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**KING EDWARD VII SANATORIUM
MIDHURST**

**(FOUNDED BY H.M. KING EDWARD VII IN 1902 WITH FUNDS
PROVIDED BY THE LATE SIR ERNEST CASSEL)**

PRESIDENT :

HIS MAJESTY THE KING

**THIRTY-FIFTH
ANNUAL MEDICAL REPORT**

JULY 1940 to JUNE 1941

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KING EDWARD VII SANATORIUM MIDHURST

Thirty-fifth Annual Medical Report

JULY 1940 to JUNE 1941

DURING the period July 1st, 1940, to June 30th, 1941, 140 patients were admitted to the Sanatorium, 32 of these being readmissions.

During the same period, 124 patients were discharged, and 13 died in the Sanatorium. Of those discharged, 8 were in the Sanatorium less than nine weeks and are not followed up in the after-history records, and 27 were readmissions who are considered in a later section of the Report. The remaining 89 patients were grouped according to condition on admission, as follows :—

Group I	...	...	...	...	...	15
Group II	...	...	...	...	...	56
Group III	...	...	...	...	...	16
Group IV	...	...	...	...	...	2

(Details of the classification will be found on page 9.)

Applications for particulars of admission totalled 224, and the average waiting list was 14 for men and 11 for women.

Numerous entertainments have been provided during the year. Moving pictures have been shown twice a week during the winter and once a week in summer. Recitals were given by John Hunt, the well-known pianist, Miss Jacynth Holland, and Mr. Gordon Brand, the last two being supported by Dr. Herington at the piano. The Easebourne Choral Society came again this year and gave a concert of Christmas Carols. All these entertainments were greatly appreciated both by the patients and the staff. We endeavour to keep the patients' minds not only away from the war as much as possible, but also from dwelling on their illness. One of the greatest difficulties in a Sanatorium is to prevent the patients talking amongst themselves about their disease, comparing their cases, and wondering why some improve more quickly than others.

It has not been so easy this year to keep the library up to date, but it continues to be of great benefit to the patients.

Difficulties in regard to the Sanatorium shop are increasing. Owing to quota restrictions and rationing there is a marked decrease in the takings for the year but it is, nevertheless, still extremely useful.

Church Services were held on Sundays, with special Services on Armistice Day, etc. Holy Communion was celebrated once a week and also administered to bed patients.

The Roman Catholic Priest has again visited the Sanatorium at regular intervals to say Mass for the Catholic patients.

During the year a new Nurses' Home with all modern amenities was opened, and has proved of inestimable value.

We wish to place on record our grateful thanks to the Council and Consulting Staff for their valuable services and unfailing interest in the welfare of the Sanatorium.

We add our sincere thanks to all members of the Staff for their loyal co-operation and devotion to duty during a hard and trying year.

EMERGENCY HOSPITAL SCHEME

The number of patients admitted under the Emergency Hospital Scheme during this period was 50. Thirty were discharged and 3 died. The cases treated included empyema, lung abscess, hæmothorax, chondroma of the lung, carcinoma of the bronchus, bronchiectasis, etc. A careful record of each case is being kept, and after the cessation of hostilities, we hope to publish a section dealing fully with these cases in the Report.

GENERAL STATISTICS

The following tables show an analysis of the 89 new patients discharged during the year, under the following headings :—

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

TABLE I—PLACE OF RESIDENCE

Place of Residence	Number of Patients	Place of Residence	Number of Patients
London	17	Berkshire	2
Sussex	11	Hertfordshire	2
Middlesex	8	Lancashire	2
Kent	7	Suffolk	2
Surrey	6	Warwickshire	1
Hampshire	6	Bedfordshire	1
Devonshire	6	Worcestershire	1
Buckinghamshire	3	Somerset	1
No fixed residence	3	Staffordshire	1
Eire	2	Cheshire	1
Yorkshire	2	Wales	1
Essex... ..	2	China... ..	1
			89

TABLE II—OCCUPATION

Occupation	Number of Patients	Occupation	Number of Patients
Housewives	20	Schoolchildren	2
Nurses	8	Civil Servants	1
Secretaries	4	Admiralty Officials	1
Medical Practitioners	4	Navy	1
Engineers	4	Surgeons	1
Clerks	3	Farmers	1
Managers	3	Remedial Gymnasts	1
Teachers	3	Almoners	1
Army	3	Grocers	1
Students	3	Masseuses	1
Representatives	3	Barristers	1
Bank Officials	2	Clergymen	1
R.A.F.	2	Company Directors	1
Accountants	2	Surveyors	1
Solicitors	2	Builders	1
Stockbrokers	2	Nil	1
Merchants	2		
Typists	2		89

TABLE III—AGE AND SEX

Years	Males	Females	Total
Under 20	3	1	4
20-25	8	11	19
26-30	12	5	17
31-35	12	10	22
36-40	5	8	13
41-45	6	1	7
46-50	2	2	4
Over 50	2	1	3
	50	39	89

TABLE IV

Married	...	...	46
Single	...	...	43
			—
			89
			—

TABLE V—MODE OF ONSET OF DISEASE

Mode of Onset	Number of cases	Percentage
Cough	39	43.8
Other Modes	13	14.6
Pleurisy	12	13.5
Hæmoptysis	11	12.3
Lassitude	8	9.0
Influenza	3	3.4
Loss of Weight	3	3.4
	89	100.0

TABLE VI—DURATION OF DISEASE

Average Duration	...	...	1 year 10 months.
Extremes	...	...	1 week—22 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 1940-41.

Group on Admission	Number of Cases	Arrested	Much Improved	Improved	Stationary or Worse	Died in Sanatorium
IA ...	13	13	—	—	—	—
IB ...	2	2	—	—	—	—
IIA ...	28	24	3	1	—	—
IIB ...	28	18	7	3	—	—
IIIA ...	3	1	—	2	—	—
IIIB ...	21	1	2	7	3	8
All Cases	95	59	12	13	3	8
IV { Patients in whom no definite evidence of Pulmonary Tuberculosis was found }		2				

In the above table A denotes Negative Sputum, B Positive.

The percentage of patients discharged with disease arrested is 62%, as compared with 54% in the previous year. We ascribe this increase to the continued use of active treatment of various kinds in a great number of cases.

The number of Group IV cases is small, owing to the fact that the long waiting list allows most cases to be investigated and diagnosed before the patients' turn for admission is reached.

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 or broncho-vesicular breathing and fine medium crepitations.

By "severe disease" is meant massive infiltration, recognised by 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 râles 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.

"*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 condition.

"*Worse.*"—General or local condition worse.

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

<i>On Admission</i>				<i>On Discharge</i>			
Positive	...	...	43	Positive	...	...	22
Negative	...	...	20	Negative	...	...	35
No Sputum	...	...	24	No Sputum	...	...	30
Group IV	...	...	2	Group IV	...	...	2
—				—			
89				89			
=				=			

In 13 cases, sputum which was T.B. Positive on admission was negative on discharge. In 11 such cases, sputum cleared up completely. In 3 cases, sputum which was T.B. Negative on admission cleared up completely. Thus, sputum condition improved in 27 cases.

TABLE VIII B—ANALYSIS ACCORDING TO TREATMENT, OF SUCCESSFUL SPUTUM RESULTS, 1940-41.

Treatment	T.B. Positive to Negative	T.B. Positive to Nil	T.B. Negative to Nil	Total
Artificial Pneumothorax	6	5	1	12
Thoracoplasty	2	2	1	5
Artificial Pneumothorax and Phrenic Evulsion	—	2	—	2
Routine	2	—	—	2
Extrapleural Pneumothorax	1	—	—	1
Phrenic Evulsion and Sanocrysin	—	1	—	1
Extra-Intrapleural Pneumothorax and Phrenic Crush	1	—	—	1
Phrenic Evulsion	—	—	1	1
Artificial Pneumothorax and Phrenic Crush	—	1	—	1
Right Extrapleural Pneumothorax and Left Artificial Pneumothorax	1	—	—	1
	13	11	3	27

As before, we have made it our practice to follow up positive cases and see that they do not return to work until they are negative. They are trained in the disposal of sputum and other means for preventing the infection of others. On looking at the table, the number of patients discharged with a positive sputum may seem large, but some leave to carry on their treatment elsewhere and others go home to lead a sanatorium type of life, and thus make room for those in urgent need of active interference.

TABLE IX—WEIGHT

Weight	Group I	Group II	Group III	Group IV	Total
Gained	8	31	1	2	42
Lost	6	22	11	—	39
No change	1	2	1	—	4
Not weighed	—	2	2	—	4
	15	57	15	2	89

READMISSION CASES

Of the 124 patients discharged, 27 were readmission cases, as compared with 35 last year and 51 the year before. The following table compares the clinical condition of these cases on their previous discharge with that on their readmission.

TABLE I

Group	Number of Cases	
	On Previous Discharge	On Readmission
I	2	3
II	19	20
III	5	4
IV	1	—
	27	27

As in previous years, many readmission cases returned for further active treatment and the following table shows the treatment the patient had received on the previous discharge ; treatment, if any, prior to readmission ; and the treatment received after readmission to the Sanatorium.

TABLE II

Treatment on Previous Discharge	Treatment, if any, before Readmission	Treatment after Readmission	No. of Cases
Artificial Pneumothorax	Maintained ...	Thoracoplasty	3
Artificial Pneumothorax	Maintained ...	Maintained and Division of Adhesions	2
Thoracoplasty ...	Nil	Routine	2
Artificial Pneumothorax	Maintained ...	Maintained	2
Artificial Pneumothorax	Maintained ...	Gas-replacement of fluid ...	1
Artificial Pneumothorax	Maintained ...	Bilateral Artificial Pneumothorax	1
Artificial Pneumothorax	Maintained ...	Maintained and Phrenic Evulsion	1
Thoracoplasty ...	Pleural Wash-outs	Drainage of Empyema space with continuous suction	1
R. Thoracoplasty and Artificial Pneumothorax	A.P. Maintained	L. Extrapleural Pneumothorax	1
Extra-Intrapleural Pneumothorax	Maintained ...	Thoracoplasty	1
Extrapleural Pneumothorax	Maintained ...	Bilateral Extrapleural Pneumothorax	1
Sanocrysin ...	Phrenic Evulsion	Artificial Pneumothorax and Division of Adhesions	1
Routine	Artificial Pneumothorax	Maintained	1
Routine	Nil	Artificial Pneumothorax ...	1
Routine	Thoracoplasty ...	Routine	1
Routine	Nil	Routine	7
			27

TABLE III—GENERAL RESULTS OF TREATMENT OF READMISSION CASES.

Group	Arrested	Much Improved	Improved	Stationary or Worse	Died in the Sanatorium	Total
I	2	—	—	—	—	2
II	12	5	2	1	—	20
III	—	—	2	2	—	4
	14	5	4	3	—	26
Admitted for one week for Phrenic Evulsion	...	...	...	...	...	1
						<u>27</u>
						<u>—</u>

REPORT OF THE THROAT DEPARTMENT

Of the 124 patients discharged during the year, the larynx of 108 was examined by Sir StClair Thomson. Definite tuberculous disease was present in 7 cases, as compared with 5 last year, while the larynx in the remaining 101 cases was found to be normal.

Of the 7 patients suffering from disease of the larynx, 1 was a thoracoplasty case and 2 were receiving artificial pneumothorax treatment. The remaining 4 patients did not receive active treatment.

It is striking to compare the decline in the last two years in which incidents of a laryngeal lesion (which always increases the gravity of a case) with the relative frequency 30 years ago. In the first five years of a Throat Service (1911-16) the percentage of throat cases was 23.96. This improvement doubtless is primarily due to the earlier recognition of the disease, and the increased confidence of the public in seeking Sanatorium treatment. It is also noteworthy that, during the last few years, the disease in the larynx has been of a milder type, yielding to general treatment with, when indicated, collapse of the lung, and not requiring any local measures, beyond voice rest.

TABLE I—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.

Classification	Number of Cases	Arrested	Much Improved	Improved	Stationary or Worse	Remarks
Group I	—	—	—	—	—	
Group II	1	—	—	—	1	Since died
Group III	6	1	1	4	—	2 since died
Total ...	7	1	1	4	1	

There were no negative cases this year.

ARTIFICIAL PNEUMOTHORAX

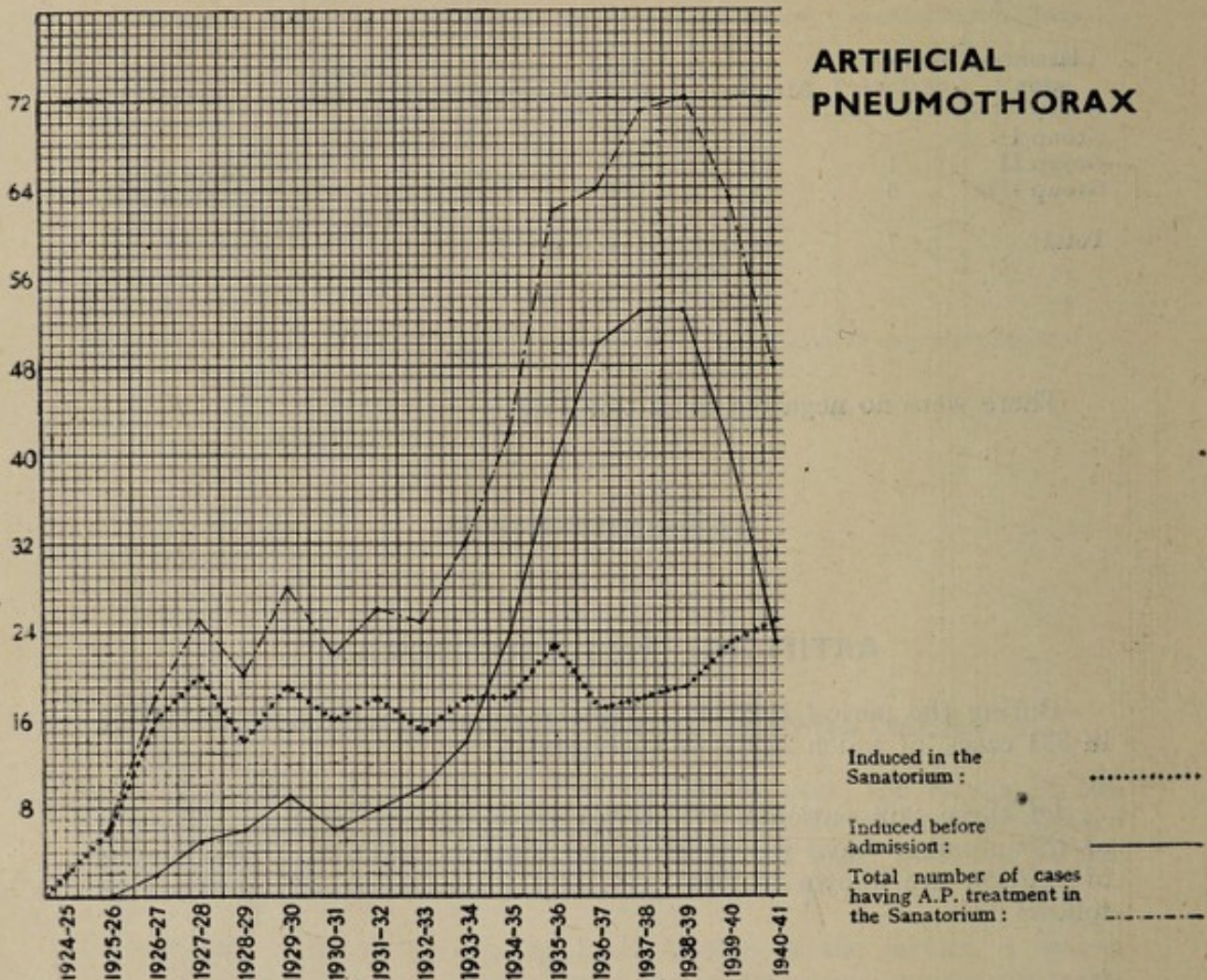
During the period 1925–40, Artificial Pneumothorax was attempted in 331 cases, of which 262 were successful.

Of these 262 patients, 173 (66%) are known to be alive. Twenty of this number have received further surgical treatment. Particulars of sputum are known in 106 cases of the remaining 153, and are as follows:—

TABLE I

	No Sputum	T.B. Negative	T.B. Positive	Sputum Not Tested	Total
Ceased Refills ...	49	3	3	8	63
Continuing Refills ...	30	9	2	2	43
	79	12	5	10	106

The total number of patients receiving artificial pneumothorax treatment during the year under review was 48. We again show the annual figures graphically.



Owing to the length of the waiting list, a large proportion of pneumothoraces was induced before admission, and this explains the apparently small number (25) induced in the Sanatorium.

All cases have been grouped as follows :—

Choice I.—Cases with involvement of not more than half of one lung, with signs of activity.

Choice II.—Cases in which the whole of one lung is affected, or the upper half of one, with slight infiltration in the other.

Choice III.—Cases with bilateral disease, but with a possibility of benefit by a limited pneumothorax on the more active side. Cases in extremis, e.g., with hæmoptysis.

TABLE II—AN ANALYSIS OF CASES IN WHICH ARTIFICIAL PNEUMOTHORAX WAS SUCCESSFULLY INDUCED IN THE SANATORIUM.

Classification	Sputum on Admission		Sputum on Discharge	
	No Sputum or T.B. Negative	T.B. Positive	No Sputum or T.B. Negative	T.B. Positive
Choice I	2	7	8	1
Choice II	2	7	8	1
Choice III... ..	1	2	2	1
All Cases	5	16	18	3

3 patients died in the Sanatorium.
1 patient received further active treatment.

TABLE III—AN ANALYSIS OF CASES IN WHICH ARTIFICIAL PNEUMOTHORAX WAS SUCCESSFULLY INDUCED BEFORE ADMISSION.

Sputum before induction of Artificial Pneumothorax		Sputum on Discharge	
No Sputum or T.B. Negative	T.B. Positive	No Sputum or T.B. Negative	T.B. Positive
3	20	21	2

SANOCRY SIN

Six cases have been treated with Sanocrysin during the year under review, as compared with 19 last year. Of these, 4 ceased treatment because of various complications. These complications are in no way serious, as we always discontinue the injections if albumen appears in the urine.

We have continued our practice of previous years of commencing with a very small dose and never giving above .2 gramme per week. With each year we are becoming more convinced that the number of cases that benefit from Sanocrysin is extremely small.

SURGICAL DEPARTMENT

The following tables show the nature of the 191 operations performed this year :—

Thoracoplasty (on 31 cases)...	63
Extrapleural Pneumothorax	2
Phrenic Evulsion	15
Phrenic Crush	5
Thoracoscopy and Division of Adhesions	35
Thoracoscopy...	3
Other Operations	26
	<hr/> 149
Operations on E.M.S. patients	42
	<hr/> 191

The operations on E.M.S. patients were as follows :—

Bronchoscopy	...	...	...	...	16
Operations for Empyema	...	...	...	...	9
Operations for Lung Abscess	...	...	...	...	6
Removal of Foreign Body	...	...	...	...	2
Pneumonectomy	...	...	...	...	1
Lobectomy	...	...	...	...	1
Other Operations	...	...	...	...	7
					—
					42
					==

The number of operations performed has increased considerably in comparison with former years.

All instruments and appliances necessary to keep the theatre up to date have been added during the year.

THORACOPLASTY

AFTER-HISTORY

Of the 33 Group II and 22 Group III cases who have undergone this treatment up to the beginning of the year under review, 1 Group II and 6 Group III cases have died. The state of health of the remaining 48 cases is set out below :—

Group	Well and Working	Well, not Working	Fair Health	Receiving further Sanatorium Treatment
II	20	8	2	2
III	7	3	5	1
	27	11	7	3

Particulars of sputum are known in 35 cases out of 48, and are as follows :—

No Sputum	T.B. Negative	T.B. Positive	Sputum not tested
14	9	9	3

CASES DISCHARGED DURING THE YEAR

Grp.	Blood Sedimentation Rate		Sputum		Degree of Activity	
	Before Operation	After Operation	Before Operation	After Operation	Before Operation	After Operation
II ...	3%	2%	Positive	Negative	Up to tea and dinner	Normal life
II ...	40%	3%	No Spec.	No Spec.	In bed	Normal life
II ...	11%	5%	Negative	Negative	Up to lunch, tea, dinner	Quiet life
II ...	25%	4%	No. Spec.	No Spec.	In bed	Quiet life
II ...	40%	9%	Positive	Positive	In bed	V. quiet life
II ...	17%	3%	Positive	Negative	Up to tea and dinner	Normal life
II ...	12%	8%	Negative	Negative	Up to lunch, tea, dinner	Quiet life
II ...	8%	3%	No Spec.	No Spec.	In bed	Normal life
II ...	41%	22%	Negative	Negative	In bed	V. quiet life
II ...	57%	24%	Positive	Positive	In bed	Quiet life
III	50%	40%	Positive	Positive	In bed	In bed
III	50%	8%	Positive	Negative	Up to lunch, tea, dinner	Quiet life
III	6%	7%	Positive	Negative	In bed	Quiet life

3 patients died in the Sanatorium.

EXTRAPLEURAL AND EXTRA-INTRAPLEURAL PNEUMOTHORACES

AFTER-HISTORY

During the period 1937-40, Extrapleural or Extra-Intrapleural Pneumothorax was attempted in 37 cases, of which 33 were successful. Six of this number have died, and the state of health of the remaining 27 is set out below:—

Group	Well and Working	Well, not Working	Fair Health	Receiving further Sanatorium Treatment
Extrapleural Pneumothoraces—				
II	8	3	1	—
III	1	—	1	—
Extra-intrapleural Pneumothoraces—				
II	6	6	—	—
III	—	—	—	1
	15	9	2	1

CASES DISCHARGED DURING THE YEAR

Grp.	Blood Sedimentation Rate		Sputum		Degree of Activity	
	Before Operation	After Operation	Before Operation	After Operation	Before Operation	After Operation
Extra pleural Pne II ...	10%	2%	Positive	Negative	Up to lunch tea, dinner	Normal life
II	37%	50%	Positive	Positive	In bed	Quiet life
II	10%	6%	Negative	No Spec.	Up to lunch tea, dinner	Quiet life
II ...	40%	32%	Positive	Negative	In bed	V. quiet life
Extra-intrapleural Pne II ...	18%	15%	Positive	Negative	In bed	Quiet life

2 patients died in the Sanatorium.

2 patients received further active treatment.

This year there was only 1 case in which Extrapleural Pneumothorax was induced before admission, the sputum being T.B. Positive before the operation and T.B. Negative on discharge from the Sanatorium.

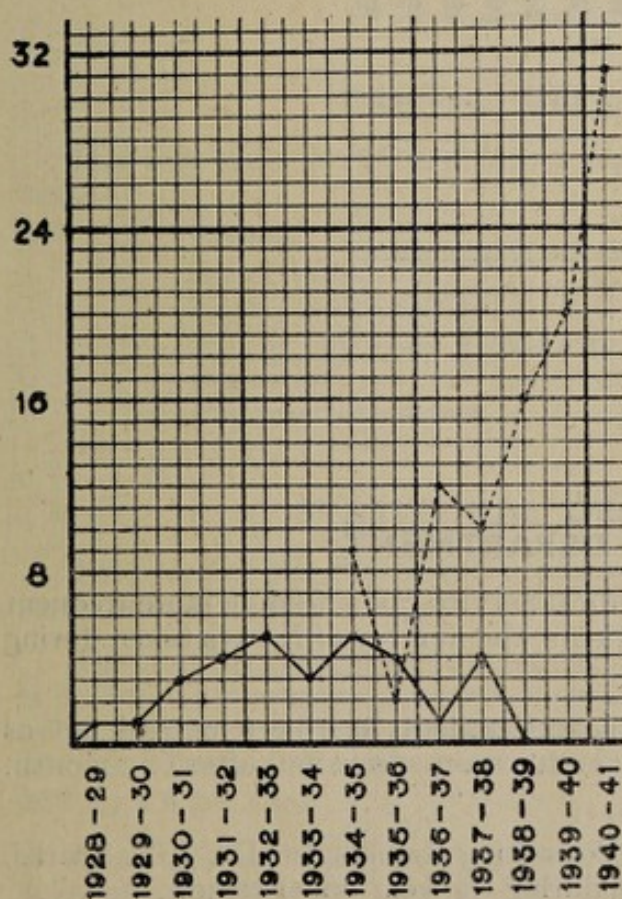
PHRENIC OPERATIONS

CASES DISCHARGED DURING THE YEAR

Grp.	Operation	Previous Treatment	Subsequent Treatment
I ...	R. Evulsion	R. Crush before Admission	—
I ...	R. Evulsion	R. Crush before Admission	Sanocrysin
I ...	L. Evulsion	—	L. Artificial Pneumothorax induced and maintained
II ...	R. Evulsion	—	—
II ...	R. Evulsion	R. Crush before Admission	—
II ...	R. Evulsion	R. Artificial Pneumothorax	—
II ...	R. Evulsion	R. Artificial Pneumothorax induced before Admission	—
II ...	R. Evulsion	R. Artificial Pneumothorax induced before Admission	R. Artificial Pneumothorax maintained
II ...	R. Evulsion	R. Artificial Pneumothorax	R. Artificial Pneumothorax maintained
II	{ R. Crush R. Evulsion }	R. Artificial Pneumothorax	R. Artificial Pneumothorax maintained
II ...	R. Evulsion	R. Crush and R. Artificial Pneumothorax before Admission	R. Artificial Pneumothorax maintained
II ...	L. Crush	L. Artificial Pneumothorax induced before Admission	L. Extra-Intrapleural Pneumothorax
II	{ L. Crush L. Evulsion }	—	L. Thoracoplasty
III ...	L. Evulsion	—	—
III ...	R. Evulsion	R. Artificial Pneumothorax induced before Admission	R. Artificial Pneumothorax maintained

From the above table it will be seen that in all but 4 cases out of 15, the Phrenic Operation was performed in conjunction with, or preceded, some other form of active treatment. Particulars of these 4 cases are given below :—

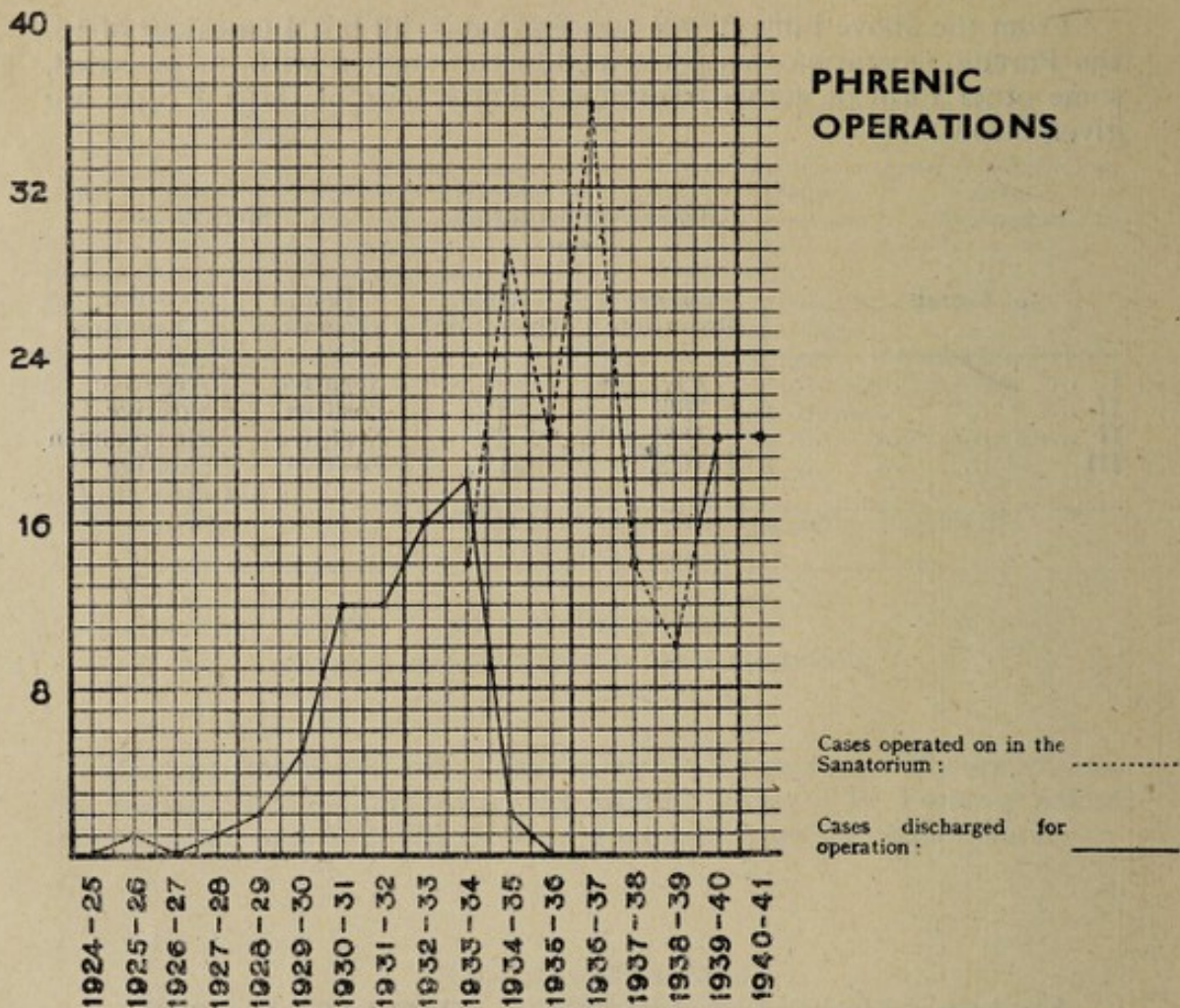
Group	Blood Sedimentation Rate		Sputum	
	Before Operation	After Operation	Before Operation	After Operation
I	8%	5%	Negative	Negative
II	38%	28%	Positive	Positive
II	18%	3%	Negative	No specimen
III	16%	31%	Positive	Positive



THORACOPLASTY OPERATIONS

Cases operated on in the Sanatorium : -----

Cases discharged for operation : _____



X-RAY DEPARTMENT

Owing to the Emergency Medical Service cases needing more frequent X-rays than the tuberculous patients, the number of X-rays taken during the year has risen steeply.

The same routine for tuberculous patients has been carried out as in previous years, *i.e.*, an X-ray is taken on admission, after one month, and every six weeks thereafter.

We would like to thank our Consulting Radiologist, Dr. J. V. Sparks, for his many helpful suggestions during the year under review.

PATHOLOGICAL DEPARTMENT

The following routine investigations were carried out during the year :—

Sedimentation Rates	...	...	...	1539
Sputum Examinations	...	...	...	1268
Urine Examinations	...	...	...	513
Pleural Effusions	...	...	...	280
Wound Swabs	...	...	...	141
Milk Examinations	...	...	...	25
Water Examinations	...	...	...	19
Blood Chemistry	...	...	...	22
Faeces	...	...	...	30
Test Meals	...	...	...	14
Cerebro-Spinal Fluid Examinations	...	...	...	10
Miscellaneous	...	...	...	77
Blood Counts	...	...	...	317
Histological Examinations	...	...	...	67
Cultures for Tubercle Bacillus	...	...	...	205
				4527
				4527

The type of investigations performed in this department has widened considerably. In addition to the work on the tuberculous patients, many examinations have been required on the casualties and Service sick. Among the histological specimens for diagnosis have been a chondroma of the lung and a papilloma of the bronchus.

DENTAL DEPARTMENT

The following dental treatment has been carried out during the year :—

Fillings	...	...	...	...	140
Extractions	...	...	...	...	75
Root Treatments	...	...	...	...	3
Scaling and Gum Treatment	...	...	...	...	14
Dentures	...	...	...	...	8
Repairs to Dentures	...	...	...	...	12

STATISTICAL DEPARTMENT

The work of the Statistical Department has been carried out on the same lines as in previous years.

The number of patients discharged from the Sanatorium up to date is 7,354. This number does not include Group IV cases, readmissions, or patients who were in residence too short a time to be included in the records. Those about whom no information could be obtained number 339, or 4.6 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 1941	No. lost sight of in 1941		
		1908-15	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941					
1906/07	125	497	46	42	42	38	39	34	36	34	34	34	31	30	30	30	29	29	28	26	26	26	25	25	23	21	21	19	18	104	3		
1907/08	206	697	70	75	72	63	59	58	54	54	55	55	50	46	44	44	44	44	41	41	40	40	40	40	39	39	36	35	35	164	7		
1908/09	205	554	64	67	62	60	56	55	52	48	48	48	47	45	43	43	42	41	41	39	38	38	36	36	35	33	33	30	30	169	6		
1909/10	192	484	73	71	69	60	61	56	53	51	49	48	47	45	43	42	39	37	36	35	34	34	33	33	33	29	30	31	31	156	5		
1910/11	197	387	73	72	69	61	56	48	47	47	44	39	38	36	35	32	31	29	29	28	28	25	22	22	22	21	20	20	18	172	7		
1911/12	198	287	76	72	68	55	54	50	46	44	43	40	34	33	32	31	31	31	30	28	28	27	27	27	25	23	19	21	165	12			
1912/13	160	207	78	75	167	40	52	49	48	45	42	40	35	35	33	33	33	33	29	29	29	29	28	28	27	27	27	26	26	132	2		
1913/14	177	118	84	86	82	75	75	68	60	55	49	47	46	43	43	43	38	37	37	35	35	35	30	28	25	25	25	25	25	145	7		
1914/15	193	—	123	117	104	83	83	75	71	68	61	61	55	53	49	45	44	42	41	40	39	38	34	31	30	30	29	28	161	4			
1915/16	154	—	—	105	93	68	65	57	51	48	41	38	35	35	33	30	29	28	26	26	25	23	21	20	19	19	19	19	131	4			
1916/17	212	—	—	—	166	127	116	105	99	89	79	74	72	63	62	58	54	52	51	50	48	47	47	46	46	42	42	40	39	135	10		
1917/18	184	—	—	—	—	118	115	95	82	80	69	70	62	62	62	62	81	79	78	74	71	68	65	60	60	57	56	56	55	132	11		
1918/19	198	—	—	—	—	—	165	136	121	112	102	100	91	85	81	81	74	72	70	68	62	61	61	60	57	54	50	50	140	6			
1919/20	196	—	—	—	—	—	—	—	156	141	116	116	96	89	81	74	73	73	70	69	65	64	62	60	59	57	57	58	137	4			
1920/21	197	—	—	—	—	—	—	—	—	150	127	111	92	76	69	62	53	51	51	49	47	45	42	39	36	34	34	34	139	3			
1921/22	176	—	—	—	—	—	—	—	—	—	135	114	100	89	80	74	67	63	60	54	52	49	47	43	42	41	41	40	123	2			
1922/23	165	—	—	—	—	—	—	—	—	—	—	124	112	99	80	74	66	63	60	59	53	49	46	42	42	40	39	38	127	4			
1923/24	166	—	—	—	—	—	—	—	—	—	—	106	112	99	79	72	66	60	52	49	46	44	42	41	38	39	36	35	127	4			
1924/25	128	—	—	—	—	—	—	—	—	—	—	—	—	97	89	80	79	72	66	60	52	49	46	44	41	41	41	40	72	2			
1925/26	114	—	—	—	—	—	—	—	—	—	—	—	—	—	115	109	101	96	89	84	76	75	74	70	63	65	60	58	63	6			
1926/27	127	—	—	—	—	—	—	—	—	—	—	—	—	—	—	103	94	84	79	74	74	68	62	59	56	50	49	49	69	3			
1927/28	121	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	104	90	81	70	69	66	63	61	54	55	53	60	5	5	5		
1928/29	118	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	136	124	112	103	94	88	83	73	76	71	78	6	6	6		
1929/30	155	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	124	118	104	89	81	76	69	67	61	58	7	7	7	
1930/31	134	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	116	97	86	81	78	64	65	62	61	60	4	4	4
1931/32	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	119	101	98	79	82	80	73	59	9	9	9	
1932/33	141	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84	76	68	57	55	53	4	4	4	4	
1933/34	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	102	91	79	74	68	47	3	3	3	
1934/35	118	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	102	96	90	86	82	31	2	2	2
1935/36	115	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93	88	85	75	0	0	0	0
1936/37	103	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28	0	0	0	0
1937/38	91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17	0	0	0	0
1938/39	92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	0	0	0	0
1939/40	63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	84	80	3	3	3

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 1941	No. lost sight of in 1941
		1908-15	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941			
1906/07	30	157	17	19	18	16	18	14	15	14	14	14	13	12	12	12	12	12	12	12	12	12	12	12	11	10	9	10	19	1	
1907/08	45	234	29	32	27	27	28	27	27	26	26	24	24	24	20	20	20	20	20	20	20	20	20	20	20	20	20	20	23	2	
1908/09	28	113	15	15	14	15	14	14	14	13	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14	17	0	2	
1909/10	43	162	29	30	25	30	25	22	25	23	22	22	21	19	17	16	16	16	16	16	15	15	14	14	14	14	14	26	4	2	
1910/11	45	147	30	29	28	25	25	22	25	22	20	17	17	15	13	13	13	13	13	13	10	8	8	8	8	8	8	35	2	3	
1911/12	33	68	20	20	19	15	16	13	13	12	12	12	10	10	10	10	10	10	10	10	6	6	6	6	6	6	6	24	3	0	
1912/13	15	28	12	11	10	9	7	8	8	8	8	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	9	0	2	
1913/14	19	17	14	16	17	14	15	13	10	11	11	10	10	10	9	8	8	8	8	8	7	7	7	7	7	7	7	10	2	2	
1914/15	20	—	16	17	16	12	13	11	12	12	12	12	10	10	9	8	8	8	8	8	7	7	7	7	6	6	6	12	2	2	
1915/16	16	—	—	15	14	11	13	12	11	11	11	11	11	11	10	9	8	8	8	8	8	7	7	5	5	5	5	9	2	2	
1916/17	24	—	—	—	24	22	23	22	22	22	20	19	18	16	17	17	16	16	16	16	14	13	12	12	12	12	12	11	1	1	1
1917/18	15	—	—	—	—	12	14	12	11	11	11	12	12	12	11	10	9	9	9	9	7	7	7	7	7	7	7	8	1	1	1
1918/19	10	—	—	—	—	—	10	10	10	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	1	1	1	1
1919/20	29	—	—	—	—	—	—	29	27	25	26	24	22	20	20	20	20	20	20	20	17	17	16	16	16	16	16	12	1	1	1
1920/21	45	—	—	—	—	—	—	—	42	30	38	34	34	32	29	29	29	29	29	28	28	26	26	26	26	26	27	17	1	1	1
1921/22	25	—	—	—	—	—	—	—	—	25	23	22	21	21	19	18	18	18	18	18	17	17	16	16	16	16	15	14	0	0	0
1922/23	29	—	—	—	—	—	—	—	—	—	28	27	27	25	24	22	22	22	22	21	21	19	19	19	19	19	15	14	0	0	0
1923/24	22	—	—	—	—	—	—	—	—	—	28	27	25	24	22	22	22	22	22	21	21	19	19	19	19	19	15	14	0	0	0
1924/25	15	—	—	—	—	—	—	—	—	—	21	20	19	18	18	18	18	18	18	17	17	16	16	16	16	16	11	9	2	2	2
1925/26	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	12	11	11	11	11	11	9	4	4	4	4
1926/27	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11	11	10	10	10	10	10	9	4	4	4	4
1927/28	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22	20	19	19	19	19	17	5	0	0	0
1928/29	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15	15	15	15	15	15	15	4	0	0	0
1929/30	63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33	32	31	29	28	27	25	6	3	3	3
1930/31	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17	17	17	17	17	17	17	6	2	2	2
1931/32	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10	10	10	10	10	10	10	2	0	0	0
1932/33	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11	11	11	11	11	11	11	1	1	1	1
1933/34	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	1	1	1	1
1934/35	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	0	0	0	0
1935/36	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	0	0	0	0
1936/37	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	0	0	0	0
1937/38	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	0	0	0	0
1938/39	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	0	0	0	0
1939/40	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	0	0	0	0

TABLE B2.—STATISTICS OF ULTIMATE RESULTS

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

Admission	Condition on	Discharged during the Year																												Condition in 1940
		1906/15	1915/16	1916/17	1917/18	1918/19	1919/20	1920/21	1921/22	1922/23	1923/24	1924/25	1925/26	1926/27	1927/28	1928/29	1929/30	1930/31	1931/32	1932/33	1933/34	1934/35	1935/36	1936/37	1937/38	1939/39	1939/40			
Group I	Discharge	105	18	15	32	21	29	36	34	18	23	32	28	18	17	20	16	14	32	22	17	19	25	25	25	22	26	13		
	Disease Arrested	64	9	4	5	2	7	5	9	9	7	3	3	4	4	7	3	1	2	—	2	3	2	2	1	—	—	—		
	Much Improved	28	3	1	4	3	3	6	4	4	2	4	4	1	3	1	1	1	—	1	—	—	—	—	—	—	—	—		
	Improved	18	—	8	5	6	1	1	—	—	3	5	3	—	1	4	—	—	—	1	—	2	1	2	—	—	—	—		
	Stationary or Worse	15	1	4	1	1	3	—	—	—	2	—	1	—	2	—	—	—	—	—	—	1	—	—	—	—	—	—		
	Lost sight of	9	1	2	2	1	2	—	—	2	1	—	—	—	1	1	—	—	1	—	—	2	—	—	—	—	—	—		
II	Discharge	14	2	5	7	15	7	7	12	3	7	6	7	4	7	4	4	10	13	16	10	18	24	34	33	34	23			
	Disease Arrested	27	9	3	8	7	5	2	6	4	1	1	5	1	2	4	2	4	2	2	3	1	1	1	—	—	—			
	Much Improved	8	1	1	4	4	—	2	4	—	1	2	—	—	1	—	—	—	1	—	—	—	—	—	—	—	—	—		
	Improved	20	1	6	20	21	3	—	1	—	—	3	5	1	2	3	—	4	2	5	16	18	10	5	6	8	4			
	Stationary or Worse	29	3	3	7	9	—	—	—	—	—	—	2	2	1	1	—	—	—	—	—	5	4	1	1	1	—			
	Lost sight of	7	1	2	1	4	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	2	1	1	1	—	—			

