

Annual report of the Liverpool Hospital for Consumption and Diseases of the Chest : 1934.

Contributors

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SEVENTY-FIRST
ANNUAL REPORT
OF THE
LIVERPOOL
HOSPITAL FOR CONSUMPTION
AND
DISEASES OF THE CHEST

(TELEPHONE No. 1658 ROYAL)

BEING THE REPORT FOR THE YEAR 1934

Subscriptions are due and payable on the 1st January, in advance, and may be paid to the Liverpool Council of Social Service, to Martins Bank Limited, Water Street, Liverpool, or to the Hon. Treasurer :
R. S. Harker, Esq., at the Hospital for Consumption, Mount Pleasant, Liverpool

LIVERPOOL:
C. TINLING & Co., LTD., PRINTERS, 53 VICTORIA STREET,

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Telephone No. 1658 Royal.

The Seventy-First Annual Report

OF THE

Liverpool Hospital for Consumption and Diseases of the Chest,

Including that for the **LIVERPOOL SANATORIUM**
Delamere Forest, Frodsham, and the **TORPENHOW**
OPEN-AIR SCHOOL FOR CHILDREN at Frankby,
Wirral,

Being the Report for the Year 1934.

The Management Committee have pleasure in presenting to the subscribers, donors and other friends of these Institutions, the Seventy-first Annual Report, being that for the year ended 31st December, 1934.

The accompanying Medical Reports attached hereto give some particulars of the work done in the various sections during the past year and will, it is hoped, be found both interesting and instructive.

The Committee record with great regret the death of two of their number during the past year. Mr. Alan Paton, C.B., who had been a member of Committee for many years, died in June last, and although his numerous activities had prevented his regular attendance at our meetings, he always evinced great interest in the progress and development of the work in hand. Mr. Alexander Guthrie, who died in December last, had been associated with these Institutions for a great number of years, both as member of Committee and for some time past as Vice-President. Until his removal to the South of England, some ten years ago, he took an active part in the work of the Committee. His great work for our City has left a beneficent influence which will long be remembered.

Since the opening of this year we have been pleased to welcome Mr. A. S. Cross, formerly of the Imperial Chemical Industries, Limited, who has kindly consented to join the Committee and will no doubt prove most useful in our deliberations.

The garden at the Hospital has been relaid after the building operations, and now affords a pleasant outlook for those patients who are able to sit out.

A new sterilising chamber has been built and fitted up at the Hospital, adjacent to the operating theatre; this has proved a great convenience and is an essential feature of the work involved.

A considerable amount of repairs have been done at the three Institutions and also at the "Claim Farm," and all properties are continually inspected and overhauled to keep them in condition.

The purchase of an additional 11 acres of land adjoining our property at Torpenhow prevents this land being used for building purposes, and thus secures for the children the advantages of this open space.

The Committee have recently passed plans for the much-needed extension of the Torpenhow Open-Air School at a cost of approximately £7,000.

The Committee gratefully acknowledge receipt of legacies from the following:—

Estate of the late	Mrs. S. A. Hignett,
" " " "	John Hedley,
" " " "	Thomas Kennah,
" " " "	D. M. Matheson,
" " " "	Miss M. F. Oakshott,
" " " "	Miss Elizabeth Saunders,

and special donations:—

Anon per the Lord Mayor.
 Executor of the late A. R. Marshall,
 Merseyside Hospitals Council,
 Guild of Undergraduates—Panto Day, 1934,
 Trustees of West Derby Waste Lands.

The Committee again record their warm appreciation of the loyal services of the Medical Staffs, Matrons, Nurses and Administrative Officers of the three Institutions in maintaining the work, also of those of the visiting Clergy.

Report of the Honorary Medical Staff, 1934

The following is the usual table showing some of the principal statistics compared with previous years:—

	Year 1928.	Year 1929.	Year 1930.	Year 1931.	Year 1932.	Year 1933.	Year 1934,
No. of In-Patients	119	113	120	133	141	131	122
No. of Patients discharged...	91	85	90	98	109	98	92
No. of Patients discharged suffering from tuberculosis	82	68	77	81	83	80	74
No. of Deaths	35	18	29	20	27	25	20
Average No. of Beds in daily occupation	29	33	32	32	35	33	33
Average duration of stay, in days... ..	92	108	98	88	91	91	99
Total number of days in Hospital	10,940	12,267	11,799	11,674	12,815	11,916	12,106

Further statistics of the Hospital work are contained in the Report of the Stipendiary Medical Officer.

The Hospital is now equipped for the performance of major chest surgery. A Theatre Sister has been appointed, and, recently, an Honorary Anaesthetist, Dr. Halton.

An up-to-date, efficient sterilising unit has been installed, as well as, more recently, a chloride battery to provide electric light in case of failure of the mains supply. The Theatre is in regular use.

During the year, additional telephone facilities were provided in the hospital, the furnishing of the new Out-Patient Department was completed, and the Stipendiary Medical Officer's room was equipped.

The X-Ray Department continues to work well. Charges for X-Ray's have been reduced considerably; patients without means are, of course, treated free.

The Hospital has been affiliated to the Faculty of Medicine for teaching purposes.

REPORT OF THE STIPENDIARY MEDICAL OFFICER FOR 1934.

During the year ended 31st December, 1934, there were 122 patients under treatment in the Hospital Wards, of whom 62 were females and 60 males.

There were 92 discharged during the year, leaving 30 patients in residence on 31st December, 1934.

The total number of In-Patient days was 12,106, an increase of 190 days on the previous year.

The average number of beds in daily occupation was 33.

Of the 92 patients discharged, 36 were males and 56 females, and these included 20 deaths.

The condition of patients suffering from Pulmonary Tuberculosis on admission to Hospital was as follows:—

Early cases	...	...	...	...	7·3%
Moderate Cases	...	...	...	...	26%
Advanced Cases	...	...	...	...	49%

The condition on discharge of the 92 patients was as follows:—

Improved	...	...	...	...	48
I.S.Q.	...	...	...	...	24
Deaths	...	...	...	...	20

There were 22 patients admitted for observation who proved to be suffering from the following diseases after investigation:—

Bronchitis	...	5	Cardio Vascular Disease...	2	
Bronchiectasis	...	6	Lung Abscess	...	3
Hydatid Cyst	...	1	Neoplasm of Lung	...	4
Asthma	...	1			

The radiological examination of contact cases of Pulmonary Tuberculosis has been carried out whenever possible, and has proved of the greatest value in the early diagnosis of Phthisis.

Lipiodol Bronchographies have received considerable attention in the diagnosis of obscure lung conditions and in the treatment of Bronchial dilatation. Specific treatment with Benzyl Cinnamate, gold therapy and collosol calcium, continues to yield good results—in early cases collapse therapy has given excellent results.

Autohaemotherapy and Peptone injections are still being employed in the treatment of Asthma and have been found to be of the greatest value.

A system of card index and cross references is being installed in the Registrar's room in order to facilitate the investigation and following up of chest conditions.

OPERATIONS—

1. Artificial Pneumothoracies	...	...	260
2. Air replacement	...	...	6
3. Oleo-thorax	...	...	4
4. Phrenicotomy	...	...	3
5. Bronchographies	...	...	28

TREATMENT—

Benzyl Cinnimate	...	...	788
Collosol Calcium	...	...	217
Peptone	...	...	275
Lipiodol medication	...	...	28
Autohaemotherapy	...	...	24
Sanocrysin	...	...	72
Vaccine therapy	...	...	345

The occupations of the 122 patients in Hospital during the year were as follows:—

Accountants	...	...	2	Laundry Worker	...	...	1
Actress	...	...	1	Leather Worker	...	...	1
Apprentice Fitter	...	...	1	Joiner	...	...	1
Artist	...	...	1	Medical Student	...	...	1
Baker	...	...	1	Mill Hands	...	...	2
Barmaid	...	...	1	Miners	...	...	5
Builder	...	...	1	Nurses	...	...	5
Boatman	...	...	1	Office Boy	...	...	1
Bus Driver	...	...	1	Postman	...	...	1
Butcher	...	...	1	Pilot	...	...	1
Cinema Attendant	...	...	1	Packer	...	...	1
Coal Dealer	...	...	1	Saltworker	...	...	1
Cashier	...	...	1	Salesman	...	...	1
Commercial Traveller	...	...	1	Schoolgirl	...	...	1
Clerks	...	...	4	Schoolboys	...	...	3
Domestics	...	...	6	Secretary	...	...	1
Farm Labourer	...	...	1	Ship's Stewards	...	...	2
Factory Hands	...	...	6	Shop Assistants	...	...	4
Fish Hawker	...	...	1	Steel Grinder	...	...	1
Fruit Salesman	...	...	1	Storekeeper	...	...	1
Gardeners	...	...	2	Student	...	...	1
Housewives	...	...	32	Teacher	...	...	1
Iron Workers	...	...	2	Window Cleaner	...	...	1
Insurance Agent	...	...	1	Nil	...	...	5
Labourers	...	...	8				

TOTAL ATTENDANCES AT THE OUT-PATIENT DEPARTMENT :—

Pulmonary Tuberculosis	...	...	...	121
Bronchitis acute chronic	...	...	...	11,440
Cardio Vascular Disease	...	...	...	85
Pulmonary new growths	...	...	...	5
Unresolved pneumonia	...	...	...	18
Lung Abscess	...	...	...	3
Attendances at the Oto-Rhino Laryngeal Dept.				345

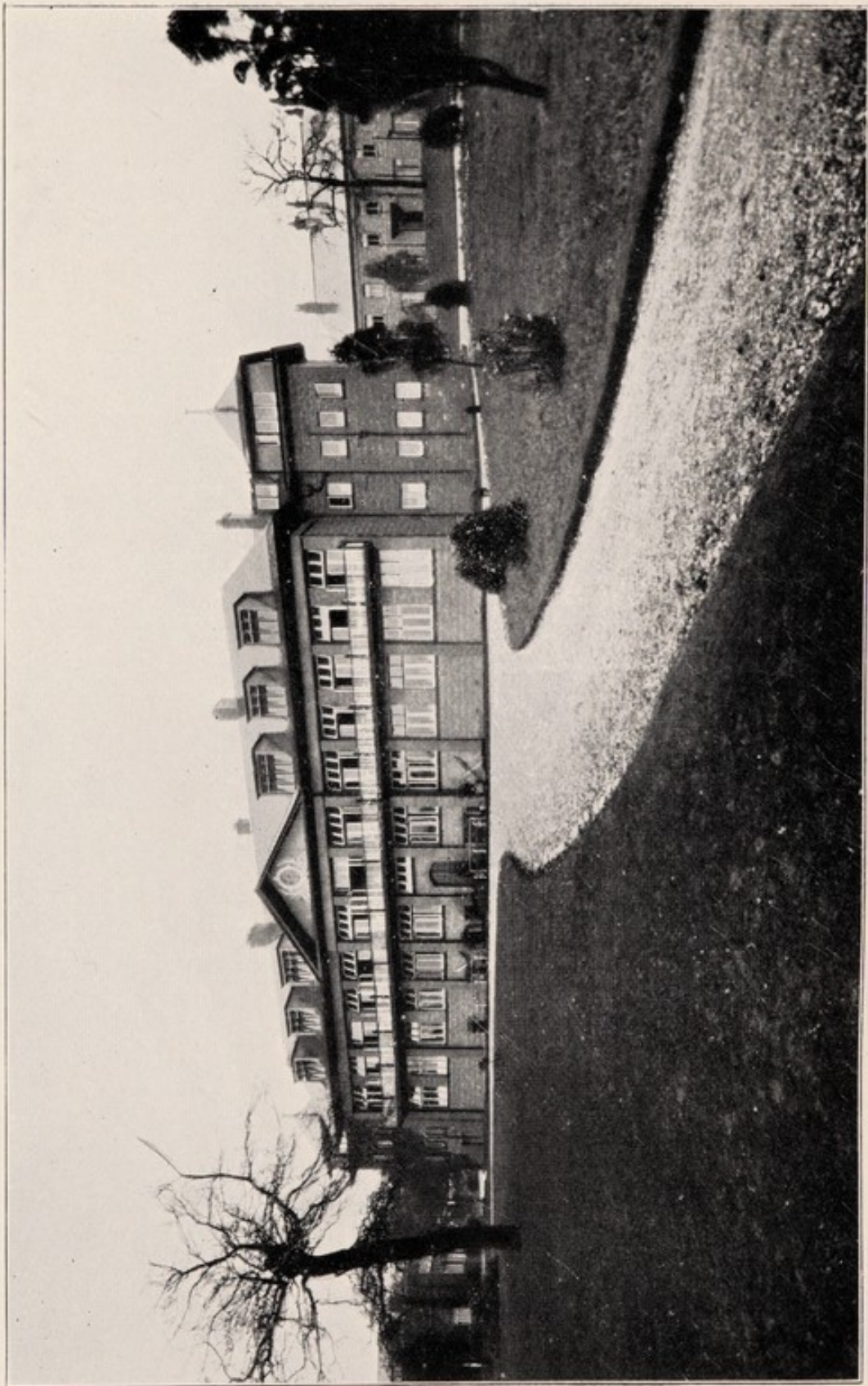
X-RAY DEPARTMENT :—

Hospital Radiographic Examinations	...	...	...	1,324
Torpenhow Admissions and Discharges	...	...	...	156
Contact Phthisis Investigations	...	...	...	22
Screening Investigations	...	...	...	7
Central Tuberculosis Clinic, Liverpool Corporation, Attendances	...	...	...	5,567

PATHOLOGICAL DEPARTMENT :—

Sputa	...	...	...	1,050
Urinary Investigation	...	...	...	875
Cerebro Spinal Fluid	...	...	...	—
Pleural Effusion	...	...	...	16
Post Mortems	...	...	...	14

E. T. BAKER-BATES,
M.D., M.R.C.P.



LIVERPOOL SANATORIUM, DELAMERE FOREST, FRODSHAM CHESHIRE

The Sanatorium, Delamere Forest

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT,
1934.

I have the honour to submit my Annual Statement for 1934 on the work of the Sanatorium.

There were **106 patients in residence on January 1st and 254 were admitted during the year**, making the **total number treated 360**; of these, **232 were discharged**, leaving 128 in residence on December 31st, 1934.

Of the discharged patients, **147 were males and 85 females**, and included in these figures were 35 deaths, one from carcinoma of the bronchus and one from enteric fever contracted during home leave.

The **average duration of residence during the year was 283·2 days**, the maximum and minimum of any patient being 738 and 3 days respectively. This shows an increase from 138·2 days in the previous year.

The **total number of patient days was 51,967**, males accounting for 36,230 and women patients 15,737, an increase of 6,354 on the previous year, of which males represented an increase of 7,480 and females a decrease of 1,126. There has been a steady decline in the number of women patients treated since the peak year of 1931, when the corresponding number of patient days was 21,089. The decline in the number of male patient days is considerably less, i.e., from 37,976.

The **average daily number of beds occupied was 142·4**, 99·3 of which were males and 43·1 females; this compares with a total daily average of 125 in the previous year.

Bed cases, defined by the Minister of Health as requiring two meals in bed daily, **averaged 35·05**, as compared with 40·5 last year; a valuable guide to the condition of the patients undergoing treatment is shown by the proportion of bed cases to the total, in this case there is little variation from that of former years.

The total number of beds available remains at 175, 111 male and 64 female, but some of these are interchangeable and can be used for either sex.

The percentage of beds occupied has risen from 71·4 per cent. for both sexes to 81·4 per cent.; or considering the sexes separately, males show a rise from 71·17 per cent. to 89·45 per cent., and females a fall from 71·8 per cent. to 67·34 per cent.

It is of interest to note that in 1900, when the Institution was first opened, the standardised death rates were

Pulmonary tuberculosis	...	...	...	1,418
Other forms	do.	...	...	603
All forms of	do.	...	...	2,021

per million living, in 1933 (the last year for which the figures are yet available) the comparable rates were

Pulmonary tuberculosis	...	...	...	639
Other forms	do.	...	...	160
All forms of	do.	...	...	799

or actually less than 2/5ths.

The figures for notifications of new cases show a similar satisfactory fall; in 1913, when notification was first made compulsory, the totals

Pulmonary tuberculosis	...	...	...	80,788
Non-pulmonary	do.	...	...	36,351
All forms	do.	...	...	117,139

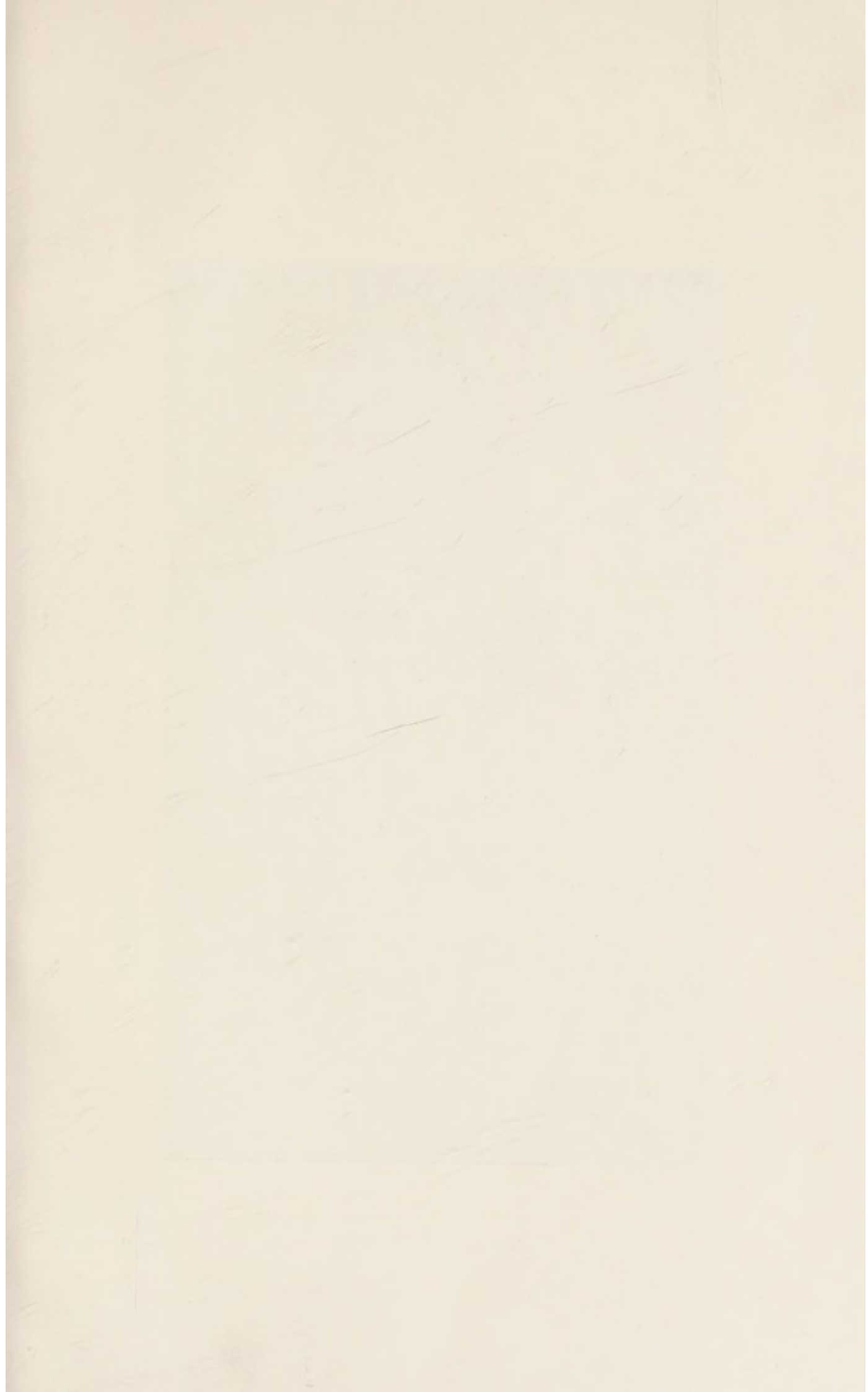
in 1933, including not only all new cases, but also fresh cases coming to knowledge otherwise than by notification, the figures were

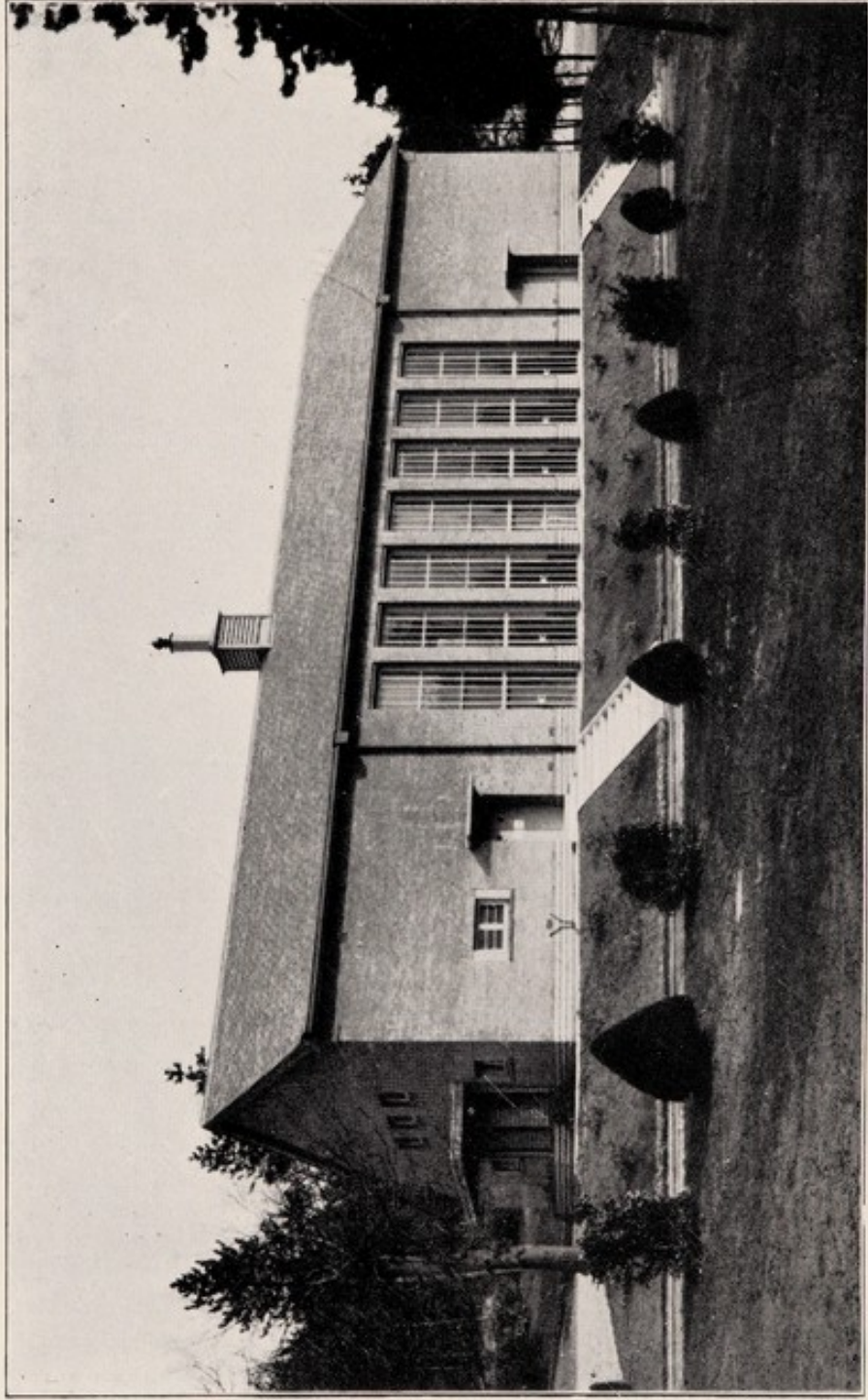
Pulmonary tuberculosis	...	...	...	49,958
Non-pulmonary	do.	...	...	16,393
All forms	do.	...	...	66,351

Is further proof required of the success of the campaign launched against this fell disease, or explanation of the diminishing demand for beds? Nevertheless, it would be a great error to falter yet in the march of progress, and the fullest use should be made of all facilities provided.

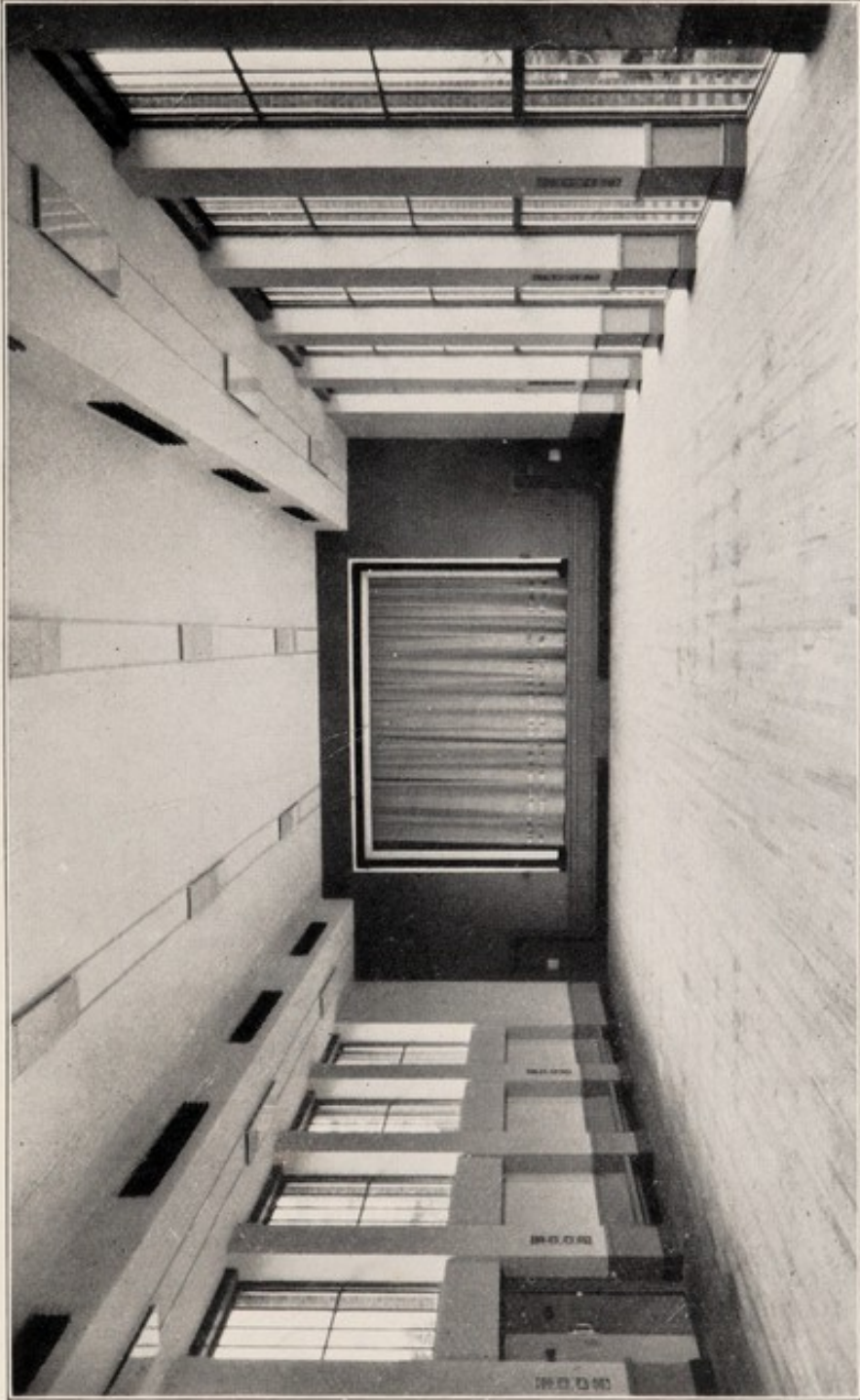
The general routine treatment of the patients has been continued and extended where benefit was likely to ensue.

During the year much attention was paid to laboratory work connected with the diagnosis of the disease and the differentiation of the organisms involved. To ensure that the full benefit of preventive medicine should be attained it is essential that exact knowledge of the mode of spread of infection should be available. Unfortunately the rival demerits of infection by ingestion as with food, milk, etc., compared with those of inhalation through dust particles and fragments of sputum have never been clearly defined, nor has the exact incubation period been proved; in the absence of very accurate knowledge on these subjects much labour may be wasted, and loopholes remain for avoidable infections. At a time when the supply of milk to school children and its greater consumption among the unemployed is being urged, it is essential that the dangers should be recognised if they exist.





NEW RECREATION HALL, LIVERPOOL SANATORIUM, FRODSHAM.



INTERIOR OF NEW RECREATION HALL



The apparent reduction in the number of deaths from non-pulmonary tuberculosis (attributed to infection by the bovine organism and usually milk-borne) seems likely, in view of recent work on the causal organism of pulmonary tuberculosis, to be discounted. Recent records show, that whereas a few years ago every pulmonary case was attributed to the ravages of the human type of bacillus only, there is definitely a fair proportion in which the bovine organism has now been clearly implicated. This provides two great problems which can best be solved in connection with an institution where large numbers of cases of pulmonary tuberculosis of varying ages, and children, from different environments, are treated and the organisms isolated and classified.

A start was made in the isolation, culture and classification of the organism from the sputum and discharges of every patient in the institution, and a very interesting series of results is in process of collection which may assist to illuminate these subjects of discussion. As a parergon, by the method of concentration and culture the organism can be demonstrated in a proportion of cases where ordinary microscopic methods have failed; by the culture method we have on occasion shown the presence of the tubercle bacillus in the sputum after as many as thirteen negative microscopic findings. It must not be thought that this method can replace the microscopic method either in efficiency or simplicity of technique, as in a small proportion of our cases we found the microscopic method more frequently positive, but as a collateral aid to the demonstration of the organism it well justifies the time and expenditure involved; apart from this aid, the great advantage of the culture method is that we can definitely place the organism grown in one of the three main groups (human, bovine, and those of an indeterminate or neutral growth) where other biological methods may be necessary to classify them definitely. With increasing knowledge of the number of infections from each type of organism the work of preventive medicine can be more concentrated on the main sources of infection.

The diagnosis of a disease is of great importance and interest to the physician, but the patient is usually more concerned about the prognosis or outlook for his future and how this may be affected by the various forms of treatment. Clinical experience is the best guide to a correct solution, but invaluable assistance has been obtained by the help of the laboratory methods of biological and biochemical research, blood and other fluids under examination may yield essential information of progress or warnings of a future breakdown.

The number of ex-service men suffering from this disease contracted on war service continues to show a slight diminution, but we still have a considerable number.

Table A.

SHOWING THE STAGE, SEX AND AGE GROUPS OF THE DISCHARGED PATIENTS,
WITH THE RESULTS OF TREATMENT.

STAGE.	TOTAL.	SEX.	CASES.	AGE.					Condition on Discharge				
				-15	-25	-35	-45	+45	Quiescent.	Great Improvement.	No Improvement.	Died.	
Observation.	3	M. F.	2 1	1 —	1 1	— —	— —	— —	— —	— —	1 —	— —	1 —
A ...	45	M. F.	20 25	4 10	6 8	6 5	3 1	1 1	18 24	2 —	— 1	— —	— —
B (i) ...	15	M. F.	12 3	1 —	5 1	3 —	1 2	2 —	7 2	5 1	— —	— —	— —
B (ii) ...	99	M. F.	68 31	1 1	11 12	22 12	14 5	20 1	17 8	42 20	9 3	— —	— —
B (iii) ...	70	M. F.	45 25	— 2	11 9	14 6	8 6	12 2	— 1	12 4	8 11	25 9	— —
TOTALS ...	232		232	19	64	70	40	39	77	87	33	35	

TABLE " B. "

MALE.							
Accountants	...	...	2	Skilled Craftsmen	...	...	11
Actor	...	...	1	Soldier	...	...	1
At School	...	...	5	Students	...	...	3
Barmen	...	...	2	Tailors	...	...	2
Carters	...	...	2	Tram Conductor	...	...	1
Clerks	...	...	21	Waiters	...	...	3
Colliers	...	...	4	Warehousemen	...	...	3
Commercial Travellers	...	...	4				<hr/>
Engineers	...	...	9				147
Factory Hands	...	...	2	FEMALES.			
Joiners	...	...	4	At School	...	...	11
Labourers	...	...	27	Domestic Servants	...	...	10
Lift Attendants	...	...	2	Dressmaker	...	...	1
Medical Practitioner	...	...	1	Factory Hands	...	...	3
Motor Drivers	...	...	6	Housewives	...	...	28
Musician	...	...	1	Housework (unmarried)	..	...	8
No Occupation	...	...	1	No Occupation	...	...	4
Police Constables	...	...	4	Nurses	...	...	3
Porters	...	...	5	School Teacher	...	...	1
Postmen	...	...	2	Shop Assistants	...	...	7
Railway Signalman	...	...	1	Typists	...	...	6
Sailors	...	...	3	Waitresses	...	...	3
Sanitary Inspector	...	...	1				<hr/>
Ship's Officers	...	...	2				85
Shop Assistants	...	...	11				<hr/>

TABLE " C. "

Liverpool	...	...	91	Oldham	...	...	2
London	...	...	32	Bootle	...	...	1
Cheshire	...	...	26	Bolton	...	...	1
Blackpool	...	...	26	Chorlton-cum-Hardy	...	...	1
Isle of Man	...	...	18	Wales	...	...	1
Wigan	...	...	14				<hr/>
Birkenhead	...	...	9				232
St. Helens	...	...	6				<hr/>
Chester City	...	...	4				

Table " A. " contains a complete analysis of the stage, sex, age and condition of the 232 patients discharged during the year, comparable with those issued for many years. From this it will be seen that with the exception of three patients sent for observation where the conditions were found due to other diseases, all the

remaining patients suffered from pulmonary tuberculosis. The three observation cases, one a boy of 16, was only retained three days, as no evidence of active pulmonary tuberculosis was found. A female of 25 was found to be suffering from old pleural disease without evidence of pulmonary complication, and discharged, greatly improved, after six weeks' treatment. The third, a man of 28, died of pulmonary neoplasm.

The proportion of "A." or sputum negative cases has again declined, from 25.4 per cent. in 1933 to 19.4 per cent. in 1934. As "A." cases included doubtful or earlier cases of infection in which there is no open lesion, the smaller percentage of these cases usually denotes a more advanced type of disease treated. Another fact must be noted, greater attention was paid to the examination of pathological specimens, and by the finding of the organism a greater proportion was proved where previously confirmation was lacking. By careful examination of specimens each month by microscopic methods and, where these fail, by culture methods, the diagnosis was definitely confirmed in a number of doubtful cases, to the benefit of the patients and prevention of otherwise premature discharge, thus enabling treatment to be carried out fully at the earliest possible moment.

The percentage of "Bi" cases has declined to 6.5, whilst that of "Bii" cases has shown considerable increase, and the percentage of "Biii" cases also a small decline.

The number of patients under 15 has shown a considerable decrease, the numbers of under 25 are approximately the same, and of under 35, 45, and over 45, all show increases.

Results of treatment continue to be very satisfactory, 77 (33.2 per cent.) were discharged quiescent, fit to return to their work and non-infective. A further 87 (37.5 per cent.) left greatly improved; the remainder, amongst whom are included those who left prematurely before their treatment was completed, failed to show definite improvement, or died, continues to represent a very small proportion.

As in previous years, a more detailed analysis is given in the addenda, with a detailed report of the results of the laboratory work.

The X-ray apparatus has been used to the fullest extent both for radiosopic and radiographic examinations and permanent records of the condition of each patient's chest, and where necessary of all bone or joint lesions made; these have proved of

assistance and help both in diagnosis and treatment. During the year great improvements were made in the plant, which has been thoroughly re-organised and improved both from the point of view of safety to the staff and patients and of the results obtained.

The supply of electric current by the local authority has proved very satisfactory during the year, and there has been no interference in any way to cause dislocation.

The drought of 1933 was followed by the much more serious drought of 1934, causing great anxiety to municipal and rural authorities, but it is very satisfactory to record that, notwithstanding all the demands made on it, the supply of water was amply adequate, and at no time was there any need for restrictions in its use. The plant functioned well without hitch or fault: the accessory supply from the local authority's mains through the farm has not been connected as the scheme is as yet incomplete, but arrangements have been made for this to be done during the year.

The sewage plant constructed during the previous year has proved very satisfactory, all causes for complaint about the effluent have been removed.

The condition of the grounds continues to merit the praise of visitors and residents. Notwithstanding the drought, the flowers and shrubs have done well, and the clearing, levelling and fertilising of the lawns and woods have produced a wonderful growth of wild flowers and grass to the great benefit and pleasure of the patients, and greatly increased amenities.

A belt of beech trees has been planted round the grounds: these will take a considerable time to grow to even moderate size, but will help to replace the soft wood trees which are now reaching maturity.

Fruit and vegetables have been grown in increasing quantities, and of even better quality than previously, supplying all possible requirements of the patients and staff.

Again the live stock department has to record a successful year, the pigs and poultry have prospered and there has been a remarkable freedom from disease. All the requirements of the Institution for poultry, eggs and pork have been fully met and a large surplus disposed of at satisfactory prices.

All machinery and plant, including the boilers, heating and cooking plant, washing machines, refrigerator, etc., have been kept in satisfactory condition and little repair has been necessary.

The laundry remained closed, the work as in past years being done by an outside contractor, and the plant retained in good order ready for re-opening if necessary.

As in previous years, religious services for all denominations have been regularly held and well attended, and the bed patients receive adequate ministrations from the visiting clergy; again the Lord Bishop of Chester held a confirmation service for a number of patients and members of the staff.

The dietary has received very careful consideration with a view to securing the best obtainable supplies at an economic price. The standard of the bread, meat, etc., delivered has been kept very high, whilst the vegetables and fruit grown on the premises, supplemented by purchases where necessary, have all been excellent.

Another year of successful work by the Recreation Club has to be recorded, and a deep debt of gratitude is due to those patients who have taken so much interest in its work and brought light and comfort to their fellow-sufferers who are compelled to spend a part of their lives here. It is difficult to recall the existence of an institution of this sort without such variation and amusement, all the arrangements for the recreation of the patients come within its management, and it has organised and carried through entertainments given by the patients themselves, as well as a weekly display through six winter months of cinema films with a constant succession of dramatic performances, concerts or other entertainments.

To the members of those dramatic societies and concert parties who have come here to give productions, as also to the film-renting firms who have supplied a continuous change of programmes, we owe our sincerest thanks; they are, indeed, Good Samaritans.

Whilst dealing with the entertainments, it is necessary to remember the great service which the new Recreation Hall supplies, it has become a pivot of the institution and is in almost constant use: for religious gatherings it has been ideal, the different denominations can hold their services without interference or interrupting the routine of the institution. For cinema entertainments the accommodation is perfect, whilst all the parties coming with concerts and plays are unanimous in their praise of the hall and the scenery and equipment of the stage.

No extension of the premises has been made during the year, but all outside work has been painted and the fabric kept in excellent repair.

The library continues to receive gifts from many friends and subscribers and the supply of books has been satisfactory and greatly appreciated by all the patients, and I again venture to appeal for a continuation of the gifts.

No change has taken place in the medical staff during the year, Dr. Alexander Cubie, M.B., Ch.B., having agreed to remain for a further year.

In his annual report on the state of the public health for 1933, the Chief Medical Officer, Sir George Newman, K.C.B., M.D., etc., in discussing sanatoria, says, *inter-alia* :—"The first point is perhaps the need of appreciating that every efficient large sanatorium should be a sanatorium hospital. The former idea that a sanatorium was only suitable for 'early' cases has been more and more abandoned since it has been found that an increasing number of patients with more extensive and even advanced disease may ultimately become suitable for strict sanatorium treatment. A considerable number of patients of all categories who will ultimately become suitable for strict sanatorium treatment, involving occupational therapy, require, however, an initial period of hospital treatment. The effective sanatorium should in fact be a sanatorium-hospital, dealing with all its patients on thoroughly modern, up-to-date lines, medical or surgical. The all-important method of treating certain patients by absolute rest does not appear to be so thoroughly recognised, or at least so generally practised, as it should be. Absolute rest is irksome to the patient, who would naturally prefer a more active method of treatment, and frequently implies an increase in the nursing supervision. These factors render this method of treatment difficult, but they should not be allowed to exercise undue influence."

This supplies a text for another appeal for raising the standard of training of our nurses, as without their efficient co-operation, which can only be secured by adequate training, the status called for cannot be achieved. The standard of years past, when the ideal of a sanatorium was a sort of convalescent home for early ambulant cases of pulmonary disease, has changed. To-day, with the advance of medical, surgical, radiological and laboratory procedure, no institution can afford to remain stationary, and nursing staffs must bear their full share in the march of scientific progress. X

Another matter which is tending to become a hardy annual in my reports is the need for special wards for the treatment of expectant mothers suffering from pulmonary tuberculosis and their confinement and after-care. X

At present the number of potential cases appears small, but every encouragement has been received from the local authorities who have reviewed the situation, and they are of opinion that there is a large unexplored field of sickness and disaster among young women who after some years of business or factory life have taken on the responsibilities of a home and motherhood, only to find themselves the victims of "consumption". Could any field offer a better opportunity for service to the State and to the public than to help mother and child in these cases?

It is again my privilege, as in past years, to thank those members of the staff who have so willingly given their aid and co-operation in carrying on the work of the institution so successfully.

A. ADAMS, M.D., D.P.H.

ADDENDA.

Table "A" as in past years shows a complete analysis of patients discharged during 1934. In the first column they are divided into those sent for observation where pulmonary tuberculosis was suspected, but were eventually found to be suffering from some other disease, and those found suffering from pulmonary tuberculosis in the various stages. Stage A. representing those patients where the history, physical signs and radiological evidence led to a conclusion but the causative organism was not identified. Stage Bi, Bii, and Biii contain all the cases in which bacteriological proof has been secured and divided into groups according to the extent of the lung involvement and amount of systemic disturbance. The second column gives the sex distribution in each group, and in the third the division is carried further into the various age groups, the last series of figures demonstrates the results of treatment obtained in all groups.

A comparison with the previous year shows that three "observation" cases were discharged during 1934. One, a boy of 16, working as a coppersmith, suffered from pain diagnosed as pleuritic, but no evidence of active pulmonary disease was found and the symptoms were attributed to trauma.

The second, a woman of 27, was suffering from pleural thickening, but again no active pulmonary lesion was found. The third, a man of 28, suffered from carcinoma of the bronchus involving the upper and middle lobes of the right lung, an opportunity later occurred and was taken advantage of, which fully confirmed the diagnosis made.

Last year comment was made on the steady decline in the number of patients treated for pulmonary tuberculosis in the "T.B." minus group, and it was stated that the fall had been about 15 per cent. since 1928; this year a still greater reduction has to be noted, i.e., from 25.4 per cent. in 1933 to 19.4 per cent. in 1934: less than one in five of our total patients is non-infective. There are numerous contributory causes to account for this decline, unquestionably the type of disease diagnosed to-day differs from that formerly seen. "T.B." is becoming more and more a chronic disease, often with an insidious onset, and the patient fails to seek medical advice, or the presence of the disease is not recognised until it is well established and pathologically an open lesion; but another factor must be considered, i.e., the improved methods of examination of those discharged, and it is largely due to the results of laboratory work that so many have been transferred to the "B"

X

or sputum positive group; figures illustrating this are given in a later section.

Of the 45 cases in the A. group at least two have since been bacteriologically proved to be suffering from tuberculosis, and of the remainder the larger majority were discharged before the cultural method of examination was commenced, and more recent experience leads us to believe that a considerable proportion under further examination would be transferred to the B. groups; in all of them both clinical and radiological evidence pointed to the presence of active tuberculous lesions.

The "B." groups require little comment other than again to draw attention to the increased proportion of those in "Bii." stage, the majority were admitted here within a short period of first being diagnosed and illustrate our remarks on the changing character of the disease.

SEX. That pulmonary tuberculosis is usually a disease of adolescence is general knowledge but it is not so well known that the age at which the incidence is highest amongst females is much earlier than in males, and the tendency is for the peak figures of morbidity and mortality to fall also at a comparatively early period; this is well illustrated in the records.

AGE. The returns for this year compare closely with those of the past few years, and other than the remarks made in the previous paragraph call for little comment.

RESULTS OF TREATMENT. Again satisfactory results of treatment of the various groups are recorded; the numbers discharged in the quiescent group are smaller than those for some years, but before a patient can be placed in this category there must be a complete absence of physical signs of active disease and also of the organism in the sputum; with the improved laboratory methods now in use we are finding the organism in cases which would previously have placed them in the quiescent group, and this explains the apparent anomaly: the "greatly improved" in consequence shows a considerable increase and the "no improvement" group a fall, whilst the number of deaths is slightly increased, the percentage being 15 as against 12 in the previous year.

RADIOLOGY. During the year over 360 permanent radiographic records were made and a similar number of radiosopic.

LABORATORY. A considerable amount of work has been done during the year in the examination of various specimens for diagnostic and prognostic purposes.

BLOOD SEDIMENTATION TESTS. It is known that in various wasting diseases, as also in some of the infective fevers, there is a change in the fluid content of the blood which permits of a more rapid deposit of the cellular elements when clotting is prevented, and an index of the rate of sedimentation is a guide to the amount of departure from the normal. Various forms of apparatus and methods have been described and great difficulty arises in assessing the results obtained by other workers, therefore it is desirable that only conventional standards should be used. The apparatus and routine, as described by Westergren and used extensively on the Continent as well as in this country, have been solely employed, and our results are therefore comparable with those most quoted. A high sedimentation rate usually denotes an active lesion when the question of a raised temperature and other abnormal conditions of the blood have been discounted, and a fall of the rate points to an improvement in the patient's condition, whereas a sudden rise is usually due to a relapse; but it is questionable if the results obtained justify the time and trouble expended, and if the same information is not available by clinical observation. Further work is desirable before definite conclusions can be reached.

DIAZO REACTIONS. The presence of certain bodies of the aromatic series in the urine, as shown by positive Diazo, Erlich's, Russo's or Weiczs' tests, are indications of an acute miliary, or blood borne infection of tubercle if diseases like typhoid and measles are eliminated, and the recurrence or disappearance of the phenomenon is often a useful guide to the patient's progress.

SPUTUM ALBUMIN. The presence or absence of globulins and albumins in the sputum of all the patients here has been carefully noted during the past twelve months, and valuable information obtained; almost invariably the disappearance of albumin has coincided with a definite improvement, whilst a recurrence has in a number of cases ante-dated by some weeks the reappearance of the organism. The apparatus and work necessary for this test are simple and require little time, whilst the patient is not subjected to the effusion of blood necessitated by the sedimentation test, and the result obtained possibly more reliable. Over 1,800 specimens were examined during the year.

MICROSCOPIC EXAMINATIONS. The sputum of every case admitted with expectoration is examined on admission, and if negative, for several days; later all are examined at least once a month and the results recorded, in this way much useful data has been accumulated, after as many as 23 negative examinations we have finally found a positive result. In all, nearly 1,900 microscopic examinations were made.

CULTURAL METHODS. In recent years there has been considerable progress in the isolation, identification and classification of tubercle bacilli, mainly as a result of the original researches of Stanley Griffiths, Jensen, and Cumming, and it is very desirable that this work should be extended and fully utilised.

The enquiry organised by the Medical Research Council has disproved the claim of Löwenstein that in many varied clinical conditions, such as rheumatism and diseases of the central nervous system, a tuberculous bacillaemia exists, and little further information is to be gained on this subject.

In the case of suspected tuberculous lesions, on the other hand, the segregation of the causal organism is vitally important both from the aspects of diagnosis and treatment as well as from the hygienic and preventive standpoints, for it may assist in tracing the primary source of the infection.

The discharges from 491 patients were tested for the presence of the organism, a minimum of two smears made in each case, and where necessary duplicated or subcultured.

In many cases, fluids from the pleura, abscesses or sinuses were also examined, and in most of these exactly the same organism was obtained as in the sputum, thus confirming the unity of the origin of the disease.

All the culture media used was prepared in the laboratory, at a considerable saving in cost, and various formulae tested to obtain that most suited to our needs and likely to give the best results; that finally selected was a combination of Jensen's with some of the variations of Cumming's modification.

The "Universal container," as recommended by Dr. J. E. McCartney, of the L.C.C., has been used in every case, to the exclusion of test tubes, etc., and has proved a great success; only five tubes were found contaminated out of all the cultures made, and in no case has the medium tended to dry or desiccate.

Of all the specimens examined, 327 gave positive tubercle cultures, and 164 negative.

Comparing the results obtained by microscopic and culture methods of examination of sputum, we found—

Culture positive	Microscope positive	145
negative	negative	21
positive	negative	10
negative	positive	8

On enquiry into the disparity between the latter two groups it was found a considerable time had elapsed between the microscopic examinations and the culture, and possibly the character of the specimens had changed in the interim, so further investigation was made, showing that in only four cases was the culture negative and microscope positive where the examinations were confined to a period of three months; the detailed result was:

Case	" A "	Microscope	6	over	5 months	pos.	Cult.	1	Exam.	} Negative
" B "		5		3		+	1		-	
" C "		5		3		+	1		-	
" D "		4		3		+	2		-	

Where the culture was positive and microscopic search failed, a minimum of four specimens was examined with an average of over six, and in one case twenty different specimens extending over twelve months.

Every precaution possible is taken to ensure that the results obtained are absolutely reliable, and the possibility of mistaking other acid-fast organisms for the tubercle bacillus well guarded against, the figures quoted above confirm this.

The time and patience expended in these investigations are well justified by the results recorded and the promising field opening out.

Torpenhow Open-Air School

MEDICAL REPORT, 1934.

As we believe the success of Torpenhow depends on its splendid situation and the utilization of Nature's bounty of sunshine and fresh air, rather than other well-intentioned methods of medical treatment, it becomes increasingly difficult each year to make a record of new points of interest and not to offer you a mere re-dressing of previous reports.

During the year 1934 we admitted 109 children.

Liverpool	...	Girls	30	...	Boys	32
Cheshire	...	,,	21	...	,,	26

The ages of both sexes giving an average of $9\frac{1}{2}$ years.

The total days in residence were 18,497.

Average duration of stay	...	...	116 days
Maximum	,,	,,	221 ,,
Minimum	,,	,,	1 ,,

With the help of Miss Anson, the Matron, I have compiled the following tables, which I think show points of interest.

Table I.

Weight increase during stay at Torpenhow :

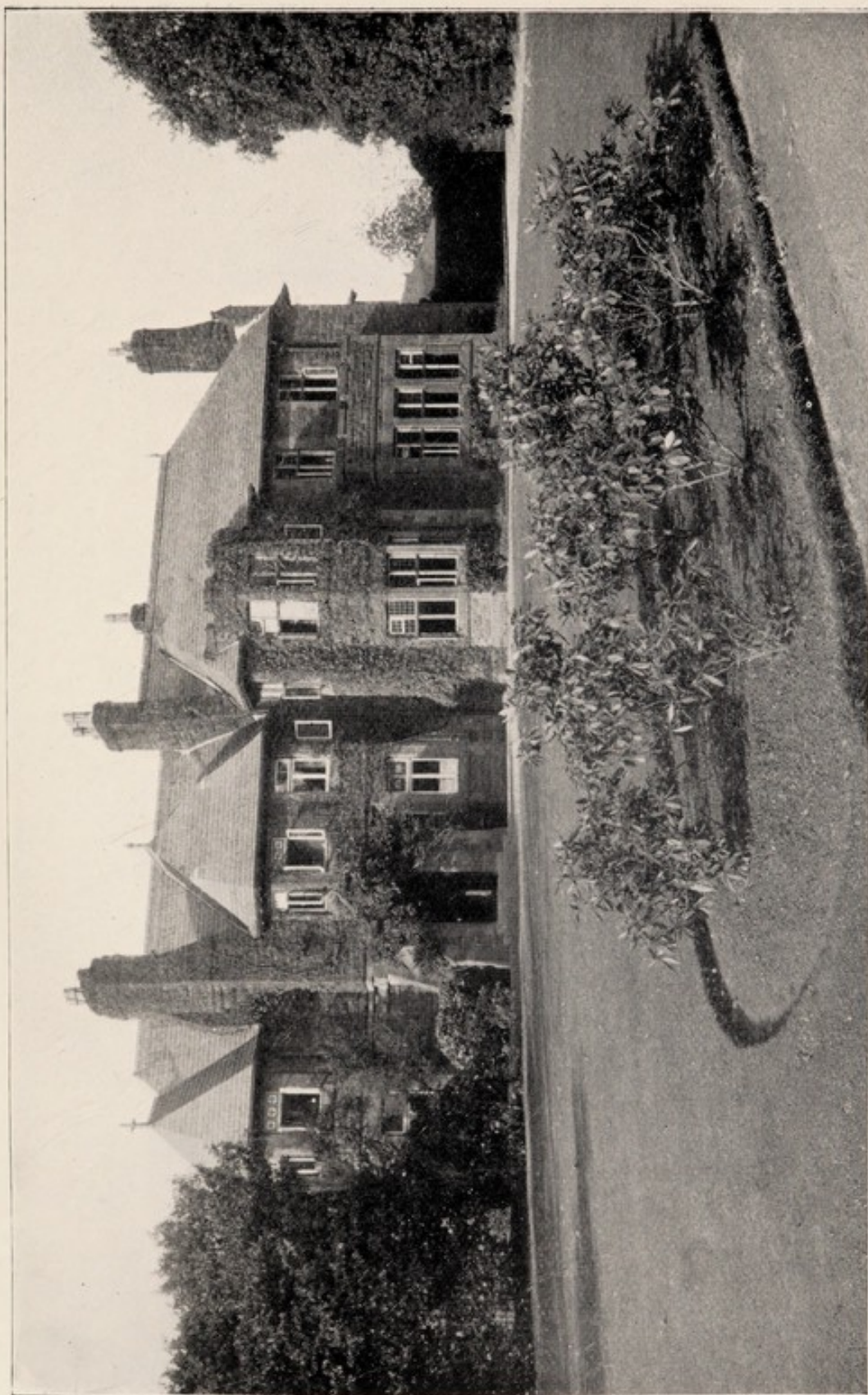
	Girls.	Boys.
Liverpool ...	8 lbs. ...	7 lbs.
Cheshire ...	7 ,, ...	6 ,,

Height increase :

Liverpool ...	$1\frac{1}{8}$ inches ...	$1\frac{1}{8}$ inches
Cheshire ...	1 ,, ...	$\frac{7}{8}$,,

Chest measurement increases :

Liverpool ...	$1\frac{1}{8}$,, ...	$1\frac{5}{8}$,,
Cheshire ...	$\frac{7}{8}$,, ...	$\frac{7}{8}$,,



TORPENHOW OPEN-AIR SCHOOL FRANKBY, WIRRAL, CHESHIRE.

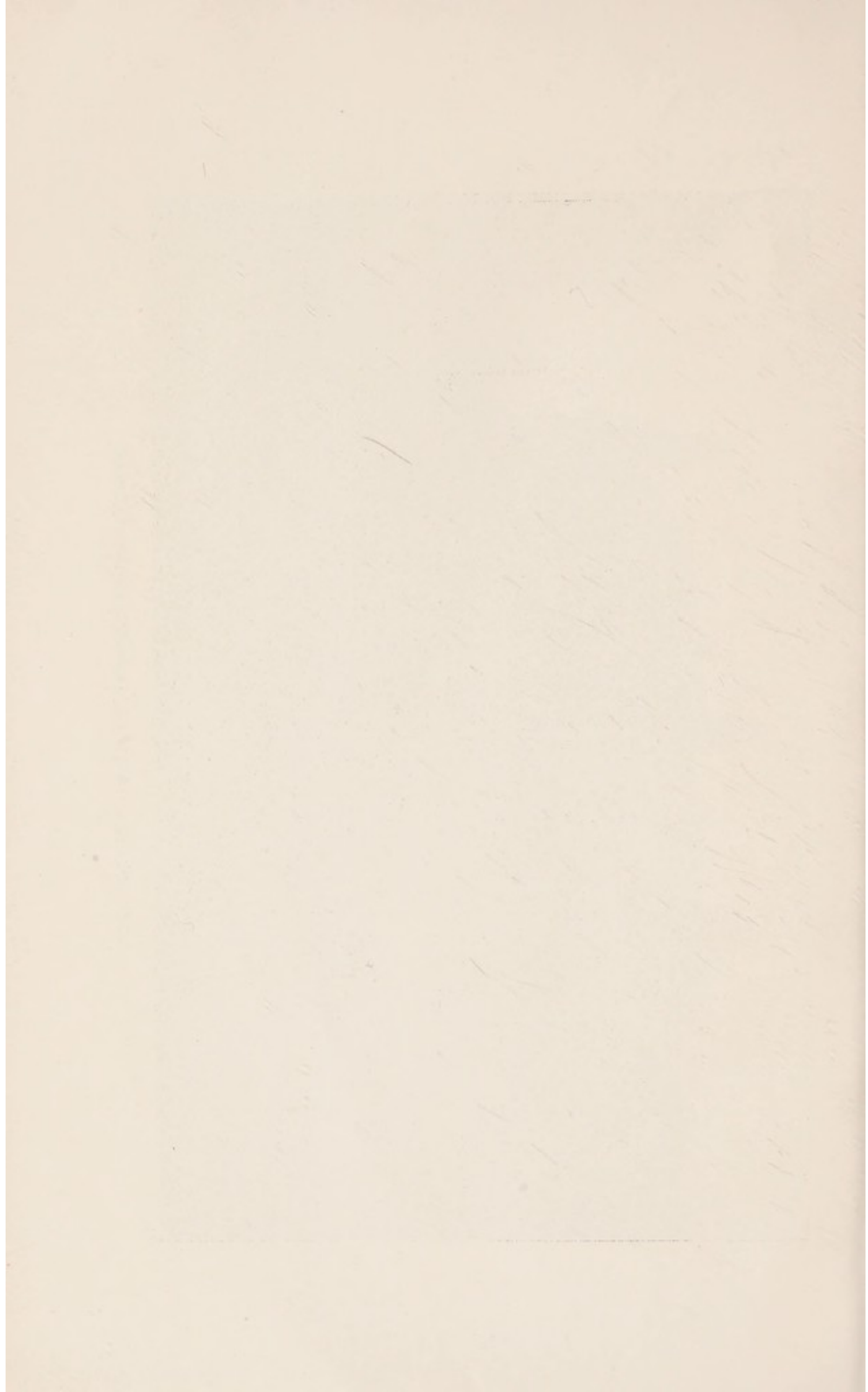


Table II.

Average weights of children :

		GIRLS.	Boys.
Liverpool	...	3 st. 7 lbs. 15 oz.	3 st. 11 lbs. 9 oz.
Cheshire	...	3 st. 12 lbs. 7 oz.	3 st. 13 lbs. 11 oz.

From Table I it would seem that the improvement in the Cheshire children is less marked than in the cases of the Liverpool children. We therefore tried to find out if this was so, and Table II is the result.

It will be seen that the Cheshire girl on admission averages 4 lbs. 8 ozs. more in weight than her town sister, while the average in the boys is 2lbs. 2ozs. more. When they leave us their weights are approximately the same.

The known air and sun-starvation of the town child, in addition to the probable food deficiency, surely points out the value of a special school being placed well out in the country rather than on a suburban fringe.

Ninety-nine per cent. of the children have received prophylactic inoculation for diphtheria and scarlet fever, and we are again able to record no apparent ill effects.

The children have the reason for this procedure explained to them by the Matron, and I have not found any child to show any fear during the course.

We held our customary re-union in the summer and 204 children returned for the event, a sure index of their liking for the place and their affection for the Matron and Staff.

We noticed a marked improvement in the general condition of the children.

This number is made up as follows :—

Liverpool.	Girls	87	(24 over school age).	Girl Guides	20	x
„	Boys	64	(16 „ „ „).	Boy Scouts	19	x
Cheshire	Girls	20	(6 „ „ „).	Girl Guides	4	x
„	Boys	33	(8 „ „ „).	Boy Scouts	3	x

x as a result of being enrolled while at Torpenhow.

Six girls and two boys from Liverpool were reported as attending non-residential open-air schools since leaving us.

During this year there has been much interest and friendly competition shown by the older children in various forms of hand-work, during the winter evenings. This has been taught and supervised by the Matron and her house staff.

The children are keenly interested in nature study and the garden.

Cookery instruction has been continued in the house and the children helped to make their own Christmas pudding and cakes.

Football in the winter and cricket in the summer have, as usual, been supervised by our friends of Toe H., and their, now indispensable, help at the Re-union Sports was as welcome and efficient as we could wish.

We again wish to thank Mr. Glasspool, the Headmaster of Calday Grange Grammar School, for his willingness again to loan sports material for this function.

We must not forget the thanks due to our Guide and Scout Instructors, Ministers of Religion and other friends who have helped so freely.

In conclusion, may I thank all the staff, house and scholastic, for what they have done to perpetuate the "even tenour of our way."

W. GRANT McAFEE, M.B., CH.B., J.P.

TORPENHOW DENTAL REPORT, 1934.

During the last nine months of the year regular fortnightly visits have been made by me to Torpenhow, where all the examinations and nearly all the extractions have been carried out. The children have visited my surgery on the intervening Fridays.

The only exceptions to these visits have been due to holidays, sickness and the extra busy time the staff had prior to the Annual Meeting and the Annual Re-union at Torpenhow.

I have noticed this year an increase in the number of children who have had clean mouths due to having received previous treatment at various school clinics.

	Examina- tions.	Fillings.	Extractions.	No. in Good Condition.	Scalings.
Cheshire Boys ...	26	14	28	10	1
Girls ...	21	15	17	11	3
Liverpool Boys ...	31	21	27	15	2
Girls ...	31	42	30	20	6
	—	—	—	—	—
Total ...	109	92	102	56	12
	—	—	—	—	—

The children are almost amazingly good when receiving treatment either at Torpenhow or at my Surgery. This I attribute to the discipline they have received at Torpenhow before they come to me for attention.

Again I wish to thank Matron and her Nurses for their great and able assistance.

(Sgd.) GEO. E. WATTS,
L.D.S. (V.U. Manc.).

EDUCATION.

THE FOLLOWING NOTES ON THE EDUCATIONAL WORK OF THE SCHOOL HAVE BEEN SUPPLIED BY MISS LINDSAY, INSPECTRESS OF SPECIAL SCHOOLS, LIVERPOOL EDUCATION AUTHORITY.

The work in an open-air school has many sides, not the least important of which is the educational one. For one thing, it is being increasingly recognised by medical authorities that children in open-air and hospital schools make more rapid advance to complete recovery of health if they are happily and usefully occupied. The work done by the children under the teachers at Torpenhow is thus an integral part of the whole open-air treatment of that school. Moreover, the education given has a direct value of its own. Children who have missed much schooling through ill-health are given individual attention in the three R's at Torpenhow. They are thus enabled to return to ordinary school not only physically fit to attend but educationally better able to take their place with normal children.

As it is important that these delicate children should develop out-of-door interests and have a scheme of physical education suited to their physique, the curriculum emphasises such subjects as gardening, nature study, country dancing, eurhythmics, local geography and history, while interest is happily maintained by suitable handwork and by project work which links up these separate subjects through the natural activities and fundamental interests of the children. Under the direction of the Head Teacher, for example, "The Home" has, during the past term, proved to be a valuable centre of interest for many activities, and for the teaching of English, history, geography handwork and hygiene.

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Alexander, Mrs. M. S., "Gayton Croft," Heswall	2 2 0	
Anon, per the Lord Mayor		25 0 0
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Arkle, Miss E. A., Do.	1 1 0	
B		
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British Insulated Cables Co., Ltd., Prescot	6 6 0	
Carried forward ...	52 18 0	27 7 8

	Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Brought forward ...	52	18	0	27	7	8
Brocket, Lord, The late, "The Node," Welwood, Herts.	1	1	0			
Brocklehurst, Frank, "Anthony's Close," Caldy, Cheshire	2	2	0			
Brocklehurst, George, 20, Alexandra Drive ...	1	1	0			
Brodrick, Leitch & Kendall, "B" 18, Liverpool and London Chambers, Liverpool	1	1	0			
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C

Cadbury Bros., Ltd., Bourneville				1	0	0
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C.M.B.	2	2	0			
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Cope, Miss Alice, "Grey Cottage," Westminster Road, Branksome Park, Bournemouth ...	2	2	0			
Crawford, Archd. I., "Fernlea," Mossley Hill ...	16	0	0			
Crawford, A. Hunter, 21, Avenue Road, London, N.W.8.	5	0	0			
Crawford, Wm., & Sons, Ltd., Fairfield Biscuit Works, Liverpool	6	6	0			
Crosfield, Joseph & Sons, Ltd., Warrington ...	5	5	0			
Crosfield, The late Miss G., 57, Parkfield Road, Liverpool	0	5	0			

D

Davies, Benachi & Co., Orleans House, Edmund Street				1	1	0
Dempster, Miss J. H., 9, Kingsmead Road South, Birkenhead	0	10	6			
Dempster, Mrs. William, "Holmfield," Shrews- bury Road N., Birkenhead	2	2	0			
Dovener, Miss L. M., Woolton Road, Wavertree ...				1	1	0

Carried forward ...	134	10	6	41	10	8
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	Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Brought forward ...	134	10	6	41	10	8
E						
Earle, Miss Lilian I., Dowsefield, Allerton ...	1	1	0			
Earle, A. B., "The Old Hall," Puddington ...	5	0	0			
Eccles, Mrs. A. Percy, "Cartre," Westminster Park, Chester	0	10	6			
Edwards, Thomas H., "Beech Lawn," Elmswood Road, Liverpool	1	0	0			
Evans, Mrs. E. J., 7, Hayman's Green, West Derby	1	0	0			
Evans, Sons, Lescher & Webb, Ltd., Hanover St., Liverpool	3	3	0	3	3	0

F						
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Fenn, Arthur, Newlands, Neston, Wirral ...	2	2	0			
Fernie, Miss J., "Raby Hall," Bromborough, Ches.	2	2	0			
Forwood, Mrs. Miles, "Lindeth Fell," Windermere	2	2	0			

G						
Gardner, Willoughby, "Y Berlfa," Deganwy, North Wales	2	2	0			
Gibbons, J. R., 9, Linnet Lane, Liverpool ...	1	1	0			
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Gibbons, Miss, ditto	3	3	0			
Glazebrook, W. R., "Lydiate," Willaston, Ches.	8	8	0			
Glover, Mr. and Mrs. E. Otho, "The Bent," Frodsham	2	2	0			
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Carried forward ...	210	10	11	46	14	8

	Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Brought forward ...	210	10	11	46	14	8
H						
Hannay, A., & Co., 14, Chapel Street, Liverpool...	3	3	0			
Harker, R. S., "Erinhurst," Frodsham ...	2	2	0			
Harrison, Sir Heath, Bart., "Le Court," Liss, Hampshire ...	2	2	0			
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Heyder, Mrs., "Brucklay House," Mossley Hill...	2	2	0			
Hibbert, Mrs., "Gardeners Arms," 33, Christleton Road, Boughton, Chester ...				4	0	0
Hignett, Miss B. W., "Bankfield," West Derby	6	6	0			
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Hope, Dr. E. W., O.B.E., "Coppice," Caldy, Wirral ...	1	1	0			
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I						
Imperial Tobacco Co., Ltd. (Ogden's Branch), Boundary Lane, Liverpool ...	30	0	0			
Irving, J. A., & Co., Ltd., 27/29, Stanley Street	2	2	0			
I. Zingari Challenge Cup Competition per F. A. R. Chiswell, Hon. Treas., 10 Burnham Road, Mossley Hill, 18. ...				2	10	0
J						
Jacob, W. R., & Co., Ltd., 286/304, Scotland Road, Liverpool ...	4	4	0			
Jarratt, Mrs. J. E., 22, Hesketh Road, Southport	1	1	0			
Johnston, Mrs. H., "Bryn Mel," Glyn Garth, Menai Bridge, Anglesey ...	1	1	0			
Johnston, Mrs. H. G., J.P., "Raby House," Willaston, Cheshire ...	4	4	0			
Jones, The late Arthur Heywood, "Holly Bank," West Derby ...	1	1	0			
Jones, W. H., 5, Sandlea Park, West Kirby ...	1	1	0			
Jones, Mr. and Mrs. E. R., "Briarley," Alexandra Drive, Liverpool ...	1	0	0			
Carried forward ...	328	19	11	53	4	8

	Subscriptions.	Donations.
	£ s. d.	£ s. d.
Brought forward ...	328 19 11	53 4 8
K		
Kaye, Julius, 22, Aigburth Drive, Liverpool ...	1 1 0	
L		
Lake, George H., c/o Lindsay Ellsworth & McArthur, 13, Harrington Street, Liverpool	1 1 0	
Lewis's, Ltd., Ranelagh Street, Liverpool ...	4 4 0	
Lewis & Mounsey, 3, Lord Street, Liverpool ...	1 1 0	
Liverpool Clerks' Association, 19, James Street, Liverpool	3 3 0	
Liverpool Co-operative Society, Ltd., 162, Walton Road, Liverpool	2 2 0	
Liverpool Council of Social Service Charities Fund, 14, Castle Street, Liverpool		48 0 0
Liverpool "Daily Post and Mercury," Victoria Street, Liverpool	1 1 0	
Liverpool Printing and Stationery Co., Ltd., Mercer Court, Redcross Street, Liverpool...	1 1 0	
Liverpool Shipbrokers' Benevolent Society (J. H. Welsford Bequest), 76, The Albany, Liverpool	21 0 0	
Liverpool Warehousing Co., Ltd., 39, Old Hall Street, Liverpool	4 4 0	
Lockett, W. & J., Ltd., 12, King Street, Liverpool	2 2 0	
Logan, Dr. and Mrs., 29, Aigburth Drive ...	1 1 0	
L. M. & S. Railway Hospital Fund, per R. E. Lyon, Crewe Station	5 5 0	
Longton, Mrs., "Fairfield," Broad Lane, Bracknell, Berks	2 2 0	
Lupton, William, 5, Waterford Road, Oxton, Birkenhead	2 2 0	
M		
Mahler, Miss L. "Thorndale," Warren Drive, Wallasey	1 1 0	
Major, A. L., "Wirral Lodge," Oxton, Birken- head	8 8 0	
Maxwell, Miss J. M., "Whitmuir Hall," Selkirk	0 10 0	
Maxwell, Miss C. L., "Whitmuir Hall," Selkirk ...	0 10 0	
Maxwell, Miss R., 3, Sefton Court, Croxteth Gate, Sefton Park	2 2 0	
McDiarmid, Mrs. John, "Auchenvhin," Dal- beattie, N.B.	1 1 0	
McLellan, James, "Glenluffin," Colvend, Dal- beattie, N.B.	5 0 0	
Carried forward ...	400 1 11	101 4 8

	Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Brought forward ...	400	1	11	101	4	8
Meade-King, R. R., J.P., "Broomfield," West Derby ...	2	0	0			
Mellor, Joseph H., Victoria Road, Freshfield ...	2	2	0			
Melly, W. Rathbone, 90, Chatham St., Liverpool	2	2	0			
Montgomery, Jones & Co., Mersey Chambers, Covent Garden, Liverpool ...	2	2	0			
Mountfield, Representatives of the late Mrs., Horsford Vicarage, Norwich ...	0	10	0			

N

Nicholls, Thos., & Co., Ltd., Tobacco Manufacturers, Chester ...	2	2	0			
Nicholson, George, "Parkside," Ullet Road, Liverpool ...	3	0	0			
Nicholson, W. R., Church Farm, Caxton, Cambridge ...	2	2	0			
Nimmo, Mrs. K. P., "Stanley House," Oakhill Park, Liverpool ...	1	1	0			
Nixon & Thew, 55, Castle Street, Liverpool ...	0	10	6			
Norris & Sons, 11, Union Court, Liverpool ...	1	1	0			

O

Okell, Major J. C., "The Croft," Great Barrow, Chester ...	2	2	0			
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P

Parker, A. E., Helsby, Cheshire ...	5	5	0			
Parkinson, J. T., Ltd., 183, Crown Street, Liverpool ...	1	1	0			
Paton, A. A., C.B., The late, "Rocklands," Thornton Hough, Wirral ...				5	0	0
Pearce, Mr. and Mrs. H. E., 30, Aigburth Drive, Princes Park, Liverpool ...	3	3	0			
Pegram, Thomas, "The Grange," Hoylake, Ches.	1	1	0			
Pelling, Stanley & Co., Ltd., 52, Stanley Street, Liverpool ...	3	3	0			
Perrin, Mrs. Mary T., "The Paddock," Meols Drive, Hoylake ...	2	2	0			
Pierce & Sons, 7, Castle Street, Liverpool...	0	10	6			
Pilkington, A. Cecil, "Blackthorne," Boarshill, Nr. Oxford ...	2	0	0			
Preston, Miss M. J., "Stanley House," Oakhill Park, Liverpool ...	1	1	0			
Prudential Assurance Co., Ltd., 30, Dale Street, Liverpool ...	8	8	0			
Purves, James, The late, 98, Elm Vale, Fairfield, Liverpool ...	0	10	6			

Carried forward ... 449 1 5 106 4 8

	Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Brought forward ...	449	1	5	106	4	8

R

Ralli Bros., "Orleans House," Edmund Street, Liverpool	3	3	0			
Rathbone Bros. & Co., Royal Liver Building, Liverpool	2	0	0			
Rathbone, Henry Gair, ditto	2	2	0			
Reiss Bros., Cotton Exchange Buildings, Liver- pool	2	2	0			
Rennie, Miss Agnes W., 8, Elm Vale, Fairfield ...	1	1	0			
Reyner Trust Fund, per Geo. Oliver Jones, 5, Cook Street, Liverpool	21	0	0			
Reynolds & Gibson, 30, Exchange Street East, Liverpool	10	5	0			
Rose, Percy, 1, Croxteth Road, Liverpool... ..	1	1	0			
Royal Liver Friendly Society, Royal Liver Building, Liverpool				3	3	0
Royden, Sir Thomas, Bart, J.P., Cunard Build- ing, Liverpool	4	4	0			
Rutledge, Joseph, "Felkirk," 52, Queen's Drive, Liverpool	4	4	0			

S

Salisbury, Lord, per Alsop, Stevens & Co., Solicitors, 320, India Buildings, Water Street	5	5	0			
Schofield, Miss, 45, Mount Street, London, W. ...	1	1	0			
Schweppes, Ltd., 38, Chatham Street, Liverpool ...	1	1	0			
Scott, Mrs., The Gwastadd Hall, Nr. Wrexham	5	0	0			
Shaw, H. M., 2, Sandringham Road, Tue Brook	2	2	0			
Simpson, H. P., "Holmsdale," Burbo Bank Rd., Blundellsands	3	3	0			
Sinclair, Miss L. M., 1, Sunnyside, Princes Park, Liverpool	2	2	0			
Sing, White & Co., 26, Exchange Street E., Liverpool	2	2	0			
Smith, Robert Martin, 19, Williamson Square ...	0	10	6			
Springman, J. H., & Co., 56, Cotton Exchange Buildings, Liverpool	0	10	0			
Stead, Taylor & Stead, 10, The Temple, Dale Street, Liverpool	1	1	0			
Carried forward ...	524	0	11	109	7	8

	Subscriptions.			Donations.		
	£	s.	d.	£	s.	d.
Brought forward ...	524	0	11	109	7	8
Stewart-Brown, Henry, "The Pole," Antrobus, Nr. Northwich	2	2	0			
Stewart-Brown, Mrs., ditto	2	2	0			
Stone, John, J.P., "Blacklow," Roby	1	1	0			
Stone, Tom, "Yew Tree," Roby	2	2	0			
"Summerfield"	15	0	0			

T

Temple, John C. B., Exors. of, "Mossley Bank," Aigburth Liverpool	2	12	6			
Timmis, Henry Sutton, J.P., 4, Croxteth Road, Liverpool	5	5	0			
Timmis, Shirley S., J.P., "Butler's Court," Beaconsfield, Bucks	15	0	0			
Todd, Mrs. A. J., "Stapely," Mossley Hill				2	0	0
Turner, Miss Winifred, "Mere Bank," Ambleside				2	2	0
Tyrer, Alfred, 10, Cook Street, Liverpool ...	3	3	0			

V

Vosper, G. L. "Heathcote," Heswall	1	1	0			
--	---	---	---	--	--	--

W

Walker, W. H., & Co., 42, Castle St., Liverpool ...	5	5	0			
Watson & Todd, Ltd., 172, Regent Rd., Liverpool	1	1	0			
Wethered, Mrs. E. M., "Redcourt," Carnatic Road Liverpool	1	0	0			
Wild, Herbert E., "St. Hilary," Grove Road, Wallasey	1	1	0			
Wilson, G. E., "Beverley," Prenton	2	2	0			
Wilson, Frank C., J.P., 5, Fulwood Park, Liverpool	4	4	0			
Wray, E. A., 10, Mead Road, West Derby ...				1	0	0
"W. & H."				10	0	0
	588	2	5	124	9	8
Less—Paid next year	5	5	0			
	£582	17	5	124	9	8

Torpenhow School

	Subscriptions.	Donations.
	£ s. d.	£ s. d.
Bland, W. R., 23, Cranbourne Avenue, Meols ...	1 1 0	
Bowring, C. T., & Co., Ltd., 20, Castle Street, Liverpool	2 2 0	
Cooper & Co.'s Stores, Ltd., Church St., Liverpool...	2 2 0	
Graham, Miss M. A., "The Croft," Hoylake ...	1 1 0	
Herdman, Miss E. C., 24, Harthill Road ...	1 1 0	
Lupton, William, 5, Waterford Road, Oxtou ...	1 1 0	
Timmis, Shirley S., "Butler's Court," Beaconsfield, Bucks.	1 1 0	
Anon., per Liverpool Council of Social Service ...		2 2 0
	<hr/>	<hr/>
	£9 9 0	2 2 0
	<hr/>	<hr/>

GIFTS IN KIND.

HOSPITAL.

Adelphi Hotel, Liverpool—Magazines and several supplies of old linen.

Anon—Magazines.

Bodley, Mrs., 19, Norton Street, Liverpool—Flowers on many occasions.

Butler, Dr. W. H., 3, West Albert Road, Liverpool—10s. towards Xmas Tree.

Cannon, Mr., 204, High Road, Loughton, Essex—£5 to be spent on Wards.

Clarke, Dr. H. A., 1, Deane Road, Fairfield—£1 1s. towards Xmas Tree.

Clarke, Dr. T. C., 96, Durning Road, Liverpool—£1 towards Xmas Tree.

Coope, Dr. R., 3, Rodney Street, Liverpool—10s. towards Xmas Tree

Cope, Miss A., Branksome Park, Bournemouth—Xmas Cake for Staff.

Flanagan, Dr. J. T., 133, Liverpool Road, Crosby—10s. towards Xmas Tree.

Fraser, Rev. Norman, Presbyterian Church, Mount Pleasant—Flowers, Eggs and Fruit.

Garnett, The late Miss A., Princes Road, Liverpool—£1 1s. towards Xmas Tree.

Gordon, Miss, 8, Cambridge Drive, Crosby—£1, Cigarettes and Sweets.

Hamilton, The late Rev. James, Presbyterian Church, Rodney Street—Flowers on several occasions.

Hibbert, Mrs., Gardeners Arms, Chester—£2, used for cinema show at Xmas.

Hignett, Miss, "Bankfield," West Derby—Case of Apples.

James, Harold, "Ravenscar," Hightown—Games for patients.

Lloyd, D. & Co., 17, Leigh Street, Liverpool—£1 towards Xmas Tree.

Marvin, Rev. C., Presbyterian Church, Allerton—Fruit from Harvest Festival.

Mather, Dr. J. H., 43, Rodney Street, Liverpool—£1 1s. towards Xmas Tree.

McLellan, James, "Glenluffin," Colvend, Dalbeattie, N.B.—£5 towards Xmas Festivities.

Melly, Mrs. Heywood, "Dunmail," Aigburth Boulevard—Tin of Biscuits.

Mersey Docks and Harbour Board—Firewood.

Pilkington, Miss, "The Hazels," Prescott—Flowers.

Wadsworth, Dr. T. W., 65, Rodney Street, Liverpool—£1 towards Xmas Tree.

Wagstaff, Thos., N.E. Canning Dock, Liverpool—Cartage of Firewood.

Yorke, Mr. Courtenay, F.R.C.S., 82, Rodney Street, Liverpool—£1 for Xmas Tree and Magazines.

Young, Mrs., "Laurel Bank," Mossley Hill, Liverpool—Tin of Biscuits.

CONCERT PARTIES.

Broadhey A.D.S., Liverpool Two Plays—February and December.

Waite, Miss and Company, Fairfield—Concert in June.

SANATORIUM.

LOAN OF FILMS.

Gaumont British Distributors, Ltd., Manchester.

Ogden's Theatres Ltd., Manchester.

Fox Film Co., Ltd., Liverpool.

Paramount Film Service Ltd., Liverpool.

Wardour Film Company Ltd., Liverpool.

ENTERTAINMENTS.

Broadley Amateur Dramatic Society, Liverpool.

Bluebird Concert Party, Runcorn.

Blundellsands Amateur Dramatic Society.

The Centenary Players, Liverpool.

Miss Kathleen Dring's Parties, Chester and Liverpool.

Ellesmere Port Choral Society.

Green Room Amateur Dramatic Society, Liverpool.

Miss C. Kendrick's School of Dancing, Chester.

Liverpool Cymric Vocal Union.

The Liverpool Thalia Club.

Lucilla Amateur Dramatic Society, Liverpool.

Midland Bank Dramatic Society, Liverpool.

The Players' Dramatic Society, Liverpool.

The Unity Players, Liverpool.

GIFTS.

- The British Red Cross Society, Altrincham Branch.—Pyjamas.
 Dr. W. E. Burton, Frodsham.—Books.
 Mrs. A. J. Brooks.—Cheque, £10.
 Blackpool Co-operative Society's Employees.—Underclothing.
 Mr. A. Davies, Rothley, Leicester.—Parcels of Books and Magazines.
 Miss Guthrie, "Greta," Dawstone Road, Heswall.—Books.
 Mr. F. E. Lane, Wavertree, Liverpool.—Cheque and Books.
 Miss E. Maybury, Wavertree, Liverpool—Case of Apples.
 Midland Bank Dramatic Society, Liverpool.—Books and Magazines.
 Mr. John Preston, Broadgreen, Liverpool.—Whist Cards.
 Mr. Currig Roberts, "Garth," Ambergate Road, Grassendale.—Chocolates for
 Children.
 Mr. J. D. Sale, Anfield, Liverpool.—Books.
 Mr. C. Thomson, Messrs. Philip, Son & Nephew.—Framed Sketches.
 Mr. R. S. Harker, Frodsham.—Magazines, Headphones, Pianola and 40 Records.

TORPENHOW.

- Anon—5s. towards Sports Prizes.
 Bailey, E. W., "The Butts," Matlock—£1 Sports Prizes, Biscuits for children.
 Bean, Mrs., 7, Frankby Road, Meols—5s. Xmas Fund.
 Brown, F. B., "The Mount," Caldy—5s. Sports Fund.
 Brown, Mrs., "The Mount," Caldy—Apples.
 Case, Edward, North Road, West Kirby—Plants for staff gardens.
 Cooper & Co's. Stores, Ltd., Church Street, Liverpool—Sweets for children.
 Dennis, E. J., 22, Morningside Road, West Derby—5s. Sports Fund, 5s. Xmas
 Tree Fund.
 Elder, R. L., 100, Rosslyn Drive, Moreton—£1 13s. Sports Prizes, £2 Xmas
 Party for children.
 Gamlin, Dr. R., School Medical Officer, Liverpool—5s. Sports Prizes.
 Gibbons, W., Messrs W. Henderson & Sons, Ltd., Liverpool—Sweets and Toys
 for children, Calendars.
 Harris, Mrs., "Loanda," Caldy Road, Caldy—Trimmed Xmas Tree for
 children.
 Harrison, Mrs., "Long Meadow," Wood Lane, Neston—£1 Sports Prizes.
 Hayward, Mrs., "Lyndhurst," Caldy Road, West Kirby—Football Boots.

- Hodgson, Mrs. and Miss, 17, Groveside, West Kirby—Two pictures for children's playroom.
- Kingsford, Dr. L., Asst. School Medical Officer, Liverpool—5s. Sports Fund.
- Layne, Miss, County High School for Girls, West Kirby—Model of George Henry Lee's Stores made by girls of the High School.
- McAfee, Dr. W. Grant, "Ryecroft," Birkenhead Road, Meols—Fruit for staff.
- McAfee, Mrs., "Ryecroft," Birkenhead Road, Meols—Crackers.
- Murcott, Mr. and Mrs., "Sun Tor," Montgomery Hill, Frankby—Ginger snaps for children, Preserved Ginger for staff.
- Rayner, W. H., Secretary, Chest Hospital, Liverpool—Sweets for children.
- Rea, W., "Homegarth," Caldy—Books for children.
- Roberts, Miss E. M., "Langdale," Great Meols—Crackers.
- Royden, Miss Mary, "Forton Hey," Frankby—6 Theatre tickets, Liverpool Pantomime for Resident Staff.
- Toc H., Hoylake and West Kirby Branch—Concert for children, instruction in football and cricket (Saturday afternoon), 15 to 20 helpers for Re-union Day.
- Welsh Presbyterian Church, West Kirby, per the Rev. E. Emrys Jones—Fruit and Vegetables from Harvest Festival.
- West Kirby Presbyterian Church, per Rev. W. Milburn—Fruit and Vegetables from Harvest Festival.
- West Kirby Presbyterian Sunday School, per Mr. George Webster, Superintendent—Flowers and Eggs.
- Whitehouse, Mr. and Mrs., 52, Cannon Hill Road, Birmingham—15s. Sports Fund.
- Whitehouse, Misses P. and J., 52, Cannon Hill Road, Birmingham—Books for children.

Liverpool Hospital for Consumption

BALANCE SHEET,

LIABILITIES.		£	s.	d.	£	s.	d.
CAPITAL ACCOUNT, as per last Balance Sheet...		104,021	15	2			
Add Legacies received during year ...		20,508	11	11			
Profit on realization of Investments		158	10	0			
					124,688	17	1
ENDOWMENT FUNDS—							
Willox Fund, as per last Balance Sheet ...	...	6,881	6	0			
Add Profit on realisation of Investment ...	...	112	10	0			
					6,993	16	0
Elton Mather Fund, as per last Balance Sheet ...	...	3,768	4	0			
					10,762	0	0
SUNDRY CREDITORS ... ..	...	...	...	...	2,711	0	3
BUILDING SUSPENSE ACCOUNT ... ..	...	...	...	...	11,500	0	0
STAFF PENSION FUND, as per last Balance Sheet ...		13,239	16	6			
Add Balance per Account ... ..	...	382	7	1			
					13,622	3	7
					£163,284	0	11

E. OTHO GLOVER, *Chairman.*

R. S. HARKER, *Hon. Treasurer.*

AUDITORS'

We have audited the above Balance Sheet, dated 31st December, 1934, and opinion such Balance Sheet is properly drawn up so as to exhibit a true and correct and the explanations given to us, and as shown by the Books of the Hospital.

LIVERPOOL, 8th May, 1935.

and Diseases of the Chest.

31st December, 1934.

ASSETS.		£ s. d.			£ s. d.		
FREEHOLD LAND AND BUILDINGS, at Cost <i>less</i> amount							
written off, as per last Balance Sheet ...	...	68,230	14	11			
Torpenhow Property, at Cost ...	...	13,374	3	3			
		81,604 18 2					
<i>Less</i> GENERAL DEPRECIATION ACCOUNT ...		10,000	0	0			
					71,604 18 2		
INVESTMENTS: GENERAL FUND, at Market value							
31/12/1930 ; subsequent additions at Cost...	...	57,803	8	2			
ENDOWMENT FUNDS—							
Willox Fund, at Market value 31/12/1920.							
Subsequent additions at Cost ...	...	6,993	16	0			
Elton Mather Fund, at Market value at date							
of acquisition, subsequent additions at Cost	...	3,768	4	0			
		68,565 8 2					
STAFF PENSION FUND, Investments at Cost ...							
Cash at Bank ...	...	12,850	0	0			
		772	3	7			
					13,622 3 7		
STOCKS ON HAND, as certified by the Hospital Officials ...							
					1,136 18 9		
SUNDRY DEBTORS... ..							
					5,216 0 9		
CASH AT BANK							
		2,573	1	5			
CASH IN HAND							
		81	0	0			
					2,654 1 5		
INCOME AND EXPENDITURE ACCOUNT—							
Deficit as per last Account ...	...	610	4	10			
<i>Less</i> Surplus per Account ...	...	125	14	9			
					484 10 1		
					£163,284 0 11		

REPORT.

have obtained all the information and explanations we have required. In our view of the state of the Hospital's affairs, according to the best of our information

HARMOOD BANNER & SON,
CHARTERED ACCOUNTANTS.

Liverpool Hospital for Consumption

Dr. INCOME and EXPENDITURE ACCOUNT

EXPENDITURE.		£ s. d.			£ s. d.		
To MAINTENANCE—							
Provisions	6,145	15	3	
Drugs and Appliances	1,080	11	11	
Furniture and Renewals	388	9	4	
Laundry	887	6	7	
Heating and Lighting	2,100	11	0	
Uniforms	67	18	7	
Sundry Expenses	462	6	6	
Repairs and Renewals	3,844	15	2	
Salaries and Wages	6,009	1	9	
Transport,	144	12	4	
X-Ray Department	1,301	16	8	
							22,433 5 1
„ MANAGEMENT—							
Printing, Stationery and Advertising	186	11	7	
Accountancy Charges	22	1	0	
Rates and Insurances	331	2	0	
							539 14 7
„ GARDENS ACCOUNT	122 12 7
„ TORPENHOW OPEN-AIR SCHOOL, balance transferred	190 1 7
„ BUILDING SUSPENSE ACCOUNT	3,000 0 0
„ SURPLUS CARRIED TO BALANCE SHEET	125 14 9
							£26,411 8 7

Dr.		CLAIM FARM ACCOUNT						£ s. d.			£ s. d.		
To Repairs	254	8	11				
„ Sewage	46	18	3				
												301 7 2	
„ Rates and Insurance			24 13 8	
„ Accountancy Charges			1 1 0	
												327 1 10	
„ Balance Transferred to General Income Account			103 10 2	
												£430 12 0	

Dr.		STAFF PENSION FUND,						£ s. d.			£ s. d.		
To PENSION			70 0 0	
„ BALANCE CARRIED TO BALANCE SHEET			382 7 1	
												£452 7 1	

Corpenhow

Dr. INCOME AND EXPENDITURE ACCOUNT,

						EXPENDITURE.					
						£	s.	d.	£	s.	d.
To SALARIES—											
	Head Teacher	...	...	...	...	212	15	0			
	Assistant Teacher	...	...	...	...	92	10	0			
	Medical Officers, Matron and Nurses	...	...	...	...	350	12	5			
						<hr/>			655	17	5
,, ADMINISTRATION—											
	Salaries of the Secretary and Clerical Assistant	...	...	...	...	120	0	0			
	Printing, Stationery and Postages	...	...	...	...	42	1	6			
	Accountancy Charges and other Expenses	...	...	...	...	3	3	0			
						<hr/>			165	4	6
	Books, Stationery and Educational Materials	...	...	...	...				11	14	5
	Clothing of Scholars	...	...	...	...				80	9	6
	Medical Treatment of Scholars, excluding Salaries	...	...	...	...				40	14	7
	Boarding Expenses, Staff and Scholars	...	...	...	...				1,088	8	2
	Wages to Servants	...	...	...	...				315	14	5
	Washing	...	...	...	...				223	19	10
	Replacement of Furniture, Apparatus and Equipment	...	...	...	...				68	10	11
,, UPKEEP OF BUILDINGS—											
	Ordinary Repairs and Depreciation	...	...	...	...	283	13	11			
	Other Expenditure, including Insurance...	...	...	...	...	6	18	0			
						<hr/>			290	11	11
	Upkeep of Grounds	...	...	...	...				159	19	6
	Fuel, Light and Cleaning	...	...	...	...				269	3	7
	Rents and Rates	...	...	...	...				536	3	1
	Provision, Extension or Improvement of Premises	...	...	...	...				—
	Employers' Contributions, Teachers' Superannuation Act, 1925 ...	...	...	...	...				15	5	3
,, OTHER EXPENSES—											
	Uniforms	...	...	...	...	15	19	6			
	Sundry Expenses	...	...	...	...	51	3	6			
						<hr/>			67	3	0
									<hr/>		
									£3,989	0	1

Open-Air School.

for the Year ended 31st December, 1934.

Cr.

		INCOME.								
		£			s. d.			£ s. d.		
By	GRANT FROM THE BOARD OF EDUCATION, SUPERANNUATION ACCOUNT ... ..	...	...	...	...	...	7	8	0
„	CONTRIBUTION FROM LOCAL EDUCATIONAL AUTHORITIES ... ..	...	...	...	...	...	3,779	19	6
„	VOLUNTARY CONTRIBUTIONS—									
	Subscriptions ... ..	...	...	...	9	9	0		
	Donations ... ..	...	...	...	2	2	0		
					—————			11	11	0
								3,798	18	6
„	BALANCE, Deficit Transferred to General Income Account ...							190	1	7

£3,989 0 1

**Liverpool Hospital for Consumption
and Diseases of the Chest,
MOUNT PLEASANT, LIVERPOOL,
LIVERPOOL SANATORIUM, DELAMERE FOREST,
FRODSHAM, and
"Torpenhow" Open-Air School for Children,
FRANKBY, WIRRAL, CHESHIRE.**

FORM OF BEQUEST.

*Persons who are disposed to contribute by Will to this Institution
are respectfully requested to do so in the following manner:—*

*I BEQUEATH to the Liverpool Hospital for
Consumption and Diseases of the Chest, the sum of £
(free of all death duties) to be applicable for the general purposes
of such Hospital, AND I DECLARE that the receipt of the
treasurer or other proper officer for the time being of such
Hospital shall be a sufficient discharge for the same.*

Ladies' Committees.

MOUNT PLEASANT.

LADY PRESIDENT:

MRS. HEYWOOD MELLY, "Dunmail," Aigburth Boulevard.

MRS. E. OTHO GLOVER, "The Bent," Frodsham.

MRS. F. W. YOUNG, "Laurel Bank," Mossley Hill.

THE SANATORIUM.

MRS. E. OTHO GLOVER, "The Bent," Frodsham

MRS. HARKER, "Erinhurst," Frodsham.

MRS. WM. PAUL, "Hoole House," Chester.

"TORPENHOW" SCHOOL.

MRS. E. OTHO GLOVER, "The Bent," Frodsham.

MISS M. ROYDEN, "Forton Hey," Frankby.

LIVERPOOL HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST,
Mount Pleasant, Liverpool.



Herewith I enclose my Annual Subscription of
a Donation

£ to be applied towards the Hospital £ : :
Do. Research Laboratory £ : :
Do. Sanatorium..... £ : :
Do. "Torpenhow" School £ : :

Name.....

Address.....

To be sent to :—

Hon Treasurer,
R. S. Harker, Esq.,
Liverpool Hospital for Consumption
and Diseases of the Chest
Mount Pleasant,
Liverpool.

or to

Martins Bank Ltd.,
Water Street,
Liverpool.

FORM OF ORDER ON SUBSCRIBER'S BANKER.

.....19

To.....

On receipt of this order
On First day of January next please pay to **MARTINS BANK LIMITED,**

WATER STREET, Liverpool, for the credit of the **LIVERPOOL HOSPITAL FOR CONSUMPTION,** the sum of.....

on behalf of the Hospital.....

Liverpool Sanatorium.....

“Torpenhow” School.....

and continue similar payments on the First day of January annually until further notice

Signature

Address.....

£

Subscribers will greatly facilitate the collection of their subscriptions and avoid expense by kindly filling in this Order and sending it to their Bankers.

THE ORDER MAY BE WITHDRAWN AT ANY TIME

1911

Received of _____
the sum of _____

ORDER



