, M.D.	Do.	11 April 1877	18 June 1878	W. R. Browne	Do.	22 Mar. 1859	17 April 1859		Perma- nent.	1 Mar. 1875	10 May 1875	Dr. A. C. Rendle, M.D.	Do.	6 June 1898	5 July 1898		Do.	1 April 1884	4 July 1884	W. B. Browning	Do.	4 Oct. 1896	27 Oct. 1896
J. E. Dickenson	Do.	25 May 1876	17 April 1877	C. Sibthorpe	Do.	6 July 1880	6 Aug. 1880	W. B. Browning	Do.	18 April 1880	30 Aug. 1880	C. Sibthorpe	Do.	11 May 1875	15 Aug. 1883	G. G. Giffard	Do.	6 July 1893	13 Mar. 1899	D. F. Dymott, M.D.	Do.	5 July 1881	27 Mar. 1885	W. B. Browning	Do.	18 Sep. 1897	13 Oct. 1897
Henry King, M.D.	Perma- nent.	6 April 1880	4 April 1882	W. R. Browne, M.D.	Do.	1 July 1881	30 Sep. 1881	F. J. Crawford, M.D.	Do.	1 Sep. 1880	27 Jan. 1891	W. Butler	Acting.	1 July 1875	30 Aug. 1875	C. Donovan, M.D.	Do.	14 Mar. 1899	10 April 1899	H. Allison, M.D.	Do.	23 Mar. 1895	23 Jan. 1898	W. B. Browning	Do.	18 Oct. 1897	31 Jan. 1898
James Keest, M.D.	Acting.	5 April 1882	15 Aug. 1883		Do.	9 April 1884	5 Oct. 1884		Perma- nent.	25 Jan. 1891	13 Sep. 1900	J. A. Laing, M.D.	Do.	3 July 1876	29 Sep. 1876	R. Robertson	Do.	17 April 1899	14 June 1900	F. C. Reeves	Acting.	29 Oct. 1885	10 Dec. 1885	W. B. Browning	Do.	1 Feb. 1898	20 Feb. 1898
A. Porter, M.D.	Perma- nent.	16 Aug. 1883	4 Jan. 1887		Acting.	1 Oct. 1885	30 June 1889	F. C. Reeves	Acting.	27 June 1891	28 July 1891	A. M. Brannfoot	Do.	28 April 1877	11 July 1878	A. N. Fleming, M.D.	Do.	15 June 1900	9 Aug. 1900	E. C. Reeves	Do.	26 Jan. 1895	5 Dec. 1895	W. B. Browning	Do.	14 Dec. 1899	8 Mar. 1900
	Do.	5 Jan. 1887	25 July 1890	J. L. Retton, M.D.	Perma- nent.	25 Feb. 1885	25 Jan. 1888	D. Simpson, M.D.	Do.	29 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. 1893	23 Mar. 1899	W. B. Browning	Do.	1 Dec. 1898	2 May 1899
C. Sibthorpe	Acting.	12 Aug. 1887	30 Sep. 1887	C. Sibthorpe	Acting.	19 July 1886	31 Aug. 1886	D. Simpson, M.D.	Do.	2 May 1892	2 July 1892	G. L. Walker, M.D.	Do.	15 Dec. 1878	27 July 1879	R. Robertson	Do.	10 Sep. 1900	31 Dec. 1900		Do.	13 Aug. 1886	31 Aug. 1887	C. Rendle	Do.	3 May 1899	15 Dec. 1899
H. Allison, M.D.	Do.	9 Sep. 1888	30 Sep. 1888	J. Maitland, M.D.	Do.	1 Sep. 1890	30 Sep. 1890	R. Robertson	Do.	5 July 1892	23 Jan. 1893	A. J. Sturmer	Do.	4 Sep. 1879	5 Dec. 1879		Perma- nent.	1 Jan. 1901	1 Aug. 1901	T. H. Pope, M.D.	Perma- nent.	26 Jan. 1899	5 Dec. 1899	H. Harrison	Do.	14 Dec. 1899	8 Mar. 1900
J. H. Ritchie, M.D.	Do.	3 April 1889	9 Dec. 1889	W. R. Browne, M.D.	Do.	1 Oct. 1886	16 Nov. 1886	D. Simpson, M.D.	Do.	23 Jan. 1893	31 Mar. 1893	W. R. Browne	Do.	18 Nov. 1880	5 April 1882		Do.				Do.	2 Sep. 1887	23 Dec. 1887	W. B. Browning	Do.	17 Aug. 1900	23 Aug. 1900
C. Sibthorpe	Do.	10 Dec. 1889	15 April 1890	C. Sibthorpe	Do.	17 Nov. 1886	25 Jan. 1888	D. Simpson, M.D.	Do.	1 Apr. 1893	4 Oct. 1893	W. E. Johnson	Do.	6 April 1882	31 Mar. 1885		Do.				Do.	24 Dec. 1887	25 Aug. 1888	W. B. Browning	Do.	18 Mar. 1900	30 Mar. 1900
J. H. Ritchie, M.D.	Perma- nent.	26 July 1890	13 Nov. 1891	C. Sibthorpe	Perma- nent.	29 Jan. 1888	8 Dec. 1890	C. L. Williams	Do.	25 Mar. 1895	6 Nov. 1895	J. Smyth, M.D.	Do.	1 April 1883	13 April 1883	J. Smyth, M.D.	Do.	14 June 1890	31 Aug. 1900		Do.	1 Sep. 1900	7 Mar. 1900	W. B. Browning	Do.	21 May 1900	10 Aug. 1900
W. Price, M.D.	Acting.	29 Sep. 1891	18 Nov. 1891	H. Allison, M.D.	Acting.	29 July 1888	33 Sep. 1888	R. Robertson	Do.	7 Nov. 1893	27 Oct. 1896	G. T. Thomas	Do.	14 April 1893	7 Nov. 1893		Do.				Do.	6 Mar. 1892	5 Dec. 1892	W. B. Browning	Do.	17 Aug. 1900	23 Aug. 1900
	Perma- nent.	19 Nov. 1891	6 April 1896	W. R. Browne, M.D.	Do.	1 Oct. 1888	30 June 1889	P. C. Gabbett	Do.	30 April 1893	12 Mar. 1899	W. R. Browne	Perma- nent.	8 Nov. 1893	28 Oct. 1894	F. Clarence Smith	Do.	23 Aug. 1898	10 Sep. 1898	F. Clarence Smith	Do.	23 Aug. 1898	10 Sep. 1898	W. B. Browning	Do.	18 Mar. 1900	30 Mar. 1900
W. R. Browne, M.D.	Acting.	1 April 1893	30 June 1893	H. Allison, M.D.	Do.	1 July 1889	31 Aug. 1889	W. J. Niblock	Do.	13 Mar. 1890	17 Mar. 1900	J. Smyth, M.D.	Acting.	9 April 1884	5 Oct. 1884	D. B. Browning	Do.	11 Sep. 1893	20 Dec. 1893	J. Niblock	Do.	23 Aug. 1898	10 Sep. 1898	W. B. Browning	Do.	12 July 1900	12 July 1900
J. Maitland, M.D.	Do.	6 Oct. 1893	5 July 1894	W. R. Browne, M.D.	Do.	1 Sep. 1889	31 Jan. 1890	W. J. Niblock, M.D.	Do.	30 Mar. 1900	14 Sep. 1900	G. T. Thomas	Perma- nent.	23 Oct. 1894	27 Mar. 1895	J. Smyth, M.D.	Do.	14 June 1890	31 Aug. 1900	J. Fraser	Do.	14 June 1890	31 Aug. 1900	W. B. Browning	Do.	17 Aug. 1900	23 Aug. 1900
	Do.	15 Aug. 1895	14 Sep. 1895	W. R. Browne, M.D.	Do.	1 Sep. 1889	31 Jan. 1890	W. J. Niblock, M.D.	Do.	13 Mar. 1890	17 Mar. 1900	D. F. Dymott, M.D.	Do.	29 Mar. 1885	30 June 1888	A. E. Grant, M.D.	Sub. pro tem.	6 Mar. 1892	5 Dec. 1892	H. Elliot, M.D.	Do.	6 Dec. 1892	13 Sep. 1900	W. B. Browning	Do.	24 Aug. 1900	8 Feb. 1901
W. R. Browne, M.D.	Perma- nent.	7 April 1896	1 Aug. 1901	W. Price, M.D.	Do.	1 Feb. 1890	16 April 1900	W. J. Niblock, M.D.	Do.	30 Mar. 1900	14 Sep. 1900		Do.	27 Oct. 1885	7 May 1886	T. C. Moore	Acting.	1 April 1893	20 June 1893	H. Harrison	Do.	6 Feb. 1901	3 April 1901	W. B. Browning	Do.	11 Aug. 1901	11 Aug. 1901
H. Allison, M.D.	Acting.	2 July 1897	2 Aug. 1897	W. Price, M.D.	Do.	15 May 1899	28 Sep. 1899		Do.	15 Sep. 1899	1 Aug. 1901	H. A. F. Nailer, M.D.	Sub. pro tem.	23 June 1886	23 Dec. 1887	G. G. Giffard	Do.	12 June 1894	3 July 1894	W. H. Murray, M.D.	Do.	4 April 1901	1 Aug. 1901	W. B. Browning	Do.	11 Aug. 1901	11 Aug. 1901
J. Maitland, M.D.	Do.	26 May 1898	25 June 1898	W. R. Browne, M.D.	Perma- nent.	9 Dec. 1899	6 April 1890		Do.	15 Sep. 1899	1 Aug. 1901	J. Smyth, M.D.	Do.	24 Dec. 1887	20 June 1888	R. Robertson	Do.	12 June 1894	3 July 1894		Do.	4 July 1894	14 Nov. 1895	W. B. Browning	Do.	12 July 1900	12 July 1900
G. L. Walker, M.D.	Do.	5 April 1900	7 Jan. 1901	J. Maitland, M.D.	Acting.	7 April 1893	5 July 1894	J. Smyth, M.D.	Do.	15 Aug. 1895	14 Sep. 1895	F. C. Reeves	Acting.	1 July 1885	5 June 1895	Dr. V. O. Taylor	Do.	4 July 1894	14 Nov. 1895		Do.	22 June 1898	5 July 1898	W. B. Browning	Do.	12 July 1900	12 July 1900
				J. Maitland, M.D.	Do.	15 Aug. 1895	14 Sep. 1895	J. Maitland, M.D.	Do.	15 Sep. 1895	6 April 1896	G. C. Hall	Do.	7 April 1889	24 Sep. 1889	Dr. A. Woodward	Do.	7 April 1899	6 July 1899	F. D. S. Fayer	Do.	12 June 1894	3 July 1894	W. B. Browning	Do.	12 July 1900	12 July 1900
				J. Maitland, M.D.	Do.	15 Sep. 1895	6 April 1896	J. Maitland, M.D.	Perma- nent.	Apr. 1896	1 Aug. 1901	A. E. Grant, M.D.	Do.	21 July 1892	11 Aug. 1892	C. Donovan, M.D.	Sub. pro tem.	14 Sep. 1900	1 Aug. 1901		Do.	12 June 1894	3 July 1894	W. B. Browning	Do.	12 July 1900	12 July 1900
				J. Maitland, M.D.	Acting.	4 April 1896	3 July 1896	J. Smyth, M.D.	Do.	12 Aug. 1892	21 Sep. 1892	E. H. Wright	Do.	12 Aug. 1892	21 Sep. 1892	G. G. Giffard	Acting.	21 Jan. 1901	2 April 1901		Do.	21 Jan. 1901	2 April 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
				H. Allison, M.D.	Do.	30 Mar. 1899	3 July 1899	H. Allison, M.D.	Do.	30 Mar. 1899	3 July 1899	D. Simpson, M.D.	Do.	7 May 1893	1 June 1893	H. St. J. Fraser	Do.	3 April 1901	11 May 1901		Do.	3 April 1901	11 May 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
				F. J. Crawford	Do.	30 Jan. 1900	16 Feb. 1900	F. J. Crawford	Do.	30 Jan. 1900	16 Feb. 1900	C. F. Pearnside	Do.	2 June 1893	2 Sep. 1893	H. St. J. Fraser	Do.	3 April 1901	11 May 1901		Do.	3 April 1901	11 May 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
				H. Allison, M.D.	Do.	31 Mar. 1900	11 May 1900	F. J. Crawford	Do.	31 Mar. 1900	11 May 1900	C. L. Williams	Do.	8 Sep. 1893	6 Mar. 1895	P. C. Gabbett	Do.	12 May 1901	11 Aug. 1901		Do.	12 May 1901	11 Aug. 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
				H. Allison, M.D.	Do.	1 May 1900	25 June 1900		Do.	1 May 1900	25 June 1900	G. G. Giffard	Perma- nent.	5 June 1892	6 Nov. 1899		Do.				Do.	12 May 1901	11 Aug. 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
				F. J. Crawford	Do.	29 June 1900	14 Sep. 1900		Do.	29 June 1900	14 Sep. 1900	R. Robertson	Acting.	9 July 1896	11 Aug. 1896		Do.				Do.	12 May 1901	11 Aug. 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
				F. J. Crawford	Do.	29 June 1900	14 Sep. 1900		Do.	29 June 1900	14 Sep. 1900	E. H. Wright	Do.	12 Aug. 1896	4 Oct. 1893		Do.				Do.	12 May 1901	11 Aug. 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
				G. G. Giffard	Do.	15 Sep. 1900	24 Dec. 1900		Do.	15 Sep. 1900	24 Dec. 1900	Dr. A. C. Rendle, M.D.	Do.	17 April 1899	1 Dec. 1899		Do.				Do.	12 May 1901	11 Aug. 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
									Do.	15 Sep. 1900	24 Dec. 1900	H. Fraser	Do.	2 Dec. 1898	6 Nov. 1899		Do.				Do.	12 May 1901	11 Aug. 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
									Do.	15 Sep. 1900	24 Dec. 1900	A. N. Fleming	Acting.	6 April 1900	...		Do.				Do.	12 May 1901	11 Aug. 1901	W. B. Browning	Do.	12 July 1900	12 July 1900
									Do.	15 Sep. 1900	24 Dec. 1900	T. E. Watson, M.D.	Do.	7 April 1900	3 July 1900		Do.				Do.	12 May 1901	11 Aug. 1901	W. B. Browning	Do.	12 July 1900	12 July 1900

STATEMENT A
Showing the number of dispensaries in the Government General Hospital, Madras, during the year 1918. [Population of the City 518,660.]

Class of dispensary	Number open on 31st December 1918.	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
1.—State-Public	1	...	...	...	...

STATEMENT B

Showing the number of in-door and out-door patients treated in the State-Public of Government General Hospital, Madras, during the year 1918.

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 wise.	Died.	Ratio of deaths per cent to total treated.	Number of beds avail- able.	Daily average number.					Number treated.					Average daily attendance.										
			Men.	Women.	Male.	Female.	Total.							Men.	Women.	Children.	Male.	Female.	Total.	Men.	Women.	Male.		Female.	Total.	Men.	Women.	Children.	Male.	Female.	Total.			
1	2	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.	1.—STATE-PUBLIC.	4,990	1,185	206	110	6,491	5,533	1,259	1,018	640	8.82	216	71	229	197	12	02	6'00	311	112	57,032	...	39,457	8,607	4,744	1,104	67,033	235-87	60'71	36'05	30'97	393'60	63,523
			1,072	562	104	45	1,841	1,182	330	204	82	4.45	92	57	58	539	25'31	8'60	5'39	93'25	4,689	...	2,513	1,106	509	413	4,659	12'28	7'18	3'50	2'48	25'42	6,380	
			6,062	1,747	310	203	8,322	6,465	1,610	1,222	822	7.47	310	127	297	41	80'81	15'82	11'33	40'37	61,721	...	42,100	9,703	5,313	1,606	61,721	266'18	67'88	32'55	38'45	409'02	70,043	

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, III, IV of the classes shown in Statement A.
- (3) In column 2 individual dispensaries should be shown, the dispensaries being arranged by districts. The arrangement of districts should be geographical, not alphabetical. In each district should be shown first: A.—General dispensaries, that is to say, dispensaries open to both sexes, and then B.—Female dispensaries. The whole statement will conclude with a provincial total for A.—General dispensaries, a provincial total for B.—Female dispensaries, and a combined provincial total.
- (4) In 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 to 8 and 23 to 27) should include both those reported 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.

APPENDIX G--cont.

Nominal Register of Medical Officers of the Government General Hospital, Madras, from 2nd August 1911.

(G. 371, Educational, dated 2nd July 1901; G.O. No. 826, Public, dated 18th August 1901; G.O. No. 16, Public, dated 3rd January 1902; and G.O. No. 1177, Public, dated 1st July 1902).

Senior Medical Officer.				First Physician.				Second Physician.				Third Physician.				Fourth Physician.				First Surgeon.			
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.
W. R. Browne, M.D., Lieut.-Col., I.M.S.	Permanent.	2 Aug. 1901	18 May 1903	H. 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	29 June 1913	R. K. Mitter, Captain, I.M.S.	Permanent.	2 Aug. 1901	2 Mar. 1902	G. G. Giffard, Major, I.M.S.	Permanent.	2 Aug. 1901	18 May 1905	J. Maudslayi, M.D., Lieut.-Col., I.M.S.	Permanent.	2 Aug. 1901	18 May 1903
F. J. Crawford, M.D., Major, I.M.S.	Acting.	19 May 1902	29 June 1903	F. J. Crawford, M.D., Major, I.M.S.	Acting.	9 Jan. 1903	27 Feb. 1903	F. D. S. Fyter, Captain, I.M.S.	Acting.	2 Aug. 1903	27 Feb. 1903	W. H. Murray, M.D., Doctor, Plague.	Acting.	2 Aug. 1901	18 Nov. 1901	P. C. Garbett, Captain, I.M.S.	Acting.	2 Aug. 1901	23 Feb. 1902	T. H. Symons, Captain, I.M.S.	Acting.	2 June 1902	30 June 1902
J. Maudslayi, M.D., Lieut.-Col., I.M.S.	Do.	7 Nov. 1902	18 May 1903	A. Miller, Captain, I.M.S.	Do.	23 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	9 April 1903	H. St. J. Fraser, Captain, I.M.S.	Do.	19 Nov. 1901	2 Mar. 1902	F. D. S. Fyter, Captain, I.M.S.	Do.	27 Feb. 1902	7 Jan. 1903	W. B. Browning, Lieut.-Col., I.M.S.	Do.	7 Nov. 1902	8 Jan. 1903
J. Maudslayi, M.D., Lieut.-Col., I.M.S.	Permanent.	10 May 1903	31 Mar. 1903	W. A. Lee, Lieut.-Col., I.M.S.	Do.	6 May 1904	31 Oct. 1905	C. Donovan, M.D., Major, I.M.S.	Do.	9 Jan. 1903	9 April 1903	Do.	Permanent.	3 Mar. 1902	13 Mar. 1903	T. H. Symons, Captain, I.M.S.	Do.	22 Feb. 1903	13 April 1903	H. Robertson, Major, I.M.S.	Do.	9 Jan. 1903	8 April 1903
H. Robertson, Major, I.M.S.	Acting.	20 May 1903	30 June 1903	C. Donovan, M.D., Major, I.M.S.	Do.	22 May 1910	10 Nov. 1910	C. Donovan, M.D., Major, I.M.S.	Permanent.	11 April 1903	10 Nov. 1910	F. D. S. Fyter, Captain, I.M.S.	Acting.	27 Mar. 1902	4 April 1902	O. H. Tucker, Captain, I.M.S.	Do.	14 April 1903	3 July 1903	W. J. Niblock, M.D., Captain, I.M.S.	Do.	9 April 1903	23 Dec. 1903
W. A. Lee, Lieut.-Col., I.M.S.	Do.	18 May 1904	17 June 1903	H. Kirkpatrick, Major, I.M.S.	Do.	24 Mar. 1911	7 July 1911	T. H. Foulkes, Major, I.M.S.	Acting.	8 Dec. 1905	10 July 1907	H. Kirkpatrick, Captain, I.M.S.	Do.	4 April 1902	8 Dec. 1902	T. H. Symons, Captain, I.M.S.	Permanent.	10 May 1903	6 Nov. 1909	G. G. Giffard, Major, I.M.S.	Permanent.	10 May 1903	18 May 1906
W. B. Browning, C.R.S., 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.)	E. W. Browne, Captain, I.M.S.	Do.	22 May 1910	17 July 1910	W. H. Tucker, Captain, I.M.S.	Do.	9 Dec. 1902	3 July 1903	F. F. Elwes, Captain, I.M.S.	Acting.	4 July 1903	12 July 1903	W. B. Browning, Lieut.-Col., I.M.S.	Acting.	12 June 1903	3 July 1905
W. B. Browning, C.R.S., Lieut.-Col., I.M.S.	Permanent.	1 April 1906	16 May 1910	W. Molesworth, Lieut.-Col., I.M.S.	Do.	28 June 1912	15 Dec. 1912	A. C. Ingram, Captain, I.M.S.	Do.	15 Dec. 1910	17 July 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.	Do.	10 May 1904	19 May 1904	P. C. Garbett, Major, I.M.S.	Permanent.	19 May 1906	25 Aug. 1912
F. J. Crawford, M.D., Major, I.M.S.	Acting.	11 May 1903	23 Dec. 1903	F. F. Elwes, Major, I.M.S.	Do.	18 Dec. 1912	6 June 1913	T. S. Ross, Major, I.M.S.	Do.	29 Aug. 1911	17 July 1911	T. H. Symons, Captain, I.M.S.	Acting.	4 July 1903	12 July 1903	T. W. Harley, Lieut., I.M.S.	Do.	30 May 1904	10 June 1904	T. H. Symons, Major, I.M.S.	Acting.	22 Jan. 1909	15 July 1909
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	W. C. Gray, Captain, I.M.S.	Do.	1 Dec. 1911	10 July 1912	T. H. Symons, Captain, I.M.S.	Do.	13 July 1903	30 Aug. 1903	W. C. Long, Captain, I.M.S.	Do.	13 July 1906	11 May 1906	W. J. Niblock, Major, I.M.S.	Do.	29 Aug. 1910	30 April 1911
H. Robertson, Lieut.-Col., I.M.S.	Do.	28 Sep. 1903	22 Nov. 1909	F. F. Elwes, Major, I.M.S.	Made permanent on 30 June 1913.			F. F. Elwes, Major, I.M.S.	Do.	23 Jan. 1912	10 July 1912	W. H. Tucker, Captain, I.M.S.	Do.	31 Aug. 1903	30 Oct. 1903	F. F. Elwes, Captain, I.M.S.	Do.	12 May 1906	11 June 1906	A. Chalmers, Captain, I.M.S.	Do.	1 May 1911	31 May 1911
C. M. Thompson, M.D., Lieut.-Col., I.M.S.	Do.	23 Nov. 1909	16 May 1914	F. F. Elwes, Major, I.M.S.	Permanent.	30 June 1913		C. G. Webster, Major, I.M.S.	Do.	15 Dec. 1912	17 July 1912	D. C. Kemp, Captain, I.M.S.	Do.	21 Feb. 1904	1 Mar. 1904	W. C. Long, Captain, I.M.S.	Do.	13 June 1906	11 Nov. 1906	W. J. Niblock, M.D., Major, I.M.S.	Do.	1 June 1911	8 Sep. 1912
C. M. Thompson, M.D., Lieut.-Col., I.M.S.	Permanent.	17 May 1910	31 Mar. 1911	J. M. Skinner, Captain, I.M.S. (Retired.)	Acting.	13 June 1914	16 June 1914	J. W. Illius, Major, I.M.S.	Do.	29 July 1913	16 Oct. 1914	F. F. Elwes, Captain, I.M.S.	Do.	2 Mar. 1904	19 Oct. 1904	W. R. J. Scroggie, Captain, I.M.S.	Do.	20 May 1907	21 May 1907	T. H. Symons, Major, I.M.S.	Do.	9 Sep. 1912	18 May 1913
W. J. Niblock, Major, I.M.S.	Acting.	1 April 1911	4 April 1911	W. Molesworth, C.R.S., M.D., Lieut.-Col., I.M.S.	Do.	17 June 1914	14 Sep. 1914	E. C. C. Macnoll, Major, I.M.S.	Do.	30 June 1914	14 Sep. 1914	D. G. Rai, Lieut., I.M.S.	Do.	20 Oct. 1905	25 Oct. 1904	D. G. Rai, Captain, I.M.S.	Do.	26 May 1907	1 Dec. 1907	W. J. Niblock, M.D., Major, I.M.S.	Permanent.	26 Aug. 1912	
E. Hassell Wright, Lieut.-Col., I.M.S.	Sub. pro tem.	5 April 1911	7 July 1911	W. Molesworth, C.R.S., M.D., Lieut.-Col., I.M.S.	Do.	24 May 1905	14 June 1915	J. W. Illius, Major, I.M.S.	Do.	13 Aug. 1914	17 July 1914	D. G. Rai, Lieut., I.M.S.	Do.	15 May 1905	12 Nov. 1905	R. W. Browne, Captain, I.M.S.	Do.	2 Dec. 1907	28 Feb. 1908	E. W. C. Bradfield, Captain, I.M.S.	Acting.	19 May 1913	29 June 1913
H. Robertson, Lieut.-Col., I.M.S.	Acting.	8 July 1911	31 Mar. 1912	W. Molesworth, C.R.S., M.D., Lieut.-Col., I.M.S.	Do.	18 Sep. 1915	27 Sep. 1916	A. C. Ingram, Captain, I.M.S.	Do.	6 Sep. 1914	17 July 1914	J. W. Illius, Captain, I.M.S.	Do.	11 May 1906	22 July 1906	E. W. Browne, Captain, I.M.S.	Permanent.	7 May 1908		T. H. Symons, Major, I.M.S.	Do.	30 June 1913	6 Dec. 1913
H. Robertson, Lieut.-Col., I.M.S.	Permanent.	1 April 1912	30 June 1913	J. J. Robb, M.B., B.Sc., B.A.O., D.P.H., Major, I.M.S.	Do.	1 June 1917	30 June 1917	W. Molesworth, C.R.S., M.D., Lieut.-Col., I.M.S.	Made permanent on 27 July 1917.			W. H. Tucker, Captain, I.M.S.	Do.	23 July 1909	22 Dec. 1906	J. M. Skinner, Captain, I.M.S.	Acting.	22 May 1910	18 Nov. 1910	A. Chalmers, M.B., Major, I.M.S.	Do.	1 June 1916	30 June 1916
W. J. Niblock, Major, I.M.S.	Acting.	26 June 1912	(One day only.)	E. M. Illington, M.D., M.B.C.S., Lieut.-Col., I.M.S.	Do.	6 May 1918	12 June 1918	F. F. Elwes, C.R.S., M.D., M.B.C.S., Lieut.-Col., I.M.S.	Permanent.	17 June 1914	17 July 1914	D. S. A. O'Rourke, Captain, I.M.S.	Do.	24 Mar. 1908	2 April 1908	M. J. Yards, distributed among M-1, M-2 and M-3.		16 July 1911	27 Aug. 1911	C. H. L. Palk, M.B., M.B.C.S., Major, I.M.S.	Do.	8 June 1917	9 June 1917
W. Molesworth, M.D., Lieut.-Col., I.M.S.	Do.	26 June 1912	13 Dec. 1912	C. Donovan, M.D., Lieut.-Col., I.M.S.	Do.	19 July 1918	23 July 1918	F. F. Elwes, C.R.S., M.D., M.B.C.S., Lieut.-Col., I.M.S.	Acting.	13 June 1915	17 July 1915	A. C. Ingram, Captain, I.M.S.	Do.	16 Oct. 1908	21 May 1909	A. C. Ingram, Captain, I.M.S.	Acting.	25 Aug. 1911	2 June 1912	E. M. Illington, M.D., M.B.C.S., Lieut.-Col., I.M.S.	Do.	10 June 1917	13 June 1917
C. G. Webster, Major, I.M.S.	Do.	15 Dec. 1912	23 July 1913	J. Kirkwood, M.B., F.R.C.S., Major, I.M.S.	Do.	18 Sep. 1918	27 Sep. 1918	Dr. F. R. S. Milton, F.R.C.S., M.B.C.S., F. F. Elwes, C.R.S., M.D., Major, I.M.S.	Do.	2 June 1916	17 July 1916	E. W. Browne, Captain, I.M.S.	Do.	21 May 1909	3 July 1909	J. L. Macrae, Major, I.M.S.	Do.	3 June 1912	2 July 1912	A. Chalmers, M.B., Major, I.M.S.	Do.	10 May 1918	10 June 1918
H. Kirkpatrick, Major, I.M.S.	Do.	29 July 1913	7 April 1914	Do.	Do.	2 Dec. 1919	17 Dec. 1919	T. S. Ross, Lieut.-Col., I.M.S.	Do.	9 Jan. 1917	20 Jan. 1917	E. A. Roberts, Captain, I.M.S.	Do.	4 July 1903	15 May 1910	A. C. Ingram, Captain, I.M.S.	Do.	3 July 1912	29 June 1913	F. F. Elwes, Major, I.M.S.	Do.	18 Sep. 1915	27 Sep. 1915
W. J. Niblock, M.D., Major, I.M.S.	Do.	8 April 1914	16 June 1914	Do.	Do.			F. F. Elwes, C.R.S., M.D., M.B.C.S., Major, I.M.S.	Do.	1 May 1917	31 July 1917	C. H. L. Palk, M.D., F.R.C.S., (Ed.), Major, I.M.S. (Retd.)	Do.	16 May 1910	15 June 1910	A. J. H. Russell, Captain, I.M.S.	Do.	30 June 1913	2 July 1913	E. M. Illington, M.B.C.S., Lieut.-Col., I.M.S.	Do.		
W. Molesworth, C.R.S., M.D., Lieut.-Col., I.M.S.	Permanent.	17 June 1914		Do.	Do.			F. F. Elwes, C.R.S., M.D., Major, I.M.S.	Do.	1 June 1917	31 July 1917	R. E. Wright, Captain, I.M.S.	Do.	8 April 1914	31 June 1914	T. S. Ross, Major, I.M.S.	Sub. pro tem.	6 Nov. 1915	10 Nov. 1915	C. A. F. Hingston, M.B.C.S., Lieut.-Col., I.M.S.	Do.	1 Feb. 1917	6 June 1918
W. J. Niblock, Lieut.-Col., I.M.S.	Acting.	15 June 1915	4 July 1915	Do.	Do.			C. H. L. Palk, M.D., F.R.C.S., (Ed.), Major, I.M.S. (Retd.)	Do.	1 June 1917	31 July 1917	A. J. H. Russell, Captain, I.M.S.	Do.	1 July 1914	9 Oct. 1914	C. A. F. Hingston, M.B.C.S., Lieut.-Col., I.M.S.	Acting.	11 Nov. 1916	31 Jan. 1917	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	7 June 1918	13 June 1918
W. J. Niblock, Lieut.-Col., I.M.S.	Do.	13 May 1916	31 May 1916	Do.	Do.			M. R. Guruswami Mudaliyar, B.A., M.B., C.M., Civil Asst. Surgeon.	Do.	22 June 1917	27 July 1918	R. E. Wright, Captain, I.M.S.	Do.	10 Oct. 1914	17 Jan. 1915	M. R. Guruswami Mudaliyar, B.A., M.B., C.M., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
C. H. L. Palk, M.D., F.R.C.S., (Ed.), Major, I.M.S. (Retd.)	Do.	1 June 1916	17 Sep. 1916	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	16 June 1918	10 July 1918	M. R. Guruswami Mudaliyar, B.A., M.B., C.M., Civil Asst. Surgeon.	Do.		
W. J. Niblock, Lieut.-Col., I.M.S.	Do.	18 Sep. 1916	17 Oct. 1916	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
C. H. L. Palk, M.D., F.R.C.S., (Ed.), Major, I.M.S. (Retd.)	Do.	18 Sep. 1916	17 Oct. 1916	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
W. J. Niblock, Lieut.-Col., I.M.S.	Do.	9 Sep. 1917	8 Oct. 1917	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
C. H. L. Palk, M.D., F.R.C.S., (Ed.), Major, I.M.S. (Retd.)	Do.	9 Oct. 1917	10 Jan. 1917	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
W. J. Niblock, Lieut.-Col., I.M.S.	Do.	20 Jan. 1917	5 Feb. 1918	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
E. M. Illington, M.D., M.B.C.S., Lieut.-Col., I.M.S.	Sub. pro tem.	6 Feb. 1918	17 June 1918	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
W. J. Niblock, Lieut.-Col., I.M.S.	Acting.	19 June 1918	23 July 1918	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
E. M. Illington, M.D., M.B.C.S., Lieut.-Col., I.M.S.	Sub. pro tem.	23 July 1918	6 Oct. 1918	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
W. J. Niblock, Lieut.-Col., I.M.S.	Acting.	7 Oct. 1918	16 Oct. 1918	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
E. M. Illington, M.D., M.B.C.S., Lieut.-Col., I.M.S.	Sub. pro tem.	17 Oct. 1918	22 Dec. 1918	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
W. J. Niblock, Lieut.-Col., I.M.S.	Acting.	23 Dec. 1918	2 Jan. 1919	Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		
E. M. Illington, M.D., M.B.C.S., Lieut.-Col., I.M.S.	Sub. pro tem.	3 Jan. 1919		Do.	Do.			M. L. Kamath, B.A., M.D., C.M., Civil Asst. Surgeon.	Do.	23 Dec. 1918	27 Dec. 1918	T. S. Ross, Lieut.-Col., I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Komar, M.D. & M.B., Civil Asst. Surgeon.	Do.	10 July 1918	28 July 1918	Komar, M.B., M.B.C.S., Lieut.-Col., I.M.S.	Do.		

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

† Reverted to Military duty.

Nominal Register of Medical Officers of the Government General Hospital, Madras, from 2nd August 1911

ational, dated 2nd July 1901; G.O. No. 826, Public, dated 13th August 1901; G.O. No. 16, Public, dated 3rd January 1902; and G.O. No. 1177, Public, dated 20th November 1902.)

Third Physician.				Fourth Physician.				First Surgeon.				Second Surgeon.				Third Surgeon.				Resident 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	
		From	To			From	To			From	To			From	To			From	To			From	To
R. K. Mitter, M.B., Captain, I.M.S.	Permanent.	2 Aug. 1901	2 Mar. 1902	G. G. Giffard, Major, I.M.S.	Permanent.	2 Aug. 1901	18 May 1903	J. Maitland, 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, 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
W. H. Murray, M.B., Plague Doctor.	Acting.	2 Aug. 1901	18 Nov. 1901	P. C. Gabbett, Captain, I.M.S.	Acting.	2 Aug. 1901	28 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. B. Harrison, Captain, I.M.S.	Acting.	3 Mar. 1902	10 Feb. 1905
H. St. J. Fraser, Captain, I.M.S.	Do.	19 Nov. 1901	2 Mar. 1902	F. D. S. Fayer, Captain, I.M.S.	Do.	27 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.	Do.	19 Nov. 1902	1 May 1903
Do.	Permanent.	3 Mar. 1902	13 Mar. 1903	T. H. Symons, Captain, I.M.S.	Do.	22 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. 1905	13 June 1906	A. Miller, Captain, I.M.S.	Do.	29 Sep. 1902	2 Nov. 1902
F. D. S. Fayer, Captain, I.M.S.	Acting.	27 Mar. 1902	4 April 1902	D. H. Tucker, Captain, I.M.S.	Do.	14 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 1903	13 July 1906	T. H. Symons, Captain, I.M.S.	Do.	3 Nov. 1902	9 Mar. 1903
H. Kirkpatrick, Captain, I.M.S.	Do.	5 April 1902	8 Dec. 1902	T. H. Symons, Captain, I.M.S.	Permanent.	19 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	F. F. Elwes, Captain, I.M.S.	Do.	14 July 1906	5 Mar. 1907	F. F. Elwes, Captain, I.M.S.	Do.	10 Mar. 1903	1 Mar. 1904
W. H. Tucker, Captain, I.M.S.	Do.	9 Dec. 1902	3 July 1903	F. F. Elwes, Captain, I.M.S.	Acting.	4 July 1903	12 July 1903	W. B. Browning, Lieut.-Col., I.M.S.	Acting.	12 June 1903	3 July 1905	F. J. Crawford, Major, I.M.S.	Permanent.	12 April 1903	5 Nov. 1905	J. W. Illius, Captain, I.M.S.	Do.	6 Mar. 1907	29 April 1907	D. O. Kemp, Captain, I.M.S.	Do.	2 Mar. 1904	21 Jan. 1905
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.	Do.	16 May 1904	19 May 1904	P. G. Gabbett, Major, I.M.S.	Permanent.	19 May 1906	25 Aug. 1912	W. 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. Rai, Captain, I.M.S.	Do.	25 Jan. 1905	11 June 1905
F. F. Elwes, Captain, I.M.S.	Acting.	4 July 1903	12 July 1903	T. W. Harley, Lieut., I.M.S.	Do.	20 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.	18 Feb. 1906	29 Mar. 1906	R. D. Willocks, Captain, I.M.S.	Do.	29 April 1908	39 April 1908	W. R. Scroggie, Captain, I.M.S.	Do.	14 Feb. 1907	30 Oct. 1908
T. H. Symons, Captain, I.M.S.	Do.	13 July 1903	30 Aug. 1903	W. C. Long, Captain, I.M.S.	Do.	13 July 1905	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	E. W. Browne, Captain, I.M.S.	Do.	1 July 1908	5 Nov. 1909
W. H. Tucker, Captain, I.M.S.	Do.	31 Aug. 1903	30 Oct. 1903	F. F. Elwes, Captain, I.M.S.	Do.	12 May 1906	11 June 1906	A. Chalmers, Captain, I.M.S.	Do.	1 May 1911	31 May 1911	T. H. Symons, Captain, I.M.S.	Do.	3 May 1907	29 Feb. 1908	T. H. Symons, Major, I.M.S.	Do.	10 July 1903	15 Aug. 1909	R. B. Foster, Captain, I.M.S.	Acting.	31 Oct. 1909	4 Feb. 1910
D. O. Kemp, Captain, I.M.S.	Do.	21 Feb. 1904	1 Mar. 1904	W. C. Long, Captain, I.M.S.	Do.	12 June 1906	11 Nov. 1906	W. J. Niblock, M.B., 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	M. J. Quirke, Captain, I.M.S.	Permanent.	6 Nov. 1909	5 May 1910
F. F. Elwes, Captain, I.M.S.	Do.	2 Mar. 1904	19 Oct. 1904	W. R. J. Scroggie, Captain, I.M.S.	Do.	20 May 1907	25 May 1907	T. H. Symons, Major, I.M.S.	Do.	9 Sep. 1912	19 May 1913	L. Hirsch, Captain, I.M.S.	Do.	22 Jan. 1909	2 May 1909	W. J. Niblock, M.B., Major, I.M.S.	Do.	11 Mar. 1910	13 Mar. 1910	E. A. Roberts, Captain, I.M.S.	Acting.	5 Feb. 1910	17 July 1910
D. G. Rai, Lieut., I.M.S.	Do.	20 Oct. 1904	25 Oct. 1904	D. G. Rai, Captain, I.M.S.	Do.	26 May 1907	1 Dec. 1907	W. J. Niblock, M.B., Major, I.M.S.	Permanent.	26 Aug. 1912	...	E. W. Browne, Captain, I.M.S.	Do.	3 May 1909	29 May 1909	L. Hirsch, Captain, I.M.S.	Do.	14 Mar. 1910	16 Apr. 1910	J. M. Skinner, Captain, I.M.S.	Do.	14 Oct. 1910	Only one day.
D. G. Rai, Lieut., I.M.S.	Do.	15 May 1905	12 Nov. 1905	E. W. Browne, Captain, I.M.S.	Do.	2 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	18 Jan. 1910	L. Hirsch, Captain, I.M.S.	Do.	14 Mar. 1910	16 Apr. 1910	A. C. Ingram, Captain, I.M.S.	Do.	15 Oct. 1910	4 Dec. 1910
J. W. Illius, Captain, I.M.S.	Do.	16 Feb. 1906	20 Mar. 1906	E. W. Browne, Captain, I.M.S.	Permanent.	7 May 1908	A.N.	T. H. Symons, Major, I.M.S.	Do.	30 June 1913	0 Dec. 1913	W. J. Niblock, M.B., Major, I.M.S.	Permanent.	6 Nov. 1909	25 Aug. 1912	D. H. Gurnea, Major, I.M.S.	Do.	11 April 1910	29 June 1910	J. M. Skinner, Captain, I.M.S.	Do.	5 Dec. 1910	16 Jan. 1911
J. W. Illius, Captain, I.M.S.	Do.	11 May 1906	23 July 1906	E. W. Browne, Captain, I.M.S.	Permanent.	7 May 1908	A.N.	A. Chalmers, Major, I.M.S.	Do.	1 June 1916	30 June 1916	W. J. Niblock, M.B., Major, I.M.S.	Permanent.	6 Nov. 1909	25 Aug. 1912	M. J. Quirke, Captain, I.M.S.	Do.	31 June 1910	17 July 1910	M. J. Quirke, Captain, I.M.S.	Do.	17 Jan. 1911	17 July 1911
W. H. Tucker, Captain, I.M.S.	Do.	23 July 1906	22 Dec. 1906	J. M. Skinner, Captain, I.M.S.	Acting.	22 May 1910	16 Nov. 1910	C. A. F. Hingston, M.B., Lieut.-Col., I.M.S.	Do.	14 May 1917	7 June 1917	T. H. Symons, Major, I.M.S.	Do.	26 Aug. 1912	...	W. J. Niblock, M.B., Major, I.M.S.	Do.	18 July 1910	19 Aug. 1910	S. Bose, Captain, I.M.S.	Do.	18 July 1911	4 Sep. 1911
T. H. Symons, Captain, I.M.S.	Do.	30 May 1907	19 June 1907	M-1 Wards distributed among M-1, M-2 and M-3.	...	16 July 1911	27 Aug. 1911	C. H. L. Palk, M.B., F.R.C.S. (Ed.), I.M.S. (Ret.), E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	6 June 1917	9 June 1917	A. Chalmers, Captain, I.M.S.	Acting.	26 Aug. 1910	15 Mar. 1912	L. Hirsch, Captain, I.M.S.	Do.	36 Aug. 1910	25 June 1912	A. H. G. Lorimer, Captain, I.M.S.	Do.	1 Oct. 1912	31 Oct. 1912
D. S. A. O'Keefe, Captain, I.M.S.	Do.	24 Mar. 1908	2 April 1908	A. C. Ingram, Captain, I.M.S.	Acting.	25 Aug. 1911	2 June 1912	E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	10 June 1917	13 June 1917	W. J. Gray, Captain, I.M.S.	Do.	16 Mar. 1912	27 Mar. 1912	J. L. Macrae, Lieut.-Col., I.M.S.	Do.	26 June 1912	31 Oct. 1912	A. J. H. Russell, Captain, I.M.S.	Do.	1 Nov. 1912	11 Aug. 1913
J. W. Illius, Captain, I.M.S.	Do.	3 April 1908	15 Oct. 1908	J. L. Macrae, Major, I.M.S.	Do.	3 June 1912	2 July 1912	A. Chalmers, M.B., F.R.C.S.I., Major, I.M.S.	Do.	16 May 1918	16 June 1918	T. H. Symons, Major, I.M.S.	Do.	28 Mar. 1912	9 Sep. 1912	T. W. Harley, Captain, I.M.S.	Permanent.	26 Aug. 1912	26 April 1916	M.A. M.D., Captain, I.M.S.	Do.	12 Aug. 1913	11 Sep. 1913
A. C. Ingram, Captain, I.M.S.	Do.	16 Oct. 1908	21 May 1909	A. C. Ingram, Captain, I.M.S.	Do.	8 July 1912	29 June 1913	E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	16 Sep. 1918	27 Sep. 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
C. Donovan, M.D., Major, I.M.S.	Do.	22 May 1909	23 May 1909	A. C. Ingram, Captain, I.M.S.	Do.	8 July 1912	29 June 1913	E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	16 Sep. 1918	27 Sep. 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
E. W. Browne, Captain, I.M.S.	Do.	24 May 1909	3 July 1909	A. C. Ingram, Captain, I.M.S.	Do.	8 July 1912	29 June 1913	E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	16 Sep. 1918	27 Sep. 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
A. C. Ingram, Captain, I.M.S.	Do.	4 July 1909	15 May 1910	A. C. Ingram, Captain, I.M.S.	Do.	8 July 1912	29 June 1913	E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	16 Sep. 1918	27 Sep. 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
E. A. Roberts, Captain, I.M.S.	Do.	16 May 1910	15 June 1910	A. C. Ingram, Captain, I.M.S.	Do.	8 July 1912	29 June 1913	E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	16 Sep. 1918	27 Sep. 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
A. C. Ingram, Captain, I.M.S.	Do.	16 June 1910	15 Dec. 1910	A. C. Ingram, Captain, I.M.S.	Do.	8 July 1912	29 June 1913	E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	16 Sep. 1918	27 Sep. 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
A. C. Ingram, Captain, I.M.S.	Do.	20 June 1911	6 Nov. 1911	A. C. Ingram, Captain, I.M.S.	Do.	8 July 1912	29 June 1913	E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	16 Sep. 1918	27 Sep. 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
J. L. Macrae, Major, I.M.S.	Do.	3 June 1912	2 July 1912	A. C. Ingram, Captain, I.M.S.	Do.	8 July 1912	29 June 1913	E. M. Illington, M.B., Lieut.-Col., I.M.S.	Do.	16 Sep. 1918	27 Sep. 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
R. E. Wright, Captain, I.M.S.	Do.	8 April 1914	30 June 1914	T. S. Ross, Major, I.M.S.	Sub. pro tem.	6 Nov. 1915	10 Nov. 1916	C. A. F. Hingston, M.B., Lieut.-Col., I.M.S.	Do.	10 June 1917	13 June 1917	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
A. J. H. Russell, Captain, I.M.S.	Do.	1 July 1914	9 Oct. 1914	C. A. F. Hingston, M.B., Lieut.-Col., I.M.S.	Acting.	11 Nov. 1916	31 Jan. 1917	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	1 Feb. 1917	6 June 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
W. J. Molesworth, Lieut.-Col., I.M.S.	Do.	10 Oct. 1914	17 Jan. 1915	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	1 Feb. 1917	6 June 1918	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	7 June 1918	15 June 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
C. H. L. Palk, M.B. (Ret.), Major, I.M.S.	Do.	18 Jan. 1915	23 April 1915	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	1 Feb. 1917	6 June 1918	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	7 June 1918	15 June 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
A. C. Ingram, M.D., Major, I.M.S.	Permanent.	8 Sep. 1914	...	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	1 Feb. 1917	6 June 1918	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	7 June 1918	15 June 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
T. S. Ross, Lieut.-Col., I.M.S.	Sub. pro tem.	6 Nov. 1915	30 April 1917	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	1 Feb. 1917	6 June 1918	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	7 June 1918	15 June 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
Rao Sahib M. C. Roman, L.M.S., Civil Asst. Surgeon.	Acting.	1 May 1917	3 June 1917	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	1 Feb. 1917	6 June 1918	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	7 June 1918	15 June 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
T. S. Ross, Lieut.-Col., I.M.S.	Sub. pro tem.	On day on	4 June 1917	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	1 Feb. 1917	6 June 1918	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	7 June 1918	15 June 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Permanent.	4 Jan. 1918	...	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	1 Feb. 1917	6 June 1918	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	7 June 1918	15 June 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 1913	A. J. H. Russell, 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
T. S. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Permanent.	17	3 Jan. 1918	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	1 Feb. 1917	6 June 1918	Rao Sahib M. C. Roman, L.M.S. & M. R. Guruswami, M.B., C.M., Civil Asst. Surgeon.	Do.	7 June 1918	15 June 1918	W. J. Gray, Captain, I.M.S.	Do.	10 Sep. 1912	9 Dec. 191								

STATEMENT C (I)

Showing the diseases, etc., of the in-door patients treated in the (State-Public) in the Government General Hospital, Madras, during the year 1918.

District.	Class of dispensary.	Infective diseases.																			Other general diseases.											
		Infective diseases.																														
		Cholera.	Dysentery.	Enteric fever.	Gonorrhoea.	Kala azar.	Leprosy.	Malaria.	Plague.	Pneumonia.	Pyrexia of uncertain origin.	Rheumatic fever and rheumatism.	Small-pox.	Syphilis (primary and secondary).	Tubercle of the lung.	Other tubercular diseases.	All other infective diseases.	Anemia.														
Madras.	Non-Europeans Government General Hospital, Madras— I Class, State-Public.	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.									
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36														
		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.								
		26	11	195	21	33	5	89	1	41	6	378	12	111	38	100	11	4	8	179	191	29	98	5	738	113	66	13				
		3	1	78	2	20	...	15	...	20	4	88	1	31	7	87	3	31	1	2	80	42	3	11	1	380	18	...				
	Total	29	12	273	23	53	5	104	1	61	10	461	13	143	45	187	14	95	1	10	209	223	32	109	6	1,093	131	79	13			
District.	Class of dispensary.	Other general diseases—cont.																			Systemic diseases.											
		Other general diseases—cont.																														
		Diabetes.	Gouty.	New growth.		All other general 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.	Appendicitis.	All other diseases of the digestive system.													
Madras.	Non-Europeans Government General Hospital, Madras— I Class, State-Public.	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.									
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36														
		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.								
		57	10	1	19	...	28	4	94	4	108	5	9	22	23	318	19	302	30	35	1	34	5	23	5	118	21	22	3	985	77	
		16	...	2	...	2	...	5	...	32	1	39	...	5	...	8	43	2	110	11	4	...	5	...	10	1	13	1	26	269	14	
	Total	73	10	3	...	21	...	33	4	124	5	147	5	14	...	36	824	21	412	41	39	1	39	5	43	6	181	23	44	3	1,254	91

STATEMENT C (I)—cont.

Showing the diseases, etc., of the in-door patients treated in the (State-Public) in the Government General Hospital, Madras, during the year 1918—cont.

District.	Class of dispensary.	Systemic diseases—cont.																			General and Local.			Labour.			Operations.				
		Systemic diseases—cont.																			General and Local.			Labour.			Operations.				
		Inflammation and suppuration of lymph glands.	Gout.	Bright's disease.	All other diseases of the urinary system.	Hydrocele.	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).	By opium.	By other poisons.	Normal.	Abnormal.	Total number of in-door patients.	Deaths treated.	Deaths.											
Madras.	Government } Non-Europeans ... General Hospital, Madras— I Class, State-Public.	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	Total treated.	Deaths.										
		Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.	Total treated.			Total treated.									
		Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.	Deaths.			Deaths.									
		127	2	36	9204	7	211	2188	3	238	8	212	7	100	6	183	12	189	8	297	23	18	1	23	...	...	...	6,491	540	3,714	84
		46	1	8	...	4	44	1	41	...	30	1	43	...	47	...	28	1	32	1	67	1	21	...	3	4	...	1,831	82	1,140	9
	Total	173	3	45	13,248	8	252	2,218	4	281	8	259	7	183	7	215	13	260	9	318	24	18	1	26	...	...	...	8,322	622	4,854	93

- (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, 1900, 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., syphilitic lesions.
- 6 to include all diseases resulting from gonorrhoeal infection, e.g., gonorrhoeal rheumatism.
- 13 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.

STATEMENT C (II)

Showing the diseases of the out-door patients treated in the State-Public, Government General Hospital, Madras, during the year 1918.

District.	Class of dispensary.	Infective diseases.																	Systemic diseases.																
		Cholera.	Dysentery.	Enteric fever.	Gonorrhoea.	Kala-azar.	Leprosy.	Malaria.	Plague.	Pneumonia.	Purpura of origin.	Rheumatic fever and rheumatism.	Small-pox.	Syphilis (primary and secondary).	Tubercle of the lungs.	Other tubercular diseases.	All other infective diseases.	Diarrhoea.	Dyspepsia.	Abcesses of the liver.	All other diseases of the liver.														
Madras.	Government General Hospital, Madras—Class I, State, Public.	3	7	5	8	7	8	9	10	11	12	13	14	15	16	17	18	563	474	558	455	527	3,681												
		6	935	182	766	9	...	4,856	...	152	4,105	112	3	487	...	...	...																		
		2	95	33	53	1	...	746	...	27	444	12	...	71	19	38	868																		
		7	1,630	215	819	10	...	5,102	...	179	4,649	134	3	558	474	563	4,539																		
Madras	Government General Hospital, Madras—Class I, State, Public.	Other general diseases.																																	
		Class of dispensary.	Anæmia.	Diabetes.	Scurvy.	New growth.		All other general 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 tubercle and syphilis.	Dyspepsia.	Diarrhoea.	Abscesses of the liver.	All other diseases of the liver.																	
						Non-malignant.	Malignant.																												
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	...	...	...	...	...	...														
Madras	Government General Hospital, Madras—Class I, State, Public.	173	137	10	117	35	1,174	327	68	1,319	36	138	14	645	309	208	219	5,801	368	168	368	219													
		10	9	...	11	2	68	13	11	52	1	14	1	645	309	208	219																		
		183	146	10	128	37	1,242	340	77	1,371	37	152	14	645	309	208	219																		
		Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total						Total												

STATEMENT C (II)—cont.

Showing the diseases of the out-door patients treated in the State-Public, Government General Hospital, Madras, during the year 1918—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.	Gout.	Bright's disease.	All other diseases of the urinary system.	Hydrocele.	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 By opium.	By other poisons.				
Madras.	Government General Hospital, Madras— 1918 { Non-Europeans ... Europeans ... Class I, State-Public. Total ...	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
		2	5,718	212	1	33	786	559	1,321	3,208	4,245	4,294	3,987	3,248	3,134	5	3	57,032	5,184		
		4	744	29	...	...	44	37	87	57	100	105	111	54	59	...	...	4,889	779		
		6	6,462	241	1	33	830	596	1,408	3,265	4,345	4,399	4,098	3,302	3,193	5	3	61,721	5,973		

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, 1906, 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 iritis.
"6 to include all diseases resulting from gonorrhoeal infection, e.g., gonorrhoeal rheumatism.
"19 to include only cases of anæmia of which the cause cannot be ascertained.
Late 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 1918.

District.	Name and class of dispensary.	Europeans and Eurasians.						Hindus.						Muhammadans.						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, 1918.	In-door	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Out-door	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

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 1918.

District.	Name and class of dispensary.	Europeans and Eurasians.						Hindus.						Muhammadans.						Others.						Total.
		Adults.			Children.			Adults.			Children.			Adults.			Children.			Adults.			Children.			
		Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19								
Madras.	(In-patients ...)	1,072	562	1,04	93	3,694	797	145	65	403	53	16	10	893	335	45	35	8,322								
	(Out-door labour cases.)	...	...	...	...	...	...	...	...	...	Nil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(Other out-door cases represented by friends, out-door cases attended personally.)	2,513	1,195	569	412	30,728	6,504	3,512	3,004	2,667	150	151	97	6,192	1,848	1,081	1,093	61,721								
	Total ...	3,585	1,757	673	505	34,422	7,306	3,657	3,069	3,070	203	107	107	7,085	2,183	1,128	1,123	70,043								

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.

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 1918.

District.	Name and class of dispensary.	Europeans and Eurasians.				Hindus.				Muhammadans.				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	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Madras.	Government General Hospital, Class I, State- Public, 1918.	In-door ...	1,072	562	104	93	3,694	797	145	65	403	53	18	10	893	335	45	35	8,822
			2,513	1,195	569	412	30,728	6,509	3,512	3,004	2,667	150	151	97	6,192	1,549	1,061	1,093	61,721
			3,585	1,757	673	505	34,422	7,308	3,657	3,069	3,070	203	167	107	7,085	2,183	1,126	1,118	70,403
		Total ...																	

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 may see 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 1918.

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District.		Europeans and Eurasians.						Hindus.				Muhammadans.				Others.				Total.	
Name and class of dispensary.		Adults.		Children.		Adults.		Children.		Adults.		Children.		Adults.		Children.		Total.			
		Male.	Female.	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	20		
Government General Hospital, Madras, Class I, State Public, 1918.		In-patients ...	1,072	502	194	38	3,694	797	145	65	403	53	16	10	893	835	45	35	8,322		
		Out-door labour cases.	...	...	...	...	...	...	...	...	...	NIL	...	...	...	...	...	...	...		
		Other out-door cases represented by friends.	...	...	...	...	...	...	...	...	...	NIL	...	...	...	...	...	...	...		
		Out-door cases attended personally.	2,513	1,195	569	412	30,728	6,503	3,512	3,004	2,607	150	151	97	6,192	1,848	1,081	1,093	61,721		
		Total ...	3,555	1,757	673	505	34,422	7,306	3,657	3,069	3,670	203	107	107	7,085	2,183	1,126	1,129	70,043		

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.

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.
						Total.		Cured.	Relieved.	Discharged otherwise.	Died.	
				Primary.	Secondary.							
1	2	3	4	5	6	7	8	9	10	11	12	
Operations on tumours		Removal by excision or other methods	50	1	51	50	51		1		2	
		Exsplanatory puncture	1	...	1	1	...		1	...	...	
Operations on cysts		Removal by enucleation or excision	51	1	52	51	51		2		2	
		Treatment by—	28	...	28	28	28		...		...	
		Incision and plugging	2	...	2	2	2		...		...	
		Total	30	...	30	30	30		...		...	
Operations for abscess		Acute abscess—incision	1,743	14	1,757	1,742	1,714		4	10	15	
		Chronic abscess—incision and drainage	25	...	25	25	24		5	1	2	
		" —incision with erosion	7	...	7	7	6		5	...	1	
		" —aspiration, with or without injection.	8	1	9	8	4		...	3	2	
		Total	1,782	15	1,797	1,782	1,748		14	11	20	
Removal of foreign bodies		In the natural passages	51	...	51	51	51		...	...	...	
		Impacted or embedded substances	73	...	73	73	73		...	...	1	
		Total	124	...	124	124	124		...		1	
Operations on arteries		Ligature	5	...	5	5	5		...	...	...	
			1	...	1	1	1		...	...	...	
Operations for aneurysm		Ligature of artery on the proximal side	489	46	535	469	424		38	1	6	
		Infusion of saline or other fluid	2	...	2	2	4		...	...	...	
Operations on veins		For varices excision	471	46	517	471	428		38	1	6	
		Total	40	1	41	40	30		8	1	2	

[illegible]

STATEMENT G—cont.

Showing the Results of the Surgical Operations performed in the General Hospital, Madras, for the year 1918—cont.

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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 otherwise.	Died.			
1	2.	3	4	5	6	7	8	9	10	11	12	
Operations on joints—cont.	Reduction of dislocation—cont.	...	...	...	...	...	...	...	...	...	...	
	Wrist	...	3	...	3	3	3	...	...	...	...	
	Hand and fingers	...	3	...	3	3	3	...	...	...	...	
	Hip	...	2	...	2	2	2	...	...	...	...	
	Displaced internal semilunar cartilage, knee	...	23	...	23	23	6	11	...	...	...	
	For Ankylosis by passive movements	...	13	...	13	13	5	6	...	...	...	
	Aspiration with or without injection	...	16	2	18	18	14	...	...	...	...	
	Arthrodesis	...	1	...	1	1	...	1	...	...	...	
	Arthrodesis	...	6	...	6	6	2	...	...	...	...	
	Excision, partial or complete	...	101	2	103	101	71	18	3	...	...	
Operations on muscles and tendons.	Total	...	2	...	2	2	...	1	...	...	...	
	Tenotomy	...	1	...	1	1	...	...	...	...	...	
	Union of a divided tendon	...	3	...	3	3	1	1	...	...	...	
	Total	...	...	...	...	...	...	...	...	...	...	
	For injury—	...	...	...	...	...	...	...	...	...	...	
	Shoulder	...	1	...	1	1	1	...	...	...	...	
	Arm, upper third	...	1	...	1	1	1	...	...	...	...	
	Forearm, middle third	...	2	...	2	2	1	...	...	...	...	
	Forearm, lower third	...	4	...	4	4	4	...	...	...	...	
	Hand and fingers	...	19	...	19	19	13	1	...	...	...	
Amputations	Thigh, middle third	...	1	...	1	1	1	...	...	...	...	
	Thigh, lower third	...	3	...	3	3	2	...	...	...	...	
	Knee	...	1	...	1	1	2	...	...	...	...	
	Leg, upper third	...	5	...	5	5	4	...	...	...	...	
	Leg, lower third	...	1	...	1	1	1	...	...	...	...	
	Foot and toes	...	1	...	1	1	1	...	...	...	...	
	For disease or deformity—	...	...	...	...	...	...	...	...	...	...	
	Shoulder	...	3	...	3	3	3	...	...	...	...	
	Arm, upper third	...	1	...	1	1	1	...	...	...	...	
	Arm, middle third	...	5	...	5	5	4	...	...	...	...	
Arm, lower third	...	2	...	2	2	2	...	...	...	...		
Forearm, upper third	...	1	...	1	1	1	...	...	...	...		
Forearm, middle third	...	1	...	1	1	1	...	...	...	...		
Forearm, lower third	...	1	...	1	1	1	...	...	...	...		

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Thigh, lower third	...	8	...	...	...	8	7	...	...	...	...
Knee	...	1	...	...	...	1	...	...	...	...	...
Leg, upper third	...	12	...	...	...	12	11	...	...	...	...
Leg, lower third	...	2	...	...	...	2	2	...	...	...	...
Foot and toes	...	9	...	...	...	9	6	...	...	...	...
Total	...	92	...	...	...	92	79	5	1	...	...
Operations on the skull	...	3	...	...	...	3	...	...	...	...	...
Operations on the face	...	4	...	...	...	4	1	...	...	...	...
Operations on the mouth	...	4	...	...	...	4	4	...	...	...	...
Dental operations	...	2,387	...	...	...	2,387	2,387	...	...	...	...
Operations on the nose and accessory sinuses.	...	30	...	...	...	30	30	...	...	...	...
Operations on the ear and accessory cavities.	...	16	...	...	...	16	11	...	...	...	...

[illegible]

STATEMENT G—cont.

Showing the Results of the Surgical Operations performed in the General Hospital, Madras, for the year 1918—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 female generative organs.	Oophorectomy (single or double) ...	...	1	...	1	1	...	...	...	...	1
	Hysterectomy Abdominal:—	...	1	...	1	1	...	...	...	...	...
	Supra-vaginal ...	...	1	...	1	1	...	...	...	...	...
	Pari-vaginal ...	...	1	...	1	1	...	...	...	...	...
	Curetting of uterus ...	...	1	...	1	1	...	...	...	...	...
Total	Repair of lacerated vagina ...	...	1	...	1	1	...	...	...	...	...
	Repair of lacerated cervix ...	...	1	...	1	1	...	...	...	...	...
	Amputation of clitoris ...	...	2	...	2	2	...	...	...	...	...
	Removal of hypertrophied nymphs or labia ...	...	2	...	2	2	...	...	...	...	...
Total			10	...	10	10	...	...	...	...	...
Grand Total			10,464	363	10,827	10,464	9,914	393	47	91	143

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STATEMENT III-B.

Selected List of Operations performed by each Medical Officer, Government General Hospital, Madras, for the year 1918.

Number.	Names of Surgeons.	Period of duty.	Amputations.										Excision of joints (partial or complete).	Operations on bones.	Excision of tumours (all kinds).	Operations on various parts of the body.										Total.
			Thigh and above the metacarpus.	Through and above the metatarsus.	Athrectomy.	Operations on arteries and veins.	Operations on skull, brain and spinal cord.	Operations for Empyema.	Operations for excision of the breast.	Abdominal section (for any purpose other than obstetrical).	Abscess of the liver (all operations).	Operations on intestines including hernia.				Operations on the stomach.	Operations on the spleen (splenectomy).	Operations on gallbladder (cholecystectomy).	Operations on bladder and urethra.	Removal of vesical calculi (By incision).	Operations on elephantoid scrotum.	Operations on testicle and spermatic cord.	Other operations on male generative organs.	Plastic operations.		
1	Lieut.-Col. W. J. Niblock, I.M.S.	From 1st Jan. to 15th May, 17th June to 17th Sep., 28th Sep. to 31st Dec. 1918 (S-I); and, 25th Jan. to 5th Feb., 18th June to 25th June, 7th Oct. to 16th Oct., 23rd Dec. to 31st Dec. (S-I) and (S-II).	3	7	8	10	1	2	0	3	5	14	15	16	6	1	2	11	23	24	25	26				
2	Lieut.-Col. E. M. Illington, I.M.S.	From 6th Feb. to 17th June, 29th July to 6th Oct., 17th Oct. to 22nd Dec. (S-I); and 18th Sep. to 2nd Sep. (S-I) and (S-II).	5	2	3	10	1	1	2	1	...	6	6	53	2	...	4	6	39	3	1	4	328			
3	Dr. W. J. Fernandez, L.M.S.	From 1st Jan. to 31st Dec (S-I); and Joint (R.M.O.) till 30th Sep.	10	18	1	25	1	...	...	3	1	11	10	53	2	...	2	11	86	7	1	...	285			
4	Major J. Kirkwood, I.M.S.	From 28th June to 28th July (S-I); 31st Oct. to 31st Dec. (R.M.O.).	2	2	2	18	...	...	...	...	...	...	...	2	...	...	...	...	4	...	...	23				
5	Major J. J. Robb, I.M.S.	From 1st Jan. to 24th Jan. (S-II).	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	2	5	...	...	12				
6	Major A. Chalmers, I.M.S.	From 16th May to 16th June (S-I).	...	...	...	1	...	...	...	...	1	1	3	1	...	...	...	2	11	3	...	26				
7	Dr. K. Nodding, L.M.S.	From 1st Jan. to 30th Oct. (R.M.O.).	...	...	...	3	...	...	...	...	...	4	1	9	...	...	...	...	...	...	...	31				
Total			24	30	2	5	77	85	19	7	48	82	159	10	1	8	26	4	82	342	14	7	848			

STATEMENT II.

Showing the Income and Expenditure of Government General Hospital, Madras, in the year 1918.

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 surplus).	Total receipts.	Salaries.				Medicines.			Diet.	Miscellaneous charges.	Buildings or repairs.		Investments.	Total expenditure.
			As salary.	Otherwise.					Medical Officers.	Nurses.			Interior attendants.	Burg. parn.	Hazarat.										
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.	...	Rs. 1,81,520	2,02,974	...	...	...	...	...	29,579	4,17,273	64,882	41,802	36,150	32,126	1,907	61,001	1,54,021	24,884	...	Rs. 4,17,273	...			

INSTRUCTIONS.

(1) Statement 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 Schedule I). (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) Assets and liabilities should be omitted. (4) In column 13 should be shown (1) the pay of Surgeons, Assistant Surgeons, Hospital Assistants and Native Doctors, attached to the dispensary, including special dispensary allowances (if any), and (7) the special dispensary allowance given to Surgeons, Assistant Surgeons, Hospital Assistants and Native 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. (5) In column 15 should be shown the salaries of (1) compounders, dressers, etc., (2) medical servants, e.g., cooks, sweepers, chautidars, etc.

FIRST PHYSICIAN'S WARDS.

These wards were in my charge throughout the year except during a part of May and June when Lieut.-Col. E. M. Illington, I.M.S., acted for me.

The number of admissions and deaths were as follows:—

Class.	1916.		1917.		1918.	
	Total treated.	Deaths.	Total treated.	Deaths.	Total treated.	Deaths.
Europeans	767	41	721	28	801	34
Non-Europeans	670	38	569	38	791	88
Total	1,437	79	1,290	66	1,592	122

Thirty-one (31) cases were admitted moribund. The total percentage of deaths was 7.66 per cent or excluding moribund cases 5.8 per cent. The death-rate among Europeans was 4.24 per cent and amongst non-Europeans 11.12 per cent or excluding moribund cases, 8.5 per cent amongst Europeans and 8.2 per cent amongst non-Europeans.

The number of European and Indian patients treated in these wards has been above the average during the year 1918. This increase is due to the epidemics of influenza which occurred in June and October.

The principal diseases and their mortality were as follows:—

Diseases.	Total treated.			Deaths.		
	Europeans.	Non-Europeans.	Total.	Europeans.	Non-Europeans.	Total.
Malaria { Benign tertian ...	36	33	69	...	...	...
Malaria { Malignant tertian ...	5	8	13	1	2	3
Malaria { Chronic ...	4	17	21	...	...	...
Enteric ...	15	10	25	...	1	1
Kala-Azar ...	16	7	23	2	2	4
Pulmonary tuberculosis ...	23	45	68	4	8	12
Pneumonia ...	15	15	30	...	4	4
Dysentery ...	41	47	88	...	3	3
Enteritis ...	43	30	73	9	8	17
Valvular disease of heart ...	5	18	23	3	5	8
Nephritis ...	13	31	44	...	4	4
Influenza ...	199	165	364	5	27	32
Ankylostomiasis ...	...	37	37	...	2	2
Pleurisy ...	6	14	20	...	...	...
Bronchitis ...	45	19	64	1	...	1
Asthma ...	25	12	37	...	...	...
Cirrhosis of liver ...	1	23	24	...	5	5
Psoriasis ...	1	3	4	...	...	...

Influenza.—There were 364 cases of this disease with a mortality of 8.7 per cent, but no less than 17 cases were admitted to hospital moribund; excluding these cases, the mortality was 4.3 per cent.

The cause of death in practically every case was pulmonary complications of some kind, the commonest pulmonary complications being capillary bronchitis and bronchopneumonia.

Albuminuria was noted in a number of cases when the lungs were affected. Cane sugar injections were given in a few cases complicated by capillary bronchitis with the hope of drying up the secretion. The results from this treatment were however disappointing.

Filariasis and Chyluria.—One case of filariasis and one case of chyluria with micro-filariæ in the blood were treated by intravenous injections of 914, 0.6 gram and 0.9 gram. The injections had no apparent effect on the micro-filariæ or on the chyluria.

Psoriasis.—Two cases of universal psoriasis of several years' duration and with no syphilitic history were treated with injections of 914. One of the two cases was almost cured by these injections, the other underwent slight improvement only.

Kala-Azar.—Of the cases reported in last year's report as having been treated with intravenous injections; five have been seen and examined or have been communicated with during the last two months and all these are in excellent health.

Ankylostomiasis cases treated during 1918 in the First Physician's Wards.

Localities.	Number treated.
Mylapore ...	1
Triplicane ...	1
Pudupet ...	1
Kilpauk ...	1
Choolai ...	1
Nungambakam ...	1
Rāyapuram ...	1
Purasawakam ...	1
New Town ...	1
Georgetown ...	4
Mangalore ...	1
Puttūr ...	1
Ernakulam ...	1
Tellicherry ...	1
Malabar ...	1
Palghat ...	1
Mendicants ...	No address
Tranquebar ...	1
Villapuram ...	1
Wandiwash ...	1
Arkōnam ...	1
Saidapet ...	1
Vikravāndi ...	1
Ponnēri ...	1
Māyavaram ...	1
Perambūr ...	1
Sembiam ...	1
Coimbatore ...	1
Total ...	37

All the 37 cases of ankylostomiasis occurred amongst Indians.

GOVT. GENERAL HOSPITAL, MADRAS,
January 1919.

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

SECOND PHYSICIAN'S WARDS.

Some interesting observations.

1. Last year's observations about cerebral malaria (viz., that Benign tertian could give rise to it) was confirmed this year by a case admitted during the month of January 1918. The case was also peculiar in that the man recovered completely after an unconsciousness of over 100 hours, i.e., from about 4 a.m. on 28th January 1918 to about 10 a.m. on 1st February 1918. It is usually stated that cases where unconsciousness lasts for more than 70 hours do not recover. This patient was treated with intramuscular injection of quinine bi-hydrochlor and intravenous injection of colossal quinine till he recovered consciousness and then was treated with quinine sulphate by mouth.

2. Uremia in a convalescent case of acute nephritis, when for three days before the fits set in, the patient was passing large quantities (more than 60 oz.) of albumin-free urine. This case in conjunction with another similar case where fits set in when patient was passing good quantity of urine free from albumin, and in which fits were succeeded by amaurosis which lasted for 24 hours and paræsis of right arm and right leg which lasted for another 24 hours nearly, suggest the probability of Tranke's view being valid in some cases.

3. Influenza which occurred as an epidemic, 184 cases having been admitted into my wards. The special features and important and rare complications met with were—

(a) In the ordinary pyrexial type the slowness of pulse—the ordinary pulse temperature ratio not being maintained.

(b) In the respiratory type—the rarity of pneumonia proper, the cases often being really capillary bronchitis.

It was noted that the expiratory murmur was characteristic in these cases, having a peculiar prolonged wheezing note, as in asthma.

(c) The first wave of the epidemic was mainly pyrexial, the second mostly respiratory type.

(d) The first wave did not give any pronounced immunity, as many of the cases admitted during the second wave gave a history of having suffered during the first wave.

The rare complications noticed were—acute ascending myelitis 1 case, meningitis 3 cases, intestinal hæmorrhage 2 cases and choleraic diarrhoea 5 cases.

4. Among the numerous cases treated with emetine, only one young man of 18 showed an idiosyncrasy. Every injection of emetine was followed by vomiting.

5. One patient showed intolerance to quinine in any form whether given by mouth or as injection, he developed very severe urticaria and asthma, which could be controlled by adrenaline injections.

Class of patients.	Admissions.							Average daily sick.	Death rate per 1,000.	Operations.						Post-mortem.			
	Remained.	Admitted.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.			Remaining.	Remained.	Performed during the year.	Total.	Cured.	Relieved.		Discharged otherwise.	Died.	Remaining.
Non-Europeans.	28	1,173	1,201	574	327	146	117	37	38.10	97.42	..	418	416	324	92	...	...	...	29
Europeans ...	10	220	230	133	55	21	13	8	10.13	56.52	..	51	51	31	20	...	...	...	...
Total ...	38	1,393	1,431	707	382	167	130	45	48.23	50.85	..	469	467	355	112	...	...	...	29

Class of patients.	Remained	Admitted.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.
Non-Europeans	28	1,173	1,201	574	327	146	117	37
Europeans	10	220	230	133	55	21	13	8
Total	38	1,393	1,431	707	382	167	130	45

Principal diseases and their mortality.

Special Ankylostomiasis Report.

GOVT. GENERAL HOSPITAL, MADRAS, M. R. GURUSWAMI MUDALIYAR, B.A., M.B., C.M.,
January 1919.
Second Physician

The following are the statistics of the wards:—

	1916.	1917.	1918.
Remained in January 1918	...	...	20
Total admissions	485	501	626
Discharged cured	177	223	296
Do. relieved	198	123	139
Do. otherwise	87	120	76
Died	27	33	100
Remaining for 31st December 1918	...	...	35
Total death-rate	5.6	6.3	13.9
Total death-rate excluding moribund cases	4.08	4.3	10.1
Total death-rate excluding influenza and moribund cases	7.7	per cent.	

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

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REPORT ON "HOOKWORM."

Localities.	No. of patients treated.	Results.
Georgetown ...	4	
Rayapuram ...	2	
Park Town ...	2	
Chyolai ...	3	
Parsawakam ...	1	Cured ... 20
Chittoor ...	1	Relieved ... 8
Cuddalore ...	2	Discharged otherwise ... Nil.
Triplicane ...	1	Died ... 2
Washermanpet ...	3	
Trivandrum ...	2	
Malabar ...	2	
Residence unknown ...	7	
Total ...	30	Total ... 30

GOVT. GENERAL HOSPITAL, MADRAS,
January 1919.

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

FOURTH PHYSICIAN'S WARDS.

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

M.R.Ry. Rao Sahib Dr. M. C. Koman, L.M. & S., from 1st January to 6th June 1918.
 " M. R. Guruswami Mudaliyar Avargal, B.A., M.B., C.M., from 7th June to 15th June 1918.
 " Rao Sahib M. C. Koman, L.M. S., from 16th June to 10th July 1918.
 " M. R. Guruswami Mudaliyar Avargal, B.A., M.B., C.M., from 11th July to 28th July 1918.

Major J. Kirkwood, L.M.S., from 29th July to 29th September 1918.

These wards were in my charge from 30th September to 31st December 1918.

There were 21 cases admitted moribund and all died.

No septic cases admitted.

Anaemia.—A young male from Rajahmundry was admitted for anaemia of a pernicious type and cutaneous gumata on right forearm. His blood showed diminution in red blood corpuscles, polymorphonuclears 55 per cent, lymphocytes 36 per cent, eosinophiles 4 per cent, mononuclears 3 per cent, megaloblasts and normoblasts were seen. He was put under anti-syphilitic treatment and improved very much, but left hospital before being fully cured.

2. Myxoedema.—A young man of the Ubbarava (road cooly) class, aged about thirty years, was admitted for myxoedema. He was put on thyroid extract and is now improving.

3. Ascariasis.—A young man aged about twenty-six years from the Malabar district was admitted for recurring pains in his abdomen. There were only round worms in his motions, but his blood showed an increase of eosinophiles to 42 per cent.

4. Spastic paraplegia (Erbs).—A male aged thirty years was admitted for signs of spastic paraplegia (Erbs) and condyloma of the anus. He gave a history of having contracted a sore two years ago. Wasserman's test was positive. He was given an ampulvols injection and put on anti-syphilitic drugs. He was in hospital for five weeks. Signs of paraplegia improved very considerably but he left hospital before being fully cured.

Medical Officer.	Class of patients.	Admissions.							Average daily sick.	Death-rate per 1,000.	Operations inclusive of morphia and other hypodermic injections.							Post-mortem examination.
		Remained.	Admitted.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.			Remained.	Performed during the year.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.	
Fourth Physician	Non-Europeans.	30	930	960	438	216	183	90	33	37.57	93.75	5	298	303	241	33	29	32
	Europeans	4	222	226	132	53	21	17	3	10.83	75.22		109	109	98	11	5	
	Total	34	1,152	1,186	570	269	204	107	36	48.40	90.21	5	407	412	339	44	34	32

Table showing the percentage of deaths during the year 1918.

Class.	Percentage including cases admitted moribund.	Total number of cases admitted moribund.	Percentage excluding cases admitted moribund.
Non-Europeans	9.37	21	7.18
Europeans	7.52	...	7.52

Table showing the admissions for the year and the result of treatment, 1918.

Class.	Remained.	Admitted.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.	Remain-ing.
Non-Europeans	30	930	960	438	216	183	90	23
Europeans	4	222	226	132	53	21	17	3
Total	34	1,152	1,186	570	269	204	107	36

Principal diseases and their death-rate.

Diseases.	Total treated.			Deaths.		
	Non-Europeans.	Europeans.	Total.	Non-Europeans.	Europeans.	Total.
Influenza.	107	55	162	8	1	9
Febrile ...	3	1	4	2	...	2
Cerebral ...	52	5	57	14	1	15
Broncho pneumonia.	7	3	10	...	...	...
Bronchitis ...	6	4	10	2	2	4
Gastro intestinal ...	63	11	74	...	1	1
Gastritis including ulcers ...	49	22	70	...	...	...
Bronchitis (acute and chronic).	46	4	50	...	...	...
Benign tertian ...	8	1	9	...	...	...
Malignant tertian ...	1	...	...	...	...	...
Malaria.	32	2	34	...	...	...
Quartan ...	3	1	4	1	...	1
Chronic ...	16	4	20	5	1	6
Cerebral ...	15	2	17	2	1	3
Valvular disease of the heart.	12	5	17	3	...	3
Other diseases of the heart ...	3	1	4	2	...	2
Enteric fever ...	16	6	22	...	...	...
Beri-beri ...	41	4	45	10	1	11
Hepatitis (including abscess).	17	7	24	2	...	2
Pneumonia ...	11	6	17	...	...	...
Hemiplegia and cerebral hemorrhage.	5	3	8	...	...	...
Rheumatism ...	5	3	8	...	...	...
Diabetes ...	5	3	8	...	...	...
Plenisy ...	8	2	10	1	1	1
Kala-Azar ...	23	7	30	3	3	6
Nephritis ...	33	9	42	2	...	2
Dysentery ...	51	6	57	9	1	10
Tubercle of lungs ...	11	6	17	...	...	...
Asthma ...	25	2	27	1	...	1
Anæmia ...	29	1	30	4	...	4
Cirrhosis of liver ...	36	1	37	9	...	9
Enteritis ...	5	...	5	...	...	...
Filariasis ...	20	...	20	...	...	...
Ankylostomiasis ...	...	...	...	...	...	...

REPORT ON "HOOKWORM."

Localities.

Madras.	Egmore ...	1	Calicut ...	1
	Triplicane ...	1	Villivakkam ...	1
	Mylapore ...	1	Saidapet ...	1
	Kilpauk ...	2	Attur ...	1
	Georgetown ...	1	Cocanada ...	1
	Vepery ...	1	Tirutani ...	1
Chingleput ...	...	2	Tinnevely ...	1
Ponneri ...	...	1	Amalapuram ...	1
Tindivanam ...	...	1	Rajahmundry ...	1
Ernakulam ...	...	1	Place not known ...	2
Tirupati ...	...	1		
Coimbatore ...	...	1		
Villupuram ...	...	1		
				26

Occupation.

Karnam ...	1	Ryots ...	6
Cook ...	1	Coolies ...	6
Sub-Cashier ...	1	Nil ...	4
Dhobi ...	1		
Gardener ...	2		
Mendicants ...	4		
			26

Result.

Cured ...	19
Relieved ...	5
Discharged otherwise ...	2
Died ...	0
	26

FIRST SURGEON'S WARDS.

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

The following table shows the number of patients treated:—

Class.	Remained.	Admitted.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.
Europeans ...	15	262	277	185	43	30	9	10
Non-Europeans ...	61	887	948	568	122	153	45	60
Total ...	76	1,149	1,225	753	165	183	54	70

Mortality.—4.4 per cent. This includes 26 cases admitted moribund.

The following table shows the operative work done:—

Class.	Remained.	Performed during the year.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.
Europeans ...	11	299	310	242	53	2	5	8
Non-Europeans ...	37	895	932	723	131	12	22	44
Total ...	48	1,194	1,242	965	184	14	27	52

Mortality.—2.18 per cent.

The total number of admissions was less than in the previous year by 88, and the total operations greater by 10, so that there is no material difference under these heads.

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

Diseases.	Total number operated.	Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.
Tumours (including 6 malignant)	30	28	...	...	...	2
Ankylosis of joints (excision)	2	1	...	...	...	1
Amputations	20	13	...	...	1	6
Laparotomy ...	6	3	...	...	2	1
Gastrostomy ...	1	...	...	...	...	1
Gastro-enterostomy ...	5	5	...	...	...	...
Intestinal obstruction ...	5	2	...	...	3	...
Tubercular disease caecum (lateral anastomosis)	1	1	...	...	...	...
Appendicitis ...	16	14	1	...	...	1
Appendicular abscess ...	6	2	...	...	4	...
Strangulated hernia ...	10	6	...	1	3	...
Inguinal hernia ...	49	47	...	...	...	2
Harelip ...	2	2	...	...	...	...
Cleft palate ...	1	...	...	...	...	...
Carcinoma of tongue ...	2	2	...	...	...	...
Enlarged tonsils and adenoids ...	19	19	...	...	...	...
Mastoid abscess ...	2	...	...	...	...	2
Empyema ...	3	2	1	...	...	...
Carcinoma of breast ...	6	6	...	...	...	...
Vesical calculus ...	1	1	...	...	...	...
Hydrocele ...	91	87	...	...	...	4
Hæmatocele ...	9	8	...	...	1	...
Elephantiasis scroti ...	13	12	...	...	...	1
Prolapse rectum (excision) ...	1	1	...	...	...	...
Cancer penis ...	4	4	...	...	...	...

Remarks on some of the above cases.

Abdominal operations—

(a) Appendicitis.—One of these was a European soldier aged 33 who was invalided from active service. His chief history was of pain in the region of the gall-bladder from

which he had suffered for the past four years and which was almost constant. He had no "hunger pain", and the pain had no relation to the taking of food. He also suffered from occasional pain in the right iliac region which he described as being of a "gritty" character, but had never had a typical attack of appendicitis. Before coming here, he had been under treatment six times in military hospitals in Mesopotamia and also in Bombay and Bangalore. The patient was somewhat run down in general health and rather worried about himself, having got the idea that his condition was hopeless. Nothing abnormal could be detected except pain on deep pressure over the appendix. His appendix was removed, was found to be unusually long and attenuated, kinked acutely in several places, and bound down by adhesions. He suffered no pain after the operation and when I heard from him some months later he was still quite well. Cases of chronic appendicitis of this nature, with pain referred to the region of the gall-bladder, or pylorus, are in my experience not so uncommon as is generally believed, and the results after operation are excellent.

(b) Another patient suffering from chronic appendicitis with secondary ulceration of the pylorus made a good recovery after appendicectomy and gastro-enterostomy.

(c) A third appendicitis case was interesting. It occurred in a lady aged 50 who had been operated upon in England 15 years ago, the operation being complete hysterectomy. About a year before admission to hospital she suffered from symptoms of chronic obstruction. Recently the attacks had become more severe and were associated with pain and swelling (tympantic) in the right iliac region. At the operation it was found that the tip of the appendix, which was abnormally long, was firmly adherent to the old line of the hysterectomy wound in the pelvis, and that a loop of large intestine had been caught between it and the pelvic wall.

(d) Yet another case of trouble indirectly due to the appendix is worth recording. A young lady had been operated upon in England four years before for suppurative appendicitis. The operation was an urgent one and the patient had to be hurriedly prepared. The symptoms from which she suffered on admission, and which began one year ago, were pain in the right iliac region and chronic constipation. The pain was at intervals very acute and the patient was reduced to a condition of chronic invalidism. She was unable to say whether the appendix had been removed or not at the operation. Laparotomy showed that the appendix had been removed, but that there were several thick fleshy-looking bands (one of them as thick as one's finger) between the cæcum, small intestines, and abdominal wall. It was subsequently elicited that tincture of Iodine had been used in the preliminary preparation of the abdomen. This is the first example of adhesions the result of tincture of Iodine which has come to my notice.

Gastrostomy.—A European aged 52 was admitted with a history of inability to swallow anything except liquids. He had never suffered from venereal disease and there was no history of injury to the œsophagus. Four months prior to admission he, for the first time, noticed difficulty in swallowing and the food appeared to stick about half-way down the sternum. No bleeding was noticed at any time. X-Rays revealed nothing. No œsophageal bougie was available but the tube of a stomach pump would not go through the contracted portion of the œsophagus which was situated immediately above the cardiac orifice of the stomach. Gastrostomy was performed and the patient fed on the table. The stomach was much smaller than normal; nothing else abnormal was to be seen at the operation. The patient was fed through the gastrostomy wound for about a month after the operation. He then was able to take semi-solid food, and, when discharged was taking all his food by the mouth. Apparently this was a case of simple ulceration of the lower end of the œsophagus with commencing stricture or spasm, the complete rest for one month being sufficient to allow the ulcer to heal. At the beginning the case looked extremely like one of carcinoma of the œsophagus.

Gall-bladder.—Three patients suffering from cholelithiasis were operated on successfully.

A European patient aged 38 was admitted suffering from "pancreatic and biliary insufficiency" no bile in the stool but free fat present. The liver was four finger's breadth below the costal margin but the gall-bladder could not be felt. No jaundice was present at any time. The patient was sallow and rather emaciated. On opening the abdomen the gall-bladder was seen to be about $1\frac{1}{2}$ times the normal size. Rather dense adhesions were present round the bile ducts and in the region of the pancreas. These were broken down and separated as thoroughly as possible, the gall-bladder was opened and the contents found to be bile and mucus with slight subacute inflammation of the mucous coat. A probe was passed down the bile ducts which were patent. The gall-bladder was drained. Two weeks later the stools were brownish in colour and there was no free fat in the stools. The patient lost his sallow look in six weeks or so and felt distinctly better. No cause could be found to account for the adhesions in this case and the patient stated definitely that he had never suffered from acute pain or indeed severe pain of any sort in the region affected.

Liver abscess.—In the liver abscess cases the single death was due to tubercular disease of the lungs, the abscess itself at the time of death, some weeks after operation, being almost cured.

Wandering spleen—Result—Splenectomy.—The patient was a European lady, aged 32. Admitted November 4th, operation November 8th; discharged (cured) November 29th.

Operation notes.—Her trouble began soon after the birth of her last baby in October 1917. Shortly after the spleen became displaced and twisted on its pedicle and I saw her soon after. The spleen was then much enlarged and tender and acute abdominal symptoms—pain, vomiting, etc., were present. The spleen was manipulated into position under an anæsthetic and she was advised to try an abdominal support for a year. This however has not succeeded and the spleen wanders all over the abdomen when she moves about so that her life is miserable and she is a semi-invalid. On 8th November 1918 the spleen was removed through a high left rectal incision. The spleen was about $1\frac{1}{2}$ times the normal size and the surface roughened. The pedicle had one twist. Ligatured and removed. For a few days she had rather severe pain in the region of spleen but the pulse and temperature have been normal ever since. Healed by first intention.

A blood count was made at the King Institute, Guindy, on November 6th (two days before operation) and again after operation as shown in the following table:—

Leucocytes.	6 Nov. 1918.	12 Nov. 1918.	21 Nov. 1918.	29 Nov. 1918.	13 Jan. 1919.	8 March 1919.
Polymorphos	49	74	64	61	53	42
Large mono-nuclear	8	13	14	10	12	13
Lymphocytes	42	7	15	22	28	37
Transitional	2	2	3	5	5	6
Eosinophiles	...	4	4	2	2	4

The counts on 13th January and 8th March 1919 were in a different laboratory. The red blood count was then given as 5,640,000, total leucocytes 17,680.

The last report from her medical attendant is "she is keeping very good health".

Goitre.—Five patients were operated on successfully. Of the cases three were cystic, and two of the adenomatous variety. All were of comparatively small size.

Cavernous angioma.—A cavernous angioma about the size of a hen's egg situated in the masseter muscle (right side of face) was removed and gave no subsequent trouble.

Aneurysm (popliteal).—The size of the closed fist. No history of syphilis or injury. It filled up the popliteal space. It was ligatured immediately above the sac. No attempt was made at evacuation of the cavity. The patient left hospital with a perfectly sound limb.

Prolapse of rectum.—Patient aged 30, male, Hindu. A very large prolapse which had existed since infancy. Operation consisted in complete excision of the prolapse which included the whole of the rectum. The lower end of the colon was then stitched to the anal margin. The patient had an uneventful recovery.

Double mastoid abscess.—This patient was operated on for acute mastoid abscess (right) on 11th December 1918, and he developed another on the left side which had to be operated on on 18th December 1918. He made a good recovery. This is the first case of a patient suffering from abscess of both mastoids at one time that I have ever heard of.

Reducible inguinal hernia with hydrocele-en-bissac.—One case of this sort was operated on successfully.

Endothelioma neck.—A Hindu girl, aged 18, was admitted with a tumour on the right side of the neck the size and shape of a turkey's egg and with a history of rapid growth during the previous few months. There were several scars over the tumour the result of cauterization. At the operation it was discovered that the tumour was situated immediately behind the carotid sheath with the vessels tightly stretched over it. Both the external and internal jugular veins had to be tied, after which the growth was comparatively easily enucleated. Subsequent microscopical examination proved it to be an endothelioma. When seen some time afterwards there was no sign of recurrence.

None of the other cases presented features of any special interest.

GOVT. GENERAL HOSPITAL, MADRAS,
19th March 1919.

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 noted against their names:—

Major J. J. Robb, I.M.S., from 1st to 24th January 1918.
 Lieut.-Col. W. J. Niblock, I.M.S., from 25th January to 5th February 1918.
 " E. M. Illington, I.M.S., from 6th February to 17th June 1918.
 " W. J. Niblock, I.M.S., from 18th to 25th June 1918.
 Major J. Kirkwood, I.M.S., from 26th June to 28th July 1918.
 Lieut.-Col. E. M. Illington, I.M.S., from 29th July to 6th October 1918.
 " W. J. Niblock, I.M.S., from 7th to 16th October 1918.
 " E. M. Illington, I.M.S., from 17th October to 22nd December 1918.
 " W. J. Niblock, I.M.S., from 23rd to 31st December 1918.

The following table shows the number of patients treated:—

Class of patients.	Remained.	Admitted.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.
Europeans	7	131	138	94	13	17	4	10
Non-Europeans	36	602	638	397	73	94	37	37
Total	43	733	776	491	86	111	41	47

Mortality.—5.2 per cent. including 16 moribund cases.

Average daily sick 2.10.

The following table shows the operative work done:—

Class of patients.	Remained.	Performed during the year.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.
Europeans	5	97	102	82	9	3	...	8
Non-Europeans	24	588	612	450	80	21	22	27
Total	29	685	714	533	95	24	22	35

Mortality.—3.08 per cent.

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

Diseases.	Total number operated.	Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.
Duodenal ulcer	1	1	...	...	...	...
Tumour stomach	1	...	1	...	...	...
Intra-abdominal adhesions	1	1	...	...	...	...
Gastro-enterostomy (posterior)	2	...	...	...	2	...
Intestinal anastomosis (lateral for tub-cæcum).	1	1	...	...	...	...
Intestinal obstruction	3	1	...	...	2	...
Appendicectomy	1	1	...	...	...	...
Hernia (reducible 26, irreducible 3, recurrent 2, strangulated 7).	37	34	...	...	3	...
Suprapubic cystotomy	1	1	...	...	...	...
Suprapubic lithotomy	2	2	...	...	...	...
Hydrocele and Hæmatocela	46	44	...	...	...	2
Amputation penis	3	3	...	...	...	...
Elerhantiasis scrotum	6	6	...	...	...	1
Enteroternic gestatum	1	1	...	...	...	...
Hysterectomy	1	1	...	...	...	...
Varicocele	1	1	...	...	...	...
Major amputations	14	13	...	...	1	...
Liver abscess	6	2	...	...	4	...
Mastoidectomy	1	1	...	...	...	...
Harelip	2	2	...	...	...	...
Excision of astragalus	2	1	...	...	...	1
A. kylosis jaw (cuneiform-osteotomy)	1	1	...	...	...	...
Excision varices	2	2	...	...	...	...
Tumours and cysts	18	17	1	...	...	...

The following are some of the more interesting cases admitted to my wards.

A Hindu, male aged 30, was admitted to the medical wards for abdominal pain. A tumour was felt in the upper part of the abdomen situated above the umbilicus and slightly to the left of the middle line it was freely movable. The pain was referred to the epigastic region and was intermittent in character. He had been suffering for two months.

Chronic intus-susception was diagnosed.

The abdomen was opened by an incision above the umbilicus and over the right margin of the rectus. The tumour was found to consist of a much thickened caecum.

Lateral anastomosis between the ascending colon and ileum was performed.

The patient made a good recovery and was free from all pain. By the time he left hospital no sign of a tumour could be made out. Considering how quickly the trouble cleared up the case was probably one of chronic inflammation of the caecum and not tubercular as was thought at the time of operation.

Endothelioma scalp.—A Hindu male, aged 50, was admitted to hospital with a large pendulous tumour arising from the occipital region. The chief point of interest in the case was the remarkable vascularity of the tumour. There was very profuse hæmorrhage at the operation for its removal. The Professor of Pathology reported the case to be one of endothelioma.

A Hindu, aged 18, was admitted with a small cystic tumour in connexion with the cord. At the operation for its removal the cyst was found to be in connexion of a prolongation of peritoneum along the cord. This prolongation was patent as far as the cyst. It was treated as a hernial sac, dissected out, transfixed and ligatured high up and excised.

Excision of astragalus for dislocation. The patient, a boy aged 18, gave a history of an injury a month previously. The astragalus was dislocated forward and outwards.

At the operation an attempt was made to reduce the bone but this was impossible and it was therefore excised.

The boy has a useful joint with very good movement. He complains of a little pain in walking but this will probably disappear when the muscles of his leg develop there being considerable atrophy of the calf muscles as the result of prolonged rest.

Epithelioma developing in a chronic ulcer.—The chief point of interest in this case is the youth of the patient a boy aged 15. The ulcer was the result of a burn which the patient received when two years of age. The ulcer had never healed. Professor of Pathology reports Epitheliomatous infiltration with underlying dense fibrous tissue.

Multiple vesical calculus.—This is the first case of multiple calculi of the bladder I have come across. There were five stones in the bladder. As the patient had severe cystitis the bladder was opened suprapubically and drained composition of stones. Uric acid and triple phosphates.

GOVT. GENERAL HOSPITAL, MADRAS,
12th March 1919.

E. M. ILLINGTON, Lieut.-Col., I.M.S.,
Second Surgeon

THIRD SURGEON'S WARDS.

I was in charge of these wards throughout the year.

The following table shows the number of patients treated during the year 1918:—

Class.	Remained.	Admitted.	Total.	Cured.	Relieved.	Discharged otherwise.	Died.	Remaining.
Non-Europeans ...	42	950	992	575	155	145	63	54
Europeans ...	6	132	138	86	22	16	5	9
Total ...	48	1,082	1,130	661	177	161	68	63

Mortality.—6.017 per cent; this includes 34 cases 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.	Remaining.
Non-Europeans ...	27	816	843	676	74	12	38	43
Europeans ...	3	132	135	123	4	...	3	5
Total ...	30	948	978	799	78	12	41	48

Mortality.—4.1 per cent.

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

Tumours and cysts.—Fifteen cases, 14 cured and 1 discharged otherwise.

Operations on bones.—Sequestrotomy (for necrosis).—Thirty-two cases, 23 cured, 2 relieved, 2 discharged otherwise and 5 remaining.

Excision and arthroplasty.—One case (done for bony ankylosis of the elbow, the result of an old fracture of the olecranon). The patient is in hospital and has got a useful joint.

Major amputations.—Thirty three cases, 25 cured, 2 relieved, 1 discharged otherwise, 4 died and 1 remaining.

Trephining for depressed fracture of the skull.—One case. The patient is still in hospital and doing well.

Mastoid abscess.—Eight cases, 4 cured, 1 discharged otherwise, 1 died and 2 remaining.

Empyema Thoracis.—Three cases, 2 cured and 1 died.

One of the cases that were cured was very advanced and in a low condition before operation. He had also valvular disease of the heart.

Liver abscess.—Nine cases, 5 cured and 4 died. The cases that died were large abscesses and had come to hospital in the last stage. They died of shock.

Abdominal operations.—(a) Gastrotomy.—One case, died. This was a case of malignant stricture of the œsophagus. Senn's operation was done. Patient developed symptoms of pneumonia on the evening of the second day and died on the third day. On post-mortem, the stomach was found to be firmly adherent to the abdominal wall, there being no leakage into the abdominal cavity which was quite healthy. Both lungs showed signs of patches of consolidation with evidence of suppuration. The œsophagus was found adherent to the trachea and a small communication existed between the two.

(b) Gastro-enterostomy (posterior).—One case cured, done for pyloric stenosis and dilatation stomach.

(c) Colotomy.—One case relieved, done for acute obstruction in a case of inoperable cancer of the rectum.

(d) Appendicectomy.—Two cases, both cured.

Besides these, about 5 laparotomies were done for acute intestinal obstructions, inoperable tumours and peritonitis.

Hernia.—(a) Reducible inguinal.—Thirty-two cases, 30 cured and 2 remaining.

(b) Irreducible inguinal.—Six cases, 5 cured and 1 remaining.

(c) Strangulated inguinal.—Fourteen cases, 8 cured and 6 died.

(d) Strangulated umbilical hernia.—One case, died. This was a case of the raw surface left after dropping of the umbilical cord, ulcerating gradually in the course of three

months into the peritoneal cavity and protrusion of the small gut through the orifice. On admission, the intestine was in a condition of fairly advanced strangulation.

Prolapse rectum.—(Whitehead's operation.)—One case, cured.

Stricture urethra.—(a) Dilatation.—Twenty-one cases, 10 cured, 8 relieved and 3 remaining.

With or without stricture urethra (b) Cock's perineal section.—Two cases, 1 cured and 1 died.

Amputation of the penis (complete).—Six cases, 4 cured and 2 relieved. These were all cases of cancer. In two instances, patients left the hospital before the inguinal glands could be removed and hence are shown as relieved.

Castration.—Nine cases, 5 cured, 3 died and 1 remaining.

Suprapubic lithotomy.—Two cases, 1 cured and 1 remaining.

Hydroceles and Haematocoeles.—Eighty-four cases, 81 cured and 3 remaining.

Elephantiasis scrotum and penis.—Ten cases, 9 cured and 1 remaining.

GOVT. GENERAL HOSPITAL, MADRAS,
January 1919.

W. J. FERNANDEZ,
Third Surgeon.

OUT-PATIENT DEPARTMENT BY THE RESIDENT MEDICAL OFFICER.

The Out-Patient Department was in charge of—

Civil Assistant Surgeon Dr. T. M. K. Nedungadi,
L.M.S. ... 1 Jan. 1918 30 Oct. 1918.

I took over charge of the Out-Patient Department on the 30th October 1918.

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 A. Rangaramanujayya.	1 Jan. 1918	28 Aug. 1918
" A. Narasinga Rao ...	29 Aug. 1918	27 Oct. 1918
" K. Srinivasa Sastri.	28 Oct. 1918	Still continuing.

Second Assistant to Resident Medical Officer.

	From	To
Civil Assistant Surgeon T. C. Harinarayana ...	7 Feb. 1918	22 Oct. 1918
" T. C. Mathew, L.M.S. ...	4 Apr. 1918	11 June 1918
" A. Tirumalayya, L.M.S. ...	12 June 1918	30 June 1917
" C. R. Venkatanarayana.	31 Aug. 1918	9 Sep. 1918
" M. Tiruvankata Acharya.	28 Oct. 1918	31 Dec. 1918

Clinical Instructors.

Civil Assistant Surgeon V. N. Venkataraman, B.A., M.B., B.S.
Temporary Civil Assistant Surgeon B. Srinivasa Acharya, L.M.S.

Sub-Assistant Surgeons.

	From	To
Sub-Assistant Surgeon B. Subba Rao, No. 570.	1 Jan. 1918	7 Apr. 1918
" N. S. Subrahmanyam, No. 553 ...	8 June 1918	25 June 1918
" B. Bhaskara Rao, No. 999.	1 Jan. 1918	8 Nov. 1918
" C. S. Mohanrangam, No. 1097 ...	1 Jan. 1918	31 Dec. 1918
(Transferred to Military duty) :—		
" M. D. Umapati, No. 1133 ...	1 Jan. 1918	3 June 1918
" M. David Pillai, No. 853.	24 June 1918	1 Oct. 1918
" V. Sivasambu, No. 1033.	1 July 1918	1 Oct. 1918
" D. Narayana Ayyangar, No. 721 ...	8 Nov. 1918	31 Dec. 1918
"	9 Nov. 1918	(Reserve duty)
		Still continuing.

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

	Total treated.					Average daily sick.					Operation.
	Men.	Women.	Male children.	Female children.	Total.	Men.	Women.	Male children.	Female children.	Total.	
Non-Europeans.	39,587	8,507	4,744	4,194	57,032	255.67	60.71	36.05	30.97	383.60	5,194
Europeans	2,513	1,195	56	412	4,689	12.26	7.18	3.50	2.4	25.42	779
Total	42,100	9,702	5,313	4,606	61,721	268.13	67.89	39.55	33.45	409.02	5,973

Increase in out-patients amongst Indian was about 1,850. The European out-patient remained almost the same as last year. Clinical teaching of students was done by Doct T. M. K. Nedungadi and myself and Civil Assistant Surgeons V. N. Venkataraman and B. Srinivasa Acharya.

GOVT. GENERAL HOSPITAL, MADRAS,
March 1919.

J. KIRKWOOD, Major, I.M.S.,
Resident Medical Officer.

X-RAY DEPARTMENT.

1. The X-Ray Department continued to be under the charge of Lieut.-Col. C. H. Leet-Palk, I.M.S. (Retired), assisted by Civil Assistant Surgeon Rao Sahib M. Govindarajulu Nayudu, as in the previous year, up to the 19th January 1918. The Department was in his charge from the 20th January to the 2nd May 1918, and during his absence on leave Civil Assistant Surgeon M. R. Guruswami Mudaliyar, B.A., M.B., C.M., Second Physician in this Hospital, was placed in charge of the Department. On the 27th May 1918, Civil Assistant Surgeon R. A. D. Graham, having been posted back to X-Ray Department, Civil Assistant Surgeon M. R. Guruswami Mudaliyar was consequently relieved of the X-Ray work. Civil Assistant Surgeon Rao Sahib M. Govindarajulu Nayudu returned to duty on the 30th June 1918, and resumed charge of the X-Ray Department.

2. **Radiographic work and Screen examination.**—These continued in 1918 as in the previous year.

In the **X-Ray Therapeutic Department** some more cases of fibroid tumours of uterus were treated successfully as in the previous year.

Ionic Medication is getting more popular and has been very effective.

X-Ray Exposures became nearly double in 1918 as compared with the cases in 1917.

Other methods of Electrical treatment were more or less the same as in the previous years.

On the whole 420 more cases were attended to in this department during 1918 as compared with the figures for 1917.

3. In this department in 1917, five Civil Assistant Surgeons were sent to be trained but none of them was kept sufficiently long to learn X-Ray work, and in 1918 one was sent who, like the others, was kept for a very short period only.

Suggestions.

The X-Ray Department in the General Hospital consists of two rooms where all the different apparatus for various kinds of diagnosis and treatment are kept together for want of sufficient space. It is suggested that a separate and suitable building might be built and well equipped either in the compound of this hospital or elsewhere. The department might be treated as a special institution and centrally located so that other hospitals might utilize the services of the Central X-Ray Institute which would contain all the varied and necessary apparatus.

This Central X-Ray Institute can also be used for training Assistant Surgeons in this special work.

STATISTICS OF X-RAY DEPARTMENT.

Table I.

Comparative statement for the past three years.

Nature of work	1916.	1917.	1918.
I. Radiographic work—			
(a) Radiograph (Skiagraph) ...	943	824	825
(b) Radioscopes (Screen examinations) ...	22	41	41
II. Radio-therapeutic work—			
X-Ray exposures ...	359	435	848
III. Photographic works—			
Photograph ...	36	8	6
IV. Electro-medical work—			
(a) Galvanization ...	199	122	140
(b) Faradization ...	4	100	59
(c) Electrolysis ...	15	5	5
(d) Ionic medication ...	262	335	372
(e) Cantherisation ...	63	61	49
(f) Vibratory massage ...	...	...	9
Total ...	1,902	1,934	2,354

Assistant Surgeons deputed to learn X-Ray work in 1918.

Serial No.	Name.	Designation.	Period.		Remarks.
			From	To	
1	K. I. Gopalaswami Ayyangar, L.M.S.	Civil Assistant Surgeon	6 Oct. 1917	7 Feb. 1918	Transferred to Surgical wards on 8th February 1918.
2	Harinarayana, L.M.S.	Do.	8 Feb. 1918	22 Mar. 1918	Transferred to Surgical wards on 23rd March 1918.

GOVT. GENERAL HOSPITAL, MADRAS,
29th January 1919.

E. M. ILLINGTON, Lieut.-Col., I.M.S.,
Senior Medical Officer.

