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**King Edward VII Sanatorium
Midhurst**

**TWENTY-FIRST
ANNUAL REPORT**

JULY 1926 to JULY 1927

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King Edward VII Sanatorium Midhurst

Twenty-first Annual Report

JULY 1926 to JULY 1927

DURING the twelve months ending the 30th June, 1927, 294 patients were admitted to the Sanatorium. Of these 33 were re-admissions and 73 remained in the Sanatorium less than nine weeks—too short a period to be considered in the after-history records. In the same period 189 patients were discharged and were grouped as follows:—

Group I	..	..	47
Group II	..	..	80
Group III	..	..	41
Group IV	..	..	21

The number of applicants for admission was 570; the average waiting list has been higher—between 13 and 14 for men and 7 and 8 for women. The Medical Superintendent examined 125 applicants and accepted 97 (77·6 per cent.) and rejected 28 (22·4 per cent.).

It is of interest to note that 294 patients were admitted during the period under review as against 268 in the period of the last report, and that 73 remained less than nine weeks as against 42 in the previous period. This has meant a considerable increase in the work of the Institution, particularly in the X-Ray Department, and is due to the continued effort to confine cases accepted for treatment for a period beyond nine weeks to patients that come under Groups I and II. In consequence, Group III cases numbered 41 for 1926–1927 as against 64 for 1925–1926. A comparison of results of treatment warrants such a course, and further urges the necessity for early treatment of Pulmonary Tuberculosis:—

	1924–25	Arrested	1925–26	Arrested	1926–27	Arrested
G. I	64	48 (78·1%)	55	44 (80%)	47	33 (72%)
G. II	78	19 (24·4%)	65	16 (24·6%)	80	21 (26·25%)
G. III	61	2 (3·3%)	64	3 (4·7%)	41	2 (4·9%)

Figures for the three years together show that while 76·7 per cent. of Group I cases attained arrest, a similar result was obtained in only 24·9 per cent. of Group II and in only 4·3 per cent. of Group III.

A Table has now been introduced to show the present results of cases of artificial pneumothorax induced since October of 1924 ; it is intended to follow these lines in future with a view to separate after-history records and possibly useful statistical conclusions.

Twenty-one cases were discharged as Group IV, with no evidence of Pulmonary Tuberculosis. They were entered thus :—

No definite disease found	14
Chronic Bronchitis and Emphysema .. .	1
Syphilis	1
Mediastinitis .. .	1
Tuberculosis of Thyroid	1
Bronchiectasis	1
Hyperthyroidism	1
Fibroma of Bronchus	1

Two of these cases were of particular interest. That of Tubercle of the Thyroid made an apparently complete recovery after excision of the affected lobe ; there was no evidence of any other tubercular focus.

The fibroma of bronchus was situated in the left secondary bronchus. The history was of repeated hæmoptyses. The only physical sign was slight lack of movement and impaired air entry over the left lower lobe. Repeated sputum examinations failed to demonstrate tubercle. Ordinary X-Ray gave no assistance, but lipiodal clearly localised the bronchial obstruction. The fibroma was successfully removed through a bronchoscope. A special report is to be published later.

The social side of the Sanatorium is considered a very important factor in the attainment of results. In addition to the usual variety of Entertainment, including Concert parties arranged by the Council and by patients' friends, and carried through with the co-operation of the patients' General Purposes Committee, a Cinema has been installed, and it is now possible to give a picture show every week during the winter months.

GENERAL STATISTICS.

The following Tables show an analysis of the 189 patients who were discharged during the past year, with regard to—

- (1) Place of Residence.
- (2) Occupation.
- (3) Age and Sex.
- (4) Married or Single.
- (5) Mode of Onset.
- (6) Duration of Disease.

TABLE I.—PLACE OF RESIDENCE

Place of Residence	Number of Patients	Place of Residence	Number of Patients
London	66	Somersetshire	2
Essex	15	Staffordshire	2
Surrey	14	Warwickshire	2
Yorkshire	12	Canary Islands	1
Hampshire	10	Cornwall	1
Sussex	9	Dorset	1
Ireland	7	Guernsey	1
Lancashire	7	Isle of Wight	1
Kent	6	Leicestershire	1
Middlesex	6	Northamptonshire	1
Devonshire	4	Nottinghamshire	1
Derbyshire	3	Rutland	1
Hertfordshire	3	Scotland	1
Cambridgeshire	2	Shropshire	1
Cheshire	2	Wales	1
Durham	2	Worcestershire	1
Lincolnshire	2		
			189

TABLE II.—OCCUPATION

Occupation	Number of Patients	Occupation	Number of Patients
Clerks	54	Manufacturers	2
Housewives	23	Merchant Service	2
Nil	17	Architects and Surveyors	1
Teachers	10	Army	1
Civil Servants	7	Artists	1
Managers	7	Book Makers	1
Nurses	7	Builders and Decorators	1
Accountants	6	Buyers	1
Engineers	6	Dairy Workers	1
Students	5	Dentists	1
Travellers and Agents	5	Detectives	1
Clergymen	4	Farmers	1
Secretaries	4	Lecturers	1
Assessors and Collectors	3	Merchants	1
Doctors	3	Motor Drivers	1
Musicians	3	Navy	1
Solicitors	3	Photographers	1
Directors	2	Royal Air Force	1
			189

TABLE III.—AGE AND SEX.

Years						Males	Females	Total
Under 20	..	..	..	..	..	4	4	8
20-25	..	..	..	..	..	26	17	43
26-30	..	..	..	..	..	25	23	48
31-35	..	..	..	..	..	20	12	32
36-40	..	..	..	..	..	16	3	19
41-45	..	..	..	..	..	10	8	18
46-50	..	..	..	..	..	10	3	13
Over 50	..	..	..	..	..	7	1	8
TOTALS						118	71	189

TABLE IV

Married	..	..	..	..	..	84
Single	..	..	..	..	..	105
						<u>189</u>

TABLE V.—MODE OF ONSET

Mode of Onset						Number of Cases	Percentage
Cough	..	..	..	..	..	79	41.79 %
Hæmoptysis	..	..	..	..	..	28	14.82 %
Pleurisy	..	..	..	..	..	19	10.06 %
Influenza	..	..	..	..	..	17	8.99 %
Pneumonia	..	..	..	..	..	2	1.06 %
Other Modes	..	..	..	..	..	44	23.28 %
						189	

TABLE VI.—DURATION OF DISEASE

Average Duration	..	..	2 years 3 weeks.
Extremes	..	..	1 month—30 years.

TABLE VII.—GENERAL RESULTS OF TREATMENT AS SHOWN BY THE CONDITION OF THE PATIENTS ON ADMISSION AND ON DISCHARGE FROM THE SANATORIUM DURING THE YEAR 1926-1927

Group on Admission	Number of Cases	Arrested	Much Improved	Improved	Stationary or Worse	Died in Sanatorium
I	47	33	7	6	1	—
II	80	21	22	31	6	—
III	41	2	4	23	12	—
All Cases	168	56	33	60	19	—
IV	Patients in whom no definite evidence of Pulmonary Tuberculosis was found	Number of Cases				
			21	4	16	1

GROUPS.—As in previous Annual Reports, the Turban-Gerhardt classification has been used to indicate the clinical condition of patients on admission. This classification, based on physical signs, is as follows :—

Group I.—Disease of slight severity, limited to small areas of one lobe on either side, which, in the case of affection 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.

Group 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.

Group 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 dullness, indefinite, rough or weak vesicular, vesico-bronchial, or broncho-vesicular breathing, and fine and medium crepitations.

By “severe disease”: massive infiltration recognised by definite dullness, 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 rales come under Group III.

Pleuritic dullness, 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.*, 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 still present, though less marked than on admission.

“STATIONARY.”—No appreciable improvement in the condition of the lungs or in the general health.

“WORSE.”—General or local condition worse.

TABLE VIII.—DEMONSTRATION OF T.B. IN SPUTUM

On Admission				On Discharge			
Positive	..	..	121	Positive	..	..	85
Negative	..	..	32	Negative	..	..	53
No Sputum	..	..	15	No Sputum	..	..	30
Group IV Cases	..	..	21	Group IV Cases	..	..	21
Died in Sanatorium	..	..	—	Died in Sanatorium	..	..	—
All Cases	..	..	189	All Cases	..	..	189
Number of Patients who lost T.B. in Sanatorium				.. 36			

TABLE IX.—WEIGHT

Weight				Group I	Group II	Group III	Group IV
Gained	..	..	..	44	66	30	15
Lost	..	..	..	2	10	4	3
No Change	..	..	..	—	1	—	1
Not Weighed	..	..	..	1	3	7	2
All Cases	..	..	..	47	80	41	21

REPORTS OF SPECIAL DEPARTMENTS.

REPORT OF THE THROAT DEPARTMENT.

All the 189 patients discharged during the year ending 30th June, 1927, were examined laryngoscopically by Sir St. Clair Thomson. Of these, in 170 the larynx was found to be normal; in 19 diseased. The results of treatment are shown in Tables X, XI and XII.

TABLE X.—SHOWING THE RESULT ON DISCHARGE OF TREATMENT IN PATIENTS SUFFERING FROM TUBERCULOSIS OF THE LARYNX IN WHOSE SPUTUM TUBERCLE BACILLI *were* DEMONSTRATED IN THE SANATORIUM

	Number of Cases	Cured	Improved	Stationary or Worse	Died in Sanatorium	Remarks
Group I ..	—	—	—	—	—	For cases treated with galvano-cautery <i>see</i> Table XII.
Group II ..	6	6	—	—	—	
Group III ..	7	—	3	4	—	
All cases ..	13	6	3	4	—	

TABLE XI.—SHOWING THE RESULT ON DISCHARGE OF TREATMENT IN PATIENTS SUFFERING FROM TUBERCULOSIS OF THE LARYNX IN WHOSE SPUTUM TUBERCLE BACILLI *were not* DEMONSTRATED IN THE SANATORIUM

	Number of Cases	Cured	Improved	Stationary or Worse	Died in Sanatorium	Remarks
Group I ..	1	1	—	—	—	For cases treated with galvano-cautery <i>see</i> Table XII.
Group II ..	4	3	1	—	—	
Group III ..	1	1	—	—	—	
All cases ..	6	5	1	—	—	

TABLE XII.—SHOWING THE RESULT ON DISCHARGE OF TREATMENT WITH THE GALVANO-CAUTERY IN PATIENTS SUFFERING FROM TUBERCULOSIS OF THE LARYNX

	Number of Cases	Cured	Improved	Stationary or Worse	Died in Sanatorium	Remarks
Group I ..	—	—	—	—	—	
Group II ..	6	6	—	—	—	
Group III ..	1	1	—	—	—	
All cases ..	7	7	—	—	—	

ARTIFICIAL PNEUMOTHORAX.

The number of cases discharged between September 30th, 1924, and June 30th, 1927, was 508.

In 37 cases artificial pneumothorax was attempted, and were grouped as follows :—

Choice I	..	..	..	13
Choice II	..	..	..	19
Choice III	..	..	..	5

In 11 the treatment was impossible, either because no pleural space was found or only a small pocket was struck, or because by the presence of many adhesions, it could not be continued :—

No pleural space found	..	..	1
Pocket only	..	..	3
Adhesions	..	..	7

These 11 were grouped as follows :—

Choice I	..	..	0
Choice II	..	..	6
Choice III	..	..	5

The after-history of these 11 cases to June 30th, 1927, gives the following results :—

Alive, General Cond., Good	..	4
Alive, General Cond., Poor	..	1
Dead	..	6
		—
		11
		—

In 26 cases the treatment was continued. They were grouped as follows :—

Choice I	..	..	13
Choice II	..	..	12
Choice III	..	..	1

A table of the after-histories to date is appended :—

NOTE.—Choice I.— Cases with involvement of one lung.

Choice II.— Cases with cavitation or much evident fibrosis of one lung, or with involvement of the better lung not beyond the upper third.

Choice III.—Cases *in extremis*, e.g., with hæmoptysis.

Cases with bilateral disease—but with a possibility of aid by limited pneumothorax on the more active side.

No.	Sex	Choice.	Side.	Date of Induction.	Complications.			Sputum.		After History to 30/6/27.
					Before A.P.T.	During A.P.T.	On Discharge.	Before A.P.T.	On Discharge.	
13-158	F.		L.	24/10/24	Tub. Larynx ..	—	Larynx Cured ..	+ve	-ve 9 times. No Sputum	Refills discontinued. Treatment completed Jan., 1927
13-167	F.	II	L.	31/10/24	—	Fluid ..	Fluid ..	+ve	No Sputum ..	Obliterated 22/2/27. Sputum returned +ve 26/3/27.
13-225	M.	II	L.	31/11/24	Haemoptysis ..	—	Ischio Rectal Abscess ..	+ve	No Sputum ..	Discontinued 30/8/25. Advancing disease Rt. Side.
13-239	F.	I	L.	14/ 2/25	—	—	—	+ve	-ve. No Sputum ..	Refills
13-342	F.	I	L.	8/ 5/25	—	Hysteria ..	Much Improved ..	+ve	-ve. No Sputum ..	Refills
13-309	M.	I	R.	19/ 7/25	Haemoptysis { Lymphadenoma	—	Lymphadenoma Worse ..	+ve	+ve. ..	Died August, 1926.
13-362	F.	I	L.	15/ 9/25	—	—	—	+ve	-ve. ..	Refills
13-347	F.	I	R.	17/ 9/25	Haemoptysis ..	Fluid ..	No Fluid ..	+ve	No Sputum ..	Refills
13-383	F.	I	R.	30/ 9/25	—	—	—	+ve	-ve. ..	Refills
14-13	F.	II	R.	28/10/25	Larynx ..	—	Larynx Cured ..	+ve	+ve. ..	Refills. Readmitted with Larynx relapse.
13-373	F.	II	R.	24/11/25	—	—	—	+ve	+ve. ..	Died April, 1927.
14-15	F.	I	L.	11/ 2/26	—	Fluid ..	No Fluid ..	+ve	No Sputum ..	Obliterated
14-28	F.	II	R.	4/ 3/26	—	Fluid ..	No Fluid ..	+ve	+ve. ..	Refills
14-19	M.	II	L.	15/ 3/26	Haemoptysis { Larynx ..	—	Larynx Cured ..	+ve	+ve. ..	Refills
14-5	F.	II	R.	17/ 4/26	—	—	—	+ve	No Sputum ..	Refills
14-161	F.	I	L.	18/ 5/26	—	{ Fluid { Larynx	Larynx Cured by Cautery	+ve	+ve. ..	Refills
14-22	M.	I	L.	21/ 5/26	Larynx ..	—	Larynx Cured ..	+ve	-ve. No Sputum ..	Refills
14-72	M.	II	L.	21/ 6/26	—	—	—	+ve	-ve. ..	Refills
14-85	F.	I	R.	21/ 6/26	—	Fluid ..	Fluid ..	+ve	-ve. ..	Refills
12-398	M.	III	R.	6/ 9/26	Larynx { Haemoptysis	Fluid ..	Larynx Improved { Fluid ..	+ve	+ve. ..	Refills
14-81	F.	I	L.	10/ 9/26	—	Fluid ..	No Fluid ..	+ve	No Sputum ..	Refills
14-148	F.	I	R.	28/10/26	—	—	—	+ve	-ve. ..	Refills
14-152	M.	II	L.	5/11/26	—	—	—	+ve	-ve. No Sputum ..	Refills
14-158	F.	I	L.	9/11/26	—	—	—	+ve	-ve. No Sputum ..	Refills
14-156	F.	II	R.	6/12/26	—	—	—	+ve	No Sputum ..	Refills
14-159	F.	II	L.	6/ 1/27	—	—	—	+ve	+ve. ..	Refills

From the table these results can be tabulated up to date :—

Alive, General Cond., Good	..	22
Alive, General Cond., Bad	..	1
Dead		3
		—
Total	..	26
		—

Of the 23 alive, 20 are still continuing treatment. Two have discontinued treatment by obliterative pneumothorax. Both were cases complicated by fluid; one is very well and has arrested disease; the other has had return of sputum, T.B. +, but the general condition is good. One case has completed treatment. The 23 show the following results as regards sputum. All were T.B. + at the induction of treatment.

T.B. -		5	} 16
No Sputum		11	
T.B. +		7	
		—	
Total	..	23	
		—	

Among the 23, 8 have up-to-date been complicated by fluid. In 2 (the 2 referred to above), this has caused obliterative pneumothorax, one with bad result. Three of the 26 are dead—2 of advancing disease on the opposite side and one of complicating Lymphadenoma.

The list contains 6 cases of laryngeal tuberculosis. Five had this complication before the induction of A.P.T. Four were cured by the treatment; one was improved only. One developed laryngeal tuberculosis while in the Sanatorium and while under A.P.T.; the condition was finally cured by cautery.*

* Artificial Pneumothorax and Laryngeal Tuberculosis. Sir St. Clair Thomson and Dr. R. R. Trail, *Lancet*. (*Lancet*, 7/5/27, p. 963.)

REPORT OF THE X-RAY DEPARTMENT.

The following figures give the examinations for the last four years :—

Year	Artificial Pneumothorax				Total Examinations
1923-1924	Number not ascertainable				.. 155
1924-1925	..	..	—		.. 512
1925-1926	..	..	171		.. 547
1926-1927	..	..	327		.. 821

An attendant has been appointed, who has taken over the greater part of the merely mechanical work.

REPORT OF THE DENTAL DEPARTMENT.

The following was carried out from July, 1926, to June, 1927 :—

Stoppings, 131; Extractions, 127; Root Treatment, 1;
Scalings, 49; Repairs, 16; Dentures, 14; Radiographs, 1.

PATHOLOGICAL DEPARTMENT.

For the first two months of the year under consideration, no pathologist was attached to the department. The present pathologist was appointed from September 1st, and has been in charge since that date. The following is a brief record of the work which has been undertaken.

SPUTUM EXAMINATIONS.

The routine examination of sputa has been continued as before, positive cases (except in special circumstances) being examined only once a month, negative cases weekly. Altogether 1,884 specimens have come under examination. The Ziehl-Neelsen technique of staining is used, concentration methods being adopted only in exceptional instances. Guinea-pig inoculation is resorted to when a patient with a suggestive sputum remains negative for longer than two months.

The 294 patients admitted in the year 1926-7 may be classified on sputum results as follows :—

Patients having no sputum	..	..	28 cases
Patients having sputum	{ + 201 }	..	266
	{ - 65 }	..	—
Total	..	..	294

Of the 201 T.B. positive cases, 165 have been discharged up to the present date (31/8/27), and of this number 34 were T.B. negative on leaving, or approximately 20 per cent. (A patient is here not considered negative until there is no sputum, or until three consecutive weekly specimens have been free from tubercle bacilli.)

For the last six months the sputum of each new patient has been examined for evidence of secondary infection, vaccine therapy having been found to be of definite value in these cases.

COMPLEMENT FIXATION TESTS.

Complement fixation tests for syphilis and tuberculosis are performed as a routine measure on all new patients admitted, and number 270 to the end of the year. The Wassermann reaction has been positive in 5 cases, or 1.8 per cent. In one case no evidence of tuberculosis was obtained. With regard to the complement

fixation test for tuberculosis, although no plea can be put forward for its diagnostic value, yet it is hoped by amassing large numbers of results and studying these in connection with after-histories that any value it may have in prognosis will be estimated; to this end the test is retained.

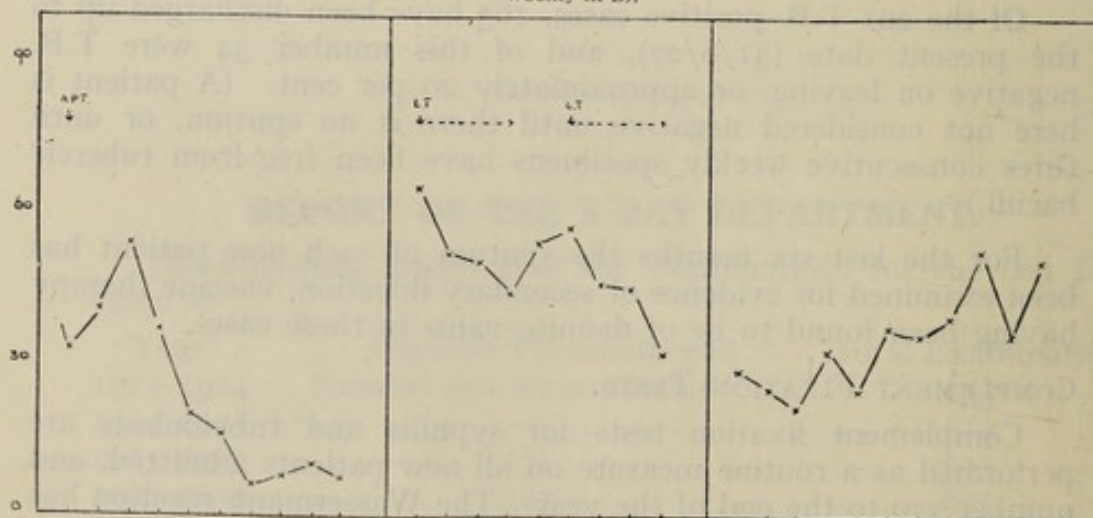
SEDIMENTATION TESTS.

The Capillary tube method used by the late Dr. Inman was adopted for the carrying out of sedimentation reactions; this requires only a small amount of blood obtainable from the ear and allows of frequent repetition of the test without upsetting the patient. An extensive investigation is being carried out into the value of these tests from a prognostic point of view; all patients are examined at monthly intervals and those undergoing artificial pneumothorax or light treatment every week or fortnight. Very interesting correlation between the sedimentation tests and progress of the patient appears to exist, and although the mass of material obtained is being reserved for incorporation in a paper on the subject, a few graphs have been appended to illustrate the point.

Various other matters are on hand. Since the inauguration of the light department patients having light baths have been followed up, a weekly sputum, sedimentation test and leucocyte count being carried on. So far the material is too limited to supply any statistics on the subject.

One post-mortem examination on a case of malignant growth of lung was carried out. Other interesting cases have included a patient with ?Blastomycosis, in whom the sputum contained colonies of a thrush-like fungus, and a case of middle ear disease in which the discharge contained tubercle bacilli, apparently a very rare occurrence.

Graphs illustrating changes in the Sedimentation Rate over prolonged periods.
(Abnormality is shown by an increase over 5-10; observations are at fortnightly intervals in A and C, weekly in B).



(A) A case under pneumothorax treatment.
Note rise in rate immediately after operation and subsequent fall to normal.

(B) Patient having light baths.
Note improvement, not maintained during interval.

(C) A bed patient whose progress was unsatisfactory and whose prognosis was poor.

REPORT OF THE STATISTICAL DEPARTMENT.

The work of the Statistical Department has been carried out on the same lines as in previous years (*see* Annual Reports V, XI and XII). The number of patients discharged from the Sanatorium up to date is 4,965. This number does not include Group IV cases, re-admissions or patients who were in residence too short a time to be included in the records. Those of whom information could not be obtained number 121, or 2·44 per cent.

The statistics of the ultimate results of the enquiry are shown in the following Tables :—

TABLE A1.—STATISTICS OF ULTIMATE RESULTS

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

All cases considered together

Year of Discharge	Number Discharged	Number reported "Well" or "Alive" in each successive year after Discharge																	Number Dead in 1927	Number lost sight of in 1927			
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924			1925	1926	1927
1906/07	125	94	82	73	65	56	42	38	47	46	42	42	38	39	34	36	34	34	33	31	30	91	4
1907/08	206	—	149	129	112	94	71	72	70	70	75	72	63	59	58	54	54	55	52	50	46	155	5
1908/09	205	—	—	154	110	93	70	64	55	64	67	62	60	56	55	52	48	48	47	45	45	158	2
1909/10	192	—	—	—	138	112	90	75	69	73	71	69	60	61	56	53	51	49	48	47	43	144	5
1910/11	197	—	—	—	—	133	92	88	74	73	72	69	61	56	48	47	47	44	39	38	36	153	8
1911/12	198	—	—	—	—	—	111	95	81	76	72	68	55	54	50	46	44	43	40	34	33	155	10
1912/13	160	—	—	—	—	—	—	—	81	78	75	67	49	52	49	48	45	42	40	35	35	124	1
1913/14	177	—	—	—	—	—	—	—	94	84	86	82	75	75	68	60	55	49	47	46	43	130	4
1914/15	193	—	—	—	—	—	—	—	—	123	117	104	83	83	75	71	68	61	61	55	53	137	3
1915/16	154	—	—	—	—	—	—	—	—	—	105	93	68	65	57	51	48	41	38	35	35	117	2
1916/17	212	—	—	—	—	—	—	—	—	—	—	166	127	116	105	99	89	79	79	74	73	137	2
1917/18	184	—	—	—	—	—	—	—	—	—	—	—	118	115	95	82	80	69	70	62	64	117	3
1918/19	198	—	—	—	—	—	—	—	—	—	—	—	—	165	136	121	112	102	99	92	86	103	9
1919/20	196	—	—	—	—	—	—	—	—	—	—	—	—	—	165	140	126	110	100	91	85	108	3
1920/21	197	—	—	—	—	—	—	—	—	—	—	—	—	—	—	156	141	116	96	89	81	113	3
1921/22	176	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	150	127	111	92	76	99	1
1922/23	165	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	135	114	100	89	74	2
1923/24	166	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	124	112	99	67	0
1924/25	128	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	106	90	38	0
1925/26	114	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	97	16	1

TABLE A2.—STATISTICS OF ULTIMATE RESULTS

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

Group I considered separately

Year of Discharge	Number Discharged	Number reported "Well " or " Alive " in each successive year after Discharge													Number Dead in 1927	Number lost sight of in 1927							
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920			1921	1922	1923	1924	1925	1926	1927
1906/07	30	27	23	21	20	20	15	14	17	17	19	18	16	18	14	15	14	14	14	13	12	16	2
1907/08	45	—	43	40	35	31	27	28	30	29	32	32	27	28	27	25	26	26	24	24	24	21	0
1908/09	28	—	—	26	23	20	16	16	12	15	15	15	15	14	14	14	13	13	13	13	14	14	0
1909/10	43	—	—	—	39	37	34	27	25	29	30	30	25	27	25	25	23	22	22	21	19	23	1
1910/11	45	—	—	—	—	41	47	31	28	30	29	30	28	25	22	22	22	20	17	17	17	26	2
1911/12	33	—	—	—	—	—	27	21	20	20	20	19	15	16	13	13	12	12	12	10	10	21	2
1912/13	15	—	—	—	—	—	—	14	14	12	11	10	9	7	8	8	8	8	8	6	6	9	0
1913/14	19	—	—	—	—	—	—	—	17	14	16	17	14	15	13	10	11	11	10	10	10	9	0
1914/15	20	—	—	—	—	—	—	—	16	16	17	16	12	13	11	12	12	12	12	10	10	8	2
1915/16	16	—	—	—	—	—	—	—	—	—	15	14	11	13	12	11	11	11	11	11	11	5	0
1916/17	24	—	—	—	—	—	—	—	—	—	—	24	22	23	22	22	22	20	20	19	18	5	1
1917/18	15	—	—	—	—	—	—	—	—	—	—	—	12	14	12	11	11	11	12	12	12	3	0
1918/19	10	—	—	—	—	—	—	—	—	—	—	—	—	10	10	10	9	9	9	9	9	0	1
1919/20	29	—	—	—	—	—	—	—	—	—	—	—	—	—	29	27	25	26	24	22	20	9	0
1920/21	45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	42	30	38	34	34	32	12	1
1921/22	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25	23	22	21	21	4	0
1922/23	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28	28	27	25	4	0
1923/24	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21	20	19	3	0
1924/25	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15	13	2	0
1925/26	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11	0	0

TABLE A3.—STATISTICS OF ULTIMATE RESULTS

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

Group II considered separately

Year of Discharge	Number Discharged	Number reported "Well" or "Alive" in each successive year after Discharge																Number Dead in 1927	Number lost sight of in 1927				
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923			1924	1925	1926	1927
1906/07	57	50	45	40	37	31	22	18	24	23	18	19	18	17	17	17	17	17	16	15	15	40	2
1907/08	85	—	69	51	56	47	32	32	31	33	35	32	28	24	25	24	23	24	23	22	19	62	4
1908/09	94	—	—	82	59	48	34	37	32	38	40	36	34	34	33	31	31	31	31	29	28	64	2
1909/10	99	—	—	—	69	59	44	38	36	36	33	32	28	26	26	24	25	25	24	25	23	73	3
1910/11	100	—	—	—	—	68	43	49	40	37	37	35	29	28	23	22	22	21	19	18	16	78	6
1911/12	110	—	—	—	—	—	65	59	49	43	41	38	34	33	32	29	29	28	25	22	21	83	0
1912/13	101	—	—	—	—	—	—	77	68	53	51	45	33	38	35	35	32	29	28	25	25	75	1
1913/14	95	—	—	—	—	—	—	—	74	54	55	54	51	50	47	42	40	34	32	31	28	63	4
1914/15	99	—	—	—	—	—	—	—	—	74	74	69	57	57	51	46	43	38	39	36	36	62	1
1915/16	71	—	—	—	—	—	—	—	—	—	54	49	35	33	28	24	22	17	14	12	12	58	1
1916/17	99	—	—	—	—	—	—	—	—	—	—	89	72	65	62	56	50	44	46	43	43	55	1
1917/18	86	—	—	—	—	—	—	—	—	—	—	—	63	65	54	50	48	40	41	36	38	46	2
1918/19	98	—	—	—	—	—	—	—	—	—	—	—	—	86	72	69	64	60	59	56	55	40	3
1919/20	69	—	—	—	—	—	—	—	—	—	—	—	—	—	63	55	48	46	43	42	39	29	1
1920/21	62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	56	47	38	31	28	26	34	2
1921/22	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43	35	31	27	23	25	0
1922/23	28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27	24	23	21	7	0
1923/24	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26	25	22	7	0
1924/25	59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52	50	9	0
1925/26	46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	42	4	0

TABLE A4.—STATISTICS OF ULTIMATE RESULTS

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

Group III considered separately

Year of Discharge	Number Discharged	Number reported "Well" or "Alive" in each successive year after Discharge													Number Dead in 1927	Number lost sight of in 1927							
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920			1921	1922	1923	1924	1925	1926	1927
1906/07	38	17	14	12	8	6	5	6	6	6	5	5	4	4	3	4	3	3	3	3	3	35	0
1907/08	76	—	37	28	22	18	8	12	9	8	8	7	7	7	5	5	5	5	4	3	3	72	1
1908/09	83	—	—	40	31	22	11	13	11	11	12	11	11	8	4	4	4	4	3	3	3	80	0
1909/10	50	—	—	—	25	16	8	10	8	8	8	7	6	5	3	4	3	2	2	1	1	48	1
1910/11	52	—	—	—	—	17	6	8	6	6	6	4	4	3	3	3	3	3	3	3	3	49	0
1911/12	55	—	—	—	—	—	—	19	12	13	11	11	5	5	3	4	3	3	3	2	2	51	2
1912/13	44	—	—	—	—	—	—	—	27	16	15	12	6	7	5	5	5	4	4	4	4	40	0
1913/14	63	—	—	—	—	—	—	—	—	33	26	19	10	13	13	7	4	5	5	5	5	58	0
1914/15	74	—	—	—	—	—	—	—	—	—	36	30	14	17	16	13	11	10	9	7	7	67	0
1915/16	67	—	—	—	—	—	—	—	—	—	—	53	22	19	17	13	13	13	12	12	12	54	1
1916/17	89	—	—	—	—	—	—	—	—	—	—	—	33	28	21	21	17	15	12	12	12	77	0
1917/18	83	—	—	—	—	—	—	—	—	—	—	—	43	36	29	21	20	17	14	14	14	68	1
1918/19	90	—	—	—	—	—	—	—	—	—	—	—	—	69	54	42	39	33	31	27	22	63	5
1919/20	98	—	—	—	—	—	—	—	—	—	—	—	—	—	73	58	53	38	33	27	26	70	2
1920/21	90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	58	54	40	31	27	23	67	0
1921/22	103	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	82	69	58	44	32	70	1
1922/23	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80	62	50	43	63	2
1923/24	115	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	77	67	58	57	0
1924/25	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39	27	27	0
1925-26	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44	12	1

TABLE A6.—STATISTICS OF ULTIMATE RESULTS

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

Group I considered separately

Year of Discharge	Number Discharged	Number reported "Well" or "Alive" in each successive year after Discharge																Number Dead in 1927	Number lost sight of in 1927			
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923			1924	1925	1926
1906/07	16	16	14	14	14	13	10	10	11	13	15	15	15	14	13	13	14	14	13	14	14	1
1907/08	31	—	30	30	29	25	23	23	22	24	25	25	24	24	22	23	23	23	23	23	23	1
1908/09	39	—	—	36	28	27	19	31	25	23	28	28	27	28	29	27	28	28	28	26	25	6
1909/10	42	—	—	—	39	36	32	36	30	34	35	35	32	33	32	32	32	31	31	30	30	4
1910/11	37	—	—	—	—	33	25	30	29	31	29	29	27	27	26	24	24	25	24	24	23	4
1911/12	26	—	—	—	—	—	22	22	23	20	21	21	20	20	18	18	18	18	18	18	19	0
1912/13	19	—	—	—	—	—	18	18	17	16	18	17	14	15	14	15	15	15	14	14	14	1
1913/14	28	—	—	—	—	—	—	—	26	21	28	27	25	26	25	24	25	25	26	26	26	1
1914/15	17	—	—	—	—	—	—	—	—	13	15	14	9	13	11	11	12	12	12	11	11	1
1915/16	32	—	—	—	—	—	—	—	—	—	31	32	29	29	27	28	27	27	28	29	29	3
1916/17	34	—	—	—	—	—	—	—	—	—	—	33	31	33	28	31	29	31	30	32	32	0
1917/18	51	—	—	—	—	—	—	—	—	—	—	—	47	48	46	42	44	45	45	46	46	1
1918/19	35	—	—	—	—	—	—	—	—	—	—	—	—	34	34	33	33	32	34	33	34	0
1919/20	50	—	—	—	—	—	—	—	—	—	—	—	—	—	47	48	47	45	44	43	42	7
1920/21	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48	48	47	47	46	44	1
1921/22	51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50	49	48	47	46	4
1922/23	35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33	32	32	31	1
1923/24	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43	42	40	0
1924/25	49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	42	40	1
1925/26	44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48	46	1

TABLE A7.—STATISTICS OF ULTIMATE RESULTS

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

Group II considered separately

Year of Discharge	Number Discharged	Number reported "Well" or "Alive" in each successive year after Discharge																Number Dead in 1927	Number lost sight of in 1927			
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923			1924	1925	1926
1906/07	7	6	5	5	5	5	5	4	5	5	6	6	6	5	5	5	4	4	3	3	4	1
1907/08	18	—	18	15	14	13	10	11	12	13	13	13	13	12	12	12	10	10	10	10	9	1
1908/09	25	—	—	20	16	13	14	15	14	14	14	15	15	15	14	14	14	14	14	12	11	1
1909/10	15	—	—	—	13	11	10	10	11	12	12	12	9	9	9	9	9	9	8	8	8	2
1910/11	10	—	—	—	—	8	8	8	8	9	9	8	7	7	7	7	6	7	7	7	7	1
1911/12	20	—	—	—	—	—	14	9	12	13	14	14	8	10	9	8	8	8	8	8	8	0
1912/13	9	—	—	—	—	—	—	—	9	7	8	8	8	8	8	6	7	7	7	7	7	3
1913/14	11	—	—	—	—	—	—	—	9	9	8	8	7	8	7	7	7	7	7	7	7	0
1914/15	14	—	—	—	—	—	—	—	—	13	13	13	10	9	10	8	9	9	9	9	9	0
1915/16	23	—	—	—	—	—	—	—	—	—	19	16	15	16	15	15	15	14	14	12	12	2
1916/17	24	—	—	—	—	—	—	—	—	—	—	23	22	20	19	19	18	17	18	18*	17	3
1917/18	59	—	—	—	—	—	—	—	—	—	—	—	55	51	50	48	48	47	47	47	45	2
1918/19	71	—	—	—	—	—	—	—	—	—	—	—	—	68	67	68	68	66	64	62	42	2
1919/20	20	—	—	—	—	—	—	—	—	—	—	—	—	—	20	20	20	20	18	19	19	4
1920/21	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14	13	13	13	13	0
1921/22	28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28	26	27	26	26	0
1922/23	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	7	7	7	0
1923/24	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14	14	0
1924/25	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0
1925/26	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0

TABLE A8.—STATISTICS OF ULTIMATE RESULTS

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

Group III considered separately

Year of Dis- charge	Number Discharged	Number reported " Well " or " Alive " in each successive year after Discharge																			Number Dead in 1927	Number lost sight of in 1927	
		1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926			1927
1906/07	1	1																				1	0
1907/08	2	2		2																		1	1
1908/09	2	—	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1909/10	2	—	—	—	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0
1910/11	1	—	—	—	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
1911/12	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	0
1912/13	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	0
1913/14	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	0
1914/15	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	1
1915/16	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1
1916/17	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	0
1917/18	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	0
1918/19	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	0
1919/20	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	0
1920/21	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	1
1921/22	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	1
1922/23	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	0
1923/24	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	0
1924/25	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	0
1925/26	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	0

TABLE BI.—STATISTICS OF ULTIMATE RESULTS

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

Condition on		Discharged during the Year																				Condition in 1927
		1906/ 07	1907/ 08	1908/ 09	1909/ 10	1910/ 11	1911/ 12	1912/ 13	1913/ 14	1914/ 15	1915/ 16	1916/ 17	1917/ 18	1918/ 19	1919/ 20	1920/ 21	1921/ 22	1922/ 23	1923/ 24	1924/ 25	1925/ 26	
Group I	Admission	Discharge																				
	{	Disease Arrested	8 6 2	11 12 —	12 2 —	5 7 1	8 3 —	5 8 1	3 5 —	3 5 1	7 1 —	10 2 —	1 2 —	3 — —	10 1 —	22 1 1	12 1 —	15 2 —	11 — —	9 1 —	9 — —	Alive Dead Lost sight of
		Much Improved	4 9 —	11 6 —	2 9 —	12 11 —	9 18 1	4 12 1	3 3 —	6 2 1	2 4 —	7 1 1	9 — —	5 — 1	8 7 —	10 9 —	9 2 —	10 2 —	6 2 —	2 — —	1 — —	Alive Dead Lost sight of
		Improved	— — —	2 1 —	— 1 —	1 3 —	— 1 1	— — —	— 1 —	— — —	— 1 —	— — —	1 1 —	— — —	— — —	— 1 —	— 1 —	— 1 —	— — —	1 1 —	2 — —	1 — —
Group	{	Stationary or Worse	— 1 —	— 2 —	— 2 —	1 2 —	— 4 —	1 1 —	1 — —	2 — —	— 1 —	1 1 —	— — —	— — —	— 1 —	— — —	— — —	— — —	1 — —	1 1 —	— — —	Alive Dead Lost sight of
		Disease Arrested	3 3 —	— 3 —	8 4 1	8 5 1	10 10 1	8 15 —	7 8 —	7 6 1	2 5 —	5 5 —	2 3 —	8 — —	9 — —	9 3 —	5 3 —	8 2 —	9 1 —	9 — —	5 — —	Alive Dead Lost sight of
		Much Improved	10 21 1	18 27 3	15 21 1	10 33 1	6 42 3	7 37 1	12 24 1	17 30 3	7 28 1	33 31 1	26 28 1	41 22 2	24 23 1	16 25 2	16 16 —	12 5 —	13 5 —	25 2 —	13 — —	Alive Dead Lost sight of

II	Improved	2	—	5	1	3	3	1	2	8	4	5	1	2	1	15	17	Alive Dead Lost sight of
		10	14	21	12	17	16	8	12	7	12	5	4	5	—	4	1	
Group III	Stationary or Worse	—	1	—	1	2	1	6	1	2	2	1	—	—	—	1	7	Alive Dead Lost sight of
	Disease Arrested	—	—	—	—	—	2	—	—	—	—	3	5	4	2	1	—	Alive Dead Lost sight of
	Much Improved	2	1	1	2	—	—	2	10	10	18	14	10	21	35	7	11	Alive Dead Lost sight of
	Improved	1	2	2	—	1	—	2	2	—	4	8	8	7	4	17	24	Alive Dead Lost sight of
	Stationary or Worse	—	—	—	1	3	32	3	—	3	—	1	—	—	2	2	9	Alive Dead Lost sight of
	Summary	30	46	45	36	35	33	53	35	64	86	85	81	76	89	90	97	Alive Dead Lost sight of
		91	155	158	153	124	155	137	117	117	103	108	113	99	74	38	16	
		4	5	2	8	1	10	3	2	3	9	3	3	1	2	0	1	
	TOTAL	125	206	205	192	197	198	193	154	212	198	196	197	176	165	128	114	

TABLE B2.—STATISTICS OF ULTIMATE RESULTS

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

Condition on Admission		Discharged during the Year																			Condition in 1927
		1906/07	1907/08	1908/09	1909/10	1910/11	1911/12	1912/13	1913/14	1914/15	1915/16	1916/17	1917/18	1918/19	1919/20	1920/21	1921/22	1922/23	1923/24	1924/25	
Group I	Disease Arrested	12 1 1	19 4 2	21 7 5	27 7 4	22 11 2	18 7 —	11 2 1	6 — —	5 1 1	27 3 —	19 1 —	36 4 1	25 — 1	35 4 —	41 1 3	42 4 1	25 2 —	34 2 —	36 1 1	34 1 —
	Much Improved	2 — —	4 1 —	2 1 —	2 — —	1 — —	— — —	— 2 —	18 1 —	4 4 —	2 — —	13 1 —	8 — —	2 3 1	1 — —	1 — —	2 2 —	4 — 1	9 1 —	4 — —	
	Improved	— — —	— 1 —	1 — 1	— 1 —	— — —	1 — —	— — —	2 — 1	2 — —	— — —	— — —	2 — —	— — —	4 — —	2 — —	2 — —	2 — —	1 — —	1 — —	4 — —
	Stationary or Worse	— — —	— — —	1 — —	1 — —	— — 1	— — —	3 — —	— — —	— — —	— — —	— — —	— — —	1 — —	1 — —	— — —	— — —	— — —	1 — —	— — —	1 — —
	Disease Arrested	3 2 —	5 3 —	4 2 2	4 2 —	4 2 —	3 3 3	3 1 —	1 1 —	1 — —	6 5 1	7 1 1	11 6 2	23 2 2	11 1 —	10 — 1	21 1 —	5 2 —	9 — —	9 — —	11 — —

Group II										Group III											
Much Improved	1	3	3	3	2	4	1	2	8	3	6	26	29	3	1	3	—	3	5	3	Alive Dead Lost sight of
Improved	—	4	6	—	—	—	1	3	—	—	3	6	6	5	1	2	—	1	3	4	Alive Dead Lost sight of
Stationary or Worse	—	—	1	2	—	—	—	—	—	3	1	2	4	—	1	—	—	1	1	—	Alive Dead Lost sight of
Disease Arrested	—	—	—	—	—	—	1	—	—	—	—	1	1	—	2	5	4	4	1	3	Alive Dead Lost sight of
Much Improved	—	—	1	—	—	—	1	1	—	1	—	2	3	4	1	1	—	—	3	1	Alive Dead Lost sight of
Improved	—	—	—	—	—	—	—	—	—	—	—	1	—	—	1	3	—	2	—	—	Alive Dead Lost sight of
Stationary or Worse	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	1	—	Alive Dead Lost sight of
Summary	18	32	37	38	30	27	23	34	20	42	49	95	101	66	61	79	43	60	68	67	Alive Dead Lost sight of
TOTAL	24	51	66	59	48	48	31	41	35	59	58	117	119	78	66	93	51	68	72	70	

