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King Edward VII Sanatorium (Midhurst, England)

### **Publication/Creation**

Midhurst, Sussex : The Sanatorium, 1938

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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-SECOND ANNUAL MEDICAL REPORT

JULY 1937 to JUNE 1938

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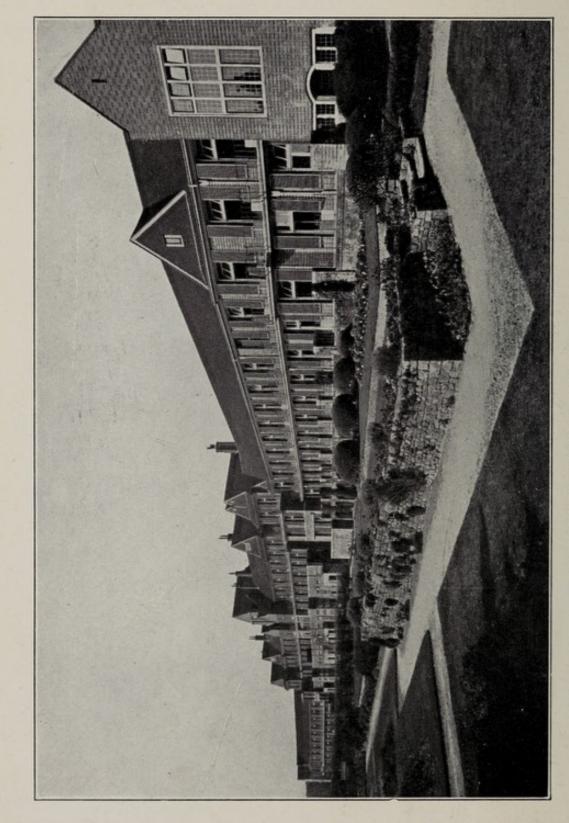
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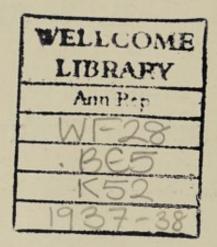
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# **KING EDWARD VII SANATORIUM**

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## KING EDWARD VII SANATORIUM MIDHURST

# Thirty=second Annual Medical Report JULY 1937 to JUNE 1938

DURING the period July 1st, 1937, to June 30th, 1938, 229 patients were admitted to the Sanatorium, 56 of these being re-admissions. During the same period, 224 patients were discharged, and 3 died in the Sanatorium. Of those discharged, 6 were in the Sanatorium less than nine weeks, and are not followed up in the after-history records, and 56 were re-admissions who are considered in a later section of the Report. The remaining 162 patients were grouped according to condition on admission, as follows :—

| Group I   | <br> | <br> | 26  |
|-----------|------|------|-----|
| Group II  | <br> | <br> | 102 |
| Group III | <br> | <br> | 29  |
| Group IV  | <br> | <br> | 5   |

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

It will be noticed that the number of discharges during the year shows a large decrease on previous years. This is entirely due to more cases having surgical treatment of a major kind, and thus their stay is prolonged. However, the percentage of those discharged with disease arrested or much improved has risen considerably, which fully justifies the extra stay of these patients. The average length of stay was six months.

Applications for particulars of admission totalled 428, and the average waiting list was 31–32 for men and 29–30 for women—an increase in both cases.

Thirty-three applicants were examined by the Medical Superintendent; of these 29 (87.9 per cent) were accepted for treatment, and 4 (12.1 per cent) were rejected as unsuitable, according to the rules of the Sanatorium.

We would like to place on record our grateful thanks to Sir Edward Meyerstein for providing a television set. This is installed in the lounge, and owing to the excellent reception, is well patronised in the evenings. It is also possible for the patients to follow the tennis championships at Wimbledon, and other outdoor events.

We are also greatly indebted to Miss Florence A. Tingey for her gift of an electrical clock. This has been placed on the front elevation of the building, and is of great value. Once again we were able to make further improvements in the talking picture programmes, which are very popular with the patients. During the whole of the time that they have been shown there has been a high attendance, and all the programmes have been much appreciated.

As last year, concerts and plays were given at fortnightly intervals. These proved a success, especially the two given by the Staff. The patients look forward greatly to the latter, as they generally contain matters of topical interest.

Other entertainments in the form of bridge drives, whist drives, competitions and tournaments were, as usual, organised by the patients' General Purposes Committee. Needlework classes were held as previously.

The shop continued to do excellent business, and continual efforts are made to increase its manifold services.

With the invaluable assistance of the Times Club Book Club, the Library is kept up-to-date by frequent additions of recent books.

The Church Services were held as usual on Sundays, with extra services on special occasions, such as Armistice Day. Holy Communion is celebrated weekly, when the Chaplain takes the Sacrament to patients in bed. Attendances have improved since the appointment of a resident Chaplain.

A Roman Catholic priest visits the Sanatorium regularly to see the Catholic patients, and serves Mass at frequent intervals. The Catholic members of the Staff also attend, and are thus saved a long journey to the village.

We wish to thank the Council and Consulting Staff for their valuable services and unfailing interest in the organisation and welfare of the Sanatorium.

Our sincere thanks are also given to all members of the Staff in the Sanatorium for their work and loyal co-operation.

### **GENERAL STATISTICS**

The following tables show an analysis of the 162 new patients discharged during the year, under the following headings :---

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

| Place of Residence |  |   | Number<br>of<br>Patients | Place of Residence | Number<br>of<br>Patients |  |
|--------------------|--|---|--------------------------|--------------------|--------------------------|--|
| London             |  |   | 45                       | Norfolk            | <br>2                    |  |
| Irish Free State   |  |   | 17                       | Worcestershire     | <br>2                    |  |
| Surrey             |  |   | 15                       | Bedfordshire       | <br>1                    |  |
| Kent               |  |   | 10                       | Berkshire          | <br>1                    |  |
| Middlesex          |  |   | 10                       | Burma              | <br>1                    |  |
| Sussex             |  |   | 9                        | Cambridgeshire     | <br>1                    |  |
| Devon              |  |   | 8                        | Channel Islands    | <br>1                    |  |
| Essex              |  | 1 | 6                        | Derbyshire         | <br>1                    |  |
| Lancashire         |  |   | 6                        | Jamaica            | <br>1                    |  |
| Hampshire          |  |   | 4                        | Kenya              | <br>1                    |  |
| Yorkshire          |  |   | 3                        | Nottinghamshire    | <br>1                    |  |
| Wales              |  |   | 3                        | Northern Ireland   | <br>1                    |  |
| Buckinghamshire    |  |   | 2                        | Oxfordshire        | <br>1                    |  |
| China              |  |   | 2                        | Scotland           | <br>1                    |  |
| Cornwall           |  |   | 2                        | Spain              | <br>1                    |  |
| Hertfordshire      |  |   | 2                        | Somerset           | <br>1                    |  |
|                    |  |   |                          |                    | 162                      |  |

### TABLE I-PLACE OF RESIDENCE

### TABLE II-OCCUPATION

| Occupation            | Number<br>of<br>Patients | of Occupation            |     |  |
|-----------------------|--------------------------|--------------------------|-----|--|
| Housewives            | 26                       | Civil Servants           | 2   |  |
| Clerks                | 20                       | Artists                  | 2   |  |
| Students              | 11                       | Actors                   | 1   |  |
| Nurses                | 9                        | Air Force                | 1   |  |
| Nil                   | 8                        | Builders                 | 1   |  |
| Managers              | 6                        | Clergymen                | 1   |  |
| Commercial Travellers | 6                        | Farmers                  | 1   |  |
| Medical Practitioners | 6                        | Hairdressing Instructors | 1   |  |
| Accountants           | 5                        | Insurance Brokers        | 1   |  |
| Engineers             | 5                        | Lecturers                | 1   |  |
| Shopkeepers           | 4                        | Librarians               | 1   |  |
| Shop Assistants       | 3                        | Master Bakers            | 1   |  |
| Army                  | 3                        | Pharmacists              | 1   |  |
| Company Officials     | - 3                      | Stock Jobbers            | 1   |  |
| Navy                  | 3                        | Surveyors                | 1   |  |
| Salesmen              | 3                        | Tea Planters             | 1   |  |
| Solicitors            |                          | Town Clerks              | 1   |  |
| Teachers              | 3                        | Dental Surgeons          | 1   |  |
| Secretaries           | . 3                      | Film Artists             | 1   |  |
| Agents                | 2                        | Journalists              | 1   |  |
| Bank Officials        | . 2                      | School Matrons           | 1   |  |
| Manufacturers         | 1 9                      | Social Workers           | 1   |  |
| Tailors               | 0                        |                          |     |  |
|                       |                          |                          | 162 |  |

|          | 3     | lears |      |     | Males | Females | Total |
|----------|-------|-------|------|-----|-------|---------|-------|
| Under 20 | <br>  |       | <br> |     | 6     | 3       | 9     |
| 20 - 25  | <br>· |       | <br> |     | 19    | 15      | 34    |
| 26-30    | <br>  |       | <br> |     | 16    | 22      | 38    |
| 31-35    | <br>  |       | <br> |     | 19    | 10      | 29    |
| 36-40    | <br>  |       | <br> |     | 16    | 7       | 23    |
| 41-45    | <br>  | ÷     | <br> |     | 10    | 5       | 15    |
| 46-50    | <br>  |       | <br> |     | 7     | 4       | 11    |
| Over 50  | <br>  |       | <br> | 5 2 | 2     | 1       | 3     |
|          |       |       |      |     | 95    | 67      | 162   |

### TABLE III-AGE AND SEX

### TABLE IV

| Married | <br> | 69  |
|---------|------|-----|
| Single  | <br> | 93  |
|         | -    | 162 |
|         |      | -   |

### TABLE V-MODE OF ONSET

|                | Mode | of Ons | Number of cases | Percentage |     |       |
|----------------|------|--------|-----------------|------------|-----|-------|
| Lassitude      |      |        | <br>            |            | 39  | 24.1  |
| Cough          |      |        | <br>            |            | 38  | 23.4  |
| Hæmoptysis     |      |        | <br>            |            | 21  | 13.0  |
| ' Influenza '' |      |        | <br>            |            | 19  | 11.7  |
| Pleurisy       |      |        | <br>            |            | 13  | 8.0   |
| Loss of Weight |      |        | <br>            |            | 3   | 1.9   |
| Other Modes    |      |        | <br>            |            | 29  | 17.9  |
|                |      |        |                 |            | 162 | 100.0 |

TABLE VI-DURATION OF DISEASE

| Average Dura | ation | <br> | 1 year 8 months   |
|--------------|-------|------|-------------------|
| Extremes     |       | <br> | 2 months-15 years |

| Group on<br>Admission | Number of<br>Cases                                   | Arrested | Much<br>Improved | Improved | Stationary<br>or Worse | Died in<br>Sanatorium |
|-----------------------|--|----------|------------------|----------|------------------------|-----------------------|
| IA                    | 22   | 22       | _                |          | -                      |                       |
| Ів                    | 4  | 3        | 1                |          |                        | -                     |
| IIA                   | 40   | 33       | 7                |          |                        |                       |
| Пв                    | 62   | 32       | 23               | 5        | 2                      | · ·                   |
| IIIA                  | 4  | 2        |                  |          | 2                      | 1                     |
| IIIB                  | 28   | 1        | 6                | 13       | 5                      | 3                     |
| All Cases             | 160  | 93       | 37               | 18       | 9                      | 3                     |
| IV Pulmo              | ts in whom r<br>e evidence<br>mary Tube<br>was found | of       |                  |          |                        |                       |

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 1937-38

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

Once again, the percentage of cases discharged with "Disease arrested" has increased, namely, from 50 per cent to 56 per cent. This again must be ascribed to the more numerous forms of active treatment being pursued, especially on the surgical side. Group IV cases have further diminished; this is due in great measure to the long waiting list, allowing time for a specific diagnosis of tuberculosis to be made before admission.

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 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.

"*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 VIIIA-DEMONSTRATION OF T.B. IN SPUTUM

| On Admission |  |  |   |     | 0         | e 80 |  |   |     |  |  |
|--------------|--|--|---|-----|-----------|------|--|---|-----|--|--|
| Positive     |  |  |   | 90  | Positive  |      |  |   | 37  |  |  |
| Negative     |  |  |   | 44  | Negative  |      |  |   | 80  |  |  |
| No Sputum    |  |  |   | 23  | No Sputum |      |  |   | 40  |  |  |
| Group IV     |  |  |   | 5   | Group IV  |      |  |   | 5   |  |  |
|              |  |  | - | 162 |           |      |  | - | 162 |  |  |
|              |  |  | - | 102 |           |      |  | - | 102 |  |  |

In 47 cases, sputum which was T.B. positive on admission was negative on discharge; in 7 such cases, sputum cleared up completely. In 13 cases, sputum which was T.B. negative on admission, cleared up completely. Thus, sputum condition improved in 67 cases.

A noteworthy result of the year's work is that the percentage of cases discharged with positive sputum is considerably lower than last year, namely, 23 per cent as compared with 32 per cent. Of course, the ideal would be that no case with positive sputum should be discharged from the Sanatorium, but this is completely impossible. All positive cases are given thorough instruction in precautions against infecting others, and many of them remain locally, attending as out-patients, and not returning home until their sputum has become negative or dried up. This enables us to admit many more active cases into the Sanatorium who need immediate treatment, as otherwise the waiting list would be blocked to an even greater extent than it is at present.

Cases are not regarded as negative until cultural tests have been made in addition to the microscopical examination of the sputum.

| Treatment                    | T.B. Positive<br>to Negative | T.B. Positive<br>to Nil | T.B. Negative<br>to Nil | Total |
|------------------------------|------------------------------|-------------------------|-------------------------|-------|
| Artificial Pneumothorax      | 17                           | 4                       | 2                       | 23    |
| Routine                      | 12                           | . 1                     | 8                       | 21    |
| Sanocrysin                   | 7                            | 1                       | 1                       | 9     |
| A.P. and Phrenic             | 4                            |                         |                         | 4     |
| A.P. and Sanocrysin          |                              | 1                       | 1                       | 2     |
| Sanocrysin and Phrenic       | 2                            |                         |                         | 2     |
| Thoracoplasty                |                              |                         | 1                       | 1     |
| Phrenic Evulsion             | 1                            |                         |                         | 1     |
| A.P. and Thoracoplasty       | 1                            | _                       |                         | 1     |
| Phrenic and Thoracoplasty    | 1                            |                         |                         | 1     |
| A.P., Phrenic and Sanocrysin | 1                            |                         |                         | 1     |
| Extra- and Intrapleural A.P. |                              |                         |                         |       |
| and Sanocrysin               | 1                            | _                       |                         | 1     |
|                              |                              |                         |                         |       |
|                              | 47                           | 7                       | 13                      | 67    |

### TABLE VIIIB-ANALYSIS ACCORDING TO TREATMENT OF SUCCESSFUL SPUTUM RESULTS, 1937-38

TABLE IX-WEIGHT

| Weig        | ht | Group I | Group II | Group III | Group IV | Total |
|-------------|----|---------|----------|-----------|----------|-------|
| Gained      |    | <br>20  | 82       | 17        | 3        | 122   |
| Lost        |    | <br>4   | 13       | 5         | 2        | 24    |
| No Change   |    | <br>2   | 6        |           |          | 8     |
| Not Weighed |    | <br>-   | 1        | 7         | -        | 8     |
|             |    | 26      | 102      | 29        | 5        | 162   |

### **RE-ADMISSION CASES**

Of the 224 patients discharged, 56 were re-admission cases, as compared with 36 last year and 52 the year before. The following table compares the clinical condition of these cases on their previous discharge with that on their re-admission.

|     |    |   |     |     | · · · |
|-----|----|---|-----|-----|-------|
|     | Α. | D | τ.  | 12. |       |
| 100 | Α. | ъ | 1.5 | -   | I     |
| -   |    | - | _   | _   | _     |

|           | 6  |     |      | Number of Cases       |                 |  |  |
|-----------|----|-----|------|-----------------------|-----------------|--|--|
|           | GI | oup |      | On Previous Discharge | On Re-admission |  |  |
| Group I   |    |     | <br> | 9                     | 5               |  |  |
| Group II  |    |     | <br> | 29                    | 32              |  |  |
| Group III |    |     | <br> | 17                    | 19              |  |  |
| Group IV  |    |     | <br> | 1                     | fores at-       |  |  |
|           |    |     |      | 56                    | 56              |  |  |

As in previous years, many of them returned for further treatment of an active kind, as specified below :---

Artificial Pneumothorax-

| Continued from previo     | us tr | eatment  |        |      | 6 |
|---------------------------|-------|----------|--------|------|---|
| Induced between disch     |       |          |        | on   | 3 |
| Induced after re-admis    | sion  |          |        |      | 6 |
| Bilateral                 |       |          |        |      | 1 |
| Sanocrysin (including 2 a |       | thoracoj | plasty | per- |   |
| formed elsewhere)         |       |          |        |      | 5 |
| Phrenic Evulsion          |       |          |        |      |   |
| A.P. and Phrenic Evulsion |       |          |        |      | 2 |
| Extrapleural Pneumothora: | x—    |          |        |      |   |
| Before re-admission       |       |          |        |      | 1 |
| In Sanatorium             |       |          |        |      | 1 |
| Attempted                 |       |          |        |      | 1 |
| Thoracoplasty             |       |          |        |      | 4 |

The remaining 24 returned for further routine treatment. In most cases, this was due to breakdown owing to excessive activity after discharge. Of the re-admissions, 41 left with disease arrested or much improved; this emphasises the value of careful routine in the life of patients suffering from pulmonary tuberculosis, for as soon as they return to the discipline of a sanatorium they once again improve.

| TABLE II-GENERAL | RESULTS OF | TREATMENT OF | <b>RE-ADMISSION</b> ( | CASES |
|------------------|------------|--------------|-----------------------|-------|
|------------------|------------|--------------|-----------------------|-------|

| Group     | ) | Arrested | Much<br>Improved | Improved | Stationary<br>or worse | Died in the<br>Sanatorium | Total |
|-----------|---|----------|------------------|----------|------------------------|---------------------------|-------|
| I         |   | 3        | 2                | _        |                        | _                         | 5     |
| II        |   | 12       | 16               | 3        |                        |                           | 31    |
| III       |   | 4        | 8                | 2        | 5                      |                           | 19    |
| IV        |   |          | -                | -        | -                      | -                         | -     |
| All Cases |   | 19       | 26               | 5        | 5                      |                           | 55    |

### REPORT OF THE THROAT DEPARTMENT

56

Of the 224 patients discharged during the year, the larynx of 217 was examined by Sir St. Clair Thomson. Definite tuberculous disease was present in 14 cases, as compared with 11 last year, while the larynx in the remaining 203 cases was found to be normal.

Three cases were treated with galvanocautery, and all were discharged with disease arrested. Six cases were put on silence and 6 on whispers.

Of the 14 patients suffering from disease of the larynx, 2 were thoracoplasty cases, 2 artificial pneumothorax, and 1 artificial pneumothorax and phrenic evulsion combined.

One case of tuberculosis of the ear was found, who was discharged with disease improved.

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.

| Classifica-<br>tion | Number<br>of Cases | Arrested | Much<br>Improved | Improved | Stationary<br>or worse | Remarks      |
|---------------------|--------------------|----------|------------------|----------|------------------------|--------------|
| Group I             |                    | _        |                  |          | _                      |              |
| Group II            | 7                  | 4        |                  |          | 3                      | 2 since died |
| Group III           | . 4                | -        | 1                | 2        | 1                      | 1 since died |
| Total               | 11                 | 4        | 1                | 2        | 4                      |              |

TABLE II—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.

| Classific:<br>tion    | a-      | Number<br>of Cases | Arrested | Much<br>Improved | Improved | Stationary<br>or worse | Remarks |
|-----------------------|---------|--------------------|----------|------------------|----------|------------------------|---------|
|                       | <i></i> |                    | -        | -                | -        |                        |         |
| Group II<br>Group III | ····    | $\frac{2}{1}$      | -        | _                | -        | 1                      |         |
| Total                 |         | 3                  | 1        |                  | 1        | 1                      |         |

Note by Sir St.Clair Thomson.—The complication of tuberculosis in the larynx is being met with less frequently. Twenty years ago, in 1918, it was found in 14.4 per cent of the patients; in 1928, in 8.3 per cent; and in 1938, in 6.5 per cent. This may indicate that we are now getting cases in an earlier stage of the disease (when the complication occurs less frequently), or that tuberculosis is becoming of a less virulent type.

### ARTIFICIAL PNEUMOTHORAX

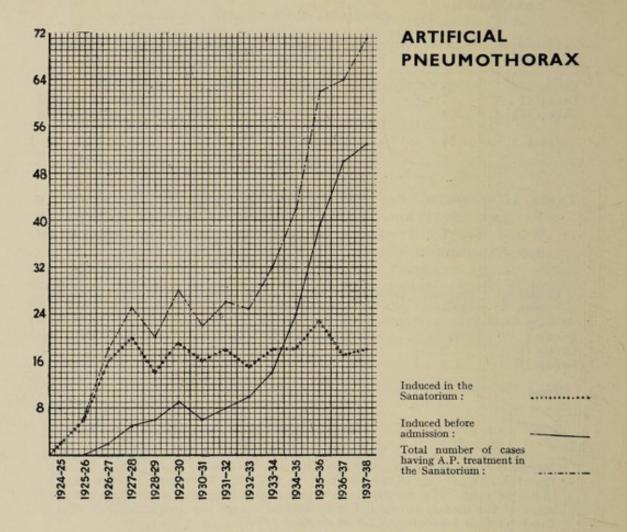
During the period 1925-37 artificial pneumothorax was attempted in 259 cases, of which 202 were successful.

Of these 202 patients, 143 (70.8 per cent) are known to be alive. Particulars of sputum are known in 117 cases, and are analysed as follows :---

|                                      | No Sputum    | T.B.<br>Negative | T.B.<br>Positive | Sputum<br>not Tested | Total                                 |
|--------------------------------------|--------------|------------------|------------------|----------------------|---------------------------------------|
| Ceased Refills<br>Continuing Refills | <br>59<br>19 | 5<br>7           | 4<br>2           | 14<br>7              | $\begin{array}{c} 82\\ 35\end{array}$ |
|                                      | 78           | 12               | 6                | 21                   | 117                                   |

TABLE I

The total number of patients receiving artificial pneumothorax treatment during the year under review was 71. We again show the annual figures graphically.



Once more we would like to draw attention to the fact that the number of artificial pneumothoraces induced in the Sanatorium—namely, 18—appears to be very small. This is entirely due to the length of the waiting list. In 53 cases, tabulated below, the artificial pneumothorax was induced before admission in another institution, either on our advice or on that of some other consultant. Thus they received treatment without a delay which might have proved extremely harmful.

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 | N WHICH ARTIFICIAL PNEUMOTH | ORAX |
|----------------------|----------|-----------------------------|------|
| WAS SUCCESSFULLY     | INDUCED  | IN THE SANATORIUM           |      |

|              |    | Jupan () ()        | Sputum on A                      | Admission        | Sputum on Discharge              |                  |  |
|--------------|----|--------------------|----------------------------------|------------------|----------------------------------|------------------|--|
| Classificati | on | Larynx<br>Improved | No Sputum<br>or T.B.<br>Negative | T.B.<br>Positive | No Sputum<br>or T.B.<br>Negative | T.B.<br>Positive |  |
| Choice I     |    |                    | 2                                | 3                | 3                                | 2                |  |
| Choice II    |    | 1                  | 1                                | 9                | 7                                | 3                |  |
| Choice III   |    |                    | 2                                | 1                | 2                                | 1                |  |
|              |    |                    |                                  |                  |                                  |                  |  |
| All Cases    |    | 1                  | 5                                | 13               | 12                               | 6                |  |

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

| Sputum befo<br>of A              |                  | Sputu<br>Disch                   | Sputum on<br>Discharge |  |
|----------------------------------|------------------|----------------------------------|------------------------|--|
| No Sputum<br>or T.B.<br>Negative | T.B.<br>Positive | No Sputum<br>or T.B.<br>Negative | T.B.<br>Positive       |  |
| 11                               | 39               | 45                               | 5                      |  |

Abandoned after admission 1 Died in Sanatorium ... 2

-----

### SANOCRYSIN

The after-history of the 298 cases who had gold treatment in previous years shows that 78 are now dead, while of the remaining 220, 207 are known to be alive. Particulars of sputum are known in 173 cases, as follows :---

| No sputum         |   | <br> | <br> | 81  |
|-------------------|---|------|------|-----|
| T.B. Negative     | · | <br> | <br> | 24  |
| T.B. Positive     |   | <br> | <br> | 15  |
| Sputum not tested |   | <br> | <br> | 53  |
|                   |   |      | -    |     |
|                   |   |      |      | 173 |

28 cases have been treated with sanocrysin during the year under review, as compared with 58 last year. One case was re-admitted for a second course.

It is always extremely difficult to assess the value of this drug in the treatment of pulmonary tuberculosis. We specially select for gold therapy some of the more chronic positive cases, particularly choosing cases with scattered fibrotic lesions, cases with an artificial pneumthhorax who have some disease on the opposite side, and cases who have recently undergone thoracoplasties.

We still favour small doses, and consider it extremely important to test the urine the day before and the day after injection. Even if a trace of albumen is found in the urine, we consider that sanocrysin should be stopped. Following this course, we have not had one case of serious complication following the giving of this drug during the year under consideration.

The following table compares the results of sputum examination on admission and discharge :---

| Group |   |              | On Admission     | n                | On Discharge |                  |                  |  |
|-------|---|--------------|------------------|------------------|--------------|------------------|------------------|--|
| Grou  | þ | No<br>Sputum | T.B.<br>Negative | T.B.<br>Positive | No<br>Sputum | T.B.<br>Negative | T.B.<br>Positive |  |
| I     |   |              |                  |                  |              | _                |                  |  |
| II    |   | 1            | 1                | 20               | 4            | 11               | 7                |  |
| 111   |   |              | -                | 7                |              | 1                | 6                |  |
|       |   |              |                  |                  |              |                  |                  |  |
| Total |   | 1            | 1                | 27               | 4            | 12               | 13               |  |

### SURGICAL DEPARTMENT

The theatre continues to prove invaluable in the work of the Sanatorium. Numerous items of equipment have been added, including a diathermy table and a lighted dissector for extrapleural pneumothoraces. Quite a number of instruments have had to be replaced by later patterns, as in chest surgery the types of instrument are continually changing.

The following table shows the nature of the 98 major operations :---

| Thoracoplasty     |          |        |          | <br>  | 19        |
|-------------------|----------|--------|----------|-------|-----------|
|                   |          |        |          | (on ] | 10 cases) |
| Extrapleural pneu | mothor   | ax     |          | <br>  | 11        |
| Extra- and intrap |          |        | othorax  | <br>  | 9         |
| Attempted extrap  | leural p | neumo  | othorax  | <br>  | 2         |
| Phrenic evulsion  | *        |        |          | <br>  | 9         |
| Phrenic crush     |          |        |          | <br>  | 5         |
| Thoracoscopy and  | divisio  | n of a | thesions | <br>  | 31        |
| Thoracoscopy      |          |        |          | <br>  | 5         |
| Other operations  |          |        |          | <br>  | 7         |
|                   |          |        |          |       | -         |
|                   |          |        |          |       | 00        |

98

The main alteration in the Department this year has been the substitution of extrapleural pneumothorax in quite a number of cases who would otherwise have had an apical thoracoplasty. As this is the first year that we have done extrapleural pneumothoraces at Midhurst, we describe our technique in detail.

### The operation may fall into one of two classes :---

(1) The extrapleural pneumothorax alone, done in cases in which intrapleural pneumothorax has been attempted and found to be impossible.

(2) The extrapleural combined with an intrapleural pneumothorax, done in cases in which an intrapleural pneumothorax has been possible in the lower half of the lung, but in which the apex was adherent or the adhesions in this region were so numerous that their division by cauterisation was impossible. In this latter class we have, as a matter of routine, made the extra- and intrapleural pneumothoraces into one on the day of the operation.

### CLASS I-EXTRAPLEURAL PNEUMOTHORAX ALONE

With the exception of three cases, the operations have been done under gas and oxygen anæsthesia, after preliminary pentothal, given intravenously. A section of the fourth rib is removed, and the parietal pleura dissected from its surrounding fascia. The wound is never closed up until we are quite certain that all bleeding and oozing points have been thoroughly controlled. It is extremely important that each layer should be well sewn up, in order to prevent, as far as possible, any leakage of air. The case is filled on the table at the conclusion of the operation. Another refill is given the same night; a second refill is given the next morning, and then daily for at least ten days, even if the amount of air taken does not exceed 50 cc. Fluid, if formed in any quantity, is gas-replaced at once. X-ray Examinations are made every second day for the first ten days, as we consider that it is otherwise impossible to assess (1) the amount of effusion, (2) the degree of collapse. Also, one can guard against excessive stripping by high pressures of air. After ten days, we refill them every second day, keeping them under screen control, and gradually increase the interval until five days are reached. We always refill in front, if possible, after the first given on the table; we consider that there is less risk of infecting the patient than when given through the wound. We continue anterior refills throughout the period of after-care.

### CLASS II-COMBINED EXTRA- AND INTRAPLEURAL PNEUMOTHORAX

The technique of the operation is the same until the apex has been separated and the junction between the extra- and intrapleural pneumothoraces seen. These are then broken into one, and the technique is continued as before. The after-care varies greatly from that described above. A refill is given on the table, but another will probably not be necessary for two or three days. Several pictures by portable X-rays are taken as before, and should the lung show any signs of re-expanding, a refill is given at once. After two or three weeks, they once again become ordinary pneumothorax cases as regards refills, and are filled at whatever intervals are necessary, judged by screen control.

It will be noted that we have done nine of this type; every one of them has been a success, though, of course, we cannot as yet describe the ultimate results. We cannot share the opinion of some doctors that this is a dangerous and unsuccessful operation. If a case has had a lower artificial pneumothorax with an adherent apex, we think it quite wrong treatment to allow the lower artificial pneumothorax to obliterate before commencing the extrapleural pneumothorax. The combined case is very much easier to control than the limited extrapleural.

We show a series of X-rays of a case from each class (Cases 1 and II).

### RESULTS.

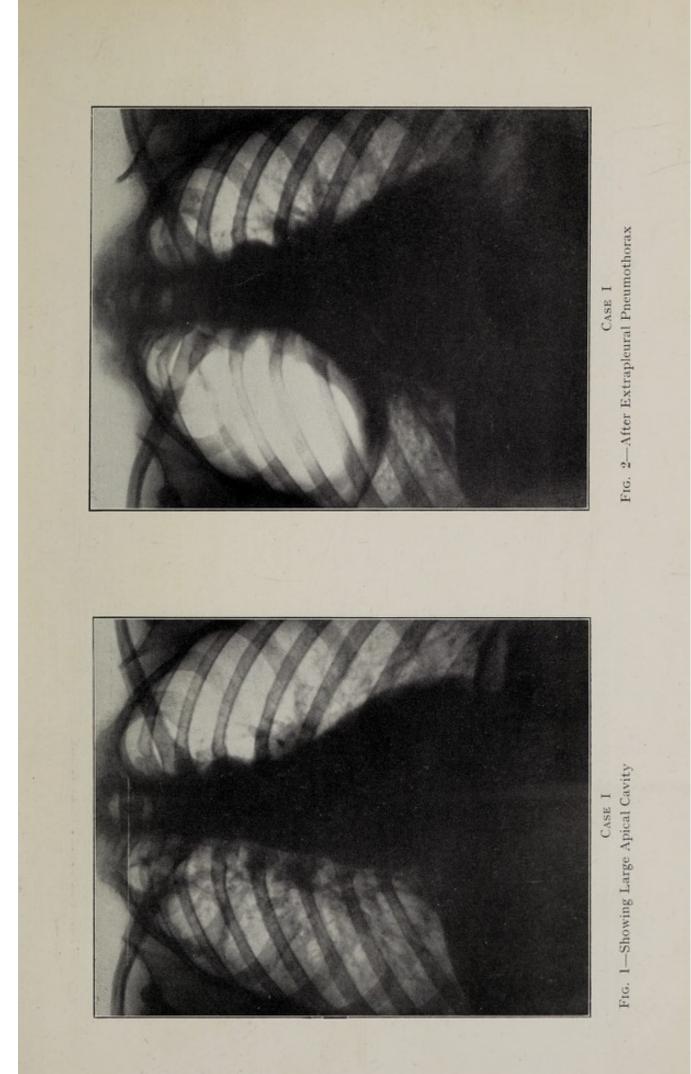
The figures given earlier in this section refer to operations actually performed in the theatre during the year under review, whereas the following tables, showing results, refer to cases discharged from the Sanatorium during this period. As only three extrapleural pneumothorax cases were discharged, we are not showing results of this operation in this Report. We are at present engaged in getting together the statistics of all the operations performed in the theatre, which we hope to publish separately soon. More particulars of after-results will then be available, as we shall have done many more of both classes.

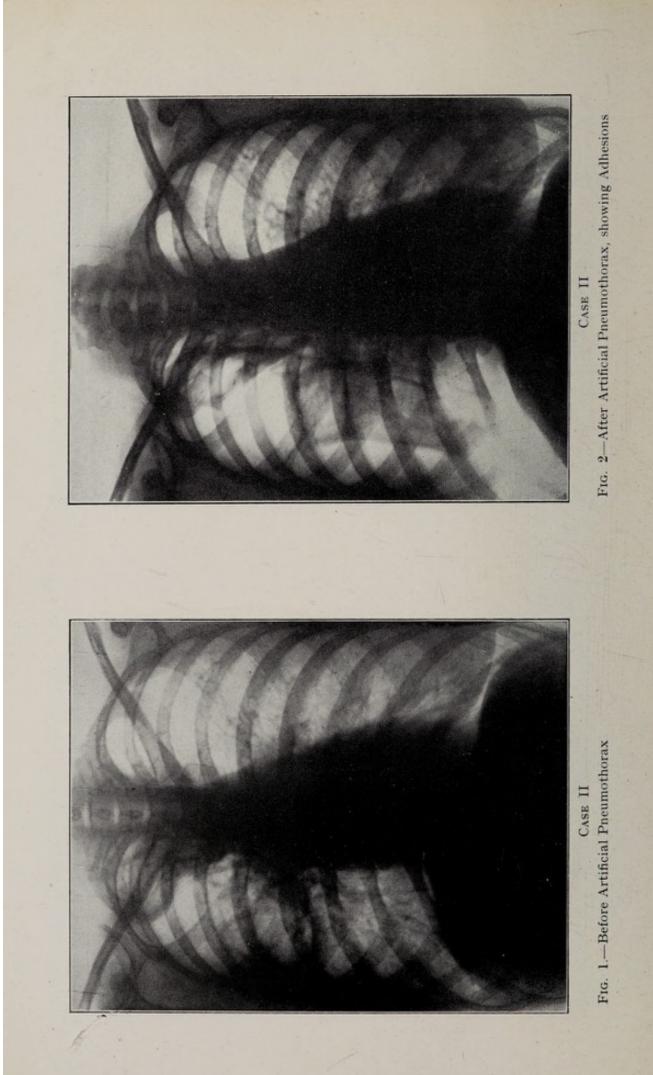
|        | Crown        | Blood Sedime        | entation Rate      | Sp                  | utum               |
|--------|--------------|---------------------|--------------------|---------------------|--------------------|
|        | Group        | Before<br>Operation | After<br>Operation | Before<br>Operation | After<br>Operation |
| THE DO | A CONTRACTOR | Per cent            | Per cent           |                     |                    |
| II     |              | <br>8               | 7                  | T.B. Positive       | T.B. Positive      |
| II     |              | <br>20              | 5                  | No sputum           | No sputum          |
| I      |              | <br>44              | 4                  | T.B. Positive       | T.B. Negative      |
| I      |              | <br>43              | 8                  | T.B. Positive       | T.B. Negative      |
| I      |              | <br>32              | 4                  | T.B. Positive       | T.B. Negative      |
| I      |              | <br>11              | 3                  | T.B. Positive       | T.B. Negative      |
| I      |              | <br>22              | 4                  | T.B. Positive       | T.B. Negative      |
| I      |              | <br>6               | 3                  | T.B. Positive       | T.B. Negative      |
| I      |              | <br>28              | 18                 | T.B. Positive       | T.B. Positive      |
| I      |              | <br>In Sa           | natorium one       | week only           |                    |
| II     |              | <br>25              | 25                 | T.B. Positive       | T.B. Positive      |
| II     |              | <br>53              | 10                 | T.B. Positive       | T.B. Negative      |
| II     |              | <br>8               | 35                 | T.B. Positive       | T.B. Positive      |
| II     |              | <br>40              | 62                 | T.B. Positive       | T.B. Positive      |

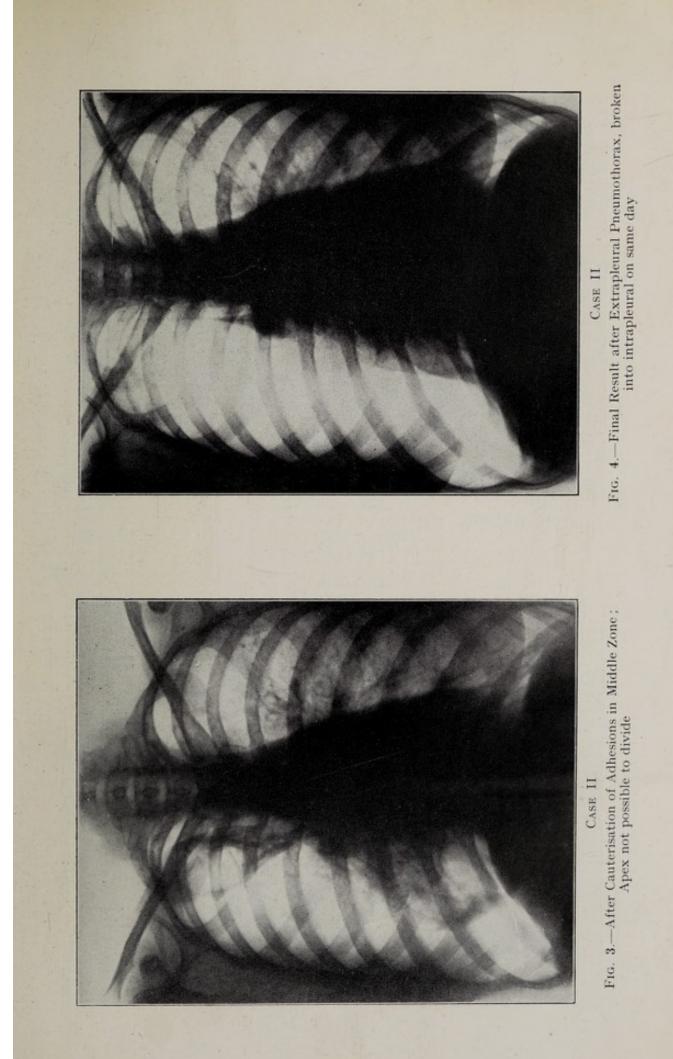
### PHRENIC OPERATIONS

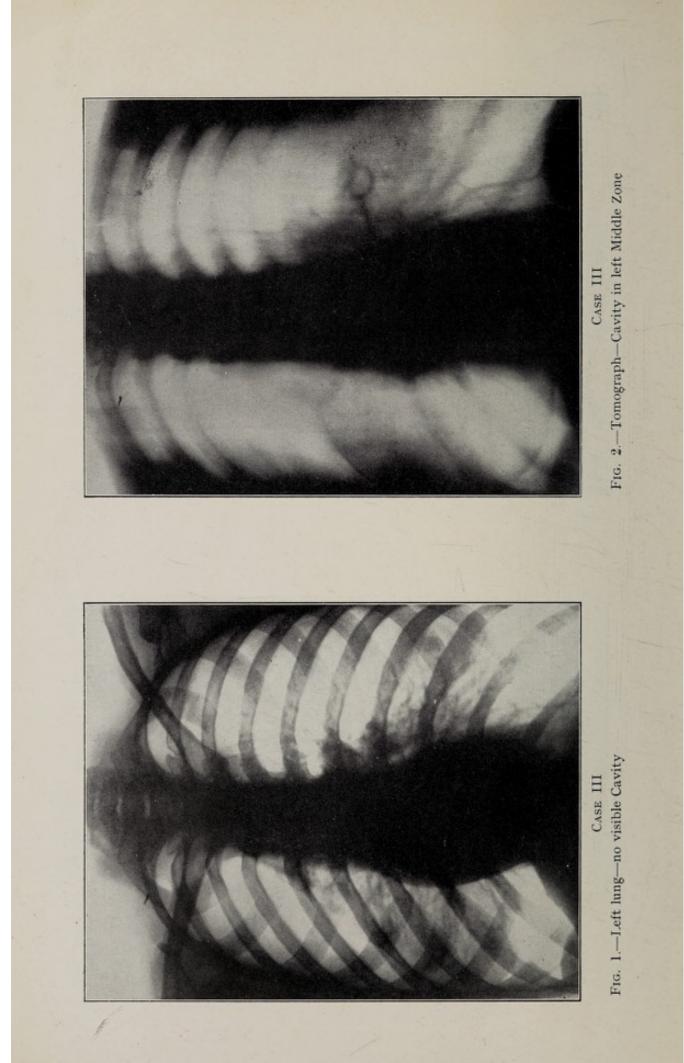
### THORACOPLASTY OPERATIONS

| Gr  | oup | Ble                 | ood<br>tion Rate   | Sputu               | im                 | Working Cap         | oacity             |
|-----|-----|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|
|     |     | Before<br>Operation | After<br>Operation | Before<br>Operation | After<br>Operation | Before<br>Operation | After<br>Operation |
| II  |     | 12                  | 2                  | T.B. Positive       | T.B. Negative      | Up all day          | Full-time work     |
| 11  |     | 8                   | 2                  | T.B. Positive       | T.B. Positive      | Up to lunch and tea | Normal life        |
| п   |     | 6                   | 9                  | T.B. Positive       | T.B. Negative      | In bed              | Normal life        |
| II  |     | 6                   | 1                  | T.B. Positive       | T.B. Positive      | Up all day          | Full-time work     |
| 11  |     | 6                   | 5                  | T.B. Positive       | T.B. Positive      | Up to tea           | Normal life        |
| ш   |     | 47                  | 7                  | T.B. Positive       | T.B. Negative      | Up to tea           | Normal life        |
| III |     | 53                  | 10                 | T.B. Positive       | T.B. Negative      | Up to lunch and tea | Normal quiet life  |









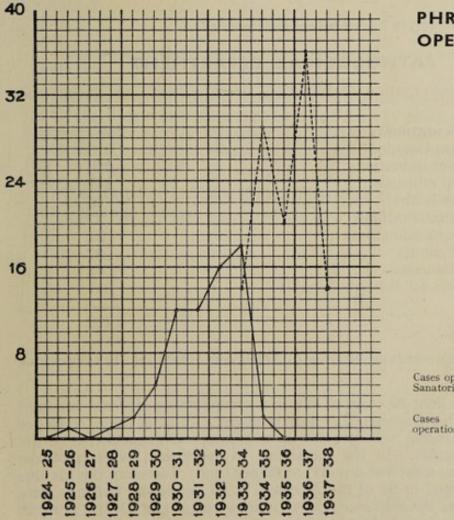
16 38 1929-30 1934-35 1936-36 1928-29 1931 - 32 1932 - 33 40-000 1936-37 18-0581 1 1937

8

### THORACOPLASTY OPERATIONS

Cases operated on in the Sanatorium :

Cases discharged for operation :



### PHRENIC OPERATIONS

. . . . . . . .

Cases operated on in the Sanatorium :

Cases discharged for operation :

The weekly average of routine pictures taken remains about 40, and special pictures are taken as required.

As mentioned in the last Report, a tomograph has been installed. It was built on the premises, and the results obtained have been very satisfactory. While not being required for the majority of cases, its value is unquestionable in certain difficult cases where the presence of a cavity is suspected. We reproduce pictures of a typical case (Case III).

The weekly screening, which we consider essential for the proper control of pneumothorax cases, continues as usual.

### DENTAL DEPARTMENT

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

| Fillings    |     |        |      | <br> | <br>196 |
|-------------|-----|--------|------|------|---------|
| Extractions |     |        |      | <br> | <br>78  |
| Scaling and | Gum | treatn | nent | <br> | <br>26  |
| Dentures    |     |        |      | <br> | <br>5   |
| Repairs     |     |        |      | <br> | <br>15  |
|             |     |        |      |      |         |

### PATHOLOGICAL DEPARTMENT

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

| Sedimentation rates      |         |         | <br> | 2,047             |
|--------------------------|---------|---------|------|-------------------|
| Sputum examinations      |         |         | <br> | 1,916             |
| Urine examinations       |         |         | <br> | 1,696             |
| Pleural effusions.       |         |         | <br> | 141               |
| Throat swabs             |         |         | <br> | 45                |
| Milk examinations        |         |         | <br> | 37                |
| Water examinations       |         |         | <br> | 31                |
| Blood counts             |         |         | <br> | 97                |
| Miscellaneous            |         | · · · · | <br> | 65                |
| Cultures for tubercle ba | acillus |         | <br> | 347               |
|                          |         |         |      | 6,422             |
|                          |         |         |      | The second second |

The total represents an increase of 29 per cent over that of the previous year.

There have been 29 cases of effusions complicating artificial pneumothorax in which specimens have been removed. In 13 of these, or 45 per cent, tubercle bacilli were present on microscopical examination of the centrifuged deposit. In the remaining 16 specimens, cultures of the tubercle bacillus were found in 11, or 69 per cent. Therefore the bacillus was demonstrated in 24 of the 29 cases, or 83 per cent. Cultures were also made from the microscopically positive cases, and all the growths appeared to be of the human type. It is, however, in the examination of sputa that cultural methods would appear to have their greatest use. Throughout the year, Jensen's Modification of Lowenstein's medium has been used. A N/1 solution of oxalic acid has been used to destroy the secondary contaminating organisms, as described in the last Annual Report.

A series of 197 sputa which were negative to microscopical examination were cultured. Positive growths were obtained in 37 of these, or 19 per cent. It should be explained that the majority of the negative specimens in this series are the first which have been produced by patients after a succession of positive microscopical results. In some of these "first negatives," it has been chastening to see the heavy growth produced, and has led to wider and longer searches before a specimen is passed as free from tubercle bacilli.

The disadvantage of cultural examinations is the length of time before growth is apparent, and work is now proceeding to discover the simplest methods of producing the optimum conditions. Novy and Soule have shown that a plentiful supply of oxygen is necessary for a luxuriant growth in a human strain. It is proposed to culture the bacillus from sputum, pleural effusions, etc., under varying concentrations of oxygen and carbon dioxide to discover which will give the quickest growth.

### 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 6,984. 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 about whom no information could be obtained number 389 or 5.6 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

| tdais tac<br>8561 n                             |                          | 5       | 9       | 10      | -       | -       | 12      | 67      | -       | 2       | 9       | 9       | 12      | 10      | 10      | 9       | 4       | 61      | 4       | 4       |         | 5       | 0 0      | 10      | 10      | 6       | 15      | 4       | 63      | 1       | 1       |  |
|---|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|--|
| 1938<br>set Dead                                |                          | 66      | 161     | 165     | 156     | 169     | 163     | 131     | 145     | 158     | 129     | 157     | 130     | 131     | 137     | 134     | 136     | 121     | 122     | 86      | 20      | 00      | 200      | 12      | 55      | 52      | 47      | 39      | 37      | 19      | 10      |  |
| 1   | 1938                     | 21      | 39      | 35      | 29      | 21      | 23      | 27      | 25      | 30      | 19      | 49      | 42      | 57      | 54      | 57      | 36      | 42      | 40      | 38      | 4       | 29      | 54       | 13      | 69      | 64      | 79      | 57      | 79      | 96      | 93      |  |
|   | 1937                     | 23      | 39      | 36      | 33      | 22      | 25      | 27      | 25      | 31      | 20      | 50      | 46      | 60      | 57      | 59      | 39      | 43      | 42      | 41      | 44      | 23      | 00       | 83      | 76      | 78      | 98      | 68      | 91      | 102     | 1       |  |
|   | 1936                     | 25      | 40      | 36      | 33      | 22      | 27      | 29      | 28      | 34      | 21      | 51      | 47      | 60      | 60      | 60      | 42      | 47      | 46      | 42      | 46      | *L      | 80       | 88      | 18      | 81      | 101     | 76      | 102     | 1       | 1       |  |
|   | 1935                     | 25      | 40      | 38      | 33      | 22      | 27      | 29      | 30      | 38      | 23      | 53      | 48      | 65      | 61      | 62      | 45      | 49      | 49      | 44      | 48      | 15      | 20       | 8       | 88      | 86      | 112     | 84      | 1       | 1       | 1       |  |
| rge   | 1934                     | 26      | 40      | 38      | 34      | 25      | 28      | 29      | 35      | 39      | 25      | 57      | 48      | 68      | 61      | 64      | 47      | 52      | 53      | 46      | 53      | 16      | 00       | 103     | 104     | 16      | 119     | 1       | 1       | 1       | 1       |  |
| Alive " in each successive year after Discharge | 1933                     | 26      | 40      | 39      | 34      | 29      | 28      | 29      | 35      | 40      | 26      | 60      | 50      | 11      | 62      | 65      | 49      | 54      | 59      | 49      | 61      | 201     | # CE     | 112     | 118     | 116     | 1       | 1       | 1       | 1       | 1       |  |
| ter D   | 1932                     | 28      | 41      | 39      | 35      | 29      | 30      | 29      | 37      | 41      | 26      | 63      | 51      | 74      | 68      | 69      | 51      | 60      | 63      | 52      | 62      | 68      | 20       | 194     | 124     | 1       | 1       | 1       | 1       | 1       | 1       |  |
| ar aft  | 1931                     | 28      | 41      | 41      | 36      | 59      | 31      | 32      | 37      | 42      | 28      | 64      | 52      | 78      | 2       | 20      | 51      | 63      | 65      | 60      | 67      | 96      | **       | 136     |         | 1       | 1       | 1       | 1       | 1       | 1       |  |
| ve ye   | 1930                     | 29      | 42      | 11      | 37      | 31      | 31      | 33      | 37      | 44      | 29      | 65      | 54      | 19      | 72      | 73      | 53      | 67      | 73      | 66      | 13      | 101     | 104      |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| cessi   | 1929                     | 20      | \$      | 42      | 39      | 32      | 31      | 33      | 38      | 45      | 30      | 67      | 58      | 81      | 74      | 73      | 62      | 74      | 81      | 12      | 8       | 109     | 103      |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| h suc   | 1928                     | 30      | 44      | 43      | 42      | 35      | 32      | 33      | 43      | 49      | 33      | 69      | 62      | 84      | 81      | 74      | 69      | 80      | 16      | 19      | 88      | 115     |          |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| n eac   | 1927                     | 30      | 46      | 45      | 43      | 36      | 33      | 35      | 43      | 53      | 35      | 73      | 64      | 86      | 85      | 81      | 76      | 88      | 66      | 8       | 67      | 1       |          |         | i       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| re '' i   | 1926                     | 31      | 50      | 45      | 47      | 38      | 34      | 35      | 46      | 55      | 35      | 74      | 62      | 92      | 16      | 88      | 92      | 100     | 112     | 106     | 1       | 1       | 1        |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| " Aliv  | 1925                     | 33      | 52      | 17      | 48      | 39      | 40      | 40      | 47      | 61      | 38      | 64      | 20      | 66      | 100     | 96      | 111     | 114     | 124     | 1       | I       | 1       | 1        |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| " or  | 1924                     | 34      | 55      | 48      | 49      | 44      | 43      | 42      | 49      | 61      | 41      | 19      | 69      | 102     | 110     | 116     | 127     | 135     | 1       | 1       | 1       | I       | 1        |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| Well  | 1923                     | 34      | 54      | 48      | 51      | 47      | 44      | 45      | 55      | 68      | 48      | 89      | 80      | 112     | 126     | 141     | 150     | 1       | 1       | 1       | 1       | 1       |          |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
|   | 1922                     | 36      | 54      | 52      | 53      | 47      | .46     | 48      | 60      | 12      | 51      | 66      | 82      | 121     | 140     | 156     | 1       | 1       | 1       | 1       | 1       | 1       |          |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| eport   | 1921                     | 34      | 58      | 55      | 56      | 48      | 50      | 49      | 68      | 75      | 57      | 105     | 95      | 136     | 165     | 1       | 1       | 1       | 1       | 1       | 1       | 1       |          |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| Number reported "                               | 1920                     | 39      | 69      | 56      | 61      | 56      | 54      | 52      | 75      | 83      | 65      | 116     | 115     | 165     | 1       | 1       |         |         | 1       | 1       | 1       | 1       |          | 1       | 1       | 1       | 1       | 1       | I       | 1       | 1       |  |
| Num   | 1918 1919 1920 1921 192  | 38      | 63      | 60      | 60      | 61      | 55      | 40      | 75      | 83      | 68      | 127     | 118     |         | 1       | 1       | 1       | 1       |         | 1       | 1       | 1       |          | - 1     | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
|   | 1918                     | 42      | 12      | 62      | 69      | 69      | 68      | 167     | 82      | 104     | 93      | 166     | 1       | 1       |         |         | 1       | 1       |         | 1       | 1       | 1       |          | 1       | 1       | 1       | 1       | 1       | 1       | 1       | L       |  |
|   | 161 9                    | 42      |         |         |         |         |         | -       |         | -       |         | 1       | 1       | 1       | 1       |         | 1       | 1       | 1       | 1       |         | !       |          | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
|   | 1916                     | 46      | 20      | 64      | 73      | 73      | 76      | 78      | 84      | 123     | 1       | 1       | 1       | 1       |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |          | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
|   | 1915                     | 47      | 20      | 55      | 69      | 74      | 81      | 94      | 118     | i       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |         | 1       | 1       |         | 1       | 1        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
|   | 1913 1914 1915 1916 1917 | 38      | 13      | 64      | 75      | 88      | 95      | 113     | 1       | 1       | -       | 1       |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |          | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
|   |                          | 42      | 1       | 20      | 90      | 92      | 111     | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |          | 1       | .1      | 1       | 1       | 1       | 1       | 1       |         |  |
|   | 1908                     | 370     | 484     | 365     | 250     | 133     | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1        | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |  |
| psrged<br>mber                                  |                          | 125     | 206     | 205     | 192     | 197     | 198     | 160     | 177     | 193     | 154     | 212     | 184     | 198     | 196     | 197     | 176     | 165     | 166     | 128     | 114     | 127     | 121      | 155     | 134     | 125     | 141     | 100     | 118     | 115     | 103     |  |
| Year<br>of                                      | Dis-<br>charge           | 1906/07 | 1907/08 | 1908/09 | 1909/10 | 11/0161 | 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 | 1926/27 | 1096 /90 | 1929/30 | 1930/31 | 1931/32 | 1932/33 | 1933/34 | 1934/35 | 1935/36 | 1936/37 |  |

TABLE A2.—STATISTICS OF ULTIMATE RESULTS

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

Group I considered separately

|                                      | No. lost<br>ni lo   | 0101 - 1001 - 1001 - 100  |
|--------------------------------------|---|---|
|                                      | Number  | 22222222222222222222222222222222222222  |
| 1                                    | 1938  | 1888 8 1 1 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2  |
|                                      | 1937  | 8911381334614644644644644646464646464646464646  |
|                                      | 1936  | 01138131919191919191919191919191919191919   |
|                                      | 1935  | 1138 128 138 132 132 132 132 132 133 132 138 159 159 159 159 159 159 159 159 159 159  |
|                                      | 1934  | 222<br>115<br>115<br>115<br>115<br>115<br>115<br>115<br>115<br>115  |
| e                                    | 1933  |   |
| charg                                | 1932  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   |
| r Dis                                | 1931  | 1212886025288602555558888888888888888888888   |
| each successive year after Discharge | 1930  | 11111111111111111111111111111111111111  |
| e yea                                | 1929  | 52247209 9 8 6 0 1 1 0 8 6 8 8 8 2 1 9 8 9 8 9 8 1 9 8 9 8 9 8 1 9 8 9 8 9  |
| essiv                                | 1928  | 1281128200001991002667861181  |
| succ                                 | 1927  |   |
| each                                 | 1926  | 22222200202022222222222   |
| e" in                                | 1925  | 44523223 001100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |
| Alive                                | 1924  | 4915128121011012822223286 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
| or "                                 | 1923  | 4922888318118118118118188882  |
| Vell '                               | 1922  | 284888288212812828482   |
| 1 P                                  | 1921  | 4248888888111891111111111111111111111111  |
| porte                                | 1920  | 8842235767101111111111111111111111111111111111  |
| Number reported " Well               | 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922   | 222288226712121212882222  |
| Numl                                 | 1918  | 8828886919797877  |
|                                      | 1012  | 322<br>322<br>322<br>322<br>322<br>322<br>322<br>322<br>322<br>322  |
|                                      | 2 1910  |   |
|                                      | 4 191   | 1288282<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>12882<br>10<br>10<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 |
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|                                      | and the second se | 51255 <b>2 2 1 1 1 1 1 1 1 1 1 1</b>  |
| nygun                                | 1908  |   |
| arged                                |   | $\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & \\$  |
| Year                                 | Dis-<br>charge  | $\begin{array}{c} 1906/07\\ 1906/07\\ 1906/09\\ 1906/09\\ 1906/10\\ 1906/10\\ 1906/10\\ 1916/16\\ 1916/17\\ 1918/19\\ 1918/19\\ 1918/19\\ 1918/19\\ 1922/23\\ 192/23\\ 1$  |

|                       |                                 | No. lost<br>of in                                | 00 00 4 01 10 00 - 10 01 01 4 00 10 - 01 - 1 - 01 4 10 10 10 00 00 00 01 01  |
|-----------------------|---------------------------------|--|--|
|                       |                                 | Number   | 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |
|                       |                                 | 1938   | $\begin{array}{c} 110\\ 112\\ 112\\ 112\\ 112\\ 122\\ 122\\ 122\\$   |
|                       |                                 | 1937   | 11<br>11<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>1  |
|                       |                                 | 1936   | 25321955554555155558833338 ° 517255555   |
|                       |                                 | 1935   | 22222222222222222222222222222222222222   |
|                       |                                 | 1934   |  |
|                       | harge                           | 1933   | 112<br>213<br>213<br>213<br>213<br>213<br>213<br>213<br>213<br>213   |
|                       | Disc                            | 1932   | $\begin{array}{c} 113\\ 122\\ 122\\ 123\\ 123\\ 123\\ 123\\ 123\\$   |
|                       | after                           | 1931   | $\begin{array}{c} 113\\ 224\\ 224\\ 224\\ 228\\ 233\\ 333\\ 333\\ 333\\ 333\\ 333\\ 333$   |
|                       | successive year after Discharge | 1929 1930 1931                                   | 114           117  |
|                       | ssive                           | 1929   | 114<br>118<br>118<br>118<br>119<br>119<br>119<br>119<br>119<br>119<br>119  |
| ately                 | succe                           | 1928   | 115<br>115<br>115<br>115<br>115<br>115<br>115<br>115<br>115<br>115   |
| para                  | in each                         | 1925 1926 1927                                   | 11         12<   |
| ed se                 | " in                            | 1926   |  |
| considered separately | Alive "                         | 1925   | 231 252 253 252 253 253 253 254 254 254 255 255 255 255 255 255 255  |
| con                   | OT ",                           | 1924   | 22222222222222222222222222222222222222   |
| II di                 | . IIa                           | 2 1923   | L88888644866448644444444444444444444444  |
| Group                 | M                               | 1925   | 22222222222222222222222222222222222222   |
|                       | orted                           | 192]   |  |
| •                     | Number reported                 | 9 192(   | 222222222222222222222222222222222222222  |
|                       | umbe                            | 8 191  | 233222232222222222222222222222222222222  |
|                       | Z                               | 161 2  | C1 55 55 55 55 55 55 55 55 55 55 55 55 55  |
|                       |                                 | 6 191  | 81 82 64 88 82 64 66 64 64 64 64 64 64 64 64 64 64 64  |
|                       |                                 | 5 191  |  |
|                       |                                 | 4 191  |  |
|                       |                                 | 1913 1914 1915 1916 1917 1918 1919 1920 1921 192 |  |
|                       |                                 | 2 19]  | 22 22 22 24 24 29 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
|                       | ngea                            | Discha   |  |
|                       |                                 | unN  | 57         99           99         99           99         99           99         99           99         99           99         99           99         99           99         99           99         99           99         99           99         99           99         99           99         99           99         99           99         99           99         99           99         98           99         98           99         98           99         98           99         98           99         98           99         98           98         98           98         98           98         98           98         98           98         98           98         98           98         98           98         98           98         98           98         98           98         98           98         <   |
|                       | Year                            | Dis-<br>charge                                   | $\begin{array}{c} 1906/07\\ 1906/07\\ 1907/08\\ 1907/08\\ 1907/08\\ 1910/11\\ 1910/11\\ 1911/12\\ 1915/16\\ 1918/19\\ 1918/19\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1923/33\\ 1923/33\\ 1932/33\\ 1933/336\\ 1936/37\\ 1906/37\\ 1006/37\\ 1006$ |

TABLE A3.—STATISTICS OF ULTIMATE RESULTS

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

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

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| daie teol<br>8661 ni 1                           |                               | <sup>3</sup> -  <sup>2</sup> <sup>4</sup> <sup>2</sup> <sup>2</sup> - <sup>3</sup>   <sup>3</sup> <sup>2</sup> <sup>2</sup> <sup>3</sup> -  -4   |
| n 1938<br>Der Dea                                | unN                           | 881222222112322222222222222222222222222  |
|  | 1938                          | 10 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |
|  | 1937                          | 18:11:32:22:22:22:22:22:22:22:22:22:22:22:22:  |
|  | 1936                          |  |
|  | 1935 1936                     | 1 8 8 8 8 8 8 8 9 9 9 1 1 1 5 4 4 4 8 8 8 4 1 1 1 1 1 5 4 4 4 8 8 8 4 1 1 1 1 1 5 4 4 4 8 8 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1  |
| -  | 1934                          | 2 5 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1  |
| urge   | 1933 1934                     | 530 8 51 5 5 5 1 1 8 8 9 8 9 1 1 3 8 5 3 1 1 1 3 8 5 3 1 1 1 3 8 5 3 1 1 3 8 5 3 1 1 3 8 5 3 1 1 1 3 8 5 3 1 1 3 8 5 3 1 1 1 3 8 5 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   |
| ischa  | 1932                          | 8 6 6 1 6 1 1 4 9 6 6 0 0 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8  |
| ter D  |                               | 8 8 8 8 8 9 9 9 0 0 0 0 0 0 0 0 0 0 0 0  |
| ear af   | 1930 1                        | 88811235555555555555555<br>11235555555555555555555<br>1123555555555555<br>112355555555<br>112355555<br>11235555<br>1123555<br>1123555<br>1123555<br>1123555<br>1123555<br>1123555<br>112355<br>112355<br>11235<br>11235<br>11235<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>11255<br>1125 |
| Alive '' in each successive year after Discharge | 1929 1930 1931                | 8 8 8 1 8 1 7 4 9 9 1 1 0 0 1 1 0 0 8 7 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3  |
| ccess  |                               | 1 1 1 1 1 2 3 5 2 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5  |
| ch su  | 1927 1928                     | 22222222222222222222222222222222222222   |
| in ea  | 1926                          | ° 4 ° 1 ° ° 1 ° ° ° ° ° ° ° ° ° ° ° ° °  |
| 've ''   | 1925                          | 65833331110000000000000000000000000000000  |
| :  | 1924                          | 8 10 4 61 82 80 4 11 11 11 11 11 11 11 11 11 11 11 11 1  |
| " or   | 1923                          | 8 2 4 8 8 8 2 2 3 3 3 0 4 1 1 2 3 3 3 0 4 1 2 2 3 3 3 0 4 1 1 2 3 2 3 3 3 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
| Number reported " Well                           | 1922                          | 4 2 1 4 2 4 2 1 2 3 3 2 3 4 2 2 4 2 2 3 2 3 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 4 2 4  |
| ted "  | 1921                          | ∞ ∞ ∞ 4 ∞ ∞ ∞ 0 1 1 3 4 5 5 1 1 1 1 1 1 1 1 1 1 1 0 ∞ 0 2 1 3 2 5 5 2 3 4 ∞ 0 2 3 3 4 ∞ 0 2 3 3 4 ∞ 0 2 3 3 4 ∞ 0 2 3 3 4 ∞ 0  |
| repor  | 1920                          | 4 L 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |
| nber   | 1919                          | 41-1042042555551   |
| Nun  | 1918                          | 223 30 31 15 17 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
|  | 1917                          | 1111 111 111 111 111 111 111 111 111 1   |
|  | 1916                          | 1      |
|  | 1913 1914 1915 1916 1917 1918 | 1000 1000 1000 1000 1000 1000 1000 100   |
|  | 1914                          | 9 2 2 2 8 2 2 3  |
|  | 1913                          | 221222000  |
|  | 1908                          | 102 202 202 202 202 202 202 202 202 202  |
| uper<br>arged                                    | Disch<br>Nun                  | $\begin{array}{c} 38\\ 33\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55$  |
| Year   | Dis.<br>charge                | $\begin{array}{c} 1906/07\\ 1906/07\\ 1908/09\\ 1908/09\\ 1908/09\\ 1908/09\\ 1910/11\\ 1911/12\\ 1915/16\\ 1913/14\\ 1913/14\\ 1918/19\\ 1921/22\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1922/23\\ 1923/33\\ 1923/33\\ 1932/33\\ 1932/35\\ 1932/$   |
| -  |                               |  |

TABLE A5.—STATISTICS OF ULTIMATE RESULTS

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

All cases considered together

\*

| SEGI U                                  |                          | 9      | 8       | -      | -      | -      | - 10   | 1      | . 6    | -1     | . 6    | 9      | 00     | 15      | -      | 9      | 0       | 61     | 9      | -      | 6       | +      | 9      | 6      | 1      | 20      | -      | 10      | 3      | 57     | 33      | 1      |
|---|--------------------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|---------|--------|--------|---------|--------|
| ster sight                              |                          |        | -       | -      | -      | -      | -      | -      | -      | _      |        | -      |        | _       | _      |        | -       | -      | -      | -      | _       | -      | -      | -      | -      | -       | -      | _       | -      | _      | _       |        |
| bes Dead                                | quinN                    |        | 21      | 61     | 5      | 1-     | 20     | -      |        | -      | 6      | -      | 3      | 27      | 5      |        | 21      | 18     | 1      | Ĭ      | =       | Ĭ      | 14     | H      | -      |         | -      | -       | 1      | Ĭ      |         | 4      |
|   | 1938                     | 6      | 19      | 31     | 28     | 66     | 53     | 16     | 53     | 12     | 28     | 37     | 75     | 17      | 51     | 53     | 59      | 31     | 44     | 55     | 20      | 27     | 35     | 34     | 28     | 32      | 50     | 45      | 69     | 11     | 70      | 74     |
|   | 1937                     | Ш      | 22      | 32     | 58     | 94     | 54     | 10     | 96     | 16     | 31     | 1      | 78     | 82      | 54     | 54     | 60      | 33     | 47     | 58     | 53      | 31     | 40     | 39     | 29     | 36      | 55     | 51      | 74     | 80     | 74      | 1      |
|   | 1936                     | П      | 24      | 32     | 86     | 55     | 10     | 19     | 10     |        | 32     | 41     | 18     | 84      | 55     | 55     | 63      | 34     | 20     | 58     | 54      | 33     | 40     | 41     | 30     | 37      | 56     | 51      | 76     | 81     | 1       | 1      |
|   | 1935                     | 12     | 24      | 33     | 59     | 26     | 10     | 06     | 86     | 1      | 33     | ÷      | 18     | 85      | 57     | 55     | 64      | 34     | 50     | 58     | 54      | 34     | 42     | 43     | 30     | 38      | 57     | 54      | 83     | 1      | 1       | 1      |
|   | 1934 1935                | 15     | 24      | 36     | 31     | 96     | 54     | 06     | 00     | 2      | 35     | 4      | 83     | 87      | 58     | 00     | 67      | 34     | 52     | 50     | 57      | 34     | 44     | 46     | 31     | 38      | 58     | 53      | 1      | 1      | i       | 1      |
| harge                                   | 1933                     | 16     | 27      | 36     | 34     | 96     | 10     | 06     | 200    |        | 36     | 44     | 84     | 92      | 59     | 61     | 68      | 35     | 52     | 59     | 69      | 36     | 46     | 47     | 33     | 42      | 62     | 1       | 1      | 1      | 1       | 1      |
| Discl                                   | 1932 1                   | 16     | 28      | 38     | 35     | 86     | 26     | 16     | 30     | 06     | 30     | 45     | 85     | 92      | 61     | 62     | 11      | 35     | 53     | 00     | 8       | 36     | 47     | 48     | 33     | 43      | 1      | 1       | 1      | 1      | 1       | 1      |
| ufter                                   | 1931                     | 15     | 29      | 38     | 322    | 30     | 92     | 66     | 100    | - 06   | 10     | 47     | 68     | 96      | 61     | 63     | 73      | 35     | 55     | 60     | 19      | 39     | 50     | 50     | 33     | 1       | 1      | 1       | 1      | 1      | 1       | 1      |
| in each successive year after Discharge | 1930 1                   |        |         |        | 199    |        |        |        |        |        | 200    |        |        | 96      |        |        | - 7     |        |        |        | Lun V   |        |        | -      | 1      | 1       | 1      | 1       | 1      | 1      | 1       | 1      |
| sive )                                  | 1929 1                   | -      |         |        |        |        |        |        |        |        |        | 1      |        | 66      |        |        | -       |        |        |        |         |        |        | 1      | 1      | -       | -      | 1       | 1      | 1      | 1       | 1      |
| licces                                  | 1928 19                  | -      |         | -      |        | _      |        |        | _      |        | _      | -      | _      | 66      | _      | -      | _       | _      | -      | _      | _       | _      | -      | -      | -      | -       | 1      | -       | -      | -      | 1       | 1      |
| tch st                                  | 1927 19                  |        |         | -      | -      | _      |        |        |        |        |        |        |        | 3 10    | -      |        |         |        |        |        |         | -      | L      | -      | -      | -       | 1      | -       | 1      | -      | -       | L      |
|   | 1926 19                  |        |         |        |        |        |        |        |        |        | -      |        |        | 02 10   |        |        |         | 1      | -      |        | -       | -      | -      | -      | -      | 1       | 1      | -       | 1      | 1      | 1       | -      |
| Alive "                                 | 1925 19                  |        |         |        | -      | -      | 1.5    |        |        | -      | -      | -      | 1000   | 03 10   | -      |        |         | 597    |        | -      | 1       | -      | L      | -      | 1      | 1       | 1      | 1       | 1      | -      | -       | -      |
| :                                       | 1924 19                  | -      |         |        |        |        |        | -      | -      |        |        | -      |        | 04 10   |        | -      |         | -      | -      | -      | 1       | L      | 1      | -      | -      | -       | -      | -       | -      | 1      | -       | 1      |
| " or                                    | 923 19                   |        |         |        |        | -      |        |        |        |        |        |        | -      | -       |        |        |         | 1      | 1      | -      | 1       | -      | 1      | -      | 1      | 1       | 1      | 1       | 1      | -      | -       | -      |
| Well                                    | - 1                      | -      | -       |        | -      | -      |        |        | 0.00   | -      | -      | _      |        | 9 107   | -      |        |         | -      | 1      | 1      | 1       | L      | -      | 1      | 1      | 1       | 1      | 1       | 1      | 1      | 1       | 1      |
| " bed                                   | 21 19                    | -      | -       |        | _      |        |        |        | -      | _      |        |        | -      | 2 109   | _      |        | 1       | 1      | 1      | 1      | 1       | 1      | 1      | 1      | 1      | 1       | 1      | 1       | 1      | 1      | -       | 1      |
| eport                                   | 20 19.                   |        |         | -      | -      |        |        |        | -      | -      |        |        | -      | 5 112   |        | 1      | 1       | 1      | 1      | 1      | 1       | 1      | 1      | 1      | 1      | 1       | 1      | 1       | 1      | 1      | -       | 1      |
| Number reported " W                     | 1918 1919 1920 1921 1922 |        |         | 199.00 | 230    | -      |        |        | 88.2   | -      | 0.0    | 1940   |        | - 115   | 1      | 1      | 1       | 1      | 1      | 1      | 1       | 1      | 1      | 1      | 1      | 1       | 1      | -       | 1      | 1      | 1       | 1      |
| Num                                     | 8 191                    |        | -       |        |        |        | _      |        | -      |        | -      |        | - 108  | 1       | 1      | 1      | 1       | 1      | 1      | 1      | 1       | 1      | 1      | -      | 1      | 1       | 1      | 1       | 1      | 1      | -       | -      |
| -                                       |                          | 21     |         | 123    | 2      |        |        |        |        |        |        |        | 1      | 1       | 1      | 1      | 1       | -      | -      | 1      | 1       | 1      | 1      | 1      | 1      | 1       | 1      | 1       | 1      | 1      | 1       | 1      |
| -                                       | 6 191                    | 19     | -       | -      | -      | -      | -      | -      | -      | -      |        |        | 1      | 1       | 1      | 1      | 1       | -      | -      | 1      | 1       | 1      | 1      | 1      | 1      | -       | 1      | 1       | -      | 1      | 1       | 1      |
| _                                       | 1914 1915 1916 1917      | 18     |         |        |        |        |        |        |        |        |        | 1      | 1      | 1       | 1      | 1      | 1       |        | 1      | 1      | 1       | 1      | 1      | 1      | -      | 1       | 1      | -       | 1      | 1      | 1       | 1      |
| _                                       | 4 191.                   | 16     |         | -      | -      | 2      |        |        |        | :      | 1      | 1      |        | 1       | 1      | 1      |         | 1      | 1      | 1      |         | 1      | 1      | 1      | 1      | 1       | 1      | -       | 1      | 1      | 1       | 1      |
| _                                       | 191                      | 14     | 34      | 47     | 48     | 38     | 32     | 06     | :      | 1      | 1      | 1      | 1      | 1       | 1      | 1      | 1       |        | i      | 1      | 1       | 1      | 1      | 1      | 1      | 1       | 1      | 1       | 1      | 1      | 1       | 1      |
|   | 1913                     | 15     | 33      | 33     | 44     | 39     | 36     | 3      |        | 1      | 1      | 1      | 1      | 1       | 1      | 1      | 1       | 1      | 1      | 1      | 1       |        | 1      | 1      | 1      | 1       | 1      | 1       | 1      | 1      | 1       | 1      |
|   | 1908                     | 66     | 181     | 143    | 103    | 42     | 1      | 1      | 1      | 1      | 1      |        | 1      | 1       | 1      | 1      | 1       | 1      | 1      | 1      | 1       | 1      | 1      | 1      | 1      | 1       | 1      | 1       | 1      | 1      | 1       | 1      |
| cpsrged<br>unber                        |                          | 24     | 51      | 66     | 59     | 48     | 48     | 31     | 41     | 35     | 69     | 58     | 117    | 119     | 78     | 66     | 93      | 51     | 68     | 72     | 20      | 41     | 55     | 53     | 35     | 44      | 64     | 56      | 88     | .83    | 75      | 18     |
| Year<br>of<br>Dis-                      | charge.                  | 10/906 | 1907/08 | 908/09 | 01/606 | 11/016 | 61/110 | 019/13 | 013/14 | 914/15 | 915/16 | 916/17 | 917/18 | 1918/19 | 919/20 | 920/21 | 1921/22 | 922/23 | 923/24 | 924/25 | 1925/26 | 926/27 | 927/28 | 928/29 | 929/30 | 1930/31 | 931/32 | 1932/33 | 933/34 | 934/35 | 1935/36 | 936/37 |

TABLE A6.—STATISTICS OF ULTIMATE RESULTS

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

| tdäis tao<br>8691 n             |  | 4       | 10      |         |         | 6       | 10      |         | 0       | 0.0     | 0       | 10      | 8       | 6.      | 1 12    |         | 0 1     | •••     | 0.       |          | -       | 4       | 10      | -       | 3       | 4              | x       | -       | 4       | 4       | 00      |         |         | -       |         |   |
|---------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|---------|---------|---------|---------|---------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| 1938<br>Set Desd                |  | 4       | 12      | TI      |         | II      | 12      | -       | · r     |         | +       | 10      | 9       | a       | 0 40    |         | 0       | 21      | 0        | 0        | 10      | 00      | 20      | 67      | 10      | 8              | 00      | -       | 1       |         | -       |         |         |         | •       |   |
|                                 | 1938   | 8       | 14      | 10      | 00      | 22      | 20      | 19      | 0       | 0       | 2       | -       | 20      | 94      | 1       | 00      | 207     | 200     | 200      | 200      | 47      | 31      | 39      | 35      | 17      | 23             | 21      | 18      | 16      | 31      | 23      | P6      | 10      | 00      | 107     |   |
|                                 | 1937   |         | -       | -       | -       | -       |         | -       | -       | -       | -       | -       |         | 1       |         | -       |         | 10      |          | -        |         | -       | -       |         | -       |                | -       | -       | -       | -       |         | -       |         | -       | -       |   |
|                                 | 1936 1                                       | -       |         |         |         |         | -       | -       | -       | -       | -       |         | -       | -       |         | -       | -       | 10      |          |          | -       | -       | -       | -       |         | -              | -       |         | -       |         | -       |         | -       | -       |         |   |
|                                 | 1935 19                                      |         |         |         |         |         |         |         |         | -       |         |         |         |         |         |         |         | 00      |          |          |         |         |         | -       |         |                |         |         |         |         |         |         |         |         |         | - |
|                                 | 1934 19                                      | -       | -       |         | -       |         | -       |         | -       | -       |         | -       | -       | -       | -       |         |         | 0 4     |          |          |         |         |         |         | 10.00   |                |         |         |         | -       | -       | -       |         |         |         |   |
| ge                              | 933 19                                       |         | -       | -       | -       | -       | 4       | -       | -       | -       |         | -       | -       | -       | -       |         | -       | 477 47  | -        | -        | -       | -       | -       | -       | -       | 30 2           |         | -       | -       | -       |         |         | -       |         |         | _ |
| schar                           | 932 19                                       |         | -       |         |         |         |         |         |         |         |         | -       | -       | -       | -       |         | -       |         |          |          | 1       |         |         | -       |         | 69979<br>76.93 |         |         |         |         | -       |         | -       |         | -       |   |
| r Dis                           | Acres and a second                           | -       | 1.2     |         |         | -       |         |         |         | -       |         |         |         | -       |         |         |         | 11 11   |          |          | -       |         |         |         | 10.0    | 3 31           |         |         |         | 1       | 1       |         | -       |         | -       |   |
| r afte                          | 30 1931                                      |         | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       | -       |         | -        | -        | _       | -       | _       | -       | -       | -              | -       | -       | -       | 1       | -       |         |         |         | -       |   |
| yea.                            | 29 1930                                      |         |         |         |         |         |         |         |         |         | 200     |         |         | -       | -       |         |         |         |          |          | -       | _       |         | -       |         |                |         | 1       | 1       | 1       | 1       | -       | -       |         | -       |   |
| successive year after Discharge | 8 1929                                       |         |         |         |         |         |         |         |         | -       |         | -       |         |         | 200     |         |         | 1 H H   |          |          |         |         |         | -00     |         | 35             | 1       | 1       | 1       | -       | 1       |         | -       | -       | -       |   |
| succe                           | 7 1928                                       |         |         |         |         |         |         |         | -       | -       |         | -       | -       |         |         |         |         | 12      |          |          |         |         |         | 43      | 24      | 1              |         | 1       |         |         | 1       | 1       |         | 1       | 1       |   |
| each                            | 6 192'                                       | 1       | 1750    | -       | -       |         |         | 1       | 0.10    |         |         | -       |         |         |         |         | 5-35    | 14      |          | _        |         |         | 46      | +3      | 1       | 1              | i       | i       |         |         | 1       |         | 1       | 1       | 1       |   |
| " in                            | 5 1926                                       |         |         |         |         |         |         | -       |         |         |         | -       | -       |         | 6.2     | -       |         | AR      |          |          | 22      | 42      | 48      | 1       | 1       |                | 1       | 1       |         | 1       |         | 1       |         |         | 1       |   |
| Alive                           | 4 1925                                       |         |         |         | -       | -       | -       | -       | -       | -       | -       | -       |         | -       | -       | _       |         | L.V     |          | -        | 220     | 43      |         | 1       | 1       | 1              | 1       |         |         | 1       |         | 1       |         |         | 1       |   |
| or " !                          | 3 1924                                       | 14      | 23      | 28      | 10      | 10      | 25      | 18      | 15      | 10      | 22      | 12      | 27      | 31      | 45      | 29      | 145     |         | 107      | 01       | 99      |         | 1       | 1       | 1       |                | 1       | 1       |         |         |         |         | 1       | 1       |         |   |
| :                               | 2 1923                                       | 14      | 23      | 28      | 00      | 25      | 24      | 18      | 15      | 20      | 3       | 12      | 27      | 29      | 44      | 22      | 35      | 101     | 0.0      | 3        | 1       |         | 1       | 1       | 1       |                | 1       | 1       |         |         | 1       | 1       | 1       |         | 1       |   |
| " We                            | 1 1922                                       | 13      | 23      | 27      | 00      | 20      | 24      | 18      | 151     | 10      | 1       | II      | 28      | 31      | 49      | 23      | 40      | AP      | CF -     |          | 1       | 1       | 1       | 1       |         | 1              | 1       |         | 1       |         | 1       | 1       | 1       | 1       | 1       |   |
| rted                            | 192  | 13      | 22      | 99      | 00      | 20      | 26      | 18      | 14      | H NG    | 3:      | T       | 27      | 28      | 46      | 34      | 55      |         |          | 1        | i       |         | 1       | 1       | 1       | 1              | 1       |         |         |         | 1       | 1       |         |         |         |   |
| Number reported " Well          | 1920   | 14      | 24      | 28      | 66      | 00      | 27      | 20      | 15      | 00      | 07      | 13      | 29      | 33      | 48      | 34      | 5       |         |          |          |         | 1       | 1       | 1       | 1       | 1              | 1       | 1       | 1       | 1       | 1       | 1       |         | 1       | 1       |   |
| mber                            | 31618  | 15      | 24      | 27      | 00      | 110     | 27      | 20      | 14      | N G     | 3       | 6       | 29      | 31      | 47      |         | 1       |         |          |          |         | 1       | 1       | 1       | 1       | 1              |         | !       | 1       | 1       | Ì       |         |         | 1       | 1       |   |
| Nu                              | 1918   | 15      | 25      | 28      | 20      | 00      | 29      | 21      | 17      |         | 1       | 14      | 32      | 33      |         | 1       | 1       |         |          | Ę        | 1       | 1       | 1       | 1       | 1       | 1              | 1       |         | 1       | 1       |         | 1       | 1       |         | 1       |   |
|                                 | 161  | 13      | 26      | 25      | 20      | 00      | 50      | 21      | 18      | 000     |         | ID      | 31      |         | 1       | 1       | 1       | 1       |          |          | 1       | 1       | 1       | i       | 1       | 1              | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |         |   |
|                                 | 1913 1914 1915 1916 1917 1918 1919 1920 1921 | 13      | 24      | 23      | 10      | +0      | 3       | 20      | 16      | 10      | 14      | 13      | 1       | i       |         | 1       | 1       | 1       |          |          | 1       |         | 1       | 1       |         | 1              | 1       |         | 1       |         | 1       | 1       | 1       |         | !       |   |
|                                 | 1915   | II      | 22      | 25      | 00      | 00      | 29      | 23      | 17      | 90      | 2       | 1       | 1       | 1       | 1       | 1       | 1       | -       |          |          | 1       |         | 1       | 1       | 1       | 1              | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |   |
|                                 | 1914   | 10      | 23      | 31      | 26      | 00      | 30      | 22      | 18      |         | 1       | 1       | 1       | i       |         | 1       | 1       | 1       |          |          | 1       |         | 1       | 1       | i       | 1              | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |   |
|                                 | 1913   | 10      | 23      | 19      | 00      |         | 25      | 000     | 1       |         | 1       | 1       | 1       | 1       |         |         | 1       | 1       |          |          | 1       |         | 1       | 1       | 1       | 1              | -       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |   |
|                                 | -12  | 11      | 114     | 16      | N.C     | 200     | 33      | 1       | 1       | 1       |         | 1       | 1       | 1       | 1       | 1       |         | 1       |          |          |         | 1       | 1       | 1       | 1       | 1              | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |   |
| parged<br>mber                  | Disc   | 16      | 31      | 39      | 67      | 10      | 37      | 26      | 19      | 00      | 21      | LI      | 32      | 34      | 51      | 35      | 202     | 48      | 2 In     | 20       | 00      | 10      | 65      | 44      | 23      | 35             | 32      | 20      | 20      | 35      | 27      | 26      | 22      | 29      | 27      |   |
| Year<br>of                      | Dis-<br>charge                               | 1906/07 | 1907/08 | 1908/09 | 01/0 01 | 01/0 01 | 1910/11 | 1911/12 | 1912/13 | 1019/14 | +1/0101 | 1914/19 | 1915/16 | 1916/17 | 1917/18 | 61/8161 | 06/0101 | 16/0601 | 66/ 1601 | 00/ 0001 | 07/7701 | 12/0701 | 1924/20 | 1925/26 | 1926/27 | 1927/28        | 1928/29 | 1929/30 | 1930/31 | 1931/32 | 1932/33 | 1933/34 | 1934/35 | 1935/36 | 1936/37 |   |

TABLE A7.--STATISTICS OF ULTIMATE RESULTS

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

f. .

| 8261 U  | t to   | 0101-01010-0-045-1010-0101-1-1-   - 00101010   |
|---|--|--|
| 1938<br>1938                                    | uj   |  |
| er Dead   |  | 4181201014082595008408509896984614   |
|   | 193  |  |
|   | 1937   | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |
|   | 1936 1937 1938                               | 100 100 100 100 100 100 100 100 100 100  |
|   |  |  |
|   | 1934 1935                                    | 56281164 8 23512 2 6 6 5 2 3 2 2 6 8 2 1 2 6 3 3 1 2 6 8 2 3 2 2 6 8 2 1 2 6 8 3 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2   |
| rge   | 1933   | 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5  |
| ischa   | 1932 1                                       | 8 6 7 8 8 8 9 7 9 1 2 2 8 8 8 7 9 8 8 8 9 7 9 8 8 9 7 9 8 8 8 9 7 9 8 8 8 9 7 9 8 8 8 9 7 9 8 8 8 9 7 9 8 8 8 9 7 9 8 8 9 7 9 8 8 9 7 9 8 8 9 7 9 8 8 9 7 9 7  |
| ter D   |  | **************************************   |
| ar aft  | 930 1  | · · · · · · · · · · · · · · · · · · ·  |
| e ye  | 1929 1930 1931                               | 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  |
| Alive " in each successive year after Discharge | 1928 19                                      | 4 6 5 1 8 8 7 7 6 1 7 5 4 5 1 6 1 7 5 8 8 1 9 7 7 8 8 8 7 7 6 1 7 5 5 5 5 1 7 5 1 9 1 7 5 1 9 1 1 7 5 1 9 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
| ons t   |  | 4 6 1 8 7 8 7 7 6 6 1 2 1 2 8 1 2 8 7 8 4 8 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
| eacl  | 1926 1927                                    |  |
| e '' in   | 25 19  | 004808000048004800004111111111111111111  |
| Alive   | 1924 1925                                    | 040F0F0F04F000000F111111111111   |
| or "  | 923 19:                                      | 4040080064046908888  |
| :   | _  | 404668888888888888888888888888888888888  |
| M   | 1 1922                                       | 2246 0 2 8 2 2 8 8 2 2 8 8 9 7   |
| orted   | 0 192  | 261910 - 280   |
| repo  | 9 192  | 88 112 112 112 112 112 112 112 112 112 1   |
| Number reported " Well                          | 8 191  | 99229  |
| Nu  | 161 2  | 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9  |
|   | 161 9  | 9 E 4 6 6 6 4 8 8 E 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
|   | 1916   | ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩   |
|   | 1913 1914 1915 1916 1917 1918 1919 1920 1921 | 22741881999991999198   |
|   | 1914   | 4155<br>80<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90<br>90   |
|   |  | 101<br>114<br>114<br>114<br>114<br>114<br>114<br>114<br>114<br>114   |
| 1   | 1908   | 26<br>64<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28   |
| parged<br>mber                                  |  | $\begin{array}{c} & & & & & & & & & & & & & & & & & & &$   |
| Year<br>of                                      | Dis-<br>charge                               | $\begin{array}{c} 1906/07\\ 1906/08\\ 1908/08\\ 1908/09\\ 1908/09\\ 1910/11\\ 1910/17\\ 1911/15\\ 1915/16\\ 1915/16\\ 1915/18\\ 1915/18\\ 1915/18\\ 1916/17\\ 1916/17\\ 1916/17\\ 1916/17\\ 1916/17\\ 1916/17\\ 1916/17\\ 1916/17\\ 1926/23\\ 1928/23\\ 1928/23\\ 1928/23\\ 1938/33\\ 1938/36\\ 1938/36\\ 1938/37\\ 1938/$ |

TABLE A8.—STATISTICS OF ULTIMATE RESULTS

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

| tagis ta<br>8661 r                      | No. lo<br>li îo                                   |         | I        | •       |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       | -       | 1       | 1       | 1       | 1       | 1       | -       | ļ       | 1       | 1       | 1  | -  | 1  |         | 1       | 1       | 1       | 1       | 1  | 1       | 1       |
|---|---|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|----|----|---------|---------|---------|---------|---------|----|---------|---------|
| 1938<br>et Desd                         |   | 1       | 1        | -       | -       | 1       | 1       | 61      | 21      | 1       | ~       | ~       | 1       | 4       | 8       | 2       | 1       | 8       | 4       | 8       | 61      | 01      | ~  | 1  | 1  | 1       | 1       | 1       | 67      | 12      | 4  | 1       | 1       |
| 8                                       | 1938  | 1       | 1        | L       |         | 1       | 1       | 1       | -       | 1       | 1       | 1       | 1       | ~       | 4       | ŝ       | 4       | 0       | e       | 67      | e       | 4       | 61 |    | 1  | 1       | 1       | I       | 1       | II      | -  |         | 2       |
|   | 1937  | 1       | 1        |         |         | 1       | 1       | 1       | -       | 1       | 1       | -       | 1       | ŝ       | 4       | e       | ŧ       | 9       | ÷       | 01      | 3       | 4       | 63 | 01 | -  | 1       | 1       | 1       | 1       | 13      | 00 | ~       | 1       |
|   | 1936 1937   | 1       | 1        | -       | 1       | 1       | 1       | 1       | I       | 1       | 1       | -       |         | en      | 4       | e       | 4       | 9       | 4       | 01      | ~       | 4       | 61 | 01 | -  | -       | -       | 1       | 1       | 14      | 6  | 1       | 1       |
|   | 1935  | 1       | 1        |         | -       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | ~       | +       | ~       | +       | -       | ŧ       | 61      | ŝ       | 4       | ~  | 01 | 1  | 1       | 1       | 1       | 1       | 18      | 1  | 1       | 1       |
|   | 1934  | 1       |          |         | -       | 1       | 1       | 1       | -       | 1.      | 1       | 1       | 1       | en      | 4       | e       | 4       | -       | 4       | 64      | ŝ       | 4       | ~  | 01 | -  | 1       | -       | -       | 1       | 1       | 1  | 1       | 1       |
| nrge                                    | 1933  | 0       | -        | -       | - 0     | 0       | •       | 0       | -       | 1       | 0       | -       | 0       | ŧ       | 4       | en      | 4       | 1       | 4       | 01      | ~       | 0       | ~  | 01 | -  | 1       | 1       | 1       | 1       | 1       | 1  | 1       | -       |
| Discha                                  | 1932  | 0       | 0        |         | - 0     | 0       | •       | 0       | 1       | I       | 0       | 1       | •       | 4       | 4       | ~       | 4       | -       | 4       | 21      | 4       | 10      | 4  | 01 | -  | 1       | 1       | 1       | 1       | 1       | 1  | 1       | 1       |
| fter I                                  | 1931  | 0       | 0        | -       | - <     | 0       | •       | 0       | 01      | -       | 0       | 1       | 0       | 4       | 4       | ~       | 4       | -       | 4       | e       | +       | 2       | 26 | 64 | -  | -       | 1       | 1       |         | 1       | 1  | 1       | 1       |
| in each successive year after Discharge | 1928 1929 1930 1931 1932                          | 0       | 0        | > -     |         | >       | •       | •       | 63      | 1       | •       | 1       | •       | 4       | 4       | en      | 4       | -       | 4       | 4       | 4       | ŝ       | 0  | 01 | -  | 1       | 1       | 1       | 1       | 1       | 1  | 1       | 1       |
| ive y                                   | 1929  | 0       | 0        | >-      | - 0     | 0       | 0       | 0       | 61      | -       | •       | 1       | 0       | +       | 4       | 4       | 4       | -       | 4       | 10      | 4       | 0       | 0  | 61 | 1  | 1       | 1       | 1       | 1       | 1       | 1  | 1       | 1       |
| ccess                                   |   | 0       | 0        | > -     | - 0     | 0       | •       | 0       | 61      | -       | •       | -       | 0       | 4       | 10      | 20      | 4       | -       | 20      | 9       | 4       | 20      | 20 | 1  | 1  | I       | 1       | 1       | İ       | I       | 1  | 1       |         |
| ch su                                   | 1927  | 0       | 0        |         | - 0     | 0       | 0       | •       | 61      | 1       | 0       | 1       | 0       | 4       | 2       | 20      | 4       | -       | 2       | 9       | 4       | 20      | 1  | 1  | 1  | 1       | 1       | I       | 1       | L       | 1  | I       | !       |
| in ea                                   | 1926  | 0       | 0        |         |         | -       | 0       | 1       | 61      | 1       | 0       | 61      | 0       | 5       | 5       | 9       | +       | -       | 5       | -       | 26      | 1       | 1  | 1  | 1  | 1       | 1       | 1       | 1       | 1       | 1  | 1       | 1       |
| Alive "                                 | 1925  | 0       | 0        |         |         | -       | 0       | -       | 01      | -       | 0       | 01      | 0       | 20      | 10      | 9       | 4       | -       | 2       | 8       | 1       | 1       | 1  | 1  |    | 1       | 1       | 1       | 1       | 1       | 1  | 1       | 1       |
|   | 1924  | 0       | -        | • •     |         | -       | 0       | 1       | 61      | 1       | -       | 61      | 0       | 10      | 9       | 9       | +       | 6.      | 10      | 1       | 1       | 1       | 1  | 1  | ľ  | 1       | 1       | 1       | i       | 1       | 1  | i       |         |
| " or                                    | 1923  | 0       | -        |         |         | -       | •       | 1       | 00      | 1       | 1       | 01      | 0       | 10      | 9       | 9       | +       | 14      | i       | 1       | 1       |         | 1  | 1  | 1  | 1       | 1       |         | 1       | 1       | 1  | 1       | 1       |
| Number reported " Well                  | 1922  | 0       | -        |         |         | -       | 0       | 1       | ~       | 1       | 1       | 61      | 0       | 2       | 8       | 9       | ÷       | 1       | 1       | 1       | 1       |         | 1  | 1  |    | 1       | 1       |         | 1       | 1       |    | 1       | -       |
| ted "                                   | 1921  | 0       | -        |         |         | -       | •       | •       | ~       | -       | 61      | 01      | 0       | 9       | H       | x       | 1       | 1       | 1       | 1       | 1       | 1       | 1  | 1  | 1  | 1       | 1       |         | 1       | 1       | 1  | 1       | 1       |
| repor                                   | 1920  | 0       |          | • •     | -•••    | -       | 0       | 1       | ŝ       | -       | 61      | 61      | 0       | 9       | 13      | 1       | -       | 1       | 1       | 1       | 1       | 1       | 1  | 1  | 1  | 1       | 1       | 1       | 1       | 1       | 1  | 1       | 1       |
| nber                                    | 1919  | 0       | 0        | > -     |         | -       | •       | 1       | 61      | -       | C1      | ~       | 0       | 9       |         | 1       | 1       |         | 1       | 1       | 1       | 1       | 1  | 1  | 1  |         | 1       | 1       | 1       | 1       | 1  | 1       | 1       |
| Nur                                     | 1918  | 0       |          |         | - (     | 51      | 0       | -       | ~       | -       | 61      | 0       | 0       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1  | 1  |    | 1       | j       |         | 1       | 1       | 1  | 1       | 1       |
|   | 1917  | 0       | -        | • •     | - *     | 51      | •       | 1       | 61      | -       | 67      | 3       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1  | 1  | 1  | 1       | 1       | 1       | 1       | 1       | 1  | 1       | 1       |
|   | 1916  | 0       | 0        |         |         | 54      | •       | -       | 67      | I       | 61      | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1  |    | 1  |         | 1       | 1       | 1       | 1       | 1  |         | 1       |
|   | 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 | 0       | -        |         |         | -       | 0       | -       | 01      | 61      | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1  | 1  | 1  | 1       |         | 1       | 1       |         | 1  | 1       | 1       |
|   | 3 1914  | 0       | 0        | > -     |         | -       | •       | 1       | 67      | 1       |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |         | 1       | 1       | 1       |    |    | 1  | 1       |         |         | 1       | 1       | 1  | 1       | 1       |
|   | 8 191:  | 0       | 00       |         |         | 67      | -       | 1       | 1       | 1       | 1       | 1       |         | 1       |         | 1       | 1       | 1       | 1       | 1       | 1       | 1       |    | 1  | 1  |         | 1       | 1       | 1       | 1       | 1  | 1       | -       |
|   | -12   |         | 1 0      |         |         | +       | -       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1  | 1  | 1  | 1       | 1       | 1       | 1       |         | 1  |         | -       |
| nber                                    | Nui   | -       | - 6      | 10      | 21      | 61      | -       | 61      | 00      | 67      | 4       | 4       | 0       | -       | 13      | 00      | 4       | 14      | -       | 10      | 10      | -       | 22 | 61 | 61 | -       | 63      | C1      | 00      | 23      | =  | ~       | 51      |
| Year                                    | Dis-<br>charge                                    | 1006/07 | 1007/001 | 00/1001 | 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 |    |    |    | 1929/30 | 1930/31 | 1931/32 | 1932/33 | 1933/34 |    | 1935/36 | 1936/37 |

| 38<br>14 of<br>14 of<br>14 of<br>14 of<br>14 of<br>14 of<br>14 of  | of                             |
|--|--------------------------------|
| Condition<br>in 1938<br>Alive<br>Dead<br>Lost sight of<br>Alive<br>Dead<br>Lost sight of<br>Alive<br>Dead<br>Lost sight of<br>Alive<br>Dead<br>Lost sight of<br>Alive<br>Dead<br>Lost sight of<br>Alive<br>Dead  | Alive<br>Dead<br>Lost sight of |
| 88/1861 ~     +         ~ 1031/38  | 24                             |
| - <u>2</u>                       22\30   | 1 53                           |
|  | - 23                           |
| +€/E61 ∞ -   ∞   - 0   1033/34   | 10000                          |
| 2015 10 10 10 10 10 10 10 10 10 10 10 10 10  | 15 15                          |
| 25/1501 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | 1 13 1                         |
| 12/0261 2010 111 1 1 2-  | 1 204                          |
| 08/0201 8 4 10 01 - 1 - 1 1 1 2 00   | 1 8 8 1                        |
| 02/8201 - 01 1 1   | 11 6                           |
| 82/2201 9:00   | 1 2 0 01                       |
| P 1926/201 0 1 1 - 0 4 10 10 10 4 0  | 1 12 12 1                      |
| here and the second sec | 6 4                            |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 1 13 13                        |
| 0.01 1 1   | 1 13 22                        |
| hard 22/2201 00 0 1 1-10 1 1 1 0 4   |                                |
| Distribution         Distribution<   | - 53 8                         |
|  | 1 282                          |
| 02/6161 2 -   100 01         00 -  | 13 13 13                       |
| 61/8161 00     +   | 36 36 3                        |
| 81/7101   01 - 10 4   -       01 00  | 31 31                          |
|  | 4 23 4                         |
| 91/3191 00 4 4 -       -   -   0   | 31 31                          |
| 91/#161 01 C - C C - 1 - 1 - 1 + C -   | - 4 - 1                        |
| +I/8161 014- 44- 1- 1- 100-  | 4 5 4                          |
| 51/2101         0 00         0 00         1         <  | - 58 8                         |
| 21/0001 28 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | 53<br>193<br>11                |
| Condition on<br>ston<br>Arrested<br>I Improved<br>Improved<br>Stationary<br>Worse<br>Arrested  | Much<br>Improved               |
| Croup 1 duor3  | II                             |

TABLE B1.—STATISTICS OF ULTIMATE RESULTS

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

adition on

k

| Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of |          |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----------|
| 22                             |                                |                                | ~                              | 6 10                           | ∞ <b>4</b>                     | 93                             | 103      |
| 133                            | m −                            | 111                            | 00 01                          | x 4                            | 99                             | 96                             | 115      |
| 9                              | 61                             | ~                              | 1 50                           | 11 1                           | 41-                            | 79<br>37<br>2                  | 118      |
| 01-1                           | - ~                            | 111                            | 1 46                           | 41-                            | 8                              | 57<br>39<br>4                  | 100      |
| 17                             | 400                            | 111                            | 401                            | 10 00 04                       | 1<br>19<br>2                   | 79<br>47<br>15                 | 141      |
| 3 8 E                          | 10 00 -1                       | 1-1                            |                                | 1 2 - 3                        | 12 33                          | 65<br>52<br>8                  | 125      |
| 13 13                          | 8<br>16<br>3                   | 111                            |                                | 01 10                          | 1 0                            | 68<br>55<br>11                 | 134      |
| 13<br>24<br>3                  | 3                              | 111                            | 64                             | 0 - 1                          | 10                             | 70<br>75<br>10                 | 155      |
| 14<br>17<br>1                  | 13 2                           | 111                            | 01                             | 9                              | 0.0-                           | 54<br>59<br>5                  | 118      |
| 8 1                            | 4 %                            | -                              | 6110-                          | 10 3                           | 14                             | 50<br>63<br>8                  | 121      |
| 14                             | ~~                             |                                | - 61                           | 6<br>13<br>1                   | 10 10                          | 63<br>55<br>9                  | 127      |
| 66                             | - 6                            | 111                            | 00                             | 4 8                            | - 2 63                         | 41<br>70<br>3                  | 114      |
| 2<br>16<br>1                   | - 64                           | -                              | 610                            | 27                             | 2                              | 38<br>86<br>4                  | 128      |
| -                              | 111                            | 10 00                          | 12<br>54<br>1                  | 31                             | 6                              | 40<br>122<br>4                 | 166      |
| -                              | 111                            | 0100                           | 11<br>54<br>1                  | 1<br>25                        | 616                            | 42<br>121<br>2                 | 165      |
| "                              | -                              | 0 10                           | 56<br>29                       | 4<br>22<br>                    | 0                              | 36<br>136<br>4                 | 176      |
| 0                              | 01                             | - 10 00                        | 29                             | 436                            | ∞                              | 56<br>134<br>7                 | 197      |
| 01-100                         | 64                             | - 67                           | 53 80<br>58 80                 | 32<br>32<br>1                  | 19                             | 54<br>137<br>5                 | 196      |
| 2<br>14<br>1                   |                                | 111                            | 12<br>35<br>2                  | $^{1}_{1}$                     | 18                             | 57<br>131<br>10                | 198      |
| 1 8 6                          | 000                            | 111                            | 27.2                           | 21                             | 1<br>24<br>1                   | 42<br>130<br>12                | 184      |
| 1 27                           | 111                            | -                              | 80<br>1                        | 26                             | 25                             | 49<br>157<br>6                 | 212      |
| 13                             | 13                             | -                              | 17<br>17                       | 13                             | 28                             | 19<br>129<br>6                 | 154      |
| e                              | 20                             | 111                            | 19<br>19                       | 112                            | 32.03                          | 31<br>158<br>4                 | 193      |
|                                | 18                             | 1-1                            | ° 0                            | 191                            | 4                              | 25<br>145<br>7                 | 177      |
| 18 1                           | 19                             | -                              | 9                              | =                              | 1<br>24<br>1                   | 27<br>131<br>2                 | 0.00     |
| 99                             | 96<br>3                        | 4                              | 62 5                           | 107<br>2                       | 168                            | 169<br>912<br>42               | 1123 160 |
| Improved                       | Stationary<br>or<br>Worse      | Disease<br>Arrested            | Much<br>Improved               | Improved                       | Stationary<br>or<br>Worse      | Summary                        | TOTAL    |
| Group                          |                                |                                |                                | III dno.                       | CI                             |                                |          |

|  |                            | Condition<br>in 1938       | Alive<br>Dead<br>Lost sight of |  |  |
|--|----------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|--|
|  |                            | 88/1861                    | 26                             | 111                            |                                | 111                            | 38                             | 1 - 2                          |  |  |
|  |                            | 98/9861                    | 26<br>1                        | c1                             | 111                            |                                | 24                             | =   =                          |  |  |
|  |                            | 28/\$861                   | $\frac{20}{1}$                 | -!!                            | 111                            | 111                            | 1 18                           | 1 3 20                         |  |  |
|  |                            | <del>7</del> 8/8861        | 18<br>1<br>1                   | 4                              | C1                             | 111                            | 1 - 13                         | 10 co ci                       |  |  |
| m  |                            | 88/3861                    | 22<br>3 - 22                   |                                | -                              |                                | 40101                          | 9-1                            |  |  |
| orini  |                            | 28/1861                    | 30                             | -   -                          | 111                            | 111                            | 01 01 01<br>[]                 | 4                              |  |  |
| anat   |                            | 18/0861                    | 14<br><br>3                    | 111                            | -   -                          | -                              | 10                             | 4   1                          |  |  |
| the S  |                            | 08/6261                    | 17                             | -                              |                                |                                | 4 01                           |                                |  |  |
| T.B. were not demonstrated in the Sanatorium |                            | 62/8261                    | 15<br>3<br>6                   | 10 03                          | c1                             | -                              | 44                             | °                              |  |  |
| rated  |                            | 82/1261                    | 19<br>5<br>3                   | - 53 -                         | c1                             | -                              | - 10 -1                        | - I                            |  |  |
| ISHOW  |                            | 1926/221                   | 16<br>4<br>3                   | 111                            | -                              | -                              | 4                              | cı —                           |  |  |
| t den  | ear                        | 92/2261                    | 21 19 58<br>21 19 58           | 4                              | 3                              | -                              | 9                              | cı —                           |  |  |
| e no   | the Y                      | 22/\$261                   | 31<br>3<br>4                   | 1-01-                          |                                | 111                            | 6 - 6                          | 1 O                            |  |  |
| wer  | ring t                     | \$72×61                    | 24<br>8<br>4                   |                                |                                | -                              | 9-61                           | ∞                              |  |  |
| T.B.   | ub b                       | 82/2261                    | 13                             | 4 01                           |                                | 111                            | co +#                          | 111                            |  |  |
| 1000   | Discharged during the Year | 22/1261                    | 10 00 01                       | 01                             | 61                             | 111                            | 19<br>6 9<br>7                 |                                |  |  |
| of wi  | Discl                      | 12/0261                    | 50 Ci 38                       |                                | -   -                          | 111                            | 1-0101                         | -                              |  |  |
| tum  |                            | 07/6161                    | 3.1.29                         | - 00 01                        | 4                              | -                              | 1 cr - 1                       | m                              |  |  |
| Cases in the Sputum of which                 |                            | 61/8161                    | 61 61 61<br>61                 | 1 1 0                          | 111                            |                                | 17 12 12                       | 23                             |  |  |
| the the                                      |                            | 81/2161                    | 8 is es                        |                                | -   -                          | 111                            | \$ \$ \$ \$                    | 20                             |  |  |
| ses in                                       |                            | 21/9161                    | 15<br>4<br>1                   | 641                            | 111                            | 111                            | 1000                           | 6000                           |  |  |
| Ca   |                            | 91/9161                    | 19<br>6<br>5                   | -   -                          | 111                            | 111                            | 41                             |                                |  |  |
|  |                            | <u>91/<del>1</del></u> 161 | 4-01                           | 01401                          | -   -                          | 111                            |                                | - 00 -1                        |  |  |
|  |                            | <b>₱1/8161</b>             | 1 5                            | 11<br>4<br>4                   | -   5                          | 111                            | 1                              | 0101                           |  |  |
|  |                            | 81/2161                    | 000                            | 63                             | 111                            |                                | ~                              |                                |  |  |
|  |                            | 21/9061                    | 92<br>53<br>25                 | 19 DI GI                       | 00 CI                          | -   01                         | 14<br>19<br>9                  | 10<br>5<br>5                   |  |  |
|  | Condition on               | Discharge                  | Disease<br>Arrested            | Much<br>Improved               | Improved                       | Stationary<br>or<br>Worse      | Disease<br>Arrested            | Much<br>Improved               |  |  |
|  | Con                        | -simbA<br>nois             |                                | I duo                          | Cro                            |                                | Ш                              |                                |  |  |

TABLE B2.—STATISTICS OF ULTIMATE RESULTS

f.

| Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of | Alive<br>Dead<br>Lost sight of             |       |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|-------|
| ~                              |                                | 111                            | -                              | -                              | 111                            | 74<br>4                                    | 78    |
| *                              | 111                            | 111                            | e1                             | -                              | 111                            | 0.01 20                                    | 75    |
| 10                             | 111                            | -                              | ~                              | - 67                           | 0101                           | 71<br>10<br>2                              | 83    |
| ~                              | 111                            | ~     m                        | 10 <del>4</del>                | 9                              | 01 00                          | 68<br>18<br>3                              | 89    |
| -                              | 111-                           | -111                           |                                | 111                            | 64                             | 45<br>6<br>5                               | 56    |
| - 61 -                         | - 01                           | 111                            |                                |                                | !!!                            | 50   | 64    |
| -                              | 61                             | 111                            | 111                            | -                              | -                              | 0 -1 53                                    | 44    |
| 4                              | 63                             |                                |                                | -                              |                                | 28<br>6<br>1                               | 35    |
| e                              | ei —                           | 111                            | 111                            |                                | -                              | 34<br>10<br>9                              | 53    |
|                                | 61                             |                                | -   -                          | 111                            |                                | 35<br>14<br>6                              | 55    |
| er                             | 111                            | -                              | -                              | ei                             |                                | 27<br>5                                    | 41    |
| c1 — -                         |                                | ei                             | -                              | - 01                           | 111                            | 50<br>11<br>9                              | 70    |
| 01                             | -                              | -                              | 10                             | 111                            | -                              | 55<br>10                                   | 72    |
| -                              |                                | c1 4                           | -                              | ••                             |                                | 44<br>18<br>6                              | 68    |
| -   -                          | 111                            | 01 01                          |                                | 1-1                            | 111                            | 31<br>18<br>2                              | 51    |
| - 01                           | 111                            | 33                             | -                              | - ~~                           | 111                            | 59<br>24<br>10                             | 93    |
| -                              |                                | 61                             |                                |                                |                                | 53<br>7<br>6                               | 66    |
| 60   61                        | 111                            | -                              | 01 4                           |                                | 111                            | 51<br>20                                   | 78    |
| 4                              | 60 64                          |                                | - 4 -                          | 61                             | - 33                           | 78<br>27<br>14                             | 119   |
| co 4 –                         | 61 61                          | -                              | 01 00                          |                                |                                | 75<br>30<br>12                             | 117   |
| es                             |                                | 111                            | 111                            | 111                            | 111                            | 37<br>15<br>6                              | 58    |
| -                              | 0101-                          |                                |                                | 64                             | -                              | 28<br>22<br>9                              | 59    |
| -                              | -                              | 111                            | -                              | -                              | 01                             | 15 13                                      | 35    |
| ~ -                            |                                | 111                            | -                              | 111                            | -                              | 6 6 6<br>7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 41    |
| -                              | 61                             | -                              | 01                             | 111                            | 111                            | 16<br>11<br>4                              | 31    |
| 01 10                          | 0.44                           | 111                            |                                | 1001                           | 111                            | 132<br>120<br>44                           | 296   |
| Improved                       | Stationary<br>or<br>Worse      | Disease<br>Arrested            | Much<br>Improved               | Improved                       | Stationary<br>or<br>Worse      | Summary                                    | TOTAL |
| Groap                          |                                |                                |                                | III du                         | aŋ                             |  |       |





