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KING EDWARD VII SANATORIUM
MIDHURST

Eleventh Annual Report

JULY 1916 to JULY 1917

PUBLISHED AT
THE KING EDWARD VII SANATORIUM
MIDHURST, SUSSEX

1917

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KING EDWARD VII SANATORIUM

MIDHURST

ELEVENTH ANNUAL REPORT

July 1916—July 1917

During the twelve months ending June 30th, 1917, 340 patients were admitted. Of that number, 36 cases of re-admission and 21 that remained in the Sanatorium only one month or less are not included in the following statistical records, and 277 were discharged from the Sanatorium. Of the latter, 5 as far as could be determined, were not suffering from pulmonary tuberculosis, 58 can be classified in Group I, 123 in Group II and 91 in Group III (see page 8). Among the patients were 43 officers from the Navy and Army, and 2 Army Nursing Sisters.

Dr. N. D. Bardswell, M.V.O., after 15 months' oversea service, returned in December and resumed his duties as Medical Superintendent.

Great difficulties have had to be overcome in maintaining an efficient staff, a further number of the male staff having been called up for military service and other Government work, but, thanks to the loyal co-operation of the heads of departments, the work of the Sanatorium has been run as nearly as possible on the lines of pre-war days.

THE SANATORIUM ROLL OF HONOUR.

Of the patients discharged from the Sanatorium during the years 1906-1915 inclusive, 105 are known to have served with the Forces, eight of whom had had the complication of tuberculosis of the larynx. Of these 42 have served in France, 4 went to Egypt, 7 to Salonica,

1 to Gibraltar, 4 to Africa, 2 to Gallipoli, 3 to India; 8 joined the Navy; 2 are serving in the Flying Corps, and the remaining 32 are either on Home Service or still training in this country.

The C.B. has been conferred on one of these patients. Four have been awarded the D.S.O., and three have been mentioned in dispatches.

69 of the patients serving had tubercle bacilli in the sputum on admission to the Sanatorium. Of this number 51 are in good health and still with the various Forces they engaged in; 6 have been killed in action or died from wounds; 12, having relapsed, have been invalided out of the Services. In brief, 82 per cent. successfully withstood the wear and tear of military duty. In the case of the 36 patients in whose sputum, tubercle bacilli were not demonstrated, 26 are in good health and still serving, 2 have been killed in action, 8 have broken down. Thus of this group 77 per cent. have suffered no recurrence of pulmonary tuberculosis.

Twenty-two members of our staff, including three doctors and three nurses, have been on active service. Of this number two porters have been killed in action; 18 are still serving.

As in former Annual Reports, the Turban-Gerhardt method of classification has been used to describe the clinical condition on admission. This classification is thus described in the Official Journal of the International Tuberculosis Committee:—

I. Disease of slight severity, limited to small areas of one lobe on either side, which, in the case of infection of both apices, does not extend beyond the spine of the scapula or the clavicle, or in the case of affection of the apex of one lung does not extend below the second rib in front.

II. Disease of slight severity, more extensive than Group I, but affecting, at most, the whole of one lobe, or severe disease extending at most to the half of one lobe.

III. All cases of greater severity than Group II, and all those with considerable cavities.

By disease of slight severity is to be understood: disseminated foci characterised by slight dulness, indefinite, rough or weak vesicular, vesico-bronchial, or broncho-vesicular breathing, and fine and medium crepitations.

By severe disease: massive infiltration recognised by definite dulness, broncho-vesicular or bronchial breathing, with or without crepitations.

Cases with signs of considerable excavation, giving rise to tympanitic percussion with amphoric or cavernous breathing, and numerous coarse consonating crepitations, come under Group III.

Pleuritic dulness, if only of slight extent, is to be left out of account; if it is considerable, pleuritis should be specially mentioned under tuberculous complications.

The following terms are used to describe the condition of patients on discharge from the Sanatorium:—

“Disease arrested”: General health completely restored in every respect without any sign of disease of the lungs except such as is compatible with a completely healed lesion. Sputum if still present, free from tubercle bacilli.

“Much improved”: General health good. Physical signs of disease in the lungs, though much diminished, not entirely cleared up, e.g., perhaps limited to a few crepitations on cough only. Tubercle bacilli still to be detected in the sputum.

“Improved”: General health improved, but not restored. Physical signs of disease in the lungs, though less marked than on admission, still present.

“Stationary”: No appreciable improvement in the condition of the lungs or in the general health.

“Worse”: General or local condition worse.

Results of Treatment as shown by the Condition of the Patients on Discharge from the Sanatorium

—	No. of Cases	Disease Arrested	Much Improved	Improved	Stationary or Worse	Died in Sanatorium
Group I ...	58	32	23	2	1	—
„ II ...	123	19	76	14	14	—
„ III ...	91	1	34	26	28	2
All Cases ...	272	52	133	42	43	2

Group IV.—Patients in whom no definite evidence of Pulmonary Tuberculosis was found.

—	No. of Cases	Much Improved	Improved	Stationary or Worse	Died in Sanatorium
	5	4	1	—	—

Report of the Throat Department

Of the 277 patients discharged during the year ending June 30th, 1917, 269 were examined laryngoscopically by Sir St. Clair Thomson, with the following results:—

221 were found to be normal.
 46 „ „ diseased.
 2 the diagnosis was doubtful.

The remaining eight patients were too ill to be moved for examination.

Table I showing the result of treatment in Patients suffering from Tuberculosis of the Larynx, in whose Sputum Tubercle Bacilli were demonstrated in the Sanatorium:—

—	No. of Cases	Cured	Improved	Stationary or Worse	Remarks
Group I ...	—	—	—	—	4 treated with galvano-cautery, for results see Table III.
„ II ...	16*	3	6	5	
„ III ...	29	3	13	13	
All Cases ...	45	6	19	18	

* Two patients developed Tuberculosis of the Larynx during treatment in the Sanatorium.

Table II showing the result of treatment in Patients suffering from Tuberculosis of the Larynx, in whose Sputum Tubercle Bacilli were not demonstrated in the Sanatorium :—

—	No. of Cases	Cured	Improved	Stationary or Worse	Remarks
Group I ...	—	—	—	—	Treated with galvano-cautery
„ II ...	1	—	1	—	
„ III ...	—	—	—	—	
All Cases ...	1	—	1	—	

Table III showing the result of treatment with the Galvano-cautery, in Patients suffering from Tuberculosis of the Larynx :—

—	No. of Cases	Cured	Improved	Stationary or Worse
Group I ...	—	—	—	—
„ II ...	5	2	2	1
„ III ...	—	—	—	—
All Cases ...	5	2	2	1

The State-Aided Statistical Research.

In the year 1914 a grant was made by the Medical Research Committee for the purpose of carrying out an investigation into the data available for the determination of the rate of mortality amongst patients discharged from the Sanatorium as compared with that of the general population of a corresponding age.

The lines of this research were determined during 1914, after consultation with Professor Karl Pearson, F.R.S., and the chief Actuaries of the Clerical, Medical and General and the Clergy Mutual Life Assurance Companies.

The patients dealt with were discharged from the Sanatorium between January 1st, 1907, and December 31st, 1914, in all about 1,800 cases. The rates of mortality year by year since discharge have been determined for the following :—

(a) Cases in Group 1 with T.B. in the sputum on admission.

„	„	2	„	„	„	„	„
„	„	3	„	„	„	„	„

- (b) Cases in which T.B. were not found in the sputum, but which were considered to be Pulmonary Tuberculosis.
- (c) The comparative rate of mortality of cases in Group 1, 2 and 3 in which T.B. (1) did, and (2) did not disappear from the sputum during treatment in the Sanatorium.
- (d) The Comparative rate of mortality of cases in Group 1, 2 and 3 in which
 - (1) The Larynx was diseased on admission.
 - (2) " " " not " " "
- (e) The comparative rate of mortality of cases (irrespective of Group)
 - (1) In which the disease began with Hæmoptysis.
 - (2) " " " " " " " Pleurisy
 - (3) " " " " " " " Insidiously
 - (4) " " " there was a family history of tuberculosis
 - (5) " " " " " no " " " "
- (f) The comparative rate of mortality of 352 selected cases for the most part treated with Tuberculin.
- (g) The comparative rate of mortality of 384 selected comparable cases treated without Tuberculin.

The necessary data were tabulated, so as to allow of their actuarial treatment. The actual calculations have been completed, and the work of drawing up the report upon the results thus obtained is well advanced. The facts brought to light by this research are of considerable interest and will form the subject of a special communication.

Statistics of Ultimate Results

Although in the usual way the number of patients lost sight of has a tendency to increase, the percentage has steadily decreased since a special officer has been employed to follow them up, as will be seen from the following figures :

The 8th Annual Report gives the percentage of patients lost sight of as 12·8.

" 9th	"	"	"	"	"	10·3.
" 10th	"	"	"	"	"	8·4.
" 11th	"	"	"	"	"	3·3.

In this way the grant has been of much value to the Sanatorium in amplifying the data on which the statistics are founded.

In the following statistical tables, the record of cases in which tubercle bacilli were found in the sputum (in the Sanatorium laboratory), and those in which they were not found, have been considered separately.

W. B. Barlow

Group II considered separately

Year of Discharge	Number Discharged	Number reported "well" or "alive" in each successive year after discharge										No. dead in 1917	No. lost sight of in 1917
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917		
1906-07 ...	57	50	45	40	37	31	22	18	24	23	18	35	4
1907-08 ...	85	—	69	51	56	47	32	32	31	33	35	46	4
1908-09 ...	94	—	—	82	59	48	34	37	32	38	40	52	2
1909-10 ...	99	—	—	—	69	59	44	38	36	36	33	62	4
1910-11 ...	100	—	—	—	—	68	43	49	40	37	37	58	5
1911-12 ...	110	—	—	—	—	—	65	59	49	43	41	61	8
1912-13 ...	102	—	—	—	—	—	—	77	68	53	51	51	0
1913-14 ...	95	—	—	—	—	—	—	—	74	54	55	38	2
1914-15 ...	99	—	—	—	—	—	—	—	—	74	74	24	1
1915-16 ...	71	—	—	—	—	—	—	—	—	—	54	17	0

Group III considered separately

Year of Discharge	Number Discharged	Number reported "well" or "alive" in each successive year after discharge										No. dead in 1917	No. lost sight of in 1917
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917		
1906-07 ...	38	17	14	12	8	6	5	6	6	6	5	33	0
1907-08 ...	76	—	37	28	22	18	12	12	9	8	8	66	2
1908-09 ...	83	—	—	40	31	22	13	12	11	11	12	71	0
1909-10 ...	50	—	—	—	25	16	12	10	8	8	8	40	2
1910-11 ...	52	—	—	—	—	17	9	8	6	6	6	45	1
1911-12 ...	55	—	—	—	—	—	19	15	12	13	11	42	2
1912-13 ...	44	—	—	—	—	—	—	22	12	13	13	30	1
1913-14 ...	63	—	—	—	—	—	—	—	27	16	15	46	2
1914-15 ...	74	—	—	—	—	—	—	—	—	33	26	46	2
1915-16 ...	67	—	—	—	—	—	—	—	—	—	36	30	1

Table A.—Statistics of Ultimate Results

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium

All Cases considered together

[illegible]

1907-08 One killed in action

1907-08	One killed in act
1908-09	One " "

Group I considered separately

[illegible]

Group II considered separately

[illegible]

Group III considered separately

[illegible]

Table B.—Statistics of Ultimate Results

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium

Condition on Admission	Condition on Discharge	Discharged during the Year										Condition in 1917
		1906-7	1907-8	1908-9	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	
GROUP I	Disease Arrested {	11 5 —	16 7 —	13 1 —	10 2 1	10 1 —	10 3 1	6 2 —	6 — 1	8 1 —	7 1 —	Alive. Dead. Lost sight of.
	Much Improved {	7 6 —	13 2 2	2 9 —	16 7 —	18 8 2	9 7 1	5 1 —	8 1 —	8 1 —	6 — —	Alive. Dead. Lost sight of.
	Improved {	— — —	2 1 —	— 1 —	2 2 —	— 1 1	— — —	— — —	1 — —	— 1 —	— — —	Alive. Dead. Lost sight of.
	Stationary or Worse {	1 — —	1 1 —	— 2 —	2 1 —	1 3 —	1 1 —	— 1 —	1 1 —	1 — —	2 — —	Alive. Dead. Lost sight of.
GROUP II	Disease Arrested {	4 1 1	1 2 —	10 2 1	9 3 2	11 3 3	14 6 1	15 9 —	11 3 1	13 1 —	6 1 —	Alive. Dead. Lost sight of.
	Much Improved {	11 20 1	29 18 1	22 14 1	13 29 2	17 32 2	19 24 2	20 17 —	32 17 1	42 11 1	31 5 —	Alive. Dead. Lost sight of.
	Improved {	3 8 1	3 10 2	7 19 —	10 15 —	4 9 —	6 13 2	10 10 —	6 6 —	7 2 —	12 2 —	Alive. Dead. Lost sight of.
	Stationary or Worse {	— 6 1	2 16 1	1 17 —	1 15 —	5 14 —	2 18 3	6 15 —	6 12 —	12 10 —	5 9 —	Alive. Dead. Lost sight of.
GROUP III	Disease Arrested {	— — —	— — —	1 1 —	— — —	— — —	2 — —	1 — —	1 — —	— — —	1 — —	Alive. Dead. Lost sight of.
	Much Improved {	4 6 —	5 14 1	6 4 —	5 6 —	4 7 —	2 4 1	4 2 —	6 2 1	14 5 1	20 4 —	Alive. Dead. Lost sight of.
	Improved {	1 10 —	3 20 —	4 25 —	3 15 —	1 16 —	3 10 1	4 6 1	2 7 1	6 13 —	8 5 1	Alive. Dead. Lost sight of.
	Stationary or Worse {	— 17 —	— 32 1	1 41 —	— 19 2	1 22 1	4 28 —	4 22 —	6 37 —	6 28 1	7 21 —	Alive. Dead. Lost sight of.
SUMMARY ... {		42 79 4	75 123 8	67 136 2	71 114 7	72 116 9	72 114 12	75 85 1	86 86 5	117 73 3	105 48 1	Alive. Dead. Lost sight of.
TOTAL ...		125	206	205	192	197	198	161	177	193	154	

Table B.—Statistics of Ultimate Results

Cases in the Sputum of which T.B. were not demonstrated in the
Sanatorium

Condition on Admission	Condition on Discharge	Discharged during the Year										Condition in 1917
		1906-7	1907-8	1908-9	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	
GROUP I	Disease Arrested {	12 1 1	22 2 1	20 6 7	32 3 3	28 6 1	20 4 1	13 1 —	6 — —	7 — —	29 — 1	Alive. Dead. Lost sight of.
	Much Improved {	2 — —	4 1 —	2 1 —	2 — —	1 — —	— — —	2 — —	19 — —	6 1 1	2 — —	Alive. Dead. Lost sight of.
	Improved {	— — —	— 1 —	2 — —	— 1 —	— — —	1 — —	— — —	3 — —	2 — —	— — —	Alive. Dead. Lost sight of.
	Stationary or Worse {	— — —	— — —	1 — —	1 — —	— — 1	— — —	3 — —	— — —	— — —	— — —	Alive. Dead. Lost sight of.
GROUP II	Disease Arrested {	4 1 —	6 2 —	6 2 —	6 — —	5 1 —	6 2 1	3 1 —	1 1 —	1 — —	11 1 —	Alive. Dead. Lost sight of.
	Much Improved {	1 — 1	6 1 1	3 6 —	5 3 —	3 — —	7 1 1	2 — —	3 1 —	11 — —	4 1 —	Alive. Dead. Lost sight of.
	Improved {	— — —	1 — —	4 — 1	— — —	— — —	— 1 —	1 — —	3 1 —	1 — —	— 1 —	Alive. Dead. Lost sight of.
	Stationary or Worse {	— — —	— 1 —	1 2 —	1 — —	1 — —	1 — —	2 — —	1 — —	— 1 —	4 1 —	Alive. Dead. Lost sight of.
GROUP III	Disease Arrested {	— — —	— — —	— — —	— — —	— — —	— — —	— — 1	— — —	— — —	— — —	Alive. Dead. Lost sight of.
	Much Improved {	— 1 —	1 1 —	1 1 —	1 — —	— — —	— 1 —	2 — —	1 — —	1 — —	1 — —	Alive. Dead. Lost sight of.
	Improved {	— — —	— — —	— — —	1 — —	— 1 —	1 — —	— — —	— — —	1 — —	1 1 —	Alive. Dead. Lost sight of.
	Stationary or Worse {	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— 1 —	— 2 —	1 — —	Alive. Dead. Lost sight of.
SUMMARY ... {		19 3 2	40 9 2	40 18 8	49 7 3	38 8 2	36 9 3	28 2 1	37 4 —	30 4 1	53 5 1	Alive. Dead. Lost sight of.
TOTAL ...		24	51	66	59	48	48	31	41	35	59	



