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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-FOURTH ANNUAL MEDICAL REPORT

JULY 1939 to JUNE 1940

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King Edward VII Sanatorium,

Midhurst,

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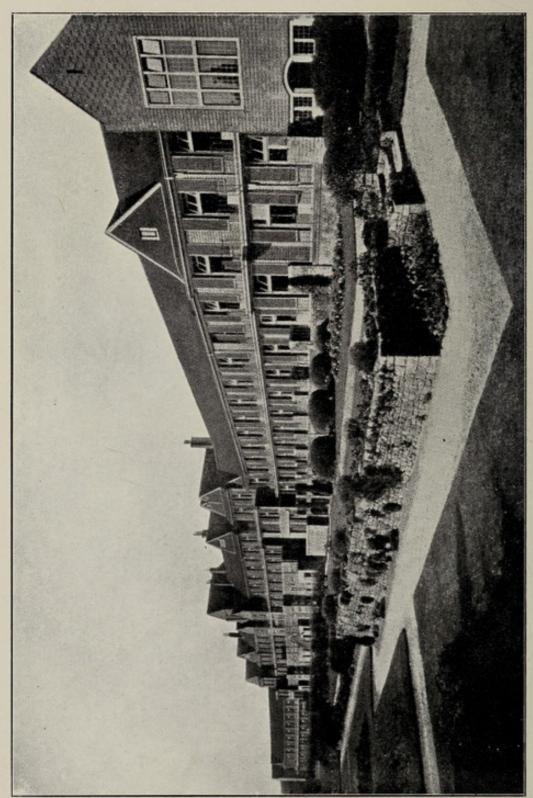
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King Edward VII Sanatorium, Midhurst South Elevation of Patients' Block



KING EDWARD VII SANATORIUM MIDHURST

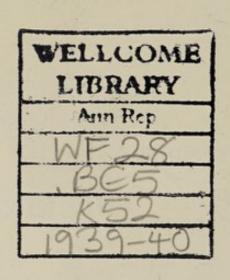
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KING EDWARD VII SANATORIUM MIDHURST

Thirty=fourth Annual Medical Report JULY 1939 to JUNE 1940

DURING the period July 1st, 1939, to June 30th, 1940, 142 patients were admitted to the Sanatorium, 32 of these being readmissions.

During the same period, 172 patients were discharged, and 10 died in the Sanatorium. Of those discharged, 20 were in the Sanatorium less than nine weeks and are not followed up in the after-history records, and 35 were readmissions who are considered in a later section of the Report. The remaining 117 patients were grouped according to condition on admission, as follows:—

Group I	 	 	 20
Group II	 	 	 78
Group III	 	 	 15
Group IV	 	 	 4

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

Applications for particulars of admission totalled 290, and the average waiting list was 15 for men and 14 for women.

On account of the war we have now stopped seeing patients at Chandos Street, but in order to safeguard the admission of only suitable cases, we always ask for the latest X-ray to be sent with the medical certificate.

We have endeavoured to keep the patients' minds off the war as much as possible. Moving pictures have been shown once a week, and various staff concerts were organised and were extremely well attended and appreciated by patients and staff alike. Two recitals were given in the lounge by the well-known violinist, Miss Murray Lambert, and the tenor singer, Mr. A. Vidler, supported at the piano by Dr. Stanley Herington, and we are very grateful to these artistes for coming. Another unusual feature was the singing of carols on Christmas Eve by the Easebourne Choral Society.

The patients have had their usual bridge and whist drives and outdoor competitions at various times during the year.

The library has been kept up-to-date, numerous books having been added at frequent intervals. The patients find the library a great boon and a large number of books are always in circulation.

In spite of the war, several new lines have been added to the shop, and it has proved even more popular than in peacetime, owing to the restricted postal and delivery service, which makes it more difficult for the patients to obtain articles from outside.

Church Services were held on Sundays, with special Services on such days as Armistice Day, etc. Holy Communion is held weekly in the Chapel, and is also administered to bed patients. The increase in the number of attendances has been maintained.

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

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.

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

EMERGENCY HOSPITAL SCHEME

On the outbreak of war, half the Sanatorium was taken over by the Ministry of Health for the treatment of surgical chest cases among officers of the three services. Although a large number has not been admitted owing to the peculiar nature of the war, some very useful results have been obtained, and some interesting chest complications treated. It is not proposed to discuss the individual cases here, but in a future medical report at the end of hostilities, or before, if the number of cases necessitates it, a full analysis will be given of the cases treated.

GENERAL STATISTICS

The following tables show an analysis of the 117 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 F	Number of Patients		
London		1		35	Berkshire	1		1
Surrey				15	Wiltshire			1
Irish Free St	ate		***	9	Hertfordshire			1
No fixed resi	dence			9	Warwickshire			1
Middlesex		***		8	Bedfordshire			1
Yorkshire				8	Buckinghamsh	ire		1
Sussex		***		7	Northumberla			1
Hampshire				4	Worcestershire			1
Kent	***			3	Lancashire			1
Essex				3	Scotland			1
Devonshire				3	India			1
Wales				2				-
								117

TABLE II—OCCUPATION

Occupation			Number of Patients	Occupation	Number of Patients
Housewives			22	Solicitors	. 2
Nil			10	Advertisers	. 1
Clerks			8	Farmers	. 1
Bank Officials			7	Machinists	1
Secretaries			6	Linotype Operators	. 1
Medical Practitione	ers		5	Film Directors	. 1
Royal Air Force			5	Wholesale Butchers	. 1
Civil Servants			5	Furriers	. 1
Accountants			4	Typists	. 1
Managers			4	Masseuses	. 1
Teachers			4	Housekeepers	. 1
Nurses			3	Outfitters	. 1
Engineers			3	Insurance Officials	. 1
Army			3 -	Representatives	. 1
Schoolchildren			3	Violinists	. 1
Hotel Proprietors			3	Travellers	. 1
Salesmen			2	Students	. 1
Navy			2		
				THE RESERVE OF THE PARTY OF THE	117

TABLE III—AGE AND SEX

		1	Years		Males	Females	Total
Under 20				 	 3	3	6
20-25				 	 10	11	. 21
26-30				 	 15	10	25
31-35				 	 8	10	18
36-40				 	 13	9	22
41-45	***				 11	6	17
46-50				 	 3	2	5
Over 50				 	 1	2	3
					64	53	117

TABLE IV

		117
Single	 	58
Married	 	59

TABLE V-MODE OF ONSET OF DISEASE

	Mode	of Ons	Number of cases	Percentage		
Cough			 		54	46.2
Hæmoptysis			 		17	14.5
Other Modes			 		14	12.0
Lassitude			 		12	10.2
Influenza			 		10	8.5
Loss of Weight	***		 	***	1	.9
Pleurisy			 		9	7.7
					117	100.0

TABLE VI-DURATION OF DISEASE

Average Dur	ation	 	2 years 4 months.
Extremes		 	6 weeks-24 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 1939-40.

Group on Admission	Number of Cases	Arrested	Much Improved	Improved	Stationary or Worse	Died in Sanatorium
IA	16	13	1	2	_	
IB	4	3	-		1	
IIA	31	24	4	2	1	-
IIB	47	21	21	2	3	-
IIIA	5	1	3	1	****	-
IIIB	13	1	4	5	-	3
All Cases	116	63	33	12	5	- 3
definit IV Pulmo	ts in whom is the evidence onary Tube is was found	of				

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

The percentage of patients discharged with disease arrested is 54%, as compared with 55% in the previous year. It will be noted that the number of patients discharged with disease arrested has not declined appreciably, and we ascribe this to the continued use of active treatment of various kinds in a great number of cases.

As regards Group IV cases, the number is small owing to the fact that the long waiting list allows most cases to be thoroughly investigated and diagnosed before the patient can be admitted.

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 health.

[&]quot;Worse,"-General or local condition worse.

TABLE VIIIA-DEMONSTRATION OF T.B. IN SPUTUM

On Admi	ssion			On Disch	arge		
Positive			62	Positive			23
Negative			27	Negative			60
No Sputum			24	No Sputum			30
Group IV			4	Group IV			4
		-				-	-
			117				117
		-	-			_	

In 35 cases, sputum which was T.B. Positive on admission was negative on discharge. In 4 such cases, sputum cleared up completely. In 6 cases, sputum which was T.B. Negative on admission cleared up completely. Thus, sputum condition improved in 45 cases.

On looking at the above table, it will be noticed that fewer cases have been discharged from the Sanatorium during the year under review. This is due to the fact that half of the Sanatorium has been in use as a surgical unit for chest casualties among officers of the three services.

It is our practice to follow up all positive cases and see that they do not return to work until they are negative. They are also thoroughly trained in the disposal of any sputum and, in our opinion, are thus in no way a danger to others. As in previous years, a large number of those discharged positive are living in the district and being treated as outpatients, in order to make room for urgent admissions.

Table VIIIb—Analysis According to Treatment, of Successful Sputum Results, 1939-40.

Treatment	T.B. Positive to Negative	T.B. Positive to Nil	T.B. Negative to Nil	Total
Artificial Pneumothorax Sanocrysin Routine Extrapleural Pneumothorax Extra-Intrapleural Pneumothorax Phrenic Evulsion and Sanocrysin Thoracoplasty	 15 4 2 2 2 3 2 7	1 2 1 —	2 3 - - 1	18 6 6 2 3 2 8
	35	4	6	45

TABLE IX-WEIGHT

Weight			Group I	Group II	Group III	Group IV	Total
Gained			11	57	9	4	81
Lost			8	15	6	-	29
No change			1	4	-	-	5
Not weighed			_	2	-	-	2
			20	78	15	4	117

READMISSION CASES

Of the 172 patients discharged, 35 were readmission cases, as compared with 51 last year and 56 the vear before. The following table compares the clinical condition of these cases on their previous discharge with that on their readmission.

TABLE I

				- 10	Number of Cases			
		roup			On previous discharge	On Readmission		
1	 				4	4		
I	 				26	22		
II	 		A		4	9		
V	 ***				1	-		
					35	35		

As in previous years, many returned for further treatment of an active kind, and the following table shows the treatment the patient was receiving on previous discharge, if any; treatment prior to readmission, again if any; and the treatment received after readmission to the Sanatorium.

TABLE II

on P	nt, if any, revious charge	Treatment, if any, before Readmission	Treatment after Readmission	No. of Cases
Nil Nil Artificial	 Pneumo-	Nil Nil Maintained	Phrenic Crush Phrenic Evulsion Maintained	1 3 1
Artificial thorax	Pneumo-	Maintained	Maintained, Gas-replacement of fluid	2
Artificial thorax	Pneumo-	Maintained	Maintained, Sanocrysin, Phrenic Evulsion	1
Nil		Artificial Pneumo- thorax	Maintained	2
Nil .		Nil	Artificial Pneumothorax	1
Nil		Nil	Artificial Pneumothorax, Phrenic Evulsion	1
Nil		Nil	Extrapleural Pneumothorax	3
Extrapleu	ral Pneu-	Maintained	Maintained	1
Nil		Nil	Thoracoplasty	3
Nil		Nil	Bronchoscopy	1
Nil		Nil	Artificial Pneumothorax, and	4
			later, Extrapleural Pneumo- thorax	NI COL
Extra - in Pneumo	trapleural othorax	Maintained	Maintained and Artificial Pneu- mothorax induced on other	1
			side	25

The remaining 10 returned for further routine treatment.

TABLE III—GENERAL RESULTS OF TREATMENT OF RE-ADMISSION CASES.

Group	Arrested	Much Improved	Improved	Stationary or Worse	Died in the Sanatorium	Total
I II	13 2	7 2		2	<u>-</u>	4 22 12
						38

On looking through Table III, one is impressed by the number of readmission cases discharged arrested or much improved. This is almost entirely due to active treatment, but in those cases which were only under ordinary sanatorium routine it shows that supervision plays an extremely important part in the treatment and after-care of pulmonary tuberculosis. If one carefully goes into the history of each readmission case from the time of the last discharge, it is generally possible to discover some misdemeanour that has led to the breakdown, and which could not have occurred had the patient been under medical supervision. This, however, is not always the fault of the patient, but may be due to overwork in circumstances over which he has no control.

REPORT OF THE THROAT DEPARTMENT

Of the 172 patients discharged during the year, the larynx of 153 was examined by Sir St. Clair Thomson. Definite tuberculous disease was present in 5 cases, as compared with 16 last year, while the larynx in the remaining 148 cases was found to be normal.

One case of tuberculosis of the ear was discovered, and this was not quiescent on discharge, although the chest condition was much improved.

Of the 5 patients suffering from disease of the larynx, 3 were thoracoplasty cases, and one was receiving Sanocrysin treatment. The remaining patient did not receive active treatment.

TABLE I—SHOWING THE RESULT ON DISCHARGE OF TREATMENT IN PATIENTS SUFFERING FROM TUBERCULOSIS OF THE LARYNX IN WHOSE SPUTUM TUBERCULE BACILLI WERE DEMONSTRATED IN THE SANATORIUM.

Classifica- tion	Number of Cases	Arrested	Much Improved	Improved	Stationary or Worse	Remarks
Group I	_	-	-	_	-	
Group III Group III	1		_	3	=	Since died
Total	5	1	_	4		

There were no negative cases this year.

ARTIFICIAL PNEUMOTHORAX

During the period 1925-39, Artificial Pneumothorax was attempted in 303 cases, of which 240 were successful.

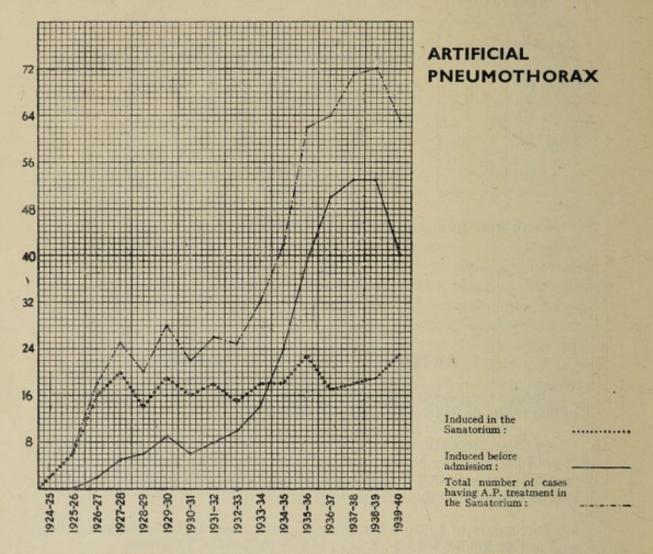
Of these 240 patients, 182 (76 per cent) are known to be alive. Seventeen of this number have received further surgical treatment and, therefore, are not included in this table, which deals with Artificial Pneumothorax treatment only, but are dealt with in a later section of the Report.

Particulars of sputum are known in 121 cases of the remaining 165, and are as follows:—

TABLE I

	No Sputum	T.B. Negative	T.B. Positive	Sputum Not Tested	Total
Ceased Refills Continuing Refills	54 32	1 10	-6 6	7 5	66 55
	86	11	12	12	121

The total number of patients receiving artificial pneumothorax treatment during the year under review was 63. We again show the annual figures graphically.



Once again we must draw attention to the fact that apparently quite a small number of pneumothoraces are induced in the Sanatorium (23). This is due to the long waiting list, a considerable number of patients having received this treatment before admission.

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 PNEUMO-THORAX WAS SUCCESSFULLY INDUCED IN THE SANATORIUM.

		Sputum on	Admission	Sputum on Discharge		
Classification		No Sputum or T.B. Negative	T.B. Positive	No Sputum or T.B. Negative	T.B. Positive	
Choice I		2	3	4	1	
Choice II		3	10	11	2	
Choice III		_	4	1	3	
All Cases		5	17	16	6	

One patient died in the Sanatorium.

TABLE III—An Analysis of Cases in which Artificial Pneumothorax was Successfully Induced before Admission.

Sputum before induction of Artificial Pneumothorax		Sputum or	Discharge
T.B. Positive	No Sputum or T.B. Negative	T.B. Positive	No Sputum or T.B. Negative
32	8	7	33

TABLE IV—AFTER HISTORY OF PATIENTS WHO HAVE RECEIVED FURTHER TREATMENT IN ADDITION TO ARTIFICIAL PNEUMOTHORAX.

Nature of further Treatment	No Sputum	T.B. Negative	T.B. Positive	Not Tested	Not Stated	Total Number
Thoracoplasty	3			1	1	5
Thoracoplasty and	1"				The same of	
Phrenic Evulsion	2	-	-	2	2	6
Upper Thoraco-					The state of the s	
plasty, lower					1000	
Artificial Pneu-	100					
mothorax main- tained	1				1	2
Extrapleural Pneu-	1					-
mothorax	1				_	1
Extrapleural Pneu-						
mothorax and						
Phrenic Crush	-		1	-	-	1
Extrapleural Pneu-		-	THE STATE OF			CHAIR SA
mothorax, Sano-	1 31 (199)					PARTITION DE
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nic Evulsion	1			N STATE OF	BERTHAND	1
Upper Thoraco-						
plasty, Phrenic Crush and Sano-						Espes .
crysin			1	2020		1
or your						
			- I Fine Sale			17

SANOCRYSIN

The after-history of the 354 cases who have had Sanocrysin treatment in previous years shows that 91 are now dead, while of the remaining 263, 254 are known to be alive. Particulars of sputum are known in 200 cases, as follows:—

No Sputum	 	 	87
T.B. Negative .	 	 	49
T.B. Positive	 	 	26
Sputum Not Tested.	 	 ***	38
			200

Nineteen cases have been treated with Sanocrysin during the year under review, as compared with 29 last year. Of these, 16 ceased the 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. As each year proceeds we are becoming more convinced that the number of cases who benefit from Sanocrysin is extremely small.

SURGICAL DEPARTMENT

The following table shows the nature of the 112 major operations:-

Thoracoplasty (on	20 cases)		 44
Extrapleural Pneu	imothora	X		 6
Extra-Intrapleura			orax	 3
Phrenic Evulsion				 15
Phrenic Crush				 5
Thoracoscopy and	Division	of	Adhesions	 26
Thoracoscopy				 - 5
Thoracotomy and	Division	of	Adhesions	 1
Other Operations				 7

112

Although the Sanatorium has only been partly used for the treatment of tuberculosis, the number of operations performed has not decreased proportionately. Major active treatment is being employed more and more in the treatment of pulmonary tuberculosis.

It was mentioned in the previous report that the whole of the surgical cases treated since the theatre was opened would be dealt with in a separate report in the near future. This has been postponed owing to the war and the shortage of paper.

Further instruments and modern equipment have been added to the theatre during the year in order to keep it fully up-to-date to deal with any emergency that may arise.

THORACOPLASTY

AFTER-HISTORY

Of the 23 Group II cases who have undergone this treatment up to the beginning of the year under review, 12 are known to be working or fit for work, 4 are well though not working, one has died, 3 are keeping in fair health, and 3 have been readmitted.

Of the 15 Group III cases who have had the operation during the same period, 6 are known to be working or fit for work, 2 are well though not working, 5 have died, and 2 are keeping in fair health.

CASES DISCHARGED DURING THE YEAR

	Blood Sedimentation Rate		Spu	tum	Workin	g Capacity
Grp.	Before Operation	After Operation	Before Operation	After Operation	Before Operation	After Operation
II	10	29	Negative	Negative	In bed	Light work
II	35	5	Positive	Negative	In bed	Quiet life
II	25	11	Positive	Negative	In bed	Full work
II	7		Positive	Negative	Up all day	Quiet life
II	7 7	3 2	Negative	No Sputum	Up to lunch, tea, dinner	Quiet life
II	30	4	Negative	Negative	In bed	Full work
II	31	11	Nil	Nil	In bed	Quiet life
II	26	6	Negative	No Sputum	In bed	Full work
II	25	11	Positive	Negative	In bed	Quiet life
II	36	2	Positive	Negative	In bed	Quiet life
II	27	23	Positive	Negative	In bed	Quiet life
II	30	10	Positive	Negative	In bed	Quiet life
III	30	6	Positive	Negative	In bed	Very quiet lif
III	67	50	Positive	Positive	In bed	Very quiet life
III	30	8	Positive	No Sputum	Up to tea	Quiet life
III	42	13	Positive	Positive	Up all day	Quiet life
III	15	45	Positive	Positive	In bed	Very quiet lif

Two patients died in the Sanatorium.

EXTRA AND EXTRA-INTRAPLEURAL PNEUMOTHORACES

AFTER-HISTORY

During the period 1937–39, Extra or Extra-Intrapleural Pneumothorax was attempted in 25 cases, of which 22 were successful. Two out of this

number have died, and the present state of health of the remaining 20 is set out below:—

Group	Well and Working or Fit for Work	Well, not Working	Fair Health	Receiving further Sanatorium Treatment
Extrapleural Pneumo- thoraces— II	7 1	2 1.	1	=
Extra-intrapleural Pneumothoraces— II III	<u>.1</u>	2	3	1 1
	9	5	4	2

CASES DISCHARGED DURING THE YEAR

	Blood Sedimentation Rate		Spu	tum	Work	ing Capacity
Grp.	Before Operation	After Operation	Before Operation	After Operation	Before Operation	After Operation
Extra	pleural Pne	umothorac	es-			
II	40	7	Positive	Positive	In bed	Well, not working
II	16	3	Positive	Negative	Up all day	Well, fit for work
II	24	12	Nil	Nil	Up to tea	Well, not working
II	14	4	Positive	Negative	Up all day	Well, not working
Extr	a-intrapleu	ral Pneumo	thoraces—		11 -11	
II	28	5	Positive	Positive	In bed	Well, not working
II	6	6	Positive	Nil	Upallday	Well, fit for work
II	10	9	Positive	Positive	Up to tea	Fair health
II	12	10	Positive	Negative	Up to tea	Well, not working
II	20	8	Positive	Negative	Up to tea	Well, not working
III	8	3	Positive	Positive	Up to tea	Readmitted
III	40	87	Positive	Positive	Up all day	Not well

One patient died in the Sanatorium.

Analysis of Cases in which Extrapleural Pneumothorax was Induced Before Admission

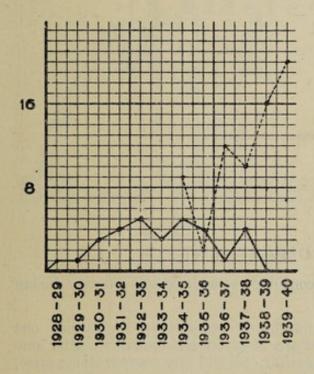
putum before Extr	apleural Operation	Sputum or	Discharge
No Sputum or T.B. Negative	T.B. Positive	No Sputum or T.B. Negative	T.B. Positive
2	1	2	1

PHRENIC OPERATIONS

CASES DISCHARGED DURING THE YEAR

				Blood Send Ra	limentation ate	Spi	itum
	Grou	ір		Before Operation	After Operation	Before Operation	After Operation
1				10	12	Positive	Negative
				2	1	Negative	Negative
I				4	5	Negative	Positive
II				22	27	Negative	Negative
I				13	5	Positive	Negative
II				25	11	Positive	Negative
II				9	2	Positive	Negative
I				7	2	Positive	Negative
II			***	11	20	Positive	Positive
II				4	2	Negative	Negative
III				30	6	Positive	Negative

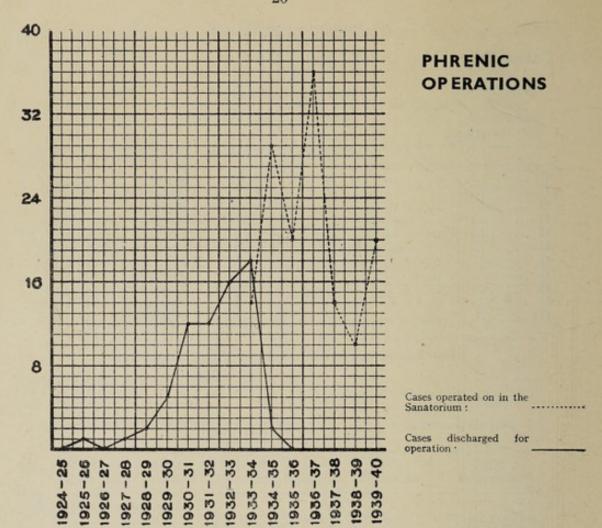
One patient was in the Sanatorium for one week only.



THORACOPLASTY OPERATIONS

Cases operated on in the Sanatorium:

Cases discharged for operation:



X-RAY DEPARTMENT

The X-Ray Department has continued to work at full capacity during the whole of the year.

Screening of Artificial Pneumothorax cases has been carried out weekly, as before. All patients are X-rayed on admission, after one month, and every six weeks thereafter. Should any complications arise, the patient is X-rayed at once, if necessary.

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

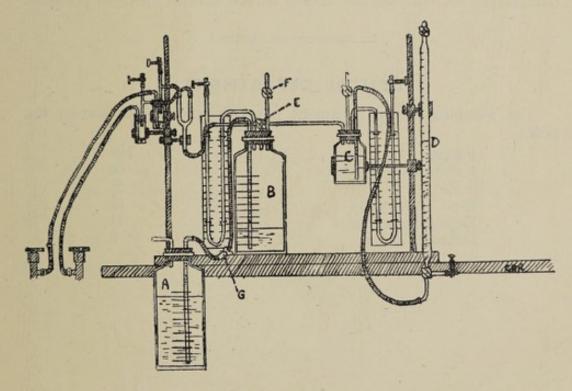
PATHOLOGICAL DEPARTMENT

The following routine examinations were carried out during the year:-

Sedimentation Rate	S		 	1670
Sputum Examinatio	ons		 	1181
Urine Examinations			 	390
Pleural Effusions			 	345
Milk Examinations			 	24
Water Examination	S		 	24
Blood Counts			 	221
Miscellaneous			 	78
Cultures for Tuberch	le Ba	cillus	 	380
				4313

The total number of investigations of a routine nature has fallen in direct relation to the fewer number of patients. The investigation into the cultural requirements of the Tubercle Bacillus continues.

An apparatus has been designed to produce different concentrations of carbon dioxide and oxygen in Novy Jars, in which the cultures are contained.



- A. L. & P. Pneumothorax Apparatus Bottle (1 litre).
- B. L. & P. Pneumothorax Apparatus Bottle (1 litre).
- C. Bottle (200 ccs.).
- D. Winkler-Hempel Gas Burette (100 ccs.).
- E. Three-way Tap.
- F. One-way Tap.
- G. Clip closing rubber tubing between Pneumothorax Apparatus bottles.

The apparatus consists of a pair of Pneumothorax Bottles with a manometer and a similar but smaller system, containing acidulated water for the storage and delivery of carbon dioxide.

Carbon dioxide is passed from a cylinder through a small "water bubble" flow meter (100 cc/min.), and thence through the three-way tap E into the bottle C. This drives the acidulated water into the burette D (reading to .1 cc.). The volume which has been delivered is then measured on the burette scale after levelling.

Oxygen is then passed through a similar flow meter *via* the threeway tap E into the bottle B. The volume is measured on the scale of the bottle after levelling.

Tap E is then adjusted so that bottles B and C are in communication. By raising the burette D carbon dioxide can be passed into B and the volume passed measured after levelling on the burette D.

If the tap E is now put in the closed position, air can be drawn in through tap F by opening clip G and lowering bottle A; the volume taken in being, of course, measured after levelling.

If the bottle B is connected to the Novy Jar through tap F, the mixed gases can be passed into the jar by raising bottle A.

In this way cultures are being performed in atmospheres of 50 per cent oxygen and varying amounts of carbon dioxide up to 10 per cent.

DENTAL DEPARTMENT

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

Fillings		 	 	161
Extractions		 	 	66
Scaling		 	 	18
Root Treatm	nents	 	 	2
Repairing D	entures		 	11
Dentures		 	 	2

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 7,267. 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 327, or 4.5 per cent.

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

TABLE Al.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium All cases considered together

	14gis 1sc 0461 n		1	01		9	10	10		12	63	7	-	+ +	+ 0	6	10	10	2	0.	4	00	63	4	4	2	-	3	20	9	7	4	1	. 10	00	9-	-	0	0	
	1940 1940		101	101	164	169	156	170	201	165	132	145	160	191	101	159	134	129	140	140	135	139	122	124	88	7.1	09	68	09	94	99	59	54	49	707	75	200	10	000	0
		1940	100	61	30	30	31	00	200	77	56	25	06	200	er.	44	40	28	200	00	28	34	41	38	36	41	09	50	53	73	61	62	80	200	27	14	80	00	200	24
		1939	0.0	77	36	33	30	000	07	19	27	25	30	200	61	47	42	KR	200	00	22	34	41	39	39	41	65	52	55	94.	67	65	82	i n	30	200	000	000	83	1
		1938	100	77	339	35	06	200	17	23	27	25	06	201	er.	49	42	57		40	21	36	42	40	38	41	63	20	54	73	69	64	19	27	100	20	9 6	23	1	1
		1937	100	23	33	36	22	000	77	52	27	25	10	000	22	20	46	60	2 1	10	69	39	43	42	41	44	70	56	61	83	94	78	86	88	000	100	701	1	1	1
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	charg	1935	100	20	9	38	22	000	71	27	29	30	000	000	52	53	48	22	30	10	62	45	49	49	44	48	75	62	99	94	68	86	119	0.4	20	1	1	1	1	1
	r Dis	1934	100	20	9	38	24	200	07	58	29	35	000	000	07	22	48	80	200	01	64	47	52	53	46	53	76	89	69	03	04	97	10			1	1	1	1	1
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dere	Alive	1927	+				-	-	-			-				-							-		06	-		-	1	1	1	1			1	1	1	1	1	1
consi	or "	19261	÷	-			12	-	-	- 2/							7/3				35			1500	901			-	1	1	1	1			1	1	1	1	1	-
cases	Well "	1925 1	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	1	1	1	1	1			1	1	1	1	1	-
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	Number reported "	1922 1	+	-	-	-	-		-	-	_	_		-	_	_	_	-	-		_	-	1	-	1				-	1	1	-			1	1	1	1	1	-
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	1	917 1	1		-	-	000				-	-	-	117	-	-		1	1	1	1	1	1												1	1	1	1	1	1
	-	1915 1916 1917 1918	-									010			1	1		1	1	1	1	-	1										-	1	1	1	1	1	1	-
		9151	1	200	70	-	933	1000	-		-		-	1	1	1		1	1	1	1	-											-	1	1	1	1	1	1	1
		1908	+		627		-		-	3/ 1/	110	-	1	1	1	-		1	1	1	1	1					1	1					-	1	1	1	I	1	1	1
	nber	Disch	1		908 8								-	193	54	10	770	24	198	96	97	76	165	000	000	07	#10	121	101	155	9.4	#0 #0	071	41	1000	18	115	03	16	95
			1	_					_			-	-	_	_	-		-	200	0		-		-	200		_	-	-		-		_	-			2000		-	-
	Year	Dis- charge	1	70/908	807 708	0000	2008/00	909/10	910/1	011/1	1/010	017710	913/1	1914/15	915/1	016/1	1/2/10	1/116	918/1	919/2	920/2	6/160	6/660	0/000	0070	7/170	7/070	1007 700	0/ 000	2/000	6/060	001/00	0/100	932/0	933/3	934/32	1935/36	936/3	937/3	938/8
1	1	-	-	-	-		-	1	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	-	-	7.	-	1-	1		-	-	-	1		-		_	_	

TABLE A2.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium Group I considered separately

	ost sight 0461 n		0004000	010101			0	0 61	67 -	0	00	00	23 0	0	210	0	0	00	
	1940 1940		82128 8279 845 846	0120	111	12	13	14	40	010	00 4	9	10 01			0	0	00	-
		1940	00 II II 8 9 9	r 9 10	21-	16	127	12	61	17	2 6	24	18	12	00	000	7	10	
		1939	6 5 8 11 12 8 15	200	12	15	12	125	6	11	120	25	2 8	12	00	00	7	4	
	- /	1938	10212889	1-910	12	16	125	13	91	16	16	23	27 00	=	00	00	7	11	1
		1937	00 11 12 12 12 12 12 12 12 12 12 12 12 12	1-010	12	16	12	15	61	19	8 22	27	200	13	I °	000	1	11	1
		1936	0 9 8 4 13 2 2 2	277	122	8	12	14	0 1	19	2 6	27	200	13	10	,	1	11	1
		1935	22744869		13	9	13	15	60	13	12	58	4 8	13	=	1	1	11	1
	harge	1934	2242000	r-0	77	17	14	17	10	19		53	22	=	11	1	1	11	1
	after Discharge	1933	257 255 25 25 25 25 25 25 25 25 25 25 25 25	r-00	8	18	128	178	10	19	13	31	17	1	1	1	1	11	
	after	932	2249200	oo oo oo	15	20	128	119	10	20	12	32	18	1	11	1	1	11	
	year	1 126	00119814131	00 00 00	16	20	29	119	10	21	15	33	11	1	1	1	1	11	-
aly	ssive	930 1	12145200	800	10	80	29	21	10	21	13	1	11	1	1	1	1	11	-
separately	successive	1929	6517423	8 00 10	11	80	18	185	11	22	15	1	11	1	1	1	1	11	
	each	928	2240200	9 11	12	20	30	24	12	22	i 1	1	11	1	1	11	1	11	-
Jerec	" in	927 1	2246159	001	12	90	32	25	13	=	11	1	11	1	1		1	11	-
considered	Alive	926	223253	010	12	22	34	20	15	11	11	1	11	1	1	11	1	11	-
-	, Jo	925 1	4428223	122	20	9	22	28	1	11	11	1	11	1	1	11	1	11	-
croup	=	1924 1	48888888	121	20	92	338	87	1	11	11	1	11	1	1	11	1	11	-
	M	1923	48222228	121	122	9	30	11	1	11	11	1	11	1	1	11	1	11	-
	orted	1922	5245558	221	11	10	42	11	1	11	11	1	11	1	1	11	1	11	-
	Number reported " Well		4525558 45455558	212	122	10	11	11	1	11	11	1	11	11	1	11	1	11	-
	nmpe	1920 1921	18 16 16 16 16 16	133	14	21	11	11	1	11	11	1	11	11	1	11	1	11	
	Z	1919	255557	421	12 13	11	11	11	1	11	11	1	11	11	1	11	1	11	
		1918	100001338	16	24	11	11	11	1	11	11	1	11	1	1	11	1	11	
		1161	120302133	119	11	11	11	11	1	11	11	1	11	11	1	11	1	11	
		7161 9161 5161	120 33 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	141	11	11	11	11	1	11	11	1	11	11	1	1 1	1	11	
		1915	18228824	11	11	11	11	11	1	11	11	1	11	11	1	11	1	11	
		1908	140 1101 1119 1119 1119	111	11	11	11	11	1	11	11	1	1	11	1	11	1	11	
	nber		8 4 8 8 8 5		24	10	45	29	15	22	15	33	18	13	125	8	7	40	2
	Vear	Dis- charge	1906/07 1907/08 1908/09 1909/10 1911/12	1913/14	1916/17	1918/19	1920/21	1922/23	1924/25	1925/26	1927/28	1929/30	1930/31	1932/33	1933/34	1935/36	1936/37	1938/39	1000/000
	-	-		-	-		-	-	-	-	-		-	-	-		-		

TABLE A3.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium Group II considered separately

	otel a		8450-55-150-15055881-0-804848589-80	0000
	er Dead 1940		69 69 888 888 889 89 89 89 89 89 89 89 89 89	00 00 10
		1940	\$45.50	666
		1939	1112071140818 22328110122348 44444 4454 1118 118 118 118 118 118 118 118 118 1	89
		1938	01122111402161 123 133 133 133 133 133 133 133 133 13	211
		1937	1112222122223333388122223233338884412323333388844388844388844388844388443	111
		1936	122 122 122 123 124 125	111
	narge	1935	1 33 52 52 53 53 54 54 55 55 55 55 55 55 55 55 55 55 55	111
	Discl	1934		111
	after	1933		111
	year after Discharge	1932	113 123 124 125 125 125 125 125 125 125 125 125 125	111
		1931	81 2 2 2 4 2 4 2 8 3 1 2 4 3 4 3 1 5 5 5 5 5 5 5 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111
rend	successive	1930	4174233444444444444444444444444444444444	111
separatery	each	1929	4118 252 250 250 250 250 250 250 250 250 250	111
	" in	1928	518 52 52 53 54 55 55 55 55 55 55 55 55 55 55 55 55	111
Considered	Alive	1927	5 1 2 2 2 2 2 3 2 3 4 1 3 2 2 2 3 2 3 1 1 1 1 1 1 1 1 1 1 1 1	111
	or ",	1926	75225252555555555555555555555555555555	111
ar da	ell "	4 1925	82 22 24 24 24 24 24 25 25 25 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	111
3	, W.	192	7-4E83288E87440048E87	111
	orted	2 1923	- 22 E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	111
	т гер	1 1922	12484888444888884	111
	Number reported	0 192	12888888844686	111
	Z	9 192	714448888888888888888888888888888888888	111
		8 191	823 83 83 83 83 83 83 83 83 83 83 83 83 83	111
		161 21	C 22 22 22 22 22 22 22 22 22 22 22 22 22	111
		1915 1916 1917 1918 1919 1920 1921	2 2 4 2 2 4 2 2 4 4 4	111
		15 19	4-6300004-11-11-11-11-11-11-11-11-11-11-11-11-11	111
		1908	225544884	111
	psiged		25	62
	mper	nN		
	Year	Dis- charge	1906/07 1908/09 1908/09 1909/10 1911/12 1911/12 1912/13 1922/23 1922/23 1922/23 1922/23 1922/23 1922/23 1922/23 1923/33 1933/34 1933/33 1933/33 1933/33	1936/37 1937/38 1938/39
1		7		19

TABLE A4.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were demonstrated in the Sanatorium Group III considered separately

	tdais 1:		0	-	-	0	0	63	-	0,		1 6	0 00	4	00	-	63	63	-	0	-	60	0	-	00	0 -		6	0	-	0	0	0
	1940 1940		38	72	85	50	51	53	42	200	69	100	74	74	85	92	90	91	97	46	44	26	31	41	11	00	0.00	98	24	17	13	9	3
	137	1940	0	000	0	0	1	0		0	4 6	10	- 9	12	13	13	11	15	17.	00	12	7	9	40	40	4 5	8	150	25	16	12	19	11
		1939	1	1	-	-	-	-	-,	-	_	-	-	-	-	_	_	-	_	_		_	-	_	_	_	_	_					1
	1	1938	1			-	-	_	-,	-	-	-		-	_	_	-	_	-	-	-	-	-	-	_	-	-	-	-	-	-	-	1
		1937	_	_	_	_	_		-	_																						1	1
		1936	Î	100	-	210	155	-		-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	1	1	-
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	ter D	1933	_						- 1																			1	1	1	1	1	-
	year after Discharge	1932	1		0.40		-	-	- 1		-	-	-	-	-		-	-	-	-	-		-			-		1	1	1	1	1	1
	ive ye	1861	1						C1 11			-	-			-								-	-		1	1	1	1	1	1	1
13	successive	1930	1	-	-	-	-	-	C3 11	-	-	-	-		-		-	-	-		1000		-	-			1	1	1	1	1	1	1
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da	in ea	1928	65	000	000	1	00	-	01 H	3 0	10,	112	12	22	26	20	27	35	52	24	300	27	1	1		-	1	1	1	1	1	1	1
1	Alive "	1927	60	000	000	1	00	01	4 11	3 0	16	12	14	22	26	23	32	43	28	27	44	1	1	1		-	1	1	1	1	1	1	1
TOTAL STREET	:	1926	60	4	00	1	00	63	4 11	00	100	100	14	27	27	27	44	20	67	39	1	1	1	1		1	1	1	1	1	1	1	1
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d'a	Well	1924	60	10	4	67	00	00	0.4	# =	13	15	18	33	38	40	69	80	1	1	1	1	1	1	-	1	1	1	1	1	1	1	-
3	ted "	1923	65	20	4	3	3	00	0 +	+ 0	2 20	17	20	39	53	54	82	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-
	repor	1922	4	20	-	4	co	4	0 1	10	16	21	21	45	58	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Number reported " W	1908 -14 1915 1916 1917 1918 1919 1920 1921 1922	63	9	00	4	00	10	90	100	17.	21	29	54	73	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
	Nur	1920	4	-	00	20	က	101	10	130	19	28	36	69	1	1	1	1	1	1	1	1	1	11	1	1	.1	1	1	1	1	1	1
		1919	44	-	==	9	4	0	90	14	22	33	43	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
		1918	20	00	=	-	4	= :	7 =	10	30	53	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	.1	1	1	1	1
		1917	5	00	12	00	9	= :	13	96	36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		1916	-	-	_		_	13		-	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1915	9	6	=	00	9	123	97	i	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
			89	129	118	63	34	34	77		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	пърег		38	76	83	20	52	55	63	7.4	67	89	83	90	86	90	103	108	911	\$c	200	000	10	19	17	33	36	43	49	34	07	22	14 14
	Year	Dis. charge	10/906	1907/08	60/8061	01/606	1910/11	1911/12	1912/13	1914/15	1915/16	16/17	1917/18	61/8161	1919/20	1920/21	21/22	1922/23	1923/24	1002/4760	1026/20	17/07	1998/90	1929/30	30/31	31/32		1933/34	1934/35		30/31	00/00	00/00
-		7	19	19	19	19	19	19	19	10	19	19	19	19	19	19	1921	19	10	AT	101	101	10	19	1930	1931	19:	19.	19.	1935/	100	1000	101

TABLE A5.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium All cases considered together

tagie 1		5	9	9	13	9	4	9	3	9	00	9	12	13	9	-	=	00	5	00	7	63	10	00	03	63	00	-	4	63	63	0	00
Dead 1940		=	45	28	20	20	20	11	10	14	56	15	30	30	20	-	26	18	18	10	13	10	16	10	-	10	7	00	24	10	4	4	10
-	1940	00	20	32	56	22	24	14	18	15	25	37	75	94	52	52	26	30	45	54	20	53	34	40	56	32	57	47	61	10	69	74	65
	1939	10	19	32	27	23	23	15	22	16	27	37	75	78	19	52	69	31	46	54	20	59	35	39	58	33	53	46	92	10	11	74	65
	1938	6	19	31	28	22	23	16	23	15	28	37	75	77	21	53	29	31	44	22	20	27	35	34	58	32	20	45	69	71	70	74	11
	1937	=	22	32	28	24	24	19	26	91	31	41	78	855	54	54	09	33	47	89	53	31	40	39	53	36	55	51	74	80	74	1	11
	1936	=	24	32	28	25	24	19	27	17	32	41	81	84	55	22	63	34	20	28	24	33	40	41	30	37	56	51	9/	81	1	1	11
year after Discharge	1935	12	24	33	29	26	24	20	28	17	33	43	81	85	22	55	64	34	20	58	24	34	42	43	30	38	57	54	83	1	1	1	11
Disc	1934	15	24	36	31	26	24	20	53	18	35	44	83	87	89	09	67	34	52	20	22	34	44	46	31	38	58	53	1	1	i	1	11
after	1933	16	27	36	34	26	55	20	30	17	36	44	84	92	69	19	89	35	52	69	29	36	46	47	33	42	62	1	1	1	1	1	11
year	1932	16	28	38	35	87	25	21	32	20	36	45	85	92	19	62	71	35	53	09	99	36	47	48	33	43	1	1	1	1	1	1	11
ssive	1831	15	65	38	35	30	25	55	32	20	37	47	68	96	61	63	73	35	55	09	61	39	20	20	33	1	1	1	1	1	1	1	11
each successive	1930	14	30	39	36	30	25	22	33	20	37	47	68	96	62	63	73	36	56	62	63	39	24	20	1	1	1	1	1	1	1	1	11
ach s	1929	91	31	40	36	30	25	22	32	20	40	47	68	66	63	62	15	38	28	62	65	39	54	1	1	1	1	1	1	1	1	1	11
"in	1928	18	32	39	37	30	27	23	32	21	41	64	92	66	65	09	18	40	69	99	67	39	1	1	1	1	1	1	1	1	1	1	11
Alive	1927	18	32	37	38	30	27	53	34	50	42	49	92	10	99	19	13	43	09	89	67	1	1	1	1	1	1	1	1	1	1	1	11
" or " Alive " in eac	1926	17	33	39	39	31	27	53	34	20	43	20	86	102	89	63	S	44	63	7.1	1	1	1	1	1	1	1	1	1	1	1	1	11
ell " c	1925	16	33	43	40	31	27	23	34	23	44	48	97	103	89	64	82	44	65	1	1	1	1	1	i	1	1	1	1	1	1	1	11
M	1924	18	34	43	41	32	27	24	33	22	43	48	97	104	=	64	84	46	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
orted	1923							25	383									1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
r rep	1922			-				24		_	-	_	_	_		_	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
Number reported	1921	1000	20000			1201	-	25	-	-		_	-	-		1000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
Z	1920	1	_		-	1	-	26			-	777	77.7	7		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
	6161	1	77	_		_	-	24	_	_			-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	i	1	11
	1918	123	39	44	49	37	36	28	36	53	51	56	1	i	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
		19	40	40	49	38	36	28	37	30	53	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
	1916 1917	18	37	38	47	40	34	25	31	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
	1915	16	35	40	42	37	36	28	37	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11
	1908	128	248	223	195	112	89	29	1	1	1	1	1	1	1	1	1	1	i	1	1	1	1	1	1	1	1	1	1	1	1	1	11
mber									41	35	69	58	117	119	78	99	93	19	89	72	20	41	55	53	35	44	64	99	89	83	75	18	99
Year	Dis- charge.	10/90	80/10	60/80	01/60	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	1925/26	26/27	27/28	28/29	29/30	30/31	31/32	32/33	1933/34	34/35	35/36	36/37	1937/38
	ch	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19.	19	19.	19	19	19.	19.	19.	19	19	19	19.	19.	19	19.	19	19

Table A6.—Statistics of Ultimate Results

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium Group I considered separately

-	103is 1sc 0461 m		00	4	10	=	4	+ 0	0	4 5	10	4	20	67	5	4	9	4	4	3	4	9	4	-	+	63	1	-	63	-	C3	0	0	0	0	0
	1940 1940		9	12	14	-	10	1 1	-1	- 1	0	20	00	00	20	*	10	20	6	10	00	2	60	20	10	00	-	63	0	07	4	01	1	0	0	0
		1940	7	15	20	06	16	101	61	20 0	13	00	18	24	41	27	35	39	38	22	31	38	37	19	21	27	18	17	33	24	20	20	58	27	55	27
		1939	6	14	20	200	10	17	19	5	17	00	20	24	41	28	34	39	39	23	35	38	36	19	22	26	19	17	32	24	21	20	58	27	22	1
		1937 1938	00	14	16	66	000	200	13	6	12	1	20	24	41	29	35	40	39	24	31	39	35	17	23	21	18	16	31	23	24	21	28	27	1	1
		1937	6	16	20	000	0.1	17	13	= :	17	00	23	23	41	30	37	45	38	24	33	40	38	21	27	25	19	19	33	26	25	22	230	1	1	1
		1936	6	18	50	00	0.0	17	61	= =	7.7	6.	23	23	41	31	37	43	39	25	35	40	39	23	27	56	19	19	34	26	25	22	1	1	1	1
	rge	1935	10	18	21	00	000	77	13	22.5	77	6	24	23	41	31	38	43	39	25	35	40	39	23	28	27	19	19	34	27	25	1	1	1	1	1
	ischa	1934	12	18	93	24	00	7.	6	75	77	10	25	59	11	31	39	47	41	55	37	41	40	23	28	59	19	19	35	26	1	1	1	1	1	1
	ter D	1933 1	13	19	93	96	000	7 .	61	77	52	6	56	59	41	31	39	47	42	26	37	40	40	24	30	30	50	50	35	1	1	1	1	1	1	1
	ar af	1932 1	13	21	9.5	010	000	07	61	13	20	12	56	30	41	31	41	47	44	26	38	40	41	23	31	31	20	50	1	1	1	1	1	1	1	-
	successive year after Discharge	1931	0.00	-			-	000		13		900		-	-		-	-	-		-	-				-	-	1	1	1	1	1	1	1	1	1
	cessi	1930	11	22	98	000	070	+7	61	13	97	12	56	30	44	30	41	47	45	27	39	42	43	24	35	35	1	1	1	1	1	1	1	1	1	1
•	h suc	19291	12	67	10	000	070	+ 2	0. I	13	24	12.	58	59	44	32	11	45	46	86	39	45	43	24	35	1	1	1	1	1	1	1	1	-	1	1
	in each	1928 1	14	53	96	000	200	+7	61	14	24	10	59	32	45	33	41	43	46	59	39	45	43	24	1	1	1	-	1	1	1	1	1	1	1	1
	2	1927								77					+	-							-	-	1	i	-	1	1	1	1	1	1	1	1	1
	" Alive	19261	14	53	96	000	000	47	18	14	56	11	59	32	46	33	43	46	47	32	42	48	1	-	1	1	9	1	1	1	1	1	1	1	1	-
	" or	1925 1	13	53	86	070	100	7.4	28	14	56	12	28	30	45	34	4	47	48	32	43	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1
	Well	1924	14	93	00	070	20	250	18	15	25	12	27	31	45	32	45	47	49	33	1	1	1	i	1	1	1	1	1	1	1	1.	1	1	1	1
	" pa		14	93	000	070	700	**	18	15	25	12	27	59	44	33	47	48	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	eport	1922 1923	1.3	6.6	000	170	250	7.4	18	15	5.5	=	28	31	42	33	48	48	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Number reported "	1921	1.3	66	100	200	32	56	18	14	25	=	27	53	46	34	47	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	T
	Num	1920	14	76	00	000	200	77	20	15	26	13	59	200	48	34	: 1	1	1	1	1	i	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1919 1920 1921	100	76	10	17	200	27	20	14	25	6	66	31	47	1	1	1	1	1	Ī	1	1	1	i	1	1	1	1	1	1	1	1	1	1	1
		1918	100	96	000	200	350	53	21	11	27	14	35	65	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1917	101	96	200	207	35	53	21	18	861	15	31	1	1	1	1	1	1	1	1	1	i	1	1	1	1	1	1	1	1	1	1	1	1	1
		7161 9161 3161	1.0	07	+40	20.0	34	3	50	91	21	13	1	1	1	1	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1915	15	00	10	20	30	53	23	17	26	1	1	1	1			-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		1908	10	180	141	141	143	88	44	18	1	1	1	1	1			-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	nper		1.0					37	26	61	55	17	350	34	51	200	5 5	48	5.5	355	43	49	44	25	35	32	20	20	355	27	26	22	29	27	22	27
	Year	Dis- charge	00 00	00/000	00/100	1908/09	9/10	1910/11	11/12	1912/13	1913/14	914/15	1915/16	1016/17	1917/18	01/8/10	06/010	19/06	66/16	000/600	193/94	994/95		926/27	927/28	928/29	929/30	930/31	931/32	32/33	933/34	34/35		-	-	-
		C	100	10	-	2		18	19	1.9	15	16	19	10	10	10	10	10	10	101	10	10	10	10	19	19	1.0	15	19	19	18	19	18	1.6	18	16

TABLE A7.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium Group II considered separately

016	No. lost in I	01	-	-	01	c1 .	40	00	1	00	4	-	0 .	- 0	000	0 0	0-	101	01	1	-		٠.	-	7	0	23	63 (23	0	0	51
01	61 ui						16	-									-												-			-
Dead	Number		_	_			_			-	-	24 -	-				_															-
18	1940	-	2	=	9	-	0 10	4	-	20	13	31	65	14	6.	14	100	13	6	00	11	120		er e	200	318	8	2	28	64	39	30
	1939	-	20	=	9	67	4 10	9 4	00	9	13	31	47	14	5	CT CT	100	13	10	00	11	12	20 1	OT O	200	17	33	43	40	45	38	
	1938	1	20	=	9	64	4 0	4	00	7	13	31	44	13	5 1	07	4 =	13	==	00	11	122	6 1	10	97	77	34	43	33	45	1	1
	1937	63	9	=	9	0	0 1	- 4	00	=	15	36	8	4	00 9	91	0 0	12	=	00	=	13	0 0	0 10	17	24	37	20	43	1	1	1
	1936 1937	67	9	=	9	4	101	- 10	00	12	15	33	43	15	00 0	20.	0 0	15	=	00	=	14	2:	- 10	17	24	37	20	1	1	1	1
- Ke	10	C1	9	==	7	4	10	- 9	00	7	15	37	200	91	00 0	201	00	22	=	8	12	15	07	200	77	56	40	1	1	1	1	-
in each successive year after Discharge	1934 1	1	-		-		1 0	-		-	-	-		-	-	-	-	-	-	77	-	-	-	-	-		1	1	1	1	1	-
er Di	1933 1	-	1000			202.7	91					-			-	-	-				-	-				1	1	1	1	1	1	
r aft	1932 19	-					9 1	-					-		-		-	91	-		-	-		-	1	1	1	-	1	1	1	
e yea	31 19	1		-					-	-		7					-		-	-	-			1	1	-	-	-	1	1	-	-
essive	30 1931	1	- 2			-	9 1		-							-		-	37/		0.05		-	1	-	-	-	-	1	1	-	-
succ	9 1930	1	-		-	-	91									100		-	-			-	-	-	1	1	1	-	-	1	-	-
each	8 1929	1			_		91			-	_											1	1	1	1	1	1	-	1	1	1	-
		4	6.	120	00	9	1 30	-1-	- 6.	=	17	43	61	62	13	52	9 ;	17	19	10	1	1	1	1	1	1	1	1	1	1	1	-
Alive "	1927	4	6	=	œ	-	1 20	-1-	6	12	17	45	62	13	13	26		1 8	19	1	1	1	1	1	1	1	1	1	1	1	1	1
:	19	63	10	12	00	-	00 t	-1	- 6	12	18	+1	64	13	23	27	-:	± 2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 " or	6	60	10	14	œ	-	1 00	-1-	- 6.	14	18	47	64	18	13	27	-:	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Well	19	4	10	14	6	-	1 00	-1-	6	14	17	47	99	20	13	26	00	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ted "	1923	4	10	14	6	9	1 00	-1-	- 6	15	18	48	89	20	7	200	1	11	1	1	1	1	1	1	1	I	1	1	1	1	1	1
epor	1922	2	12	14	6	-	00 0	01	- 00	15	19	48	89	20	14	1	1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number reported " W	1921	10	12	14	6	-	000	010	10	22	19	20	67	20	1	1	1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Num	920	10	12	15	6	7	10	10 a	0	16	20	51	89	1	1	1	1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	
	919	9	13	15	6	7	00 0	20	10	15	22	55	1	1	1	1	1	11	11	1	1	1	1	1	1	1	1	1	1	1	1	-
	1915 1916 1917 1918 1919 1920 1921 1922 1923	9	13	15	12	00	14	000	130	16	23	1	i	1	1	1	1	11		1	1	1	1	1	1	1	1	1	1	1	1	-
	9171	-	-	-	-	-	4.	-	-	61	-	1	-	1	1	-	1			1	1	1	1	1	1	1	1	1	1	1	1	-
	1916	1	100	uco.	2000		13		-		1	1	1	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	-
	1519	10	2	4	-	00	120	200	-	1	1	1	-	-	1	-	1	1		-	1	1	1	1	1	1	1	1	1	-	1	1
	1908	1		100	4000		23	-		1	1	1	1	1	-	1	1	1	-	1	1	-	1	-	1	1	-	-	1	1	-	-
peg	Dischar	-	-	-		10 2		6.1	14	3	-	- 69	- 1	- 0	4	oc	6	01	0 6	-	00	- 6	-	- 25	-	- 9	40	- 09	3	- 6	- 04	- 1 9
	quinN	-						-					_			-								100		21						
Vear	of Dis-	6/07	807/08	808/00	01/6	0/11	1911/12	1912/13	4/15	5/16	6/17	81/1181	8/19	919/50	1920/21	921/22	1922/23	923/24	925/26	926/27	7/28	1928/29	9/30	0/31	1/35	932/33	933/34	1934/35	15/36	6 37	17/38	18/39
/ >	5日4	1906	190	190	1909	1910/	191	191	161	191	191	191	101	191	192	192	192	192	199	192	192	192	192	1930	1931	193	193	193	193	1936	1937/	193

TABLE A8.—STATISTICS OF ULTIMATE RESULTS

Cases in the Sputum of which T.B. were not demonstrated in the Sanatorium Group III considered separately

Number reported "Well" or "Alive" in each successive year after Discharged "Well" or "Alive" in eac	Mo. lost sight 0461 ni to	0-0000000000000000000000000000000000000
Number Number	Number Dead o+e1 ni	
Number Number	1940	00-0000-000404400004000
Number Number	1939	001000110108884288438111111112
Number Number	1938	00-000-10-00040404000401-1-1-1-1-1-1-1-1
Number Number	1937	00-000-00-00404040400400
Number Number	1936	00-000-00-00464646466466
Number Number	urge 1935	00-0000-004646464664661
Number Number	Jischa 1934	00-0000-004046400400
Number Number	fter I 1933	0000
Number Number	ear ar	00-000-00-044846484848
Number Number	ive y	001000010104484148466811
Number Number	ccessi 1930	00-00000-0-044841-444668-
Number Number	ch su	00-00000-0-0-4444-4040001
Number Number	in ead	00-00001-0-040040040001
Number Number	ve".	00-00000-0-0400450045
Number Number	" Ali	000
Number Number	" or	000-3-03000004-58
Number Number	Well 1924	0111012112000004651111111111111
Number Number	ted "	00-88088844-
Number Number	repor 1922	00-8008804
Number Number	1921	0008-8809=8
* P	Nun 1920	00-8-88098111111111111111111111111111
6 28.801111147557800111114755780808888888888888888888888888888888	1919	000-8-8808
6 28.801111147557800111114755780808888888888888888888888888888888	1918	0
6 28.801111147557800111114755780808888888888888888888888888888888	1917	0
6 28.801111147557800111114755780808888888888888888888888888888888	1916	00-80-8-8
6 28.801111147557800111114755780808888888888888888888888888888888	1915	00
38 38 38 38 38 38 38 38 38 38 38 38 38 3		0100010101
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		-010101-01001440-5844-58-601-0101055-00140
Ch C	Year of Dis-	1906/07 1908/09 1908/09 1908/09 1910/11 1911/12 1911/12 1911/13 1911/1

TABLE B1.—STATISTICS OF ULTIMATE RESULTS

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

	Condition in 1940	Alive Dead Lost sight of					
	1938/39	9	111	31	63	1 1 1 28	1 1 25
	88/4861	8	-11	111	111	32	1 1
	18/9861	es	411	111	111	83	23
	1935/36	9	01	111	111	15	33
	98/+861	01	9	1	111		9 1
	1933/34	9 1	1 3	11-	111	1 1 2	20
	1932/33	9 1	2	111	111	3 0 5	15 6 1
	1931/32	1 1 6	63	-	111	13	14 9 1
	18/0861	I 63 -	111			=-	116
	08/6361	25.00	61-1	-11	111	11 6	8 8 1
ear	62/8761	1-03	-11	1	-	41 22	0000
the Y	82/7261	6-1		-11		1 20	==
ring	72/9261	1-01	961	41	111	0 10 01	12 6 1
Discharged during the Year	1925/26	987-		-11	111	4-1	∞ rc
harg	1924/25	90101	67		1	10 10	177
Disc	1923/24	r es -1	441	1	-	401	12 1
	1922/23	000	100	111	111	84	133
	1921/22	œ rc	41-	1-1	111	44	- 42 -
	12/0261	1 30	121	1-1	-	1-10	30 2
	02/6161	101	9 % ~	1 22	111		11 36
	61/8161	6	4	-11	111	- -	36 8 8
	81/4161	131-	24	-11	1	-4-	19 4
	41/9161	101-	1-01	1	1-1	431	3 4 2 8
	1912/16	64-	-4-	111	64	64 10	31
	1914/10	20-	60 10 11	-	-11	461	13
	¥1/9061	41 59 6	37	011-01	641	40 66 6	60 267 17
Condition on	Discharge	Disease	Much	Improved	Stationary or Worse	Disease	Much
Con	-simbA nois		I du	II			
	THE STREET STREET		-				

-			The same				
Alive Dead Lost sight of	Alive Dead Lost sight of	Alive Dead Lost sight of					
===	1-1	111	00	5	000	85.	93
4-1	63	711	1 1 2	64	4-1	83	16
13	1	-11	1 1 120	9 %	624	85	103
1 5	1 1 3	111	∞ c₁	1 6 5	801	86 28 1	115
9 1	1 1	8	10	113	9 1	424	118
65	1 8 1	111	9 1	41-	122	53	100
16	10,1-1	111	000	60 TO	1 20 1	79 54 8	141
==-	111	171		1 8 1	122	62 59 4	125
15	19 2	111	111	63 10	10	62 65	134
14 25 1	41	111	101	1 22	10	73	155
18	13	111	101	019	1 6 2	53 60	118
8 6 1	9 6 1	-	44	10 10	15	67 3	121
13	014	-11	-63	14	100	60 47	127
66	1 6	111	9 10	28	122	112	114
172	122	-11	01.6	27	101	36 78 4	128
1-1	111	1000	11 55 1	31	161	37 125 4	166
-11	111	03 00	10 2 2	1 25	10	40 122 3	165
1-1	-	00 10	255	24	101	34 139 3	176
101	62	2001	30	37	1 00 1	58 135 4	197
1 -100	101	100	23	32	119	51 139 6	196
14	12	111	35	$\begin{array}{c} 1 \\ 20 \\ 1 \end{array}$	119	56 132 10	198
	10	111	29	21	1 24 1	41 133 10	184
181	-=-	1-1	272	26	25 1	45 158 9	212
13	13	-	18	13	58	20 130 4	154
6	202	111	19	18	853	29 160 4	
13 127 4	133	9	47.8	129 2	234 1	210 29 1199 160 51 4	1460 193
Improved	Stationary or Worse	Disease	Much	Improved	Stationary or Worse	Summary	TOTAL
Group III Group							

Table B2.—Statistics of Ultimate Results

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

	Condition in 1940	Alive Dead Lost sight of					
	1938/39	26	-11	111	111	35	6
	1937/38	55	111	111	111	33	911
	1879261	26	111	-11	111	36	1 1 2
	98/9861	26	67	111	111	24	10
	1934/32	13	-11	111	111	18	1000
	1933/34	16 1	01	61	111	1 2 1	L 4 82
	1932/33	23	111	-11	111	1 2 1	10 63
	1931/32	32	- -	111	111	13	411
	18/0861	15	111	- -	-11	01	4 1
	1929/30	17	1-1	-11	111	401	63
	62/8261	33	4 1	64	-11	441	8
ear	82/7281	18	-63-	1 2 1	-11	121	1 13
he Y	1926/27	18 4 1	111	-11	1-1	4-1	1 12
ring t	1925/26	23	4	1 3	-11	L 10	1 - 12
np p	1924/25	E 4	90101	711	111	916	10
Discharged during the Year	1923/24	24 8 4	5		-11	1	8
Disc	1922/23	2 - 23	2001		111	604	111
	1921/22	36	63	63	111	12 6 4	
	12/0261	85 70 4		111	111	F 01 01	
	02/6161	29	- 60 63	4	-11	1 22	00
	61/8161	3 2 3 3	1 1 1 1	111	-11	15 7 4	51 × 4
	81/1161	66 4 4	2 - 2	1 1	111	1-004	20 7
	41/9161	15 4 1	9 4 1	111	111	10 80 11	6000
	91/9161	8 4	- -	111	111	90-	-60-
	21/\$161	112	01401		111	1-1	-61
	₱1/906I	101 59 30	4128	461	4 6	17 22 9	10 28 7
Condition on	Discharge	Disease	Much	Improved	Stationary or Worse	Disease. Arrested	Much
	-simbA nois		I due		II		

Alive Dead Lost sight of								
111	1-1	111	8		111	122	78	
111	111	64	111	111	61	65	99	
6	-11	111	-11	-11	111	44	78	
4-1	111	111	1 2	-11	111	69	75	
1 1 6	111	-11	00	121	0101	11 2	83	
121	111	60	504	101	63 60	60 25 4	88	
-11	11-1-	111	-	111	63	8 1	56	
0101	121	111	111		111	54	64	
-11	63	111	111	-	-	32 10 2	44	
2 1 -1	63	111	1 1-1	-11	111	26 2 2	35	
611	1 1 2	111	111	-11	-	40 10 3	53	
	63	111	63	111	111	34 16	55	
- 1 2	111	1-1	-	1 1 2	111	29 10 2	41	
121	11-	1 2	-11	1 63	111	13	10	
1 1 23	-		1 1 5	111	1-1	54 10 8	72	
-11		014		00	111	18	89	
64	111	99	1	-	111	30	51	
	111	10 10	1-1	1 00	111	56 26 11	93	
-11	-11	61	-11	-	111	52	99	
4 1	111	-11	014	-	111	52 20 6	78	
1 1 2	1 1000	11-	000	01	1 00	77 29 13	119	
441	0101	-	01 00	-	111	75 30 12	111	
63	-	111	111	111	111	37 15 6	58	
1-1	0101-	111	-11	101	-	25	59	
1-1	1-1	111	-	-11-	63	14 15 6	35	
1 6	941		015-	1001	-	164 145 59	368	
Improved	Stationary or Worse	Disease	Much	Improved	Stationary or Worse	Summary	TOTAL	
Group				III dn	019			

