# Annual report for the year 1920-21 : (23rd year of issue) / Metropolitan Asylums Board.

# Contributors

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# **Metropolitan Asylums Board**



# ANNUAL REPORT FOR THE YEAR 1920-21

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# METROPOLITAN ASYLUMS BOARD.

# ANNUAL REPORT

FOR THE YEAR

# 1920-21.

(23rd YEAR OF ISSUE.)

OFFICE OF THE BOARD,

EMBANKMENT, E.C. 4.

PRINTED BY HENDERSON & SPALDING, LTD., SYLVAN GROVE, LONDON, S.E. 15.

1921.

BIBLIOGRAPHICAL NOTE.—Before the year 1886 no regular annual record of the work of the Board was published. (In the year 1871, however, and again in the years 1876 and 1877, the Chairman of the Board issued a report of the nature of an annual report, with some statistics.) For the years between 1886 and 1897, both inclusive, the Chairman of the Board issued an annual report and the Statistical Committee also issued a report, each separately. These reports may, together, be taken as the reports of the Board for those years.

For the year 1898, and for subsequent years, an annual report of the Board, and so called, has been issued, consisting of a summary of the work of the Board for the year, the reports of the several standing committees, and the report of the Statistical Committee. The reports for the four years 1898, 1899, 1900, and 1901 were issued in two volumes : vol. I. containing the report of the Board and the reports of the standing committees, except that of the Statistical Committee, which itself formed vol. II. The report for the year 1902 commenced a new series in one volume, bound in cloth and furnished with an index. The reports are sold to the public at 5s. a copy, in one volume or two as the case may be.

The separate reports of the Chairman of the Board above referred to and the first report of the Statistical Committee (1886) were of foolscap size; all the remainder are of the size of this volume.

In the report for 1888 a spot map showing smallpox admissions was included. In the report for 1889 spot maps showing admissions of all diseases to the Board's hospitals were included. In the report for 1890 were included spot maps of notifications also. In the reports for 1891 to 1902 spot maps of notifications but not of admissions were included. In the reports for 1903 to 1905 spot maps of notifications of smallpox and typhus cases only are included.

The following reports are nearly or wholly out of print :--The reports issued in 1871, 1876, and 1877. The report of the Statistical Committee for 1886. The report of the Board (two vols.) for 1900. (For this year-1900-however, all those parts of the report which referred to infectious diseases have been collected and separately printed, and copies may still be obtained. For the years 1899 and 1900 a somewhat similar collection was made as regards the imbecile asylums, and copies may still be obtained.)

From the years of the opening of the several institutions to 1885, annual reports of the medical superintendents, with statistics, and, in some cases, reports by the committees of management, were issued separately, and copies of many of them may still be had.

The annual reports of the Captain-Superintendent and Committee of the training ship Exmouth may be obtained in a separate form from 1877 to 1914: the reports of the Children's Committee from 1898 to 1914; the reports of the Ambulance Committee from 1884 to 1897; the reports of the Finance Committee from 1900 to 1907; and the reports of the Casual Wards Committee for 1912 and 1913.

On account of the War, the reports for 1915 to 1918 each consisted of a small volume sewn in paper covers, without charts—preceding volumes having consisted of about 260 pages, with charts and tables, bound in full cloth

The review of the Board's work in the present issue covers the year 1920 and the year 1921 down to May. The statistical tables are for the year ending 31 December, 1920. It is proposed in future to follow this practice and review the Board's work covering the Board's year of office from May to May, the statistics covering the year ending 31 December.

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# REVIEW FOR THE YEAR. GENERAL

1. The constitution, powers and duties of the Metropolitan Asylums Board, together with the legislative enactments and departmental orders relating thereto, are set out fully in Appendix A.

2. In July, 1920, the Board considered a scheme which had been proposed for the administration of health services in London so far as it affected the constitution and duties of the Board. The report of the General Purposes Committee on this subject, which was adopted by the Board, will be found in Appendix B. This report received a substantial measure of public attention, and there is little reason to doubt that the course advocated in it will be followed, viz., that before any further changes are made, an authoritative enquiry should be undertaken into the whole question of the government of Greater London, including the proposed extension of boundaries, the constitution of a central council with local legislative powers, the relations between such a council, if created, and the administrative departments dealing with the main public services. The circumstances of the times, and especially the urgent necessity for strict economy in public administration, have, however, rendered any substantial changes much more remote than at one time seemed likely. The Board, in their report, pointed out that all experience showed that any belief that a reduction in expenditure would follow the centralisation of administrative work was illusory, and that, on the contrary, there would be a great increase in expenditure at a time when economy in everything unessential was of urgent importance Whatever purposes might be served by changes in the machinery of local government, it is quite certain that economy would not be one of them, and that it could best be assured by a period of rest from legislative changes.

## INFECTIOUS HOSPITALS.

(a) Fevers. ,

3. The last annual report contained particulars of the exceptional increase in the number of cases of infectious fevers admitted to the Board's hospitals during the autumn and winter of 1919-20

This increase continued to be very marked throughout the year 1920. The number of patients admitted during the year was 35,916, and at the end of the year there remained 7,465 patients under treatment in the hospitals Admissions were 13,954 more than in 1919, and the number remaining under treatment at the end of the year was 2,675 more than at the end of the previous year. The lowest number under treatment at any time was 3,512 on 2 July, 1920, and the highest 8,453 on 23 November. The number of diphtheria cases received was 10,636, and the number of cases of measles 526. The incidence of disease in the several months of the year is shown in Table XIII., and its geographical distribution in Table xvi. The following paragraphs, numbered 4 to 10, extracted from a report submitted by the Infectious Hospitals Committee and adopted by the Board in February, 1921, give an account of the work of that department to meet the demands made upon it during what proved to be the biggest epidemic the Board have had to deal with in their history.

4. It will be remembered that in January, 1920, a report was adopted by the Board and ordered to be forwarded to the Ministry of Health and to the members of the several metropolitan borough councils, in which were explained the reasons why it had not been found possible to receive all the cases of infectious disease for whose admission application was made during the epidemic of 1919-20. Those reasons were the curtailment of the fever hospital accommodation owing to the alienation of hospitals during the war to meet urgent national needs, the allocation of 150 beds for the treatment, in four of the acute fever hospitals, of sailors and soldiers suffering from tuberculosis, and the grave difficulties experienced in obtaining the necessary nursing and domestic staff. The following is a record of what was actually accomplished, only a few months later, in dealing, with complete success, with a problem vastly greater in magnitude but under conditions from which the embarrassments referred to above had been largely, though not entirely, removed.

5. The highest number of patients, from whatever disease they were suffering, who occupied beds in the Board's fever hospitals during the seasonal rise of 1919-20 (including 229 tuberculous patients in the Northern Convalescent Hospital) was 5,210 on 21 December, 1919. From that date the number under treatment steadily declined, but it did not fall below 3,739, which was reached on 2 July, 1920, and it was from that comparatively high figure that the seasonal rise of 1920-21 commenced and took a normal course, until a few days subsequent to the re-opening of the elementary schools after the summer holidays, when a very rapid rise took place and continued until 23 November, 1920, when there were no fewer than 8,669 patients in hospital, or 1,511 more than the highest number the Board had previously ever had to deal with, viz., 7,158 on 19 November, 1907. The following table shows how these two totals were made up :—

			Number under treatment.				
Disease.		23 November, 1920.	19 November, 1907. (Previous highest total).				
Scarlet fever			5,664	5,712			
Diphtheria			2,594	1,315			
Enteric fever			15	130			
Tuberculosis			334	_			
Other diseases			62	1			
Totals			8,669	7,158			

The total number of cases admitted from 3 July, 1920, when the rise began, to the end of the year, when, although numbers were declining, cases were still being admitted at the rate of 100 to 120 per day, as compared with the number admitted between the same dates in 1907, was as follows :---

Diseas		Total number of cases admitted from 3 July to 31 December, inclusive.			
Dista		1920.	1907.		
Scarlet fever	 	14,995	15,180		
Diphtheria	 	7,198	4,145		
Enteric fever	 	84	428		
Tuberculosis	 	599			
Other diseases	 	303	8		
Totals	 	23,179	19,761		

It will be observed that during this epidemic there have been a large number of diphtheria cases. This naturally added to the difficulties of the situation, as it is only possible to transfer to the convalescent hospitals a comparatively small percentage of such cases, and patients suffering from this disease cannot be removed to the outlying Joyce Green Hospital, except to a very limited extent, with the result that the great majority of them have to be retained in the town hospitals until they are ready to be discharged. Up to the end of the year the daily number of admissions to the acute hospitals exceeded 150 on no less than 64 occasions, and on 16 out of this number they exceeded 200, the highest number on any one day being 244 on 5 November. The highest number in any previous epidemic was 193 on 21 October, 1907.

6. In view of the great difficulty experienced last autumn and winter in securing the nursing staff needed for the full working of the various hospitals, the matrons were asked, in the early part of July, to take all practicable steps to obtain staff to meet requirements during the rise that was then beginning. As, however, it appeared that nurses were not forthcoming in anything like the numbers required in response to the usual efforts to obtain them, steps were taken to advertise the vacancies systematically and extensively in the usual nursing papers and also in newspapers circulating in all parts of Great Britain. As a result over 5,000 letters of enquiry were received and answered at the Head Office, and some 860 nurses were engaged by the matrons of the several hospitals. The approximate cost of the advertising campaign was £900, and considering the success attained we think it will be agreed that the money was well spent. We would, however, point out that the number of nurses engaged by no means satisfied the needs, and that it was found absolutely necessary to supplement them by employing nurses from nursing institutes to a maximum of 197. Approval was also given to the working of overtime by the staff wherever by this it was found that a larger number of patients could be accommodated at the various hospitals. Instructions were, moreover, issued that where the granting during 1920 of additional annual leave to the staff at the several hospitals under the regulations made by the Board on 31 July, 1920, would operate to prevent the utilisation to its fullest extent of the accommodation for patients, such leave might be withheld on the understanding that it would be added to the annual leave in respect of the year 1921, or cash compensation granted in lieu thereof, as might subsequently be determined. With a view to utilising the large resources of Joyce Green Hospital, Dartford, in the early stages of the rise, arrangements were made, and came into operation on 13 September, under which, on several days a week, a number of acute scarlet fever cases were removed from their homes to South Wharf, Rotherhithe, and conveyed, either later in the same day or the following day, to Long Reach (for transfer by ambulance tram to the adjacent Joyce Green Hospital) by one of the Board's ambulance steamers. This steamer, on its return, brought up recovered patients to South Wharf, where they were met by the Board's ambulances and taken to the usual ambulance stations for discharge. The objects in view were :---

(a) to ensure a greater number of beds in the town hospital at the time of heaviest admissions;

(b) to have more accommodation in the town hospitals for diphtheria cases, which, as has already been mentioned, cannot so well undertake long journeys; and

(c) to obviate unduly long journeys by the Board's ambulances in the busiest part of the year and the consequent tendency to delay in removal as a result of single cases having to be taken to Joyce Green Hospital by road.

To make sure that cases which were unsuitable for removal to Joyce Green Hospital were not sent there but to one of the town hospitals, an experienced assistant medical officer was stationed at the wharf, which was also otherwise adequately staffed. A considerable number of convalescent cases were also transferred to the River Hospitals by means of the River Ambulance Service. This arrangement, which was only rendered practicable by the fortunate absence of smallpox cases, worked with the utmost smoothness, and was of the greatest possible assistance, though it had to be suspended on several occasions during the spells of heavy fog which were experienced in November and December. The number of patients dealt with by the River Ambulance Service from 13 September to 31 December were as follows :—

Admissions	 	 	 2,239
Transfers	 	 	 324
Discharges	 	 	 1,558

7. It will be remembered that during the epidemic of 1919-20 the Board were without the following hospitals :---

Total	 	1,947 beds.
Orchard Hospital Southern (Lower)		 800 ,, 610 ,,
Grove Hospital	 	 537 beds.

which were still in the hands of the military authorities, and that the Brook Hospital, with its 580 beds, was only handed back to the Board by the War Department when it was too late to make full use of it. Of the three hospitals mentioned above, the Grove Hospital was evacuated and returned to the Board on 29 February, 1920. The necessary cleaning and painting works and repairs were put in hand at once, and it was 're-opened for fever purposes on 3 May. The negotiations in connection with the handing back to the Board of the Lower Southern and Orchard Hospitals were of a very protracted character, and it was not until the last week

in September that the last of the wards and staff quarters at the Lower Southern Hospital were cleared of War Department equipment, while two wards at the Orchard Hospital are to this present day still occupied by such equipment. It will be realised that after military occupation a great deal of cleaning, painting, repairs and restoration was necessary before these hospitals could be used for infectious cases. Every effort was made to push forward the work as rapidly as possible. The Lower Southern Hospital was reopened on 14 September, and on 23 November the number of patients in the upper and lower hospitals attained its maximum, viz., 1,506. The Orchard Hospital has been used as an overflow hospital from Joyce Green Hospital, which it adjoins, and has been occupied by convalescent children transferred from that 'hospital. It began to come into use for infectious cases on 22 October, and on 21 November there were 503 patients there. The highest number of patients in the Joyce Green and Orchard Hospitals combined was 1,514 on 2 December.

8. In previous epidemics, during periods of great pressure on the accommodation, the several medical superintendents had temporarily placed extra beds in the wards. Having regard to the exceptional need during this seasonal rise the Chairman of the Infectious Hospitals Committee discussed the situation with them in company with the Principal Medical Officer on 11 October, and as a result they agreed, in view of the urgent demands for accommodation and of the mildness of the prevailing types of disease, to make a considerable increase in the number of extra beds in the wards during the period of extreme pressure, the effect of which was to add very largely to the Board's resources. To enable this offer to be acted upon arrangements were made, through the Contract Committee, for the provision forthwith of the necessary furniture and equipment. As a result very largely of the recent purchases from the military authorities on the evacuation by them of certain of the Board's institution, most of the items required were already in the Board's possession. Beyond the money spent in the advertising campaign, in the employment of institute nurses, whose cost to the Board is greater than that of an equivalent number of the Board's own nurses, and in the purchase of the additional equipment without which the patients admitted could not have been received and treated, no other expenditure of a special character was incurred as a consequence of the epidemic. In particular, emphasis should be laid on the fact that the necessary accommodation for patients was provided in the existing infectious hospitals of the Board without any enlargement of them or any addition to their number. During the seasonal rise of 1919-20 and some other previous epidemics the

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medical officers of health were asked, as soon as it was apparent that all cases for whose admission application was made could not be received, to select those which, owing to condition, environment or special circumstances, most urgently needed hospital treatment, and notify them to the Clerk of the Board. Notwithstanding the unprecedented demands during the epidemic of 1920-21, it was not found necessary to resort to this measure, but all applications were dealt with in the usual way without any restriction whatever.

9. When, owing to extreme pressure, it was doubtful if beds could be provided for all cases immediately on application, special efforts were made to admit every diphtheria patient at once on account of the graver nature of this disease, and these efforts were entirely successful except on three occasions, when four, four and two cases respectively were held over from one evening to the following morning. This policy entailed in many instances the conversion of scarlet fever wards to diphtheria purposes, a process which naturally takes some little time (on account of the disinfection necessary), during which the wards in question are temporarily unavailable for the reception of patients.

10. The vast majority of the scarlet fever cases throughout the epidemic were likewise removed at once, but, at the busiest times, delay took place in removing some of the cases. However, no case the Board were asked to receive was refused admission. It will be realised that demands so far in excess of any the Board had previously experienced in connection with fever epidemics placed a severe strain on the administration of the infectious hospitals and the land and river ambulance services, and that they were successfully met is the highest tribute to the efficiency of those departments of the Board's work and to the whole-hearted devotion to duty which animated all ranks of the staff concerned.

11. At the Board meeting on 9 April a letter was read from the Ministry of Health expressing the Minister's appreciation of the services rendered by the Board and their staff in dealing with the epidemic.

After reaching its highest point the number of patients under treatment did not fall as rapidly or for as long a period as was anticipated, the lowest number (including tuberculous patients in the fever hospitals) reached up to the date of the publication of this report being 5,755 on 10 June, 1921, when the figure again began to rise.

In this connection the following comparative figures are nstructive :---

Seasonal rise.	Highest number under treatment and date.	Minimum to which numbers subsequently fell and date.
1920-21 1919-20 1907-8 (Previous highest seasonal rise.)	8,669 (23 Nov., 1920) 5,210 (21 Dec., 1919) 7,158 (19 Nov., 1907)	5,755 (10 June, 1921) 3,739 (2 July, 1920) 3,283 (4 July, 1908)

From present indications it would appear that a very heavy seasonal rise may be expected during next autumn and winter.

13. In July, 1920, the Board decided to acquire from the City of London Guardians their institution adjoining the Eastern Hospital, Homerton. It is proposed to incorporate the Guardians' institution with the hospital so as to provide 200 additional beds for fever patients, with extra staff accommodation, in a quarter of London where this accommodation is badly needed.

#### (b) Smallpox.

14. Fifty cases of smallpox were admitted during the year 1920, of whom 7 died. Only 20 of these cases came from the metropolitan area. The medical superintendent of the smallpox hospitals (Dr. A. F. Cameron) reports as follows :---

Five separate outbreaks occurred in London. In the beginning of January the disease appeared in the 3rd London General Hospital at Wandsworth, where an unrecognised case died and two men of the R.A.M.C. who had been engaged at the post-mortem examination became infected. No further spread took place. The second outbreak occurred in Poplar and was traced to infected equipment which had been brought back from abroad, and was, I understand, being sorted at a wharf. The cases arising from this source were exceptionally severe and 4 died. The third outbreak occurred in Stepney. A deckhand returned home from Plymouth with the disease upon him and infected his wife. The deckhand was employed on a coastwise coal boat and a time-table of his movements showed that he acquired his infection in the neighbourhood of Erith. It was a remarkable coincidence that an outbreak occurred in Erith, of which the source could not be traced, just three days before the deckhand fell ill on his ship at Plymouth. The Erith outbreak produced 6 cases, of which 1 occurred in Woolwich. The fourth London outbreak occurred in the Seamen's Hospital at Greenwich, and was almost certainly due to the visit paid to that hospital by the deckhand, who went there on his arrival from Plymouth seeking treatment for his skin eruption. Four cases occurred, but the disease was confined to the Hospital. These cases were admitted in April and May and from that time London remained free from the disease until the last week of the year, when a patient was admitted from Hampstead. The source of his infection was not traced, and it remains doubtful whether he acquired his infection in North London or in Essex. He was still under treatment at the end of the year. At the beginning of April, on account of an alarming and widespread prevalence of the disease in Essex and the deficiency of accommodation for smallpox, the Board were asked to admit cases from specified districts of that

county. Twenty-two patients were admitted, of whom 2 died. The majority of the cases were of a mild type, a condition which gave rise to considerable local difficulty in dealing with the outbreak.

During the year 13 patients were examined who were found not to be suffering from smallpox.

#### (c) Ophthalmia neonatorum.

15. During the year the admissions to S. Margaret's Hospital for ophthalmia neonatorum numbered 138 mothers and 252 babies. Various improvements are being effected at this hospital by the provision of balconies and of additional staff accommodation.

#### (d) Venereal Diseases.

16. The Board have been concerned in the treatment of venereal diseases in London since 1917, and the following paragraphs give a short résumé of their work and of the experience they have gained. It may be mentioned that the Local Government Board in 1916 issued the Public Health (Venereal Disease) Regulations, which required that the councils of counties and county boroughs should prepare and submit a scheme for (inter alia) the treatment at and in hospitals or institutions of persons suffering from venereal disease. These regulations were the outcome of the final report of the Royal Commission on Venereal Diseases issued in March, 1916. The Royal Commission found that the effects of venereal diseases upon the individual and upon the race were grave and far-reaching, involving a heavy loss to the community in actual and potential population and money. They reported that the medical evidence given before them established the fact that by early and efficient treatment, venereal diseases could be brought under control and reduced within narrow limits, but that, at that time, treatment was in most cases deferred, and the best modern methods of diagnosis and treatment were not within the reach of the population generally. They recommend that the organisation of the arrangements proposed should be entrusted to county councils, and that 75 per cent. of the cost of carrying out approved schemes should be met from national funds. The London County Council prepared a scheme in accordance with these regulations, which provided for the use of existing hospitals as far as possible. The provision made by the Board, and for which they alone are responsible, did not form part of this scheme. It was undertaken at the request of the Local Government Board and the Ministry of Health under the circumstances set forth in the following paragraphs. The Board receive the grant of 75 per cent. of the expenditure already referred to.

17. Early in 1916 the Local Government Board considered the question of the removal from the maternity wards of the

metropolitan workhouses and infirmaries of women suffering from venereal diseases, and after conferring with the Board, a Local Government Board Order was issued on 12 September, 1916, adding to the classes of women for which the Metropolitan Asylums Board was authorised to make provision "parturient women suffering from venereal disease." The Board made the best provision then possible for these cases by contracting with the City of London Guardians for their reception at the Thavies Inn Infirmary of the Guardians. The infirmary was opened for this purpose in September, 1917. It provides accommodation for 20 mothers with infants, and there is also an outdoor clinic for the treatment of women after discharge. The arrangements for admission and discharge are controlled by the Board, but the actual administration is entirely in the hands of the Guardians, and they are reimbursed the cost. In December, 1918, the Local Government Board gave authority under Section 80 of the Public Health (London) Act, 1891, for the admission of non-pauper patients in the same manner as fever patients are admitted into the hospitals of the Board. In connection with this extension of the work done at Thavies Inn Infirmary, the Board, at the instance of the Ministry of Health, acquired a property at Blackheath with estimated accommodation for 50 patients and the necessary staff, intended for pregnant women and married women. This property is in the Board's possession, but has not yet been dealt with in any way.

18. In October, 1919, the Ministry of Health informed the Board that they had been approached by the Home Secretary with a view to the immediate provision of accommodation for the reception and treatment of young girls and women suffering from venereal diseases who come into the hands of the Women Police Patrols in London. Cases of this class had for some time previously been dealt with at the infirmary of the Chelsea Guardians, who wished to be relieved of this work. After conferences between the Board and the Ministry, it was agreed to utilise for the purpose the small hospital in Sheffield Street, off Kingsway, W.C., which during the war had been used as a hospital and dispensary for war refugees. This hospital, with 52 beds, was equipped and opened on 21 June, 1920, with a resident matron in charge, a consulting specialist, who was also engaged in connection with the Thavies Inn Infirmary, and a visiting medical officer. It was very clearly understood by the Board that this hospital would be required, not for the prostitute class, or for persons who had been convicted in police courts for soliciting or other offences, but for girls who had followed soldiers from the country or who had been infected as the result of an occasional lapse into immorality. It was thought that the girls in question would be found in poor lodging houses and would be willing to go to an institution for treatment and remain there for some time, though there would be no power of detention, and that when cured, they would for the most part go home and return to normal life.

The Sheffield Street Hospital has now been open for a 19. The visiting medical officer, in a report dated 29 April, vear. states that 143 patients had been admitted, of whom 52 had been rendered free from any evidence of disease, 19 had left at their own request before treatment was completed, 3 were transferred elsewhere for other diseases, 26 had no evidence of disease, 13 refused investigation, 1 was discharged, 3 were admitted for shelter only, and 26 were still under treatment. The results of the medical work have been satisfactory in cases when the patients have been willing to avail themselves of the treatment and to remain for the period necessary ; indeed, there is ground for the belief that good work, both medically and socially, has been done in many cases. It became apparent, however, that the class of case received has not been that which the Board were led to expect, that the hospital was not suitable for the treatment of patients who are not confined to bed but who are likely to make a long stay, and that the work of the hospital is not sufficiently co-ordinated with that of other agencies and institutions for dealing with the problem. It will be remembered that the Board understood that the cases to be sent to the hospital would not be those who had been convicted or who were regularly living immoral lives, but experience shows that a large number come under this classification. Many patients have been of a very depraved class and refuse to remain in hospital for more than two or three weeks. As many as nineteen have been brought from police courts, some after their tenth conviction, and these cases are compelled, while on probation, to remain in hospital to complete a cure. It is practically impossible for other patients, not so degenerate, to remain in company with those using the most offensive language and having the coarsest of manners. In fact, patients of the class originally expected, when they can be found, appear to be frequently directed elsewhere. The difficulties which confront the women police patrols in seeking to bring to the hospital persons of the class superior to the common prostitute without including many of the latter can be appreciated, and it is probable that, with the end of war conditions in London, there has been a marked diminution in the number of potential patients of the class which, undoubtedly, existed when Sheffield Street Hospital was first contemplated. At the same time, there should no doubt be accommodation available for any destitute wanderer, no matter how hardened the type,

even if much of the expenditure may seem to be wasted. The Sheffield Street Hospital, situated in the most crowded part of central London, with no grounds at all, is far from being a suitable place in which to carry on work of this character.

20. It is probable that there is now accommodation available in London under public or voluntary management for all those cases likely to use it, but there is urgent need for greater co-operation and co-ordination between the authorities and agencies concerned. An opportunity to reconsider the position is afforded by the questions which have arisen as to the use of the institution at Blackheath. On this point the Ministry of Health wrote suggesting that a conference should be arranged between the Ministry, the Board and the County Council, and it is hoped that such a conference may be held at an early date. The experience at Sheffield Street Hospital has shown that there is need in the first place for an institution to which all persons found by the women police patrols can be taken for shelter, whether alleged to be suffering from venereal disease or not. It would not be sufficient for this to be done on the same lines as at the Board's Embankment Night Office, mostly used for men, where destitute persons are examined and given a ticket for an institution suitable for their needs. The women's institution must have resident accommodation where cleansing work can be carried out, and where the next day the cases can be enquired into and sorted out by a competent welfare worker. It should be considered whether the Sheffield Street building, which for this purpose is well situated, or any other vacant accommodation in the Board's possession could be utilised for this purpose. The arrangements for placing the persons found to be suffering from venereal disease in other institutions should be reviewed, and the problem of the lowest class, generally marked off as hopeless, requires further consideration than it has yet had. Meantime, a scheme has been formulated for setting up a central joint committee to secure closer co operation between the authorities and voluntary agencies concerned with various aspects of the problem of women and girls in moral danger, and that such a body would consider proposals for the provision of a reception hostel for treatment and training. both residential and non-residential, for after-care work in connection with institutions and hospitals, and for a central bureau for providing information as to accommodation available and records of cases.

#### (e) Notification Statistics.

21. In the metropolitan area 43,958 cases of infectious disease (exclusive of whooping cough and zymotic enteritis) were notified during the year 1920, or 16,640 more than in the previous

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year. Table VIII. shows the number of cases of each disease notified, and the deaths from the principal diseases admissible to the Board's hospitals; also the rate of such notifications and deaths to the population.

#### (f) Medical Instruction.

22. During the year 303 students attended courses of instruction in fevers, of whom 98 were women. Seventy-nine students attended courses of instruction in hospital administration for the Diploma of Public Health. Arrangements are being made for special post-graduate courses and courses of instruction for naval officers.

#### (g) Research and Bacteriological Work.

23. The research work conducted by the Board in the pathological laboratories continues under the immediate care of Dr. W. Mair, Research Pathologist, and under the general supervision of Professor Sir G. Sims Woodhead, K.B.E. A report by Sir Sims Woodhead, the Board's Bacteriological Adviser, and by the Bacteriologist (Dr. Cartwright Wood) will be found in Appendix E.

#### TUBERCULOSIS.

#### (a) Sanatorium Benefit.

24. The last annual report contained a summary of the work of the Board in connection with the treatment of tuberculosis from the passing of the National Insurance Act, 1911. It was pointed out that the arrangements which were in existence up to last year would be modified by the operation of the National Insurance Act, 1920. Under this Act "sanatorium benefit" ceased to be included amongst the benefits conferred by Part I. of the Act of 1911. The appointed date on which this change came into force was 1 May, 1921. On and after that date Insurance Committees had no longer the duty of providing treatment for persons suffering from tuberculosis, except in so far as medical treatment and attendance are provided as part of "medical benefit" under the original Acts. From the same date the contributions payable by insured persons and their employers under the National Health Insurance Acts did not include any payment towards the cost of the institutional treatment of insured persons suffering from tuberculosis. The duty of providing institutional treatment for such persons, as for the rest of the community, devolved upon the County and the County Borough Councils. The arrangements entered into by the Board with Insurance Committees came to an end and all arrangements after the appointed day were made with the County Councils.

#### (b) Accommodation.

25. The London County Council have recently reviewed the

question of the accommodation required for London for the ensuing year, with the result that they estimate the requirements as follows :---

ADULTS-		
Observation and emergency cases		
Early cases	300	
Moderately advanced cases	500	
Advanced cases	400	
Surgical cases	200	
Training	100	
	1,800	
Children-		
Pulmonary and non-pulmonary	750	
Total number of hede require	ed 2,550	
Total number of beds require	ed 2,000	

26. It will be interesting to compare with this estimate the provision actually made by the Board, viz. :--

Adults-Early and traini	ng case	es		 755		
Hospital cases				 746		
Surgical cases				 164		
					1,665	
Children-Pulmonary an	nd non-	pulmon	nary		489	
					2,154	

The classification of beds given above is very approximate and is subject to readjustment as required, and as those institutions not yet open come into use. With regard to children, the Board have 883 additional beds beyond those given in the foregoing list, which gives the number of beds so far allotted to County Council cases. The rest of the accommodation is utilised for children sent through the Boards of Guardians, and in the event of a decrease in the demands for beds from this source, far more beds would be occupied by County Council cases.

27. In addition to the Board's provision, as stated above, the County Council have arrangements in force for the time being with hospitals and sanatoria which bring the number of beds available to a total in excess of the present estimated requirements. This has an important bearing on the plans which the Board had in contemplation last year. It was then proposed to provide 300 additional sanatorium beds by erecting Copthorne Sanatorium and 450 additional beds by extensions at King George's and Colindale Hospitals. In view of the facts given in the foregoing paragraphs as to the estimated requirements and the accommodation so far provided, the Ministry of Health have decided that these three schemes should not be proceeded with for the present.

28. The following table gives the actual accommodation provided by the Board for tuberculosis, viz. :--

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	Op	en.	To be o during e yes	Total.	
Sanatoria— Downs, Sutton, Surrey	M. 292	F.	М.	F.	292
Pinewood, Wokingham, Berks	80		80		160
Highdown, Godalming, Surrey Northern Hospital, Winchmore	-	-	-	232	232
Hill, Middlesex (part of)		202		_	202
Hospitals- St. George's Home, Chelsea, S.W	-	50		_	50
Colindale Hospital, Hendon, N.W King George's Hospital, Grove	251	-	-		251
Park, Lee, S.E	_	_	229	84	313
Lowesto't*	-		95	69	164
					1.001
Total	623	252	404	385	1,664

(a) Adults.

\* For surgical tuberculosis.

## (b) Children.

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(*) Ommercin.	-		
	E	xisting bed	<b>1</b> s.
Queen Mary's Hospital, Carshalton, Surrey		562	
Princess Mary's Hospital, Margate, Kent		271	
Millfield, Rustington, Sussex		120	
High Wood, Brentwood, Essex		304	
Northern Hospital, Winchmore Hill (part of)		60	

Total ... 1,317

Name of institution.	Adı	ults.	Chil	T.1.1	
Name of institution.	Males.	Females.	Males.	Females.	Total.
The Downs Sanatorium	270		_		270
Pinewood	86		_	-	86
Colindale Hospital	236			-	236
St. George's Home	_	49			49
Queen Mary's Hospital			286	298	584
Princess Mary's "	-		157	103	260
High Wood			140	142	282
Millfield Northern Hospital	-	·	30	33	63
(part of)		185	13	47	245
Park Hospital	44	_			44
South-Eastern Hospital	29	- 1 N	-	-	29
	665	234	626	623	2,148

30. The great demands upon the infectious fever hospitals for the accommodation of scarlet fever and diphtheria cases for which they were provided have already been referred to. This pressure is likely to continue for at least another year, and has rendered it necessary to end the arrangement under which a number of beds in these hospitals had been set aside, as a temporary measure, for tuberculous patients.

#### (c) Education, Training and After-care.

31. The arrangements for the education of children in the various institutions for tuberculosis have been constantly under review in consultation with the Board of Education. At High Wood a scheme for the provision of open-air class-rooms, including a room for manual instruction, has been approved.

32. Provision has been made for manual occupation for the patients at the Downs Sanatorium chiefly in woodwork and some excellent work has been done. In the case of Pinewood, with the approaching completion of the training section described in the last annual report, exhaustive enquiries have been made as to the most suitable industries to be taught, and the views and experience both of the Ministry of Health and of the Ministry of Labour have been obtained. A beginning will be made with light leather, work, brush making and basket and wicker work.

33. The Tuberculosis and Children's Committees have considered the question of the after-care of tuberculous children discharged from the Board's institutions, and especially the surgical cases. The Committees thought it desirable that the children should be seen after discharge by the surgeons at the hospitals at which they attended prior to their admission to the Board's institutions, but that the repair of their surgical appliances should be undertaken at Queen Mary's Hospital, where most of them were made.

## MENTAL HOSPITALS.

(a) Patients.

34. The numbers of patients in the Board's mental institutions for the year 1920 were as follow, viz. :---

Remaining	on 1	Januar	y, 1920	)	 	5,446
Discharged	durin	ig the y	year		 	188
Died					 	594
Admitted					 	875
Remaining	on 31	Decen	nber, 1	920	 	5,539

The average annual number of admissions during the past ten years has been 985. Of the patients admitted, 499 were under 16 years of age, 93 of these being under 5 years of age. Of the 376 admissions over 16 years of age, 195 were between 70 and 80, 85 between 80 and 90, and 3 over 90. The Board continue to enter into agreements with provincial authorities for the reception of patients under the Mental Deficiency Act, 1913, and the number of such agreements is now 63. The number of patients at the end of the year received under these agreements was 1,169. The patients received by agreement from the London County Council numbered 215. Under these agreements the contracting authority pay the full cost of the patients chargeable to them. Statistical information with regard to the patients in mental institutions will be found in Tables XXXI. to XLIV.

#### (b) Accommodation.

35. The rearrangement of the Board's accommodation in their mental hospitals was detailed in the last annual report. With regard to the mentally deficient, a paper describing the Board's work was read by the chairman of the Board at the Conference on Mental Deficiency arranged by the Central Association for the Care of the Mentally Defective, and the National Special Schools Union, and it is reproduced in Appendix C.

36. It has been decided to proceed gradually with the completion of the partly erected buildings for the extension of Tooting Bec Mental Hospital. This work was in progress at the outbreak of the war and was subsequently suspended. When completed the accommodation at Tooting Bec Mental Hospital will be enlarged from 1,114 to 2,220.

#### (c) Staff Housing.

37. The increase in the staff of the mental hospitals consequent upon the reduction of hours led to difficulties in the way of the male staff obtaining housing accommodation in the districts around Leavesden and Caterham Mental Hospitals. The difficulties were accentuated by the return of men from the forces at the end of the war, with the result that many members of the staff were compelled to live in lodgings apart from their families or to share inadequate lodging accommodation with others. The local authorities were inclined to take up the attitude that the onus of providing accommodation for the Board's staff should fall upon the Board, and eventually the Board decided to undertake a housing scheme on a considerable scale. The scheme provided for the erection, by direct labour under the supervision of the Engineer-in-Chief, of 25 houses each at Leavesden and Caterham. and 6 at Darenth. The estimated cost of this scheme for 56 houses was £51,290, less £14,560 from the Government grant in aid of housing, or a net estimated cost of £36,730. Special powers were conferred on the Work's Committee to proceed with

this scheme without delay, and it is gratifying to be able to report that many of the houses were ready for occupation by the end of 1920.

#### CHILDREN.

38. The numbers of patients dealt with in institutions under the control of the Children's Committee during 1920 are given in the following table :---

	Remaining 1 Jan., 1920	Admitted 1920	Discharged 1920	Died 1920	Remaining 31 Dec.1920
Sick and convalescent	888	1,645	1,462	68	1,003
Ringworm	170	674	645	5	194
Ophthalmia	160	177	136	1	200

39. A report by Mr. E. Treacher Collins, F.R.C.S., on the treatment of ophthalmia will be found in Appendix G, and one by Sir James Galloway on skin diseases in Appendix H.

40. Details of the cases treated at Queen Mary's Hospital and other institutions under the Committee will be found in Tables XLIX to LIII.

41. In addition to the beds allocated to tuberculous children sent by the London County Council to Queen Mary's Hospital, arrangements have been made for the admission of children sent by the same authority both to the Children's Infirmary and to White Oak (ophthalmia).

#### TRAINING SHIP "EXMOUTH."

42. The number of boys admitted during the year was 325. Of the boys discharged 82 entered the Royal Navy, and 132 the Mercantile Marine. Details will be found in Tables LIV and LV.

43. The ship was inspected and the prizes distributed on 15 June by Admiral Sir Doveton Sturdee, Bart., K.C.B., K.C.M.G., C.V.O.

#### CASUAL WARDS.

44. The number of casual poor received during the year was 15,478, the average daily numbers being 136. The following table gives the number of inmates of casual wards for several years past, viz :--

	Jan.	Ν	farch.	June.	Sept.	Dec.
1912	 1,022		951	 629	 629	 461
1913	 617		602	 294	 294	 228
1914	 313		302	 186	 238	 164
1915	 172		160	 101	 115	 118
1916	 106		121	 78	 79	 80
1917	 94		107	 66	 74	 88
1918	 76		87	 52	 42	 40
1919	 65		61	 . 41	 76	 74
1920	 95		92	 102	 176	 192
1921	 206		201	 173	 	 

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45. The Casual Wards Committee have continually under consideration the steps that are possible to improve the conditions at the casual wards. The superintendents have made a very liberal use of their powers under the Pauper Inmates Discharge and Regulation Act to discharge inmates before the expiration of the proper period of detention. In every case where there is reasonable ground to assume that the inmate will obtain, or will make an effort to obtain, work he is allowed to go, and is furnished with an introduction to an agency, asking that he may receive assistance in obtaining employment. There has been no stone breaking and no intention of using stone breaking except as a last resort. The difficulties of finding suitable employment for the unskilled are well known. Recourse has chiefly been had in the wards to wood chopping, corn grinding, cleaning and a little oakum picking. The dietary has been improved, the inmates have been allowed to remain up longer, and a supply of magazines has been provided. A great deal of attention has been given to the question of improving the buildings used as casual wards, but very substantial building alterations would be necessary in most cases, and the high cost of this coupled with the financial stringency has rendered progress in the matter difficult. The spirit of the casual ward administration is that recorded in the report of the Committee of November, 1919, reproduced in the last annual report, viz., to improve the condition, and in association with voluntary agencies to uplift and restore every possible case coming under the Board's care.

46. The work of the Board's Night Office on the Embankment in association with the Homeless Poor Committee has continued during the year. The following tables give the numbers of cases dealt with since January, 1920 :—

		-			P	ercentag	ge given orders
			Mon	thly num	ber.	to ca	sual wards.
1920,	January		 	259	· · · · ·		7
	February		 	444			11
	March		 	457			11
	April		 	513			17
	May		 	663			27
	June		 	807			21
	July		 	738			28
	August		 	943			24
	September		 	783			19
	October ·		 	961			22
	November		 	673			19
	December		 	394			12
1921,	January		 	671			13
	February		 	623			13
	March		 	925			18
	April		 	787			18
	May		 	690			18
	June		 	1,144			27

The existing office having proved inadequate for the proper carrying on of the work, arrangements have been made for a larger office, including a waiting room, to be provided on an adjacent site on the Embankment, near Charing Cross.

#### LAND AND RIVER AMBULANCE SERVICES.

47. The number of patients conveyed to hospitals and elsewhere by the Board's ambulances totalled 92,521, as compared with 58,937 in the previous year. As mentioned in the section dealing with infectious fevers, the steamboats of the river service were used for the taking of fever patients to Dartford, and conveyed 4,898 passengers, of whom 4,466 were patients, and 432 were visitors, workmen, &c.

48. The following figures show the total number of removals carried out, journeys made and miles run in 1920, 1919, and 1914, which was the heaviest previous year (exclusive of mileage run by motor vehicles at country institutions) :---

Year.	Removals.	Journeys.	Mileage.	
1914 1919			634,332 580,424	
1920	92,792	54,937	841,186	

The greatest number of acute cases removed on any one day was 244 on 5 November, and the greatest mileage run on any one day was 4,338 on the same day. Further details are given in Tables XLVII. and XLVIII.

49. There has been a substantial increase in three branches of the work, viz., the removal of patients, the conveyance of staff, and the transport of stores and equipment, and the necessary measures have been taken by the provision of new vehicles to cope with this work, and to be in readiness to meet future needs.

#### WORKS.

50. During the year the works department has been very fully occupied by reason of the efforts made—which have for the most part been successful—to overtake the arrears of cleaning and painting and other maintenance work which had accrued during the war period; and with this in view, and in order to alleviate somewhat the distress resulting from unemployment, the formalities of contracts were dispensed with in many cases, and a considerable amount of maintenance works carried out by direct labour. This procedure in the case of the infectious hospitals enabled the whole of the urgent and necessary work to be completed before the big rise that took place in infectious disease. The total value of the works carried out under the supervision of the Engineer-in-Chief, apart from the value of the works carried out by the engineering and building staffs at the institutions, during the year amounts to £182,250, comprising £147,500 in respect of the surveying and building works (including £59,450 the value of works carried out by direct labour), and £34,750 for engineering works (including £10,421 carried out by direct labour). The Engineer-in-Chief has during the year paid great attention to the cost of engineering services at the several institutions, with the result that economies have been effected, more especially in consumption of fuel, and a saving of 10,190 tons of coal was made in the year at the larger institutions as compared with the average consumption of the previous five years.

51. In June, 1920, owing to the shortage of accommodation for married staff it was decided to take advantage of the Government housing subsidy scheme and to erect 56 houses at mentals hospitals for staff, and subsequently 4 at White Oak. Considerable progress has been made and several of them had been finished by the end of the year. The erection of Highdown Sanatorium, which was commenced in April, 1920, at the outset proceeded slowly owing to the difficulties in obtaining materials and skilled labour, but has since been well advanced. The adaptation as a hospital for non-pulmonary cases of tuberculosis of the Empire Hotel at Lowestoft, the works necessary to prepare King George's Hospital, Grove Park, for opening, and to link up the City of London infirmary adjoining the Eastern Hospital with the Eastern Hospital for the purpose of making one institution have engaged the attention of the Committee, and details of these works have been settled.

#### SUPPLIES.

52. The Contract Committee has dealt with the question of maintaining the supplies for a daily population averaging 25,000 during the year. The conditions under which supplies to the Board's institutions were maintained during 1920, while somewhat less difficult than in the war period, were still far from normal. The work of the Committee and Department concerned continued to increase, partly owing to the additional institutions acquired by the Board and partly to the unprecedented epidemic of infectious disease.

53. During the year proposals were made through the Ministry of Health for the undertaking by the Board of supplies to the institutions of the Poplar Guardians, and at the close of the year a definite scheme for this work was before the Board and the Ministry.

54. Towards the close of the year prices of many commodities began to fall, and by the end of the year the decline had become pronounced in certain cases.

55. The work of the Central Stores in receiving, examining and distributing goods was exceptionally heavy during the period of the extension of hospital accommodation to cope with the epidemic. The value of the goods passed through the Stores during the year exceeded  $\pounds 230,000$ .

56. The system of analysis of goods supplied has continued to prove its value, and the quality of supplies generally has been shown by analysis to have been maintained satisfactorily. The following summary of the analysts' reports shows a percentage of unsatisfactory results of 3.49.

#### ANALYSIS OF SUPPLIES, 1920.

Summary of reports received.

Sa	tisfactory.	Unsatisfactory.	Total.
Provisions	388	25	413
Necessaries	383	5	388
Drugs	86	1	87
	857	31	888

#### FINANCE.

57. Table VI. sets out under the customary headings the figures relating to the Board's expenditure for the year ended 31 March, 1920. The total net expenditure amounted to £1,872,013, which is equal to a rate of 9.86d. in the pound. The expenditure in the principal departments within the same period was as follows :—

Infectious Hospitals	£712,941
Mental Hospitals	519,928
Children's Institutions	187,185
Tuberculous do.	153,740

58. As the work of the Board consists of the provision and maintenance of hospitals for various classes of the sick and infirm, its expenditure falls principally under three headings—food and other supplies, salaries and wages, upkeep of buildings. This expenditure has inevitably risen side by side with the known increases of cost under each of these headings throughout the country. It is gratifying to find that the estimates for the year 1920-21 do not entail any increase in the Board's rate, while under the financial arrangements happily made by the Board in 1907, their pre-war indebtedness will be discharged next year.

#### STAFF.

(a) Difficulty of obtaining female resident staff.

59. The difficulties of obtaining the required number of

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resident female staff, and especially of nurses for the infectious hospitals, have been referred to in paragraph 6. They are probably due in considerable measure to the post-war reluctance to take up posts, which, however short the hours, and however favourable the other conditions, involve residence within an institution and the undertaking of work in turns over the weekends. In recent years the increase of openings for the employment of women, and in particular the war experience in this direction, have enlarged the difficulties of obtaining female resident staff.

#### (b) Bonus Arrangements.

60. During the year 1920, the cost of living as shown by the monthly official figures published by the Ministry of Labour rose from 125 (i.e., 125 per cent. above pre-war prices) in January to 176 (the highest figure reached) in November. December (169) saw the beginning of the fall, which was continued through 1921, the figure in May being 126. A large percentage of the Board's staff receive a bonus on the same basis as that adopted for the Civil Service, and although the cost of living figure has been dropping for some time, the first decrease in the bonus, and that a substantial one, will operate under the agreement from 1 September, 1921. This is due to the fact that the bonus is adjusted periodically, at first every four months, and from March, 1921, every six months, on the average figures for the preceding months. a method which involves a lower payment on a rising figure and a higher rate on a falling figure than would be the case if the rate were computed monthly. In other words, both the increase and the decrease lag behind the rise and fall of the figure, but the net result, though rather more difficult to follow, is not, of course, inequitable. The mental hospital workers receive by agreement a fixed bonus, which was increased by agreement as from February, 1920. In view of the decrease in the cost of living figure, negotiations are in progress for changing the fixed bonus to one on a sliding scale following the cost of living, and there is no reason to doubt that a mutually satisfactory settlement will be arrived at.

#### (c) Staff Dietary.

61. The feeding of the Board's large rationed staff is a matter which from the points of view both of the well-being of the employees and of the great expense involved (over  $\pounds 200,000$  per annum) calls for continuous supervision, and the Staff Sub-Committee, to whom the work is entrusted, devoted much of their time to this important subject. Certain increases in the dietary scale were made in order to allow of greater variety in the menus. Various types of mechanical kitchen appliances were installed in

several institutions. These appliances have been found to be a great advantage, and to save money, time, and labour.

62. As one of the consequences of the introduction of the 48 hour week, and of the increasing tendency for staff to become non-resident, certain difficulties were met with in connection with the supply of meals to employees who live out. Particularly was this the case at the ambulance stations, and the Staff Sub-Committee, after consideration, and after conference with the Ambulance Committee, put forward a recommendation that all the ambulance staff should live out and make their own arrangements as to meals, the necessary facilities for cooking and eating their food being provided at the stations. This was approved by the Board as from 1 January, 1921. The scheme appears to be working well, and the question of its extension to other branches of the service is before the Sub-Committee. Another matter that is occupying attention is the training of the kitchen staffs. Many of the 300 women engaged are unskilled in their work, and it is felt that the comfort of patients and staff and the interests of economy and efficiency will be best secured by taking some steps for these employees to be trained in their important duties.

#### (d) National Insurance.

63. The Unemployment Insurance Act of 1920, which came into operation in November of that year, and which repeals the previous Unemployment Insurance Acts, affects the majority of the Board's staff. All employees except (a) ministers of religion and medical officers, (b) non-manual workers whose rate of remuneration exceeds  $\pounds 250$  per annum, (c) agricultural workers, and (d) domestic servants are insurable under its provisions. The terms under which a general certificate of exception may be issued by the Minister of Labour are much more exacting to the employer than the conditions under which the Board obtained exemption from the 1911 Act. The question of making application for such a Certificate is under consideration. Meanwhile, apart from employees who naturally fall under the four headings above given, the staff as a whole are insured under the Act.

64. The National Health Insurance Act, 1920, increased the rates of contributions and the rates of sickness and disablement benefits under the health insurance scheme. Sickness benefit was altered in the case of men from 10s. to 15s. a week, and it consequently became necessary, pursuant to the provisions of the Act, for the Board to increase similarly the amount of minimum weekly sick pay guaranteed to male staff in order to continue under a Certificate of Exception from compulsory health insurance. This the Board did in July, and subsequently an

amended Certificate was issued by the National Health Insurance Joint Committee and the Ministry of Health, there being no break in the continuity of exception of the employees concerned.

#### (e) Miscellaneous Matters.

65. The position of the many temporary employees of all grades engaged as war staff since 1914 presented difficulties in the way of an equitable settlement. Eventually it was decided to appoint to the Board's permanent staff all those who were recommended as suitable by heads of institutions, the standing order as to the maximum age on appointment being, in view of the unusual circumstances, waived in their cases. After consultation with medical authorities the Board recognised the alteration in practice by formally rescinding an order of long standing forbidding the staff in the infectious services to be non-resident, except so far as it concerned nurses, who must still continue to live in the hospitals. At their last meeting before the 1920 summer vacation the Board dealt with several matters of importance to the staff, amongst which may be noted-the formal adoption of the new and more economical uniforms scale, the approval of an annual leave scale and regulations, granting for the first time a week's holiday to trade union permanent employees, the laying down of of rules governing the financial results to staff of being sick and warded in an institution, and general regulations as to the provision of meals for resident and non-resident employees. Rules have also been framed to meet the case of institute and co-operation nurses who fall ill when on duty and are treated in the institution.

66. During the year 1919-20, 933 accidents to staff were reported; most of these were minor in character. Two or three having occurred in the use of certain machinery, regulations were devised with the idea of preventing further accidents of this nature, and so far they have been successful. A few serious claims for compensation for permanent incapacity were received, amongst which may be noted that of a driver who was thrown out of an ambulance as the result of a collision and received injuries to his head, and of a daily woman who met with a fall at a fever hospital, fracturing her left patella. In both these cases substantial lump sums were paid by way of compensation. In another case an X-ray assistant at the Brook War Hospital had contracted X-ray dermatitis, seriously impairing the use of his left hand. In this case, although there was no legal liability, the Board arranged with the War Office for a liberal sum to be paid *ex gratia*.

67. In the last report attention was directed to the increase in the Board's total staff from 6,593 at the end of 1913 to 8,819 on 30 April, 1920. This latter figure increased at the rate of

about 100 per month until September, when it was 9,443. In October there was a marked rise to 10,188, due to the fever epidemic, the figure increasing to 10,583 in November and 10,624 at the end of the year. In January, however, the numbers of staff began to drop, until on 31 March, 1921, they stood at 10,377. It should be noted that there were about 3,650 more patients under the Board's care at the end of 1920 than at the close of the previous year. Other causes for the increase in the numbers of employees are the resumption of hospitals used for war purposes, the opening of the Lower Southern Hospital and the Orchard Hospital for purposes of the epidemic, and the increase of staff in the tuberculosis service. During the year 8,234 staff joined the service, amongst whom may be noted a good proportion of ex-service men, including those disabled. The Board is on the King's National Roll, and every effort is being made to maintain their reputation for employing considerably more than the bare minimum demanded by the Government for this purpose.

#### THE BOARD'S WORK,

68. A list of the Members of the Board is given in Tables 1 and 11. The Very Rev. Canon Sprankling and Mr. Thomas Cornell were re-elected Chairman and Vice-Chairman of the Board respectively for a second year in May, 1920.

69. Upon the occasion of the King's Birthday, 1921, His Majesty conferred the honour of Knighthood upon Mr. Robert Woolley Walden, who had been a member of the Board for 21 years, who occupied the Chair during the arduous years 1913-1919, and who had taken a special part in the war activities of the Board which were detailed in the last annual report. At the Board meeting on 4 June, Sir Robert Walden received the cordial and unanimous congratulations of his fellow members on his wellmerited distinction.

70. The Board received with much regret the news of the death on 21 December, 1920, of Sir Edwin H. Galsworthy, J.P., D.L., who was a member of the Board for nearly 39 years and its chairman for 21 years (from November, 1881 to May, 1901), of the death on 7 January, 1921, of Dr. E. C. Bousfield, a member since 1910, and of the death on 5 June, 1921, of the Rt. Hon, Will Crooks, a member from 1898 to 1907 and chairman of the Children's Committee.

71. A general description of the work of the Board is given in Appendix A, while Table III gives certain details of each of the institutions controlled by the Board.

Most of the work of the Board is done by committees (and their sub-committees), of which the following is a list :---

General Purposes Committee, a committee of the whole Board, to whom are referred all questions of policy and all questions affecting the Board's work as a whole. This committee has 4 sub-committee.

Finance Committee (12 members), whose duties are sufficiently indicated by its name.

Infectious Hospitals Committee (36 members) who manage the infectious hospitals, a list of which is included in Table III. This committee works through 14 sub-committees.

Tuberculosis Committee (21 members), who manage the institutions for tuberculosis. The committee has 7 sub-committees.

Mental Hospitals Committee (30 members), who manage the mental hospitals and the training and epileptic colonies. A list of these institutions is included in the same table. This committee has 7 sub-committees.

Children's Committee (25 members), who manage the hospitals schools and homes for sick children, a list of which is given in the same table. This committee has 6 sub-committees.

Ambulance Committee (12 members), who control the land ambulance service.

Training Ship Committee (12 members), who manage the training ship. Three sub-committees.

Casual Wards Committee (12 members), who control the casual wards.

Works Committee (16 members), who supervise building and engineering work. One Sub-Committee.

Contract Committee (24 members), who arrange for the supplies needed at the several institutions. One Sub-Committee.

Statistical Committee (12 members), whose principal function is to supervise the issue of the annual report of the Board, of which this is the twentythird consecutive issue.

(Signed)

J. SPRANKLING, Chairman of the Board.

(Signed)

DUNCOMBE MANN, Clerk to the Board.

Office of the Board, Embankment, London, E.C. 4. July, 1921.


# APPENDICES.

#### APPENDIX A.

# NOTE ON THE CONSTITUTION AND DUTIES OF THE METROPOLITAN ASYLUMS BOARD.

### CONSTITUTION.

The Metropolitan Asylums Board was established by an Order of the Poor Law Board, dated 15 May, 1867, pursuant to the provisions of the Metropolitan Poor Act, 1867 [30 & 31 Vic., c. 6]. This Act empowered the Poor Law Board to combine into districts the unions and parishes of the metropolis as they should think fit, for the purpose of establishing "asylums" for the reception and relief of the sick, insane or infirm, or other class or classes of the poor, and to issue Orders controlling the action of the Board of any such district.

The Metropolitan Asylum District embraces all the unions and parishes in London, and the Board deal with those matters which it is considered **ean** best be transacted by a central authority for the whole of the metropolis rather than by each separate board of guardians acting locally. The Poor Law Board and their successors, the Local Government Board, and the Ministry of Health have from time to time issued Orders for the direction and guidance of the Metropolitan Asylums Board.

The Board is composed of 73 members, 55 being elected by the metropolitan boards of guardians and 18 nominated by the Ministry of Health.

### DUTIES.

### (i.) Infectious diseases.

The first Order already referred to, dated 15 May, 1867, constituted the Board

for the reception and relief of the classes of poor persons chargeable to some union or parish in the said district respectively, who may be infected with, or suffering from, fever, or the disease of smallpox, or may be insane.

The Diseases Prevention (London) Act, 1883 [46 & 47 Vie., e. 35], removed the civil disabilities which had till then been attached to admission into the Board's hospitals.

In 1888 the Board was authorised to admit diphtheria patients, and by the Poor Law Act, 1889 [52 & 53 Vic., c. 56], they were empowered to admit nonpauper cases of fever, diphtheria, and smallpox.

These provisions with regard to the removal and reception of fever, diphtheria, and smallpox patients were subsequently incorporated in the Public Health (London) Act, 1891 [54 & 55 Vic., c. 76].

XXXV

By Order dated 18 February, 1911, the Local Government Board sanctioned the admission to any of the infectious hospitals of poor persons suffering from such infectious or contagious diseases other than those above mentioned as they might thereafter determine. On 22 February, 1912, the Board sanctioned the admission of poor children suffering from measles or whooping cough received through the metropolitan poor law authorities, while by further Orders, dated 30 May, 1911, and 9 August, 1912, issued pursuant to the provisions of the Public Health (London) Act, 1891, sec. 80, the Local Government Board sanctioned the admission, subject to certain restrictions, of non-pauper cases of measles and whooping cough respectively.

On 2 July, 1912, the Local Government Board (under their Order of 18 February, 1911) authorised the Board to receive into their infectious hospitals, through the poor law authorities, poor persons suffering from puerperal fever, and by Order dated 20 August, 1912, prescribed that, subject to certain restrictions, non-pauper cases should also be admitted.

Provision is made at the infectious hospitals for the instruction of medical students and of candidates for the diploma of public health. Provision is also made for bacteriological work and for research work into the causation of infectious disease.

The Board receives from the several medical officers of health notifications of infectious disease occurring in the metropolis, and publishes information relating thereto. [Infectious Disease (Notification) Act, 1889 (52 & 53 Vic., c. 72), and Public Health (London) Act, 1891 (54 & 55 Vic., c. 76), s. 55, s.s. (4).]

### (ii.) Institutions for tuberculous patients.

The Board has entered into arrangements with the London County Council under which it provides residential treatment for tuberculous patients in the county of London (National Insurance Acts, 1911 to 1918, 1 & 2 Geo. 5, c. 55, and 3 & 4 Geo. 5, c. 37, and 7 & 8 Geo. 5, c. Public Health (Pr. vention and Treatment of Diseases) Act, 1913, 3 & 4 Geo. 5, c. 23].

Under the National Health Insurance Act, 1920, sanatorium benefit will cease to be included among the benefits conferred by Part I. of the Act of 1911. The Ministry of Health have fixed 1 May, 1921, for sanatorium benefit to cease as an insurance benefit, the cost being borne partly by the Government and partly by the Board.

### (iii.) Ambulance service.

By the Poor Law Act, 1879 [42 & 43 Vic., c. 54, s. 16], superseded by sec. 79 of the Public Health (London) Act, 1891, the Board was empowered to provide an ambulance service for the removal of patients.

### (iv.) The mentally defective.

The Local Government Board Order, dated 15 May, 1867, included the "insane" amongst the classes of poor for whose reception and relief the Board was constituted.

A further Order, dated 18 May, 1875, defined the persons to be admitted into the Board's mental hospitals as

such harmless persons of the chronic or imbecile class as could be lawfully retained in a workhouse; but no dangerous or curable persons such as would under the statutes in that behalf require to be sent to a lunatic asylum shall be admitted.

A Local Government Board Order, dated 2 April, 1897, included feeble-minded children amongst the classes of poor persons to be received by the Board, and authority was subsequently given for the retention of these cases after 16 years of age. The provisions in this behalf are now incorporated in an Order dated 29 December, 1911, and called the Metropolitan Asylums (Mentally Defective Persons) Order, 1911, which defines the mentally defective persons to be received as

persons not certified as lunatics, who by reason of mental defect are incapable of receiving proper benefit from ordinary instruction, or cannot be properly trained in association with other persons in ordinary schools or institutions, or are incapable of using ordinary means or precautions for protecting themselves from injury or improper usage or treatment, or are incapable of maintaining themselves by work ; provided that any such poor person on admission into an asylum belonging to the Metropolitan Asylum Managers shall not exceed 21 years of age.

On 1 January, 1918, the Local Government Board consented, for a period of five years, to the reception into certain of the Board's mental hospitals and industrial colonies of cases certified under the Mental Deficiency Act, 1913.

### (v.) Boys for training.

The provision of a training ship for the training of boys for sea service was sanctioned by the Local Government Board in 1875, under the terms of the Metropolitan Poor Amendment Act, 1869 [32 & 33 Vic., c. 63, s. 11.]

### (vi.) Sick children.

By Orders of the Local Government Board, dated 2 April, 1897, and 11 September, 1908, the Board was constituted as the central metropolitan authority for dealing with various classes of poor law children, the sick and convalescent, those suffering from ophthalmia and ringworm and the mentally defective (see above). Under the first of these Orders the Board also provided for juvenile offenders from 1902 to 1910, when this branch of work was transferred to the London County Council.

### (vii.) Casual poor.

On 10 November, 1911, the Local Government Board issued the Metropolitan Casual Paupers Order, 1911, forming a district coterminous with the existing Metropolitan Asylum district for the relief of the casual poor of the metropolis. The Order also provided under section 10 of the Pauper Inmates Discharge and Regulation Act, 1871 (34 & 35 Vic., c. 10-), that the Metropolitan Asylums Board should be the Board for the new district. Prior to the issue of this Order, every metropolitan board of guardians was required by the Metropolitan Houseless Poor Act, 1864 [27 & 28 Vic., c. 116], to provide casual wards for "destitute wayfarers and foundlings."

As contemplated in the Casual Paupers Order, the Local Government Board on 28 March, 1912, issued the Metropolitan Casual Wards (Transfer) Order, 1912, transferring to the Board on terms prescribed therein those of the casual wards provided under the Act quoted, which it was proposed to continue.

The effect of these two Orders was to centralise the control under the Board, from 1 April, 1912, of most of the casual wards administered prior to that date by the separate boards of guardians.

In connection with the casual wards the Board has undertaken the management of a scheme for dealing, in co-operation with the police and voluntary agencies, with the homeless poor at night. ANNUAL REPORT, 1920.

### (viii.) Parturient women suffering from venereal disease.

The Local Government Board, in September, 1916, issued an order adding this class to those for whom provision is made by the Board, and arrangements have been made for the treatment of such cases in the City of London Guardians' institution at Thavies Inn.

Women and girls suffering from venereal disease are also now received.

### (ix.) Ophthalmia neonatorum.

In September, 1917, the Local Government Board stated that it was necessary to make provision for hospital treatment of certain cases of ophthalmia neonatorum, and that they were of opinion that this duty could best be undertaken by the Board.

### (x.) Sane epileptics.

In 1916 the Board, on the suggestion of the Local Government Board, undertook to receive sane epileptic children in a portion of one of their children's homes, and subsequently they agreed also to arrange for the care of male adult sane epileptics. Early in 1917 the Local Government Board issued an order adding sane epileptics to the classes of poor persons for whose maintenance the Metropolitan Asylum District is deemed to be formed.

### (xi.) Summary of duties.

The work of the Board now includes the following and the administration of the institutions, particulars of which are shown in Table III. :---

Infectious diseases—fourteen hospitals for smallpox, scarlet fever, diphtheria, enteric (or typhoid) fever, typhus fever, measles, whooping cough and puerperal fever (with arrangements for dealing with plague and cholera).

Bacteriological establishment and laboratories.

Sanatoria and hospitals for tuberculous patients (National Insurance Act, 1911-1913)—seven institutions (and three in preparation) and part of one of the infectious hospitals.

Women and girls with venereal disease—one institution, one in preparation, and one managed for the Board by the Guardians of the City of London Union.

Ophthalmia neonatorum—one hospital.

- Notification of infectious disease—the collection and distribution of information in this matter.
- Mentally defective—four mental hospitals for imbeciles, including infirmary for aged patients, two training colonies for improvable imbeciles and feeble-minded.
- Sane epileptics-one colony, and one managed for the Board by the Hackney Guardians.

Sick children-five institutions (two inland, one at the seaside, one home for ringworm and other skin diseases, and one ophthalmia school).

Boys-a training ship Exmouth I. and its tender Exmouth II.

- Casual poor-eighteen (12 closed) casual wards for homeless poor; homeless poor night office.
- Ambulance services—seven ambulance stations, three riverside wharves, with motor ambulances and ambulance steamers.
- Central stores-for reception of goods and their distribution to the various institutions.

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The following is a list of the several classes of persons for whom the Board is now required to provide accommodation, with the year in which the duty was first cast upon it.

(a) The ment : Ily afflicted and epileptics.

a) Ine ment :	ay ajficted and epileptics.		
<ol> <li>(1) 1867.</li> <li>(2) 1867.</li> <li>(3) 1867.</li> <li>(4) 1867.</li> <li>(5) 1867.</li> <li>(6) 1897.</li> <li>(7) 1916.</li> <li>(8) 1917.</li> </ol>	<ul> <li>Harmless poor law imbeciles (adults incapable of improvement).</li> <li>,, ,, (children incapable of improvement).</li> <li>,, ,, (adults capable of improvement).</li> <li>,, ,, (children capable of improvement).</li> <li>Suitable cases certified under the Lunacy Acts transferred from the London County Asylums.</li> <li>Feeble-minded poor law children (uncertified).</li> <li>Sane epileptics (poor law).</li> <li>Cases certified under the Mental Deficiency Act, 1913.</li> </ul>		
b) The physically afflicted—infectious and contagious diseases.			
$      \begin{array}{r} (10) \ 1867. \\ (11) \ 1867. \\ (12) \ 1867. \\ (13) \ 1888. \\ (14) \ 1897. \\ (15) \ 1897. \\ (15) \ 1897. \\ (16) \\ 1910. \\ (1912. \\ (17) \\ 1912. \\ (17) \\ 1912. \\ (18) \ 1912. \\ (19) \ 1907. \\ (20) \ 1917. \\ \end{array} $	Cases of scarlet fever. ,, enteric fever. ,, typhus fever. ,, small-pox. ,, diphtheria. Poor law cases only till 1883, when Parliament removed the civil disability. All cases are now receivable whatever their status. Poor law children suffering from ophthalmia. ,, ringworm. Cases of measles (poor law). ,, (other than poor law). ,, whooping cough (poor law). ,, uter than poor law). ,, puerperal fever (poor law and otherwise). ,, cerebro-spinal meningitis. ,, ophthalmia neonatorum.		
$\binom{(21)}{(22)}$ 1905.	" plague and cholera (when necessary).		
$ \begin{array}{c} (23) \\ (24) \\ (25) \end{array} 1919. \left\{ \begin{array}{c} \\ \end{array} \right.$	Trench fever. Malaria. Dysentery.		
c) The physically afflicted—tuberculosis.			
(1019 Cases received with the London Incurrence Committee and the			

(26) {1913. Cases received viâ the London Insurance Committee and the London County Council.

- (1913. Cases received via Extra-Metropolitan authorities
- (27) 1897. Poor law children with tuberculous disease.
- (28) 1917. Discharged soldiers and sailors suffering from advanced tuberculosis.
- (d) The physically afflicted-other diseases.
  - (29) 1897 & 1908. Poor law children requiring seaside air or special treatment in a hospital or convalescent home.
  - (30) 1916. Parturient women suffering from venereal disease.
  - (31) 1920. Women and girls suffering from venereal disease.

(e) Healthy classes.

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- (32) 1875. Poor law boys for training for the sea service (including many received from extra-metropolitan parishes and unions).
- (33) 1911. Casual poor.

# ANNUAL REPORT, 1920-21.

### APPENDIX B.

# HEALTH ADMINISTRATION IN LONDON AND THE MANAGEMENT OF RESIDENTIAL INSTITUTIONS.

# Report of the General Purposes Committee, adopted by the Board on 31 July, 1920, with regard to the Scheme of the London County Council.

31 JULY, 1920.

### TERMS OF REFERENCE.

(I) On the 27 March last the Board instructed us to consider and report upon the scheme proposed by the London County Council for the administration of the health services in London in so far as it affects the constitution and duties of the Metropolitan Asylums Board.

### THE COUNTY COUNCIL SCHEME.

(2) This scheme is set out in a report dated 31 October, 1919, by a special committee of the Council on Health Administration in London, which was adopted by the Council on 19 December, 1919. A copy of this report has been supplied to each member of the Board. The Special Committee's report, after referring to the object of the Ministry of Health Act, 1919, which was to bring under one Minister of the Crown and one Government Department the health functions hitherto exercised or supervised by various Government Departments, points out that the Act did not effect any re-distribution or re-arrangement of the health functions of local authorities. In expectation that in due course proposals with this object would be submitted to Parliament by the Government, the Council proceeded to prepare their own scheme for this re-distribution and re-arrangement so far as London is concerned. The report proceeds to survey the development of health services, including those in respect of (i.) infectious diseases, (ii.) the poor law, (iii.) education, (iv.) National Health Insurance Acts, (v.) maternity and child welfare, and (vi.) voluntary health agencies, including the voluntary hospitals. After giving instances of overlapping in several directions and of certain deficiencies, the County Council scheme proceeds to set forth proposals for reconstruction involving the division of all health services in London between the Council and the metropolitan borough councils, leaving the County Council the statutory authority for health services in the county with power to organise and supervise the services for which the borough councils are to be allowed to remain responsible. Accompanying this scheme are financial proposals, the chief of which are for a standard Government grant of 50 per cent. of the expenditure on health services otherwise falling on the rates, for the full cost of the work of inspection and supervision of the whole of the arrangements made in respect of the health of the community to be borne by the public, and for the individual who is benefiting by treatment to be charged a portion of the cost where he is in a position to pay. The Council conclude by stating that their proposals involve the minimum of change in the existing organisation of London government.

THE PROPOSALS WITH REGARD TO THE METROPOLITAN ASYLUMS BOARD.

(3) With regard to the Metropolitan Asylums Board, the report of the Council's Special Committee states—

The institutions of the Metropolitan Asylums Board and its highly competent staff would, it is assumed, be transferred *en bloc* to the Council.

In addition it would probably be desirable that the Council should have the benefit of the experience in hospital management of some of the members of the Metropolitan Asylums Board.

Elsewhere in the report it is stated that

Although the constitution of the Metropolitan Asylums Board, which is not appointed by direct election, has long been considered anomalous, this important body has certainly performed its duties very efficiently.

In dealing with the question of provision for tuberculosis, the report proceeds-

The Council and the Metropolitan Asylums Board have throughout worked in friendly co-operation . . . .

The Chairman of the Council's Special Committee, speaking in support of the proposals at a deputation from the Council to the Minister of Health, said----

If Parliament should decide to transfer to the Council the duties of the Metropolitan Asylums Board, it would be an advantage that the members of that body should be available to assist the Council.

We desire to say at the outset that we appreciate to the fullest possible extent the great services rendered by the Council to the metropolis, and that the comments which we offer on their present scheme are dictated in no spirit of carping criticism and with no wish to maintain in their entirety, without alteration or improvement, the existing arrangements which are dealt with in the scheme. We specially appreciate the friendly and complimentary references in the Council's reports to the work of the Board and its staff. They make us regret the more that the Council did not include the Board amongst the authorities (the Corporation and the borough councils) who were invited in July, 1919, before the report was prepared, to forward their views as to the manner in which the administration of the health services for which they were responsible might best be correlated with that of the Council, nor, apparently, amongst the same and other authorities exercising health functions in London, with whom the Council, after adopting the report, decided to confer with a view to the formulation of detailed proposals. Our comments are directed to the positive and practical purpose of submitting the views of the Board, based on their long administrative experience, to those responsible for settling any changes in the government of London. They divide themselves into two parts, first, some observations on the present proposals as affecting the whole question of London government, and, second, some comments on the particular proposal to transfer the management of a large number of residential institutions for the sick to the central governing authority for London.

# LONDON GOVERNMENT AS A WHOLE.

(4) It has been observed that the County Council state that their scheme involves the minimum of change in the existing organisation of London government. We believe, however, that it is undesirable to consider the scheme in this connection only, and that it should be borne in mind that the Council has, on many occasions, expressed a very strong desire to bring about a complete alteration in the existing organisation of London government and to change the entire basis on which that organisation has been constructed. On 21 October, 1919, the Council adopted a report submitted by their Local Government, Records and Museums Committee, and they decided that in the opinion of the Council an enquiry should be instituted with the least possible delay by the Government in order to determine (a) the particular services which should be brought under a single administration throughout Greater London,

(b) the area of Greater London which should be unified in respect of the administration of these services,

(c) the authority to which should be entrusted the administration of these services, and

(d) the relation of that authority to other local authorities in the area.

From the report in question it may fairly be gathered that the Council think it necessary for the efficient performance of all the more important powers of local government that the boundaries of the administrative County of London should be widely extended. The present administrative county has an area of 116.9 square miles, with a population in 1911 of 4,521,685, and an assessable value in April, 1917, of £45,341,004. The "Greater London" of the census, which is the combined area of the metropolitan and city police districts, includes 692.9 square miles, with a population of 7,251,358, and an assessable value in April, 1917, of £63,226,105. This area covers the district from Acton on the West to Ilford on the east, and from Edmonton on the north to Croydon on the south. The five home counties also mentioned by the Council as a possible basis for a future province of London include an area of 4,758 square miles, with a population of 9,201,484, and a rateable value in April, 1914, of £72,000,000. It is significant that the Council, in pressing for an immediate enquiry into this question, urge many strong reasons why local government problems, including health, cannot satisfactorily be dealt with unless the present county boundaries are extended, and say-

These are all urgent problems which press for a solution. They must be solved either piecemeal and independently as in the past, or on a single considered plan. We cannot contemplate without dismay the prospect of the former alternative, and we are convinced that the time is ripe for a careful enquiry by some independent tribunal into the whole question of the government of Greater London. The enquiry must be difficult and may be prolonged.

(5) With these views we are entirely in agreement, and we think they provide, from the Council's own reports, a very strong argument against dealing piecemeal with the problem of London health government. Incidentally it may be mentioned that on 27 January, 1920, the Council decided that the constitution of the Metropolitan Water Board was unsatisfactory, and that in the event of a central authority being established for the government of Greater London such authority should exercise the functions and duties of that Board. Again in 1893 the Council decided that

A market authority for the County of London should be created and that the County Council should be such market authority,

but the departmental committee set up to consider the question last year reported in favour of an *ad hoc* authority, mentioning that no existing body had authority over the whole area of Greater London. The Local Government Committee of the Council accepted the view that in the event of a central authority being set up for Greater London, that authority should become the market authority, and that any new *ad hoc* body should be of a temporary character pending a decision on the question of the government of Greater London.

(6) The recent report of the Consultative Committee of the Ministry of Health on the future provision of medical and allied services, presided over by Lord Dawson of Penn, raises the same question. With regard to a new health authority, that Committee say in their reportAs regards the nature of this new health authority there are some who favour a statutory committee of an existing local authority, whereas there are others who favour the establishment of an *ad hoc* independent body for the purposes of administering health services alone. The question which of these courses is preferable is one upon which we would rather defer any final expression of opinion.

(7) The interim report just issued of the Committee appointed by the Minister of Health to consider and advise on the principles to be followed in dealing with unhealthy areas also calls attention to the fact that there is no body in existence having a sufficiently widespread authority to deal with this matter, considers it of great importance that such a body should be established at the earliest possible moment, and refers definitely to the setting up of a parliament for London.

(8) The Speaker's Conference on Devolution has recently proposed local parliaments for England, Scotland and Wales, with powers which include those relating to public health. London already has the population and wealth of a small state, and it may well be entitled to a legislative body in local affairs, with an increased area, under a federal scheme. Indeed, the County Council, in many reports, has advanced cogent reasons for this course. But until this has been decided, it appears inadvisable to proceed by way of adding administrative duties, full of detail, to the Council, already heavily charged with such duties, and at a time when it is in contemplation to transform the Council into a local parliament for the enlarged province of London. Such a body would of necessity be legislative rather than administrative, and would occupy much the same relation to the province of London in local affairs as the present Parliament does to the whole country in the same affairs.

(9) Our first recommendation is therefore based on the views which we gather were those of the County Council until the production of the present scheme of health administration, namely, that the problem of London government should be dealt with as a comprehensive whole, including the question of areas, powers and duties, and that the least desirable course is that there should be any attempt at piecemeal reorganisation.

# THE MANAGEMENT OF RESIDENTIAL INSTITUTIONS FOR THE SICK.

# (a) The extent of the work.

(10) In the previous paragraphs of this report we have given our reasons in general against any transfer of the duties at present undertaken by the Metropolitan Asylums Board in connection with the management of residential institutions pending the consideration of much larger issues in connection with the government of London. We propose now to deal in more detail with the scheme for making such a transfer while the responsibilities and duties of the County Council remain as they are at present. The County Council is an administrative body charged, *inter alia*, with the care of lunatic asylums and mental deficiency, the Building Acts, education, fire brigade, highways and improvements, housing, main drainage, parks and small holdings, and certain duties relating to public health, theatres and music halls. The Council is composed of 144 members, and apparently has sufficient work to occupy fully this number of representatives. On the committees appointed for (i.) asylums and mental deficiency, and (ii.) education, there is a number of co-opted members. The percentage of actual to possible attendances of the co-opted members on these two important committees is very much larger than that of the elected members of the council, as might naturally be expected from the great volume of work which awaits the elected members on the Council proper and on the committees on which co-opted members find no place. A real disadvantage of the system of management by a committee with co-opted

members is that the latter, while devoting a large amount of time to the detailed work of the committee, have no voice or influence when the principal matters dealt with by the committee come up for consideration at the parent body. This difficulty does not arise where a separate body is given the whole administrative responsibilities.

(11) Leaving aside the question of the Water Board, which presumably finds ample occupation for its 66 members, we come to the work carried on by the Asylums Board. In the 50 residential institutions under its care are generally found about 16,000 patients and 9,000 staff, or a resident population of about 25,000. The administrative work entailed in the management of these institutions, and in the arrangements for finance and for works and supplies, occupies a Board of 73 members. It is a truism to say that the work of the Board is so extensive that any one of these members who wishes to do so can give his whole time to it, as many do.

(12) In addition to the transfer of the residential institutions now under the Board, it is proposed to transfer to the Council those under the Guardians, involving twenty-four infirmaries with about 15,000 patients and a proportionate staff, and thirty-one homes and schools with an additional 12,000 inmates and a proportionate staff, and thirty-eight workhouses and accommodation for 38,000 persons.\*

(13) In connection with the transfer of the Board's institutions it is suggested that some members of the Board might, presumably as co-opted members, assist the committee to be formed by the County Council, but we are unable to see how a number of co-opted members on a committee, composed mainly of members of the Council whose duties already occupy so much time, can undertake the whole of this work. Nor would the situation be much relieved by a large addition to the ordinary membership of the Council, since such an addition, while tending to make the parent body unwieldy, would not secure a sufficient body of persons who wished to devote to the management of this great number of institutions a large share of their time, and not merely the remnant of it which can be spared from the general work of the Council. The experience of the Metropolitan Asylums Board goes to prove that it is by the personal interest of a sufficiently large body of representatives, giving a large proportion of their time to this special work, that the welfare of the patients is secured, and that efficient and economical management of the institutions is maintained. The inclusion of this work with that of the general municipal duties of the Council may well be viewed with uncertainty and hesitation.

### (b) The Maclean Report on Reconstruction.

(14) It is urged that the Maclean report on reconstruction recommended such a transfer as that proposed, but this Committee produced their report not as the result of an enquiry on present conditions, but on the basis of the Poor Law Commission's report of 1909, and the Maclean report has not met with entire acceptance either from the County Councils Association or the Association of Municipal Corporations or the Guardians, nor did it attempt to deal with the wide issues we have referred to.

The present Minister of Health (Dr. Addison) in speaking of this report said—

This distinguished Committee, like many others, formulated very general propositions, and when it came to solving the administrative difficulties which stood in the way of their application, we did not find their report so clear and constructive as it was with regard to their general propositions. Of course this was entirely excusable, because they were confronted with the biggest problem of local government that stands before this country. . . I confess that the administrative difficulties which have to be overcome and disentangled in this matter go far beyond the general recommendations made by the Committee.

### (c) The Analogy from the Ministry of Health.

(15) The Council point to the fact that the Ministry of Health Act brought under one department the health functions of various Government departments for the whole country, for the purpose of securing unified administration, and they point from this to the necessity for a similar step for London. The Ministry of Health is, however, a body dealing with health only, and so far as an analogy can be drawn from its constitution, it would be in favour of a provincial health board for London.

### (d) The Question of Direct Election and the Constitution of the Board.

(16) The fact that the Metropolitan Asylums Board is not directly elected is referred to in the Council's report and has elsewhere been used as an argument in favour of the proposed change. Without questioning the validity of the principle of direct election in parliamentary and municipal bodies, it may well be urged that there are many specialised subjects which can safely be left to the jurisdiction of representatives from other directly elected bodies chosen for their fitness for the work and for the time they have to give to it rather than by a popular election conducted, as it must necessarily be, on a political basis. It has not been the least merit of the Metropolitan Asylums Board that party politics have played no part in its proceedings, nor can it be understood why such considerations should enter into the constitution of a body whose concern is the care of the sick. We think, however, that each metropolitan council should be given representation on the Metropolitan Asylums Board, since so much of the Board's work in relation to infectious disease and tuberculosis is not poor law work, and brings the Board into direct relationship with the Councils. At the same time representation could be given to the London County Council by their nominating some of their number to serve on the Board, a course for which there are many precedents.

# (e) The Example of Tuberculosis.

(17) Such difficulties as are thought to arise under the present system are much more apparent than real, and are more theoretical than practical. This is admitted by the County Council in the following references in their report to the provision for tuberculosis: —

In view of the growing interest in health questions and the growing demand for the provision of institutional accommodation, it is becoming increasingly difficult to determine where the domain of the Council should end and that of the Metropolitan Asylums Board should begin. The Council and the Metropolitan Asylums Board have throughout worked in friendly co-operation, and the Board has responded to the best of its ability to the demands made on it for accommodation. It does not appear, however, entirely satisfactory—*at any rate in theory* that the Council should be responsible for providing accommodation and should have to rely for its actual provision on the goodwill of another authority over which it has no direct control. Another *theoretical* inconvenience is involved in the rating question. The effect of the existing arrangement is that the Council determines the amount of accommodation which it asks the Metropolitan Asylums Board to provide; the Board then makes this provision without control over its expenditure being exercised by the Council and the cost then falls on the poor rate. The expenditure is thus in effect determined jointly by the Council and the Metropolitan Asylums Board without either body being in a position to control it altogether.

The fact is that whatever theoretical difficulties may appear, there have been no practical difficulties. The Board has satisfactorily met every request from the Council in the matter of accommodation; the expenditure is of course determined by the demands made, and, so far as the rate is concerned, it does not require a transfer of duties to bring about a change in the matter of the particular authority through which the rate is raised.

### (f) The Question of Overlapping.

(18) Too much has, we think, been made of the difficulties caused by overlapping, too little of the impracticability of producing any scheme which would remove either all the difficulties or all the overlapping. A few instances will suffice. If the poor law infirmaries are to fill their proper position in any health scheme they need to be brought into closer association with the voluntary hospitals, in order that each may supplement and aid the facilities offered by the other. It is not, however, proposed that the Council should take over the responsibility for the management of the voluntary hospitals. The case of tuberculosis has been mentioned, as has also the reference of the County Council to the fact that they do not control the expenditure of the Board in the matter of the accommodation provided by the Board at their request. The remark is equally applicable to the arrangements the Council already make with a number of voluntary institutions, but it is not proposed to take over these institutions. Even in the services already under the control of the Council, the prevention of overlapping in health matters presents much difficulty, as, for instance, the transfer of health functions relating to school children from the education department to the public health department. The truth is that no scheme, however attractive on paper, can be perfect or can separate such a subject as health into a watertight compartment. Difficulties of overlapping, where removable, can be removed, and, where inevitable, can be rendered practically innocuous, by that spirit of friendly co-operation between the various authorities concerned which the Council states it has found to exist in its relations with the Board.

### CONCLUSIONS.

(19) The great complexity of the problems of London government is apparent. These problems have been the subject of enquiries by Commissions and Committees in the years before the war and again since its conclusion. These enquiries have, however, been limited to separate branches of the subject. At present the Government have before them the report of the Committee of the Ministry of Reconstruction on the Poor Law (the Maclean report), the report of the Consultative Council of the Ministry of Health on the future provision for medical and allied services (the Dawson report), the report of the Departmental Committees on the subject of markets and transport, the report of the Ministry of Health Committee on unhealthy areas, the proposals of the London County Council for health administration of London, the proposals of the London County Council for an immediate enquiry into the question, of boundaries of the administrative county and of the constitution and powers of a new central authority. So far as there is agreement in these reportss it is for a larger London with its local parliament. In the first part of this report we have indicated our support of the proposed authoritative enquiry by the Government into the subject as one comprehensive whole, believing that the lines on which the main question is settled will have the most important bearing on the subsequent decision as to the constitution and powers of the administrative departments dealing under the legislative council with all the main public services including health. Such an enquiry would afford an opportunity for a statesmanlike scheme drawn up with a breadth of vision worthy of the greatest city in the world.

(20) Pending the settlement of the general question, we think there is nothing to be gained by adding the control of the residential institutions for the treatment of the sick in London to the multifarious administrative duties of the present County Council. We believe that such a course would result in a diminution in the personal service given by a large body of representatives for whom there would be no place on the County Council, and who do not desire, and have no opportunity, to take part in the general work of the Council, that it would throw great pressure on the elected representatives of the Council, and would lead to the substitution of a centralised administration at a time when the decentralisation of administrative duties has been shown to be a more desirable course. The schemes which have been drawn up so far appear to us to have given insufficient attention to the question of the administrative machinery necessary for the work proposed to be absorbed, and to the relationship between the Ministry of Health and the bodies which it is proposed should absorb the work, and to the mutual relationship of these latter bodies, a subject containing the seeds of future friction unless frankly dealt with at the outset. Lastly, all experience shows that any belief that a reduction in expenditure would follow the proposed centralisation of administrative work is illusory, and that, on the contrary, there would be a great increase in expenditure at a time when economy in everything unessential is of urgent importance.

(21) As an alternative to the proposals of the County Council so far as the constitution of the Metropolitan Asylums Board is concerned, and as a step which we believe would meet present requirements without prejudice to any future changes in London government, we suggest that representation on the Metropolitan Asylums Board should be given to each metropolitan borough council and to the London County Council. It is also very desirable that the name of the Board should be changed to one more clearly indicating the nature of its work.

(22) We recommend----

(A) That in the opinion of the Metropolitan Asylums Board-

(i) an authoritative enquiry, as proposed by the London County Council, should be undertaken by the Government into the question of London government as a comprehensive whole, including the proposed extension of boundaries, the constitution of a central council with local legislative powers, the relations between the legislative council and the administrative departments dealing with the main public services, and other cognate questions;

(ii) it is inadvisable to proceed to make further important changes in individual branches of the public services of London pending the result of such an enquiry and of the settlement of the questions raised thereat ;

(iii) present needs, so far as the Metropolitan Asylums Board is concerned, would be met by the London County Council and each Borough Council being afforded representation on the Board, and by an alteration in its name.

(B) That copies of this report be forwarded to the Ministry of Health, the London County Council, the City Corporation and the Metropolitan Borough Councils and Boards of Guardians.

(Signed) C. BOTTERILL, Chairman.

### APPENDIX C.

# THE WORK OF THE METROPOLITAN ASYLUMS BOARD FOR THE MENTALLY DEFECTIVE.

A paper read by the Very Rev. Canon Sprankling, Chairman of the Bourd, at the Conterence on Mental Deficiency, arranged by the Central Association for the Care of the Mentally Defectiv and the National Special Schools Union, at the Church House, Westminster, on 26 November, 1920

Long before the passing of the Mental Deficiency Act of 1913, the Metropolitan Asylums Board had been responsible for the care of certain classes of mentally defective persons, and particularly of children, who, in many instances at least, would certainly have fallen within the classes enumerated in the Act of 1913. These children were placed in the care of the Board under the terms of an Order of the Local Government Board dated 2 April, 1897, which required the Metropolitan Asylums Board to provide accommodation for poor law children "who by reason of defect of intellect . . . . cannot properly be trained in association with children in ordinary schools."

It may be of some historical interest to the Association to trace briefly the steps taken by the Board to deal with these children.

The Children's Committee (the Central Committee appointed by the Board to deal with cases under the Order of 1897) decided that it would be well to proceed experimentally in the treatment of these cases by providing accommodation for them in ordinary dwelling houses scattered over the London area, each in touch with one of the special schools provided by the London County Council, and actually at one time there were five such homes in existence, the first having been opened in January, 1899.

The object was to provide the children with something as nearly akin to the ordinary home life of a normal London child as was compatible with the special care and training which was essential, and a house-mother was appointed for each home, who was required to live with the children much in the same way as the mother of a family of lives. The children attended the local special schools, and there is no doubt that in some cases the methods adopted resulted in considerable improvement. Many of them became quite efficient at shopping, some grew into reasonably good domestic helps, while a very few of the boys were ultimately able to take their places in the world as wage earners.

In 1906 provision was found necessary for continuance of control over the children after they reached the age of 16, and the institution now known as the Bridge Training Home at Witham, in Essex, was opened for the use of the male patients as a working colony, while High Wood School, Brentwood also in Essex, which is an institution built on the cottage home principle, had one of the groups of cottages containing 60 beds allocated for the accommodation of the elder feeble-minded girls.

In 1911, however, the Board referred the whole question of the systematic re-classification and treatment of the mentally defective cases which came within their sphere of work to a special committee, who came to the conclusion that the experiment now under discussion, in spite of all efforts to bring about the most favourable results, had met with little success.

The Committee found themselves strengthened in the view which had already been tentatively formed, that the permanent retention of the majority of the feeble-minded children was necessary in the interests of themselves and of the community, and that by this very fact the desired results could be attained with as great efficiency in large colonies as in small scattered homes and much more economically. The procedure indicated was in conformity with the views contained in the report of the Royal Commission on the feeble-minded, which was issued in 1908, and the Board's Committee submitted recommendations which led to the placing of all the mentally defective persons in the Board's institutions, including the children already referred to (who were not certified under the Lunacy Acts) under the care of the Board's Asylums Committee, the well-known institution at Darenth being at the same time transformed from an asylum for imbeciles into a training colony reserved for the higher grades of mental defectives.

It was confidently anticipated that many advantages would accrue from the co-ordination of the work, of which not the least would be increased efficiency, by providing at this colony far larger facilities for training and rendering more industries available, by avoiding duplication of machinery, and by giving greater opportunities for classification under one medical control.

Another recommendation had reference to the age of the uncertified feeble-minded persons in the Board's care.

At first children under 16 only could be admitted as uncertified mental defectives, and the power of the Board to retain them ceased on their reaching the age of 16, but in 1903 the Local Government Board authorised the retention of such feeble-minded persons until they reached the age of 21 years, and in 1911 the Local Government Board issued an Order authorising their original reception up to the age of 21 years.

The passing of the Mental Deficiency Act, 1913, as it did not place on the Board any duties in regard to the provision of accommodation for mental defectives, did not immediately alter the policy which had been pursued in the past. The Board's institutions were still used for their original purpose, viz., the reception of "insane persons" chargeable to the Metropolitan Boards of Guardians of the Poor, being "harmless persons of the chronic or imbecile class," with, of course, the addition of the class of uncertified feeble-minded persons to whom the previous part of this paper has been devoted.

In May, 1914, however, the Board were approached by the local authority for the Metropolis (the London County Council) with a view to their providing certified accommodation under section 37 of the Act for certain classes of the mentally defective.

While the matter was under consideration the war broke out, and subsequently the Council were informed that while there was no doubt that the Board would, in ordinary circumstances, have been willing to enter into an agreement with them to receive suitable cases, the situation was so altered by the war and by the heavy demands made upon the Board to provide accommodation for military and other purposes, demands which were obviously likely to be increased in the near future, that with extreme reluctance they felt that they were not then in a position to enter into an agreement such as was suggested. Two years later, however, the effect of the war in the way of decreased demands on the accommodation for imbeciles, which was, I believe, noted generally all over the country, became increasingly manifest in the Board's institutions, and the existence of a number of vacancies provided an opportunity for the resumption of negotiations at the instance of the Board of Control and of the London County Council. Ultimately it was arranged that five of the Board's institutions should be certified for the treatment of cases under the Act of 1913, the whole to form a group known as the Metropolitan Asylums Board Certified Institution. Darenth Training Colony and Bridge Training Home were to receive improvable juveniles, Leavesden and Caterham Mental Hospitals were to receive unimprovable adults from 16 years and upwards, and the Fountain Mental Hospital to receive idiot children.

The Board made it perfectly clear that they could only undertake this

work on special conditions. For instance, it was essential that they should have the absolute right to accept or reject any cases so that in no way should their normal work be jeopardised, and that further, owing to the existence in their institutions side by side of two classes of certified cases, it would be impossible to follow all the prescribed forms required under the regulations laid down by the Board of Control.

There were other stipulations, such as a provision that patients might be transferred by the Board from one section of the Certified Institution to another without the consent of the Board of Control, and also that patients should be treated in precisely the same way as the poor law cases received under the Lunacy Acts. The general idea was that the Board might be able to accept something up to 500 mental defectives from the London County Council area and from the Home Counties, with perhaps a few from provincial areas.

In 1918 all arrangements having been made, the first cases were admitted.

So far as numbers are concerned the position to-day is that the Board have about 1,000 mental defectives under their care, having thus exceeded by 100 per cent. the utmost promise they were able to hold out in 1917, but the available accommodation and the demand for it are more or less equalised, so that it is doubtful whether it will be practicable in the near future to accept more cases.

As a matter of fact, circumstances have rendered it necessary or desirable to depart in a measure from the original arrangements as to the classes of cases to be received at the different institutions. So far as Darenth is concerned there has been indeed no change whatever, cases sent there being all of the trainable class, but it has been found that there are a goodly number of lower grade cases who, while not *prima facie* likely to benefit by the special form of instruction given at Darenth, may yet be considered as a separate class from the unimprovable adults it was originally intended should be sent to Leavesden and Caterham.

So impressed were the Board in 1919 with the pressure on the accommodation provided at the Fountain for the most deeply defective cases (it being understood that the Fountain was, in fact, the only institution of its class in the country) that they proceeded to make arrangements for the provision of accommodation for unimprovable children of both sexes at Leavesden Mental Hospital. Accordingly two wards were provided on each side of this institution, being the top floor wards of two adjacent blocks in each case connected by a wide covered bridge used as an airing court. For reasons which will be apparent, the type of child sent to Leavesden Mental Hospital was bound to be restricted to the less robust and physically vigorous, and the provision of the extra accommodation only slightly relieved the demands on the Fountain.

Early this year, however, the congestion had again become acute in certain directions, so that the position was, that while there was ample accommodation for some classes of cases, there were no vacancies for other classes, but instead a long waiting list of applications.

The problem was how to change the kind of accommodation so as to render the vacant beds available for the reception of cases who needed institutional treatment, without entirely altering the character of the institutions concerned.

The Ministry of Health, who had not looked upon the proposal to receive children in the upper wards at Leavesden with much favour, had indeed suggested that it might be found possible to allocate one or other large institution entirely to the use of children, but as a matter of fact it was found that by no possible re-arrangement could all the adult patients (covering both lunacy and mentally defective cases) be gathered into one institution. It was found that while there was very little vacant accommodation for female adults, there was a large number of vacant beds for male adults principally at Caterham, where, in fact, one or two blocks were unoccupied.

The medical superintendents of the various institutions were consulted and the opinion was expressed that there might be found at Darenth a number of cases which after reasonable trial were not "trainable" in the sense given to that word at Darenth, but still were not "unimprovable" in the sense applied to that word at Leavesden and Caterham, and it was decided to examine the records of the male patients at Darenth with a view to transferring all those who fell into this category to Caterham, there to be segregated as far as possible and employed in simple trades such as wood-cutting, land work, laundry work, The idea was that if these cases were found to be susceptible of a higher etc. degree of training in any particular industry, steps would be taken to provide facilities for such training at Caterham. Further, the advantage of transferring cases which were not likely to benefit to the fullest extent from the specialised accommodation at Darenth was obvious, seeing that at that time there were about 180 cases of mental defectives awaiting admission to Darenth all classed as "trainable." Thus, the first considerable change in the original arrangements for the reception of mental defectives was made, a change which seems to mark a step forward in the classification of these cases.

To-day, a number of the patients thus transferred to Caterham from Darenth are engaged in industries (such as carpentry) with what is looked upon by the medical superintendent as a remarkable degree of success.

The system adopted has been to start classes of 3 or 4 pupils in a very small way without any idea of "forcing the pace" or aiming at output. The patients are encouraged to play at their work in the first place. When they become interested and begin to understand how to use, for instance, a hammer and a nail, they are allowed to make some simple object which will be of use and which they know will be of use.

There are classes also in mat-making and tailoring, but it will be understood that the whole scheme is, at the present time, in embryo and that it is too soon to suggest any very reliable inferences as to its future possibilities. I should say in passing, however, that a similar scheme is being adopted on the female side at Caterham among the young women, who are being trained to do more than had hitherto been done there in the way of needlework, rug-making, and so on. Results of these experiments are being carefully watched, and every encouragement will no doubt be offered if it is found that there is real hope of genuine usefulness arising from them.

The next step was to make further use of the vacant male adult blocks at Caterham by transferring thither the elder boys at the Fountain who had reached the age of about 9 years and were found more suitable for male than for female nursing. A block of about 130 beds was therefore prepared at Caterham and all the boys were transferred last spring.

An interesting feature of this change was provided by the statement made to the Board by the responsible medical officers that it was hard to say that any child was quite "unimprovable," and that it was, in fact, more correct to say that nearly all the cases at the Fountain hitherto considered hopeless were trainable to a greater or lesser degree.

It should be noted that it was carefully provided that should any of the boys sent to Caterham be unimprovable turn out after reasonable observation to be "trainable" in the Darenth sense, they would, in due course, be transferred to Darenth in order that they might benefit by the ample facilities for training which exist there.

The transference of about 130 boys from the Fountain to Caterham meant, naturally, the freeing of so much accommodation at the Fountain,

and it was decided, in future, to reserve the Fountain for unimprovable boys under the age of 9, for unimprovable girls up to the age of 16, and for children of both sexes, whether stated to be " trainable " or not, up to 7 years.

The reason for this change in the arrangements at the Fountain was that it was felt that there was need for a testing institution at which children could be observed so that their capacity might be more or less accurately measured before they were sent to Darenth. Previous to this arrangement all children of whatever age who were stated to be "trainable" had been admitted direct to Darenth, but it was found that so many were not really "trainable" in the Darenth sense that the accommodation there became, as it were, choke with cases which were not suitable and which could not benefit by the specialised arrangements provided.

On the other hand, the children admitted to the Fountain as unimprovable had, in some cases at any rate, been found to be so far superior to the original estimate of their capacity as to be suited for Darenth.

At present, therefore, all children under 7 are admitted to the Fountain, where they are carefully watched, and after a longer or shorter period the medical superintendent of that institution consults the medical superintendent of Darenth with a view to the admission to the latter colony of all those whom experience has shown are "trainable."

This procedure of selection is, as a matter of fact, merely carrying into the working of the Mental Deficiency Act the scheme which has worked well in connection with Lunacy Act cases. All Lunacy Act cases are received at Tooting Bec, whence they are distributed according to the estimate of their capacity made by the medical officers there to the institution most suited for them.

So far no use has been made of Bridge Training Home under the Mental Deficiency Act. It is found that there are sufficient cases of feeble-minded males (uncertified) at Darenth to permit of a slow but steady flow to Bridge Training Home. Cases there are therefore all uncertified. They are employed on the cultivation of land, in boot repairing, tailoring and so on, while the fact that the Home brass band is in great request for paid performances at functions in the surrounding districts shows that these lads are capable of attaining considerable proficiency in directions which might perhaps be least suspected.

The foregoing sketches briefly the way in which vacant accommodation available in the Board's institutions has been utilised for the reception of the mentally defective. No doubt a great deal could be written from a medical standpoint on the various methods of training which have been adopted at Darenth, but it is hardly the province of a non-scientific paper to deal with a subject which has been amply covered from that point of view many times before and which can only adequately be evaluated by the trained scientific mind.

The Association knows well that apart from school training at Darenth a very large number of industries are carried on, and that these industries produce definite results which are creditable alike to the patients who turn out the work and to their instructors. A mere recital of the kinds and numbers of articles made or repaired at Darenth would be tedious, but when I say that the Metropolitan Asylums Board actually relies to a considerable extent for the toys provided every Christmas for the children in its hospitals upon the workshops at Darenth, which make these toys from waste materials of all kinds, it will be appreciated that this industry alone must have a very considerable output.

The printing and bookbinding shop at Darenth is a source of interest to every visitor, and as I write I have before me a calendar for 1920 prepared and printed with skill and delicacy which bears the proud imprint—" Set up by (A.B.) a Colonist." Leavesden Mental Hospital has been as far as possible turned into an infirmary for the harmless imbecile classes and to a large extent its inmates are Lunacy Act cases, but there is a great deal to interest one in the work at this institution. The classification of the sick there has been carried to a very high degree, and nowadays, so far as accommodation permits, cases of chronic sickness are sent from all the other institutions to Leavesden. For instance, all ophthalmia cases are sent there, whether children or adults, and whether they are under the Lunacy or Mental Deficiency Acts.

The mentally defective children housed at Leavesden to whom referencee has already been made are practically all paralysed or helpless, and while everything possible is done for them their infirmities are so many and overwhelming that it is hardly possible to give them any instruction or training, but these cases are not to be taken as disproving the view held by some of the Board's medical officers that few cases can truly be spoken of as "unimprovable."

A few words on the Fountain Mental Hospital, which takes in the very lowest grade of idiot children, should be of interest.

The institution consists of pavilions standing in about 10 acres of ground, with airing courts and grass plots between each pair of wards.

This arrangement allows all the children (cripple or otherwise) who are not confined to bed to spend the maximum number of hours in the open air, and during the summer to take all their meals outside.

The wards are arranged in pairs opposite each other and contain on an average about 40 beds, the main corridor, a covered way, dividing the bungalows; which number 16 altogether, and are built of corrugated iron with uralite linings painted without and within, are cheaply constructed, easily kept clean, and therefore are favourable for administrative purposes. They have, in fact, proved to be quite ideal for this class of work.

The most common type of patients admitted are the helpless, the paralysed, and the epileptic.

The first care is to see that the patients are made free from vermin and skin diseases following them.

Next they are classified, though this cannot be done according to age, but rather on the basis of their mental and physical condition, dividing them up as far as possible to equalise the work in the wards, keeping in view the maximum amount of possible benefit to the type of patient. It became evident soon after the hospital was opened that as many of these children were trained to feed and dress themselves, and in other ways become clean and even tidy and useful, some higher form of training might be attempted. To this end a school was started in 1917, a suitable teacher-nurse being selected to take charge of the children. She started by teaching them how to play, and gradually advanced them through elementary kindergarten work, musical drill and singing with action songs and dancing, to doll making, mat-making and the dressing of dolls. This simple instruction may not appear to mean much, but in practice it is found to be economical in many ways, and, above all, the lives of these unfortunate children are made much brighter and happier.

Those responsible hope to see still further progress as they feel that this work is still in its infancy. Experience has been that the younger the patients when first received the higher are the possibilities of improvement. Every care is taken to select the most suitable nurses who are specially interested in children, many of them having been children's nurses. They are trained to the work both in theory and practice. Over these nurses are fully trained sisters, who work in conjunction with the matron and her assistant, all of whom are specially qualified in the management and training of children. After the children have been to school for a certain period they are subjected to special tests periodically by the medical officers with a view to selecting the best for further intensive training at the high-grade institution at Darenth.

No one who sees the children as they are on admission can fail to be struck with the remarkable change there is in them, in most instances after a comparatively short period.

The patience and care which must be lavished on these afflicted atoms before they can reach the standard of education displayed can hardly be appreciated except by those who watch the work of the institution constantly. Those directing the work must be whole-heartedly enthusiastic to have achieved such results as are visible here where, apparently, the most hopeless of the mentally deficient have been gathered together.

I have confined my paper to the work of the Metropolitan Asylums Board for the mentally deficient, and especially that under section 37 of the Act, as being that with which I am personally familiar. I need scarcely say in conclusion that the Board are well aware of the splendid work done under the same section by Boards of Guardians and combinations of Boards of Guardians at Monyhull Colony and elsewhere, which no doubt representatives of the authorities concerned will describe to the Conference.

#### APPENDIX D.

# A REPORT ON THE OTOLOGICAL WORK DONE AT THE NORTH-EASTERN AND WESTERN FEVER HOSPITALS DURING THE YEAR, JULY, 1920, to JUNE, 1921.

### BY

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### FOREWORD.

I. Under the date 7 July, 1920, I received from the Clerk to the Metropolitan Asylums Board notice of my appointment as Otologist at the North-Eastern and Western Fever Hospitals under the following terms :—

"The duties are to visit each hospital at least twice a week, or more often if assistance is urgently required, and examine those patients whom the Medical Superintendent may put forward for the opinion of the Otologist, advise as to their necessary treatment and perform such operations as may be considered necessary. It is understood that the Otologist will not only see patients who are suffering

" from chronic ear discharge, but also examine and treat those in whom " the middle ear is inflamed though not yet discharging."

Notice of confirmation of this appointment by the Ministry of Health was received by me on 10 August, 1920, and of the extension of my appointment for a further period of six months on 18 June, 1921.

I was specifically asked by one of the members of the Committee of selection before whom I appeared whether I would consider the question of prevention of "running ears" in the acute specific fevers in all its aspects. I have therefore conceived my duty in holding this appointment to be twofold: to treat, so far as I could, all cases of ear disease referred to me by the medical staff of these hospitals, and to make such investigations as were possible on

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the prevention of ear discharge, so that I might embody in my report certain suggestions as to how the problem of running ears resulting from the infective fevers may be approached in the Metropolitan Asylums Board Area. This report is accordingly divided into three parts—

I. INTRODUCTORY—being an account of the means of approaching the subject and of the ground covered.

II. CLINICAL—being an account of the symptoms of ear disease in scarlet fever so far as they have been observed, and suggestions for the treatment of the same.

III. ADVISORY—being suggestions put forward for organising a service to prevent the occurrence of chronic ear disease as a sequela of the infective fevers.

### PART I.-INTRODUCTORY.

2. The experience upon which this report is based is limited to scarlet fever. The diseases of which there have been any number in the two hospitals during the past year are diphtheria and scarlet fever. Ear disease is not so common in the former as it is in the latter, and therefore after consultation with the Medical Superintendents it was decided to limit such investigations as were made to the latter. A few cases of ear discharge or ear-ache have been seen in cases of diphtheria at the request of the M.O.s in charge of the patients, but not enough on which to base any conclusions. It was hoped that as the year went by measles cases would be admitted to one or both of the hospitals so that similar investigations could be made in this disease as were being made in scarlet fever. That this has not happened is much to be regretted. It is generally believed that measles rivals scarlet fever as a cause of chronic otitis media, and a comparison of the two diseases under similar conditions would have been most valuable.

3. A word of caution must be put forward against setting any great reliance upon deductions made from this year's work. The epidemic of the past year has afforded a large number of cases of scarlet fever, but they have not been of a very severe type, nor has it been possible for one who makes two visits a week to a hospital to see every case in which ear discharge has resulted. For these reasons I have refrained from drawing up any tables with percentages in them. Such can only be made from thousands of comparable cases, and no such numbers of comparable cases could be put forward to illustrate any otological point except the one which has already been worked out by various series, viz., the percentage of cases in which otorrhœa occurs in scarlet fever. To work out percentages on a small series does not lead to accuracy, the addition or omission of one or two doubtfully comparable cases may lead to a considerable variation in the percentage, and deductions may then be made to fit in with preconceived ideas one way or another, with the result that the truth is thereby put further off rather than approached. This report, then, is based upon the impressions that remain after a year of work.

In taking up a systematic survey of any new subject, some time must elapse before it is clear what points need investigation and what cases are comparable upon which to make such an investigation. It may be considered that this stage is passed, and that there are open lines along which further investigations may be made.

4. There are plenty of series of cases published which afford evidence of the number of cases that develop otorrhœa in an attack of scarlet fever, but few of the number which leave the fever hospitals with the middle ear inflammation in a chronic condition. There is a difference of opinion as to how many such cases occur. Dr. Ker<sup>1</sup> says that in few cases does otorrhœa persist so long as ten weeks. Dr. Goodall<sup>2</sup> says," of 303 cases of scarlet fever which were discharged directly from the Eastern Hospital during the period I January, 1912, to the middle of February, 1913, in only one was otorrhœa still present." On the other hand, at the same meeting Mr. Arthur Cheatle<sup>3</sup> said, "I can assure Dr. Goodall that hundreds leave the fever hospitals with chronic discharge from the ear or ears."

The question is one which needs investigation and as such will be discussed later, for the present it will be well to remember that however many or few the cases be, we should try to make them fewer and to consider how we may accomplish this.

(NOTE.—On page 18 of Dr. A. G. Cameron's report on return cases, we learn that 361 cases were discharged with running ears in a twelvemonth, during which 15,501 patients were discharged from the infectious fever hospitals of the Board. Literally, this is consistent with Mr. Arthur Cheatle's words, but when spread over the vast population of London, does not bear out his sweeping statement; it is, however, six times the number which Dr. Goodall observed. The question is considered below in para. 64.)

5. First: It is clear that the fewer the number of scarlet fever cases that occur the fewer will be cases of chronic otitis media resulting from it. It is not in my province as an otologist to help in this diminution other than by pointing out that steps taken to attain it form the truest kind of preventive otology.

6. Secondly: We may take it as proved that otitis media occurs in an increasing percentage of cases the more septic the type of disease. This is my experience and I believe that of other servants of the Board. Here again any steps which can be taken to limit the virulence of an epidemic and so to diminish the number of septic cases, or to improve the general condition of the patient when this condition arises, are of the utmost importance in the prevention of chronic otitis media. I wish specially to lay stress upon this point. Firmly as I agree with those who advocate that someone with training in otology should be attached to every fever hospital, I do not think that their combined efforts will do as much to diminish the amount of ear complications as has been obtained during the past 25 years by the better treatment of the disease and by the prevention of the disease. Such an admission is no argument in favour of refraining from making use of the otologist's skill, it is merely a warning against expecting that the whole aspect of ear disease will be changed immediately by the appointment of otologists to the fever hospitals. It is a most point whether the difference in the virulence of scarlet fever of recent years is due to better treatment and prevention or whether it is merely a phase of a periodic wave. If it be the latter, time will show, and an opportunity should be given to the otologist to see whether he can devise some method to prevent an increase of ear disease pari passu with an increasing severity of scarlet fever. To succeed in this when the time comes he must have been given previous opportunity of studying the ear complications while the disease is yet mild.

7. Thirdly: We will assume that all inflammations of the middle ear travel to that region by the Eustachian tube from the naso-pharynx. Whether in any case the infection goes there by the blood-stream with a healthy intervening Eustachian tube I doubt, but if it ever occur it must be of extreme rarity. Hence anything that will diminish the inflammation in the naso-pharynx will diminish the likelihood of a case developing otitis media. I have not been able to think of any treatment directed to this part that has not already been

<sup>3</sup> Ibid., Part II., p. 732.

<sup>&</sup>lt;sup>1</sup> "Infectious Diseases. A practical text-book," 1920, p. 152.

<sup>&</sup>lt;sup>2</sup> XVII. Int. Congress of Medicine, 1913. Report of Sections XV. and XVI. Part I., p. 144.

used. Some epidemiologists syringe the throat during the disease, others believe that as good or even better results occur without such syringing. In acute disease of the throat other than infectious fevers I am not an advocate of syringing the throat, and in a disease such as scarlet with irritable patients, I have not felt that any improvement in the ear condition is likely to result from the use of such a thing. I have therefore neither asked for syringing to be done nor asked medical officers to refrain from it in cases in which they have ordered it. I feel that for improvement in this stage we must wait for a serum analogous to the anti-diphtheritic toxin and more specific than is the present polyvalent anti-streptococcal serum.

8. Fourthly : We must realise that in every case of otitis media there is a catarrhal stage before suppuration sets in, before the drum-head ruptures, and before ear discharge occurs. It is clear that if the otologist is to do anything materially to diminish the number of cases which leave the hospital with discharging ears it is at this stage that he must get the cases. More especially is this so when we remember that in incision of the drum-head (paracentesis) there is an operative process simple of itself yet productive of extraordinary good results. Otologists, like members of other branches of the medical profession, have wide ranges of opinion, yet on this one point all are I believe agreed—that if in every case of acute inflammation of the middle ear incision of the drum-head were performed at the proper moment, there would be but few cases of chronic otorrhœa, and the numbers of cases needing operation for acute inflammation of the mastoid process would very materially be lessened. I therefore from the first tried to get the cases in the stage of inflammation of the middle ear before rupture of the drum-head had occurred in order to find out whether there was any difference in the value of puncture of the drumhead in cases of inflamed ears with scarlet fever from its value in the similar lesion of ordinary practice. As a result of the year's experience I can say most emphatically that there is no such difference. The great majority of the cases in whom I have incised the drum-head have got well almost at once and completely. One or two cases have gone on and become chronic; in one case, to which I shall refer in detail later (para. 47), a mastoid operation had subsequently to be performed. I have purposely refrained from drawing up any statistics on this point. On the one hand, it is hard to say exactly which cases need paracentesis, and of the cases in which I have performed some would probably have got well without it and without rupture of the drumhead; on the other hand, it is impossible to put any series of cases in which the drum-head is allowed to burst in a class which would be strictly comparable with these. When more have been done in scarlet fever it may be possible to get statistics, but for the present it must be enough for me to state my firm conviction that a paracentesis of nearly every case in which any degree of inflammation of the ear occurs is the best way to limit the number of cases which leave the hospitals with running ears, and that the most important otological problem before the Board is so to develop the medical service as to aim at this ideal; that to every patient likely to develop an inflamed ear some one is called, before the discharge begins, who is capable of examining the drum-head and if necessary of performing a paracentesis.

9. Fifthly: In a limited number of cases the disease goes on to involve the mastoid process with abscess formation in this and in the structures in relation to it. It is necessary to consider whether it is the best policy to perform an operation—and if so, what operation—during the height of the disease, or whether it is better to defer this till a later stage after recovery from the infectious fever and intentionally to allow these cases to leave the hospital with running ears.

10. Sixthly: There is the problem of treating the ear that has begun to

discharge in order that the patient may leave the hospital not merely with cessation of discharge but without any active disease in the middle ear.

II. With the last three of these problems I shall deal again in the second part of this report, but as it is on the fourth that I have spent most time and thought some more detailed account of this problem may be considered here. It is an easy thing to define an ideal, it is a difficult thing to attain to it. It is the practice of some otologists to speak as if it were only necessary to attach one of their colleagues to every fever hospital to abolish the complication of otitis media. This is far from the case; much careful work is necessary in order that we may learn exactly how most often to get the cases at the right time, and however carefully we improve our organisation there will still remain some cases in which the running of pus from the ear is the first suggestion that anything is wrong. It is cases such as these which has led some to advocate routine daily examination of every case.

Thus Mr. Sydney Scott<sup>4</sup> (strongly supported by Dr. Dan McKenzie) said that "he advocated daily routine inspection of the tympanic membrane in fever patients, without awaiting more obvious symptoms indicative of operative treatment."

I have found that in doing routine examinations it takes about an hour to do thirty cases. This is very quick work and leaves no time for the removal of wax which some cases need, nor for the operation of paracentesis when it has to be done. Working at this rate for eight hours a day it would take one man his whole time simply to do this routine examination in a hospital But as there is a certain monotony in such routine work it would of 240 beds. be impossible for any one man to do it even for one day. It could only be carried out by every M.O. of the Board learning to examine the drum-head and looking at the ears of every one of his own cases daily. Excellent as this would be in theory, I do not think it practicable with the constantly changing personnel, with young M.O.s coming for a few months while reading for the D.P.H. or putting in a few weeks as a locum tenens during a holiday or illness. It would mean an allotment of fewer beds to each M.O. and therefore an increase by one of the staff of each of the larger hospitals. If such an organisation were to eliminate from the community running ears consequent on infectious fevers, I should not hesitate to urge the increased expense; but so far from eliminating them I do not think it would have a result at all compatible with the work, the energy or the expense necessary to see it through. There would still be some cases that would slip through the sieve, very small children in whom an accurate examination is not possible, children who are so ill that the gain does not warrant the pulling about that is necessary to make the examination, children whose ears run before admission, cases with doubtful physical signs, and cases in which the signs are negligible one day and the ear is already discharging the next. When these are excluded the number remaining that would be discovered in time to perform paracentesis would be considerable, but would not be comparable to the time and money expended in the work. I write this not as an ardent economist, but as the result of this year's experience. It is true that I have had no opportunity of daily routine examination; but I have spent some time in weekly routine examinations of certain wards, for the first six months at the Western and for part of the second six months at the North-Eastern Hospital. In these examinations I have seen all the new cases admitted during the previous week and have seen again any cases that exhibit the slightest change in the drum-heads. This method has afforded me valuable evidence of the early signs to be seen in the drum-heads, but has been disappointing in the results of treatment. It has

4 XVII. International Congress of Medicine, 1913. Rep. of Sections XV. and XVI., Pt. II. p. 736.

enabled me to catch a few bulged drum-heads at about the fourth day of disease, it has lead me to re-examine a certain number of cases in which the drum-head was pink or exhibited dilated blood-vessels, and of these, one here and there have been found bulged at the next visit, a few have already burst by that time, but the great majority have resolved, and of these, at least one has suddenly developed a discharge a month later without any warning.

12. I have obtained much better results by asking M.O.s and sisters in charge of the wards to look out for certain signs<sup>5</sup> suggesting ear disease and notifying me at my next round, especially when these signs occur shortly before my round. I have visited the hospitals at different times in order to determine the best time of day for catching such cases. Towards the end of last year I made it a habit to go to the North-Eastern Fever Hospital between 5 and 7 p.m., during the early part of this year I have been going to the Western Hospital between 8 p.m. and 10 p.m., I have also tried to pursue this method on certain of my morning rounds. As a result of this experience I am of opinion that the time between 5 p.m. and 7 p.m. is the most favourable for getting the cases. It would seem that at the end of the day when the child is tired slight exacerbations are liable to occur which cause attention to be drawn to the ears, and this observation fits in with the fact that it is at the morning washing that the ears are so often found to be running; of these discharges some would be avoided if the drum-heads had been examined the evening before. It might be expected that the later time would be the better as allowing the greater crop of symptoms to materialise. In practice this is not the case. The children have fallen asleep, one hesitates to wake them; if suddenly awakened a fit of crying may result which makes examination almost impossible; the nurse who has been in the ward all day has left, and the night nurse has not yet had time to note the idiosyncrasies of her charges, and at this late hour the otologist is tired and unable to afford the energy and the patience that the occasion demands. I have by these evening rounds caught more drum-heads than by similar searchings in morning rounds or by routine examinations. When it is remembered that such round has only occurred one day in seven I am inclined to believe that work along these lines affords the greatest chances of success.

13. But supposing no child who had had running ears left the fever hospital with them still running, there is still a great problem—perhaps the greatest to be considered. Everyone who has had much experience in a school clinic for the treatment of throat and ear disease must have felt his optimism rising steadily during the spring and summer while his cases of running ears get steadily better, as he fondly believes from the result of the treatment he has afforded them. Then as the damp raw days of November are followed by those of December his optimism gives way to pessimism as his little friends return to him again with their ears running as before.

To what extent does this occur with the scarlet fever patients and with those who have suffered from other infectious disease? Does such a recurrence explain the discrepancy between the statistics quoted from Dr. Goodall and the statement made by Mr. Arthur Cheatle?<sup>6</sup> To the best of my knowledge we are absolutely ignorant upon this point, and I hold that any complete study of ear disease in infectious fevers must include an observation of the same cases for the next year or so, and that any organisation set up will be wanting of this problem is not included in the survey.

<sup>&</sup>lt;sup>5</sup> For a discussion of these signs see Part II., paras. 29-32.

<sup>&</sup>lt;sup>6</sup> Vide para. 4 above.

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### II.-CLINICAL.

### A. The Rash.

15. When the ear is examined in a patient in whom a well-marked rash is fully "out," it is seen that the erythema extends down the whole of the external auditory meatus and involves even the drum-head itself. This is easy accurately to observe in an adult, less so in a child. Its importance lies in the necessity for distinguishing it from the early stages of an acute otitis media. This may be done so far as the meatus is concerned by noting that the whole area of the skin of this part is involved and the more vivid colouration is not limited to the upper and back portion of the deeper parts as it is in the early stages of an otitis media.

On the drum-head itself the rash is less seldom seen and is less definite, a translucent pinkness suffuses the membrane and the colour is less intense than that of the rash which accompanies it on the skin of the external auditory meatus.

### B. Otitis media.

16. The earliest sign of inflammation in the middle ear is a dilatation of the blood-vessels of the drum-head over the handle and short process of the malleus and of that part above this which is known as Shrapnel's membrane. This condition is not infrequently seen in the routine examination of the ears of patients in whom no suspicion of otitis media arises. But since we may postulate that there is such a suspicion in every case of scarlet fever, it is a physical sign that should not be neglected. It is more likely to indicate an inflammation when seen on one side than when seen on both; but this is no hard and fast rule. On the one hand, the conditions, other than an inflammation of the drum, whatever they may be which give rise to this dilatation, may be present on one side only; on the other hand, by our postulate we must admit the possibility of an early bilateral otitis media to be as great as that of a unilateral one.

The irritation of a plug of wax, or of the manipulations necessary to remove the same, would appear frequently to cause this sign without inflammation, and therefore when wax is present it is of less importance. It would seem, however, that the redness from external irritation is more intense and the separate blood-vessels less distinct than is the case with the feathery dilatation of minute vessels over this area when caused by the very earliest stage of middle-ear inflammation.

We may sum up this physical sign by saying that it is not a condition that needs any special treatment, but that when it has been observed the ears should again be examined to see whether it is progressive, and that even after it has subsided the slightest malaise or rise of temperature during the convalescence of the patient should indicate the necessity of again examining the ears.

17. More common and more definite than the last physical sign is a diffuse or local pinkness of the drum-head. This can be distinguished from the pinkness described as occurring as a part of the skin rash by its seldom being synchronous with the rash upon the rest of the body, but also by its rendering the drum-head less translucent, and by its being unaccompanied by any increased depth of colour of the skin of the external auditory meatus; or if it is so accompanied, by the colour on the drum-head being more intense than that on the skin of the meatus ; or if it is not so intense, by the more vivid colouration of the meatus being limited to the postero-superior part of the deep meatus, as will shortly be described. This physical sign may extend over the whole drum-head or may be limited to the postero-superior quadrant. It very frequently passes off without treatment being directed to it, or it may go on to the further stages of an acute inflammation and end in rupture of the drum-head. It is probable that every acute inflammation of the middle ear passes through this stage. For these reasons simple local treatment should always be applied until the sign has passed away or until the further progress of the inflammation indicates an active interference.

18. In the opinion of the writer the changes seen in the postero-superior quadrant of the drum-head and in the adjacent part of the external auditory meatus are the most frequent, and the most definite of those seen in the early stages of acute otitis media in scarlet fever. It is sometimes hard even in a normal drum-head to be quite certain where the drum-head ends and the skin begins; it depends upon the slope of the drum-head and the configuration of the meatus. When inflammatory changes occur this distinction is frequently impossible, and for this reason the two areas may be considered together. Two stages may be recognised, that of mere redness and that of slight swelling.

19. The redness, when limited to the drum-head, is the same physical sign as that described in paragraph 17 where the pinkness is not diffused over the membrane, but from here it spreads to the neighbouring part of the skin of the meatus; sometimes, however, this structure may be involved first.

It is reasonable to suppose that as this is a sign of inflammation within the tympanic cavity the drum-head will always be involved first. I do not think it is so, but believe that redness of the postero-superior wall of the meatus may occur before any changes in the drum-head, and therefore consider that such a sign must be looked upon with suspicion as being possibly the start of an acute otitis media. I put this forward with reserve owing to the difficulty mentioned above of saying where drum-head ends and skin begins, and because redness of the meatus is a not uncommon sign from the presence of wax and the efforts made to remove it, or even from the stimulation of the patient's finger if he has felt any irritation. It is, however, a point well worth careful observation and further consideration.

20. It is not easy to say exactly when swelling begins. One looks at the deep parts of the outer ear through a funnel-shaped tube not always with

binocular vision. The various surfaces of the structures in this part are inclined to the line of vision through various angles and in various planes, and a slight normal variation in one of these angles may appear to the eye like a variation in structure, especially when the surface is picked out by the brilliancy of the dilated blood-vessels. In certain cases, however, a fulness of the tissues in the top back area of the deepest part of the meatus and of the adjacent drum-head may be seen merging by infinitesimal stages into a definite swelling of the skin structures in this region. This not infrequently may be taken for the limited bulging of the drum-head, to be described in the next paragraph, and may indeed be associated with it.

21. The forms which the bulged drum-head takes.

These are two—local and general.

(i) The local bulging of the drum-head is by far the commoner. It occurs in the postero-superior quadrant behind the posterior fold, and therefore is not a bulge of Shrapnel's membrane. The swelling fades gradually away to the surrounding parts of the drum-head and on to the neighbouring skin, and no definite line divides this condition from the fulness of the drum-head described in the last paragraph. The one is probably a further stage of the other, dependent upon the stage at which the inflammation beneath has reached and the rapidity of its progress.

More rarely the bulging is not only local but localised, with a small portion of the drum-head in the posterior-superior quadrant markedly convex towards the exterior. I believe that in such a condition the disease is stayed and that it indicates a less virulent infection.

22. (ii) The diffuse bulging of the drum-head is, I believe, extremely rare. In it the whole drum-head from the anterior fold to the posterior is convex towards the external meatus, with the handle of the malleus holding down the centre of the membrane and with delicately curling dilated blood-vessels streaming across all its parts. I have only seen one such. On this I chanced almost by accident, meeting the night sister at I a.m. in an unusually late visit at which she told me of a child who had that night been complaining of ear-ache.<sup>7</sup> It is possible that this condition is frequent in these drum-heads which rupture apparently without warning. Further and careful observation alone will show.

23. The condition after rupture of the drum-head.

The amount and the condition of the discharge varies greatly. Generally speaking, the more viscid it is the less there is in quantity. An extremely profuse discharge of a very watery character would appear to be more common in these of scarlet fever than in those of the common colds of practice.

When the meatus is mopped dry the perforation may be seen in any part of the drum-head, but is most usual in the lowest point of the posterior-superior quadrant, upon swelling of which emphasis has been laid above. In my experience, the perforation has been small and frequently inadequate. The rapid destruction of the drum-head described in the books as occurring in scarlet fever I have not seen.

24. The treatment of the early stages.

Where there is no physical sign beyond the dilatation of blood-vessels mentioned in para. 16 I do not think any treatment is necessary, the physical sign is of importance merely as an indication that the drum-head should be looked at again ; but where the pinkness described in para. 17 is seen, and more especially where the more definite signs in the postero-superior quadrant of the drum-head and of the skin of the meatus described in paras. 18 to 20 are seen, treatment is indicated. The treatment that I have tried is the application of warmth and the use of leeches.

7 Vide below, para. 27.

25. Heat is best applied to the ear by making the patient lie upon a hot-water bottle, but as any patient may roll off this in his sleep, and a child is specially likely to do so, and as the hot-water bottle cannot be applied to both ears, this method is not universally applicable and not suited to this class of case.

I would lay stress upon the importance of this heat being dry and would urge that hot fomentations be not used. These prevent absolutely any further accurate observation of the drum-head. The moisture causes the surface epithelium of the meatus to swell and to occlude the lumen; it is hard to remove this, and when done, that on the outer surface of the drum-head is similarly moistened, swollen and opaque, so that slight changes of colour and of swelling of the drum-head beneath cannot be seen through it. This epithelial *débris* is impossible to remove from the inflamed membrane beneath. Hence any further treatment is purely guess-work, and one is working entirely in the dark without any guidance as to whether the condition is progressing to one in which puncture is advised or whether it is quieting down.

Dry heat may be applied by means of a flannel cap<sup>8</sup> with strings which tie under the chin, under this may be tucked warm wool or Thermogene wool, and this may be changed from time to time. In addition warm glycerine drops should be instilled into the ear. This has the added advantages of being hygroscopic and also antiseptic, and therefore is of use if paracentesis is necessary later.

26. The use of leeches was greatly advocated by surgeons before the days of antisepsis,<sup>9</sup> when they were afraid to do such an operation as paracentesis as often as we do now. It is on the experience of such as these that we may especially rely for treatment short of operation, and the use of leeches in otitis media is probably a form of treatment which is not now used often enough. I have not used them so extensively in the scarlet fever cases as in others, but being satisfied with them in the latter, purpose to use them in the future for the former class of case if I have the opportunity. I believe the kind of case in which they would specially be useful is those in whom the physical signs described in para. 20 with fulness of the tissues before actual bulging occurs, and where, as we shall learn in the next paragraph, some doubt may exist whether a puncture should be done.

27. Paracentesis or incision of the drum-head.

In my opinion it is upon the early and efficient performance of this operation in every case in which there is bulging of the drum-head that the success or failure of any organisation set up by the Board for the prevention of chronic otitis will depend.

In the vast majority of cases if this operation is performed at the right time the inflammation of the ear will clear up and chronic ear discharge will not ensue.

I have divided the physical signs of otitis media into the early signs before there is any bulging of the drum-head "and the forms which a bulged drum-head takes," because I believe that paracentesis should be done in every case that has passed over into the second class. A comparison of para. 20 with 21 will show that the difference between the two is slight and that there is no distinct dividing line between a "swelling with fulness" and a "bulged drum-head where the prominence fades off into surrounding tissue." The important thing to remember is that it is better to do too many than too few cases, that it is in early cases that paracentesis has so great a value, and that if the case passes on to one of chronic discharge after incision it is probably not a criticism of the operation, but due to the fact that it was done late. No

<sup>8</sup> I am indebted to Mr. Chas. Heath for an excellent pattern, vide his "Otitis Media," Fig. 18. p. 36.

harm is done by early incision, considerable harm is daily done by want of incision. On at least four occasions I have mistaken some swelling of the meatal wall for a bulged drum-head and have punctured this and have found my knife strike bone. No harm has come of it; on the other hand, the cases have uniformly improved, so that I believe that even at this stage the incision is of value; but this observation needs repeating before one can lay it down with certainty.

After paracentesis blood alone usually flows, sometimes serum exudes, occasionally pus. When the last is seen the prognosis is not favourable and it is likely that chronic discharge for some time may result. That this will not necessarily follow is shown by the case mentioned in para. 22. In this case pus poured out the moment the incision was made. Much to my surprise the ear was well within the week and the hole in the drum-head completely healed.

28. There are certain administrative difficulties which must be faced in connection with the performance of this operation. They are connected with the time that it takes to obtain consent to an anæsthetic being given. This operation is perhaps the smallest in surgery, but it is also the most urgent. If the condition indicating paracentesis is recognised in a given number of cases one evening it is certain that in an appreciable percentage it will be too late if the operation is deferred until the morning. I have been in the habit of performing it without an anæsthetic. From the point of view of the patient there is nothing to complain of in this. The pain is so momentary that even the smallest child will allow examination of the ear again at the next visit, and I have had a little boy of six in whom the two ears have been done at successive visits and who raised no objection to the second. From the point of view of the surgeon it is not advisable, he only has one chance, and if he is unsuccessful there is no other. Under these circumstances the operation is likely to be a puncture rather than an incision. It is far more satisfactory deliberately to incise the drum-head under light ether anæsthesia. Because it should be done deliberately, I do not advise gas; this gives little or no more time than does no anæsthesia at all, and it has the disadvantage that the coincident cyanosis so changes the colour of the structures in the ear that the landmarks have to be picked out afresh and the condition recognised again; in the time that it takes to do this the anæsthesia is passing off. In a certain number of cases where there were early signs of inflammation on my first visit I have been able to get consent for an anæsthetic and to incise the drum-head at the next. It is probable that in the future this will more often be possible, but I think that in the majority of cases to incise without an anæsthetic is the only alternative to getting consent for an anæsthetic as a routine in all cases admitted to hospital. I do not think this last is necessary, and even if it were so for this purpose, it seems to me so very inadvisable from other points of view that I should hesitate to advise it.

29. The subjective symptoms.

We have seen that daily routine examination of the ears of every case in a fever hospital is impracticable and unnecessary, we have seen that routine examination of every new case does not lead to one catching the inflamed drum-head in any appreciable number of cases; on the other hand, we are convinced that the only true solution to the otological problem is to puncture the drum-head at the proper moment. How, then, are we to decide which are the ears at which we should look? What are the symptoms that are to lead one to an examination of the ears?

In my opinion there are two—pain, and a sudden rise of temperature after it has once become normal.

30. It is perfectly true that otitis media may occur in children suffering

<sup>&</sup>lt;sup>9</sup> See especially the works of William Wilde.

from scarlet fever without causing any pain and may go on to rupture of the drum-head without this symptom occurring; but it does not occur nearly so often as is generally supposed. This is shown by the increased number of cases reported from a ward in which there is a keen and intelligent sister as soon as she is asked to report it at once and starts to be on the lookout for it. From a ward in which a sister believes that most ear discharges start without the child having pain cases are not reported; from a ward in which the sister is interested in the problem and approaches it with an open mind a considerable number of cases are reported. The pain may be very slight. One of my most strikingly bulged drum-heads occurred in a child who complained of itching in the ear one afternoon. This symptom is most likely to come on towards the end of the day, that is why I think that between 5 and 7 p.m. is the best time to be on the lookout for the cases of otitis. It means, I believe, that the drum-head is about to burst, therefore it is transient, and to wait for next morning before examining the drum-head is frequently too late; by then it has already burst. Sometimes, on the other hand, it may last for days, as is instanced by the cases in which fomentations are applied.

It is in the cases of septic scarlet fever that discharge most often occurs without the child having complained of any pain. Either the mind of the patient is deadened to it by the illness or is occupied with other aches and pains more trying than that from the ear, or the reaction of the tissues to the invasion of the micro-organisms is below normal so that the swelling does not raise enough pressure to cause the pain. I admit that in these cases I have not yet found the guides which will lead me to discover which are those with the bulged drum-heads.

The infant again does not complain verbally, but he does so in other ways, and the skilled nurse soon picks out those infants in whom a bulged drum-head may be the cause of restlessness or of crying. One of my most successful cases occurred in a child aged one suffering from diphtheria who ceased crying at once after incision of each drum-head. It must be admitted, however, that a smaller number are likely to be found at the right stage in the first five years of life than in the next, but it is in the second five years of life that scarlet fever is most common. This especially is one of the points in which I had hoped to be able to make comparison of scarlet fever with measles.

31. It would appear that the greater number of cases of otitis occur after the primary temperature due to the scarlet fever has subsided. Here again it is true that in some cases otitis media occurs and goes on to rupture of the drum-head with discharge from the ears without further rise of temperature. This, however, I believe to be the exception. The rise of temperature is not necessarily great, but is sudden. The child who has had a normal or sub-normal temperature for days is found to have one from 99% or 100 up to 102 F. when it is taken in the evening. This is reported to the M.O. next morning, he then examines to see whether albuminuria or enlarged glands may be the cause of it, and, finding none such, considers the possibility of its being the ears. It may then be too late, the drum-head may have burst and the discharge be accumulating at the bottom of the meatus ready to flow over a few hours later. The reverse should be the routine. The ears should be examined the same evening; the possibility of their inflammation being the cause should be considered first not last, since it is the only condition that necessitates immediate interference. Even when some other apparent cause of the rise of temperature is present they should still be examined, as a double cause of the rise may be present.

32. The examination of the above cases will not make it possible for all cases of otitis to be examined before the drum-head bursts, there will remain some where the otitis develops in the first days of the disease and in whom no pain occurs. It may be well to examine the ears at this stage of children who have marked enlargement of the glands of the neck. I am not in a position yet to say whether otitis media occurs more often in cases with marked cervical enlargement. I am suspicious that it may do so. A proportion of such will occur in the cases of septic scarlet fever, and in these it must be left to the decision of the M.O. as to whether it is worth while disturbing the child to look at his ears on the off chance of finding a drum-head ripe for puncture, or whether it is better to leave a child so seriously ill without further disturbance. I must admit that I have been in the habit of practising the latter course, and that at present I have made no way in preventing the occurrence of otitis media in these severe cases. It would seem that the otologist is needed here rather than at the next stage, where the question of operation for the complications of mastoiditis is concerned.

33. The treatment of the running ears.

I have nothing new to say upon this subject. It cannot be too frequently repeated that from the otological point of view the case is seen too late when once the ears have begun to run. This is the aspect from which the whole staffs of the hospitals, medical and nursing, must be trained to view the problem of ear disease. I look to the day when a running ear shall be considered in the same light as a bed-sore, as rather a disgrace both to medical and nursing staff if it occur too frequently in any one ward or hospital. This is no dreamer's vision, but a practical ideal. All treatment applied to the external ear merely deals with the overflow and has little or no effect upon the disease itself; it is necessary to do this to keep parts clean, but it is the repair in the blood and tissues of the patient that gets the ear well, not the proceedings of the doctor and the nurse. It is like mopping up the floor when the closet pipe is blocked, rather than removing the threatened obstruction before the overflow has resulted.

34. Treatment must first aim at keeping the outer ear as dry of discharge as possible. When this first occurs, whether it should be syringed or not depends entirely upon the profuseness of the discharge. When very profuse this is the quickest way of getting rid of the pus. To get rid of small quantities of pus drops of peroxide of hydrogen may be used. In either of these procedures it must be remembered **that** it is purely a mechanical proceeding and that there is no virtue in the chemical nature of the liquids used. Mopping with dry cotton wool wound on to the end of a small stick is the only way of getting the ear dry. This is much more efficiently done by the patient than by the most skilful nurse, and every intelligent child over the age of seven who is not seriously ill may be taught to do it.

35. When the outer ear has been emptied of pus the otologist may be able to see that the perforation is inefficient and that pus is becoming pent up beneath it. Such a hole should be enlarged. As this is not an urgent operation, and as it is necessary to do it carefully, an anæsthetic should be given. Other treatment is limited to the instillation of stimulating or drying drops where there is so large a hole in the drum-head that it is possible for these to enter the middle ear through it.

36. The question of operations upon tonsils and adenoids.

I have long held the view<sup>10</sup> that the many and serious complications which are known to follow these operations are far more likely to result when the operation has been done shortly after some acute inflammation has occurred in the throat, than when a proper quiescent period is allowed to supervene before interference is considered. I have therefore not considered the question of doing such operations in the early stages of the disease because I believe it is against all the canons of good surgery.

<sup>1</sup>º See Medical Sec. Transactions, vol. xxxvii., p. 248.

37. For chronic running ears, however, we take away the tonsils with a view to removing a source of constant re-infection of the middle ear via the Eustachian tube, and the question as to whether this should be done before the children leave the hospital had to be considered. During the month of February I spent a week in Edinburgh studying the work being done in the Throat and Ear Clinics of that city. An otologist, Mr. W. T. Gardiner, has recently been appointed to the Edinburgh City Hospital, and I had the opportunity of a talk both with him and with Dr. C. B. Ker, the Medical Superintendent of that Hospital. I learnt that they had operated upon the tonsils and adenoids of cases of ear discharge arising in the course of scarlet fever, which had not cleared up after prolonged expectant treatment, and that their results were sufficiently encouraging for them to continue with their policy. There is, however, a difference between the conditions in Edinburgh and in London, in that the City Hospital there subserves the function of the convalescent hospitals in London as well as of such as those to which I have been attached. I have not, therefore, had under my care the cases at the stage in which these operations have been performed at Edinburgh. On my return, I discussed the subject with each of the Medical Superintendents, and after careful consideration decided not to start this form of treatment. The subject will need further consideration if and when an otologist is appointed to one of the convalescent hospitals of the Board.

### Mastoiditis.

38. A small prolongation of the cavity of the middle ear known as the antrum extends backwards into that nipple-like mass of bone known as the mastoid process which can be felt behind the outer ear. An inflammation of the middle ear may then spread backwards into the antrum, and from lining of the cavity it may spread to the bone of the process. These form the two stages of mastoiditis. Now an acute inflammation of bone is a serious disease in any part of the body; in this part it is specially serious because the mass of bone is in relation, on the one hand, with the membrane covering the brain, and, on the other, with the large vein which leaves the skull carrying the blood that has recently coursed through the brain. When the inflammation reaches either of these structures the patient's life is in danger.

39. The physical signs of mastoiditis in scarlet fever are the same as they are when this disease is not present, but they may be masked by it. Particularly is this the case with the temperature. On the one hand, a middle ear inflammation may occasionally pass on to a mastoiditis without any rise of temperature, just as it may in cases without scarlet fever; but, more often, the tempcrature resulting from the scarlet fever or from some complication coincident with the mastoiditis masks that due to the ear disease, so that this physical sign does not help so much as usual. So also with the look of the patient. If a child otherwise healthy but suffering from otitis media looks very ill, it is a strong suggestion that some inflammation of the bone has supervened; but when a child is desperately ill with a septic type of scarlet fever his appearance gives no indication as to how far the disease has extended in the region of the ear. I think that tenderness behind the ear is a less common symptom in this form of mastoiditis than is usual, but wish for further observations on this point.

40. There remains the sign of swelling behind the outer ear. This may be due to the flooding of the structures by fluid, known as œdema, or to an abscess with pus under the periosteum. The former is the more usual and I believe that it is commoner in this type of mastoiditis than it is in cases other than scarlet fever. The abscess is not constantly tucked into the fold between the outer ear and the skin of the head, it may be at some distance from this, and I am suspicious that it is so more often in the scarlet fever cases of mastoidit is than in others. The point is of some importance, as it indicates extensive disease of bone. It is such distant abscesses that track down the neck and have to be distinguished from masses of enlarged glands.

41. The diagnosis of markedly enlarged glands from an abscess under the skin arising from the mastoid process is one of the most difficult as well as one of the most frequent decisions that I have been called upon to make. Enlarged glands may be surrounded by an œdematous area which overlaps the mastoid process, or the two lesions may be present at once, or the mastoid abscess may extend downwards in the tissues of the neck. I can lay down no rules to aid in the diagnosis. It is a question of the appearance afforded by each case separately in combination with the evidence gained by a consideration of all other points. I have not met a case of mastoiditis associated with a normal drum-head.<sup>11</sup> I operated upon one such and found myself wrong and that the mass was glands only. I should hesitate to advise operation again in the presence of a normal drum-head and meatus. In many cases, however, this does not help, for the decision has to be made in cases recovering from a severe attack of scarlet fever in which otitis media has already occurred with the resulting ear discharge.

42. The intra-cranial complications of mastoiditis form the nightmare of every otologist. He dreads the onset of that inflammation of the inner membranes around the brain which he calls meningitis. The extension of the inflammation to the great vein of the head (lateral sinus) is only less dreaded by him, and the extension of the inflammation to the space between the bone and outer membrane of the brain forming an extra-dural abscess is feared as a sign that the disease is approaching these structures. It is this fear which leads him to advise early operation, it is this which makes him feel that it is better to err on the side of opening a few mastoid processes unnecessarily rather than leave one which has gone too far. His dilemma is well expressed by a modern American author<sup>12</sup> :----

"The aural surgeon is, therefore, frequently confronted with a " grave responsibility. If he waits in all cases until symptoms are " present rendering surgical intervention absolutely obligatory, he " will frequently find, when these symptoms appear, that the question is " shifted from the advisability of opening the mastoid to a far more " serious one-i.e., the possibility of saving the patient's life by any " means at his command." 43. Otologists seem generally to think that the middle-ear suppuration

occurring in scarlet fever is more severe than that occurring in other diseases, Thus Politzer13 writes :-

"We not infrequently find caries and necrosis of the temporal " bone, with the exfoliation of smaller or larger portions of the same, "erosion of the Fallopian tube with facial paralysis, or perforation " of the bone into the labyrinth, and towards the cranial cavity with " a fatal termination from sinus-phlebitis, meningitis and brain-abscess."

And Kerrison<sup>14</sup> says :---

"There can be no doubt that children suffering from suppurative "middle-ear lesions complicating the acute infectious diseases more " frequently develop intra-sinus infection than do children who have "not been subjected to such severe systemic depletion."

<sup>&</sup>lt;sup>11</sup> A. M Zamora, Guy's Hospital Reports, vol. lxxi., case 1.

 <sup>&</sup>lt;sup>12</sup> Kerrison, "Diseases of the Ear," p. 191.
 <sup>13</sup> "Diseases of the Ear," 5th English Edition, p. 502. He is speaking of scarlatinal-diphtheritic suppuration, but it is clear from the context that he means that which is here referred to as the septic type of scarlet fever. <sup>14</sup> "Diseases of the Ear," p. 344.

44. On the other hand, those who have had experience in infectious diseases are unanimous in their opinion that intra-cranial complications are not much to be feared in the otitis of scarlet fever. Thus Goodall <sup>15</sup> says :---

"While a mastoid abscess, suppuration of the antrum or mastoid "cells, and inflammation and necrosis of a portion of the mastoid "process are not very uncommon within a few weeks of an attack of "scarlet fever or measles, the more serious lesions (intra-cranial suppura-"tion, sinus thrombosis and pyæmia) are rarely met with during this "period, so that they are seldom seen in fever hospitals."

All those working in fever hospitals to whom I have spoken in the last year say the same thing. To the best of my memory Dr. Ker's words when I asked him a question on this subject were, "No! we do not fear these things."

45. When I started this appointment I was faced with two exactly contrary views upon this point, and it behoved me to go carefully and slowly in order to find out which was correct. So far as this year's work is concerned my experience is entirely on the side of the epidemiologists, and is contrary to the view indicated by the above quotations from works on Otology. The point is of the greatest importance, because upon it depends the whole aspect with which one must look upon the question as to whether one must operate at once or may wait another day or so to see how things go on. As a result of this year's work I have come to the conclusion that one may approach these cases in a totally different way from that in which one must approach the cases that come into the out-patient department of a hospital. In the latter class of case, one feels that once having diagnosed the presence of acute inflammation of the bone of the mastoid, one should not go to rest until that bone has been opened; in the former class, one is quite safe in waiting for the condition of the patient to improve while expectant or minor operative treatment is employed.

46. There have been three cases in which intra-cranial complications have occurred in the two hospitals during the past year.

The first is that of a small girl in whom there was left ear discharge on admission to hospital, who had had this discharge for some time. She went through her attack of scarlet fever and was convalescing normally when she vomited on one or two occasions. The M.O. did not associate this with the ear discharge. One evening she told the nurse that she had a swelling behind the ear. There was a large extra-dural abscess at the operation, from which she made an uneventful recovery.

In another case, which was recently transferred to the Western Fever Hospital from one of the other fever hospitals of the Board, a mastoid operation had been performed at Golden Square Hospital during the incubation period of scarlet fever. When seen by me he had fully developed the physical signs of a temporal abscess in his brain. This was drained and a large quantity of pus evacuated, but after lingering for ten days the boy died.

In each of these cases the intra-cranial complication was secondary to disease which was present before the patient acquired scarlet fever. The latter may have had some result in the progress of the disease, but this cannot be attributed to the infectious disease.

47. The third is the case to which reference has been made in para. 8. A girl in the second quinquennial period of life complained of pain in the ear about one hour after I left the ward on a certain Tuesday. The temperature rose and the pain was intermittent until my next visit, when I incised her drum-head with immediate relief. The ear did not heal up, and she subsequently developed more pyrexia associated with enlarged glands on each side of the neck, which were opened by incisions. She then developed a swelling in front

<sup>&</sup>lt;sup>15</sup> International Congress, loc. supra cit., p. 138.
of the left ear and I was asked to see it. I thought it was more glandular suppuration. The M.O. incised this and told me at my next visit he did not think it could be explained by its being glands, as he had found it necessary to go through the temporal muscle to reach the abscess. We agreed to wait and see whether the opening of the abscess would improve her condition. Subsequently an operation was performed, An extra-dural abscess was found in front of the ear deep to the muscles moving the jaw. The disease had apparently left the middle ear at the front end of its roof. It was not easy to reach.

A week later it was clear that free drainage of the abscess had not been secured, and another operation was performed; subsequent to this she developed meningitis and died. This was the only case of intra-cranial disease due to scarlet fever that occurred during the year. In my opinion it was not the delay in operating that was the fault in this case, but the fact that the abscess being in an unusual and inaccessible place, an efficient operation was not performed. It is, indeed, possible that it was the operation interference that was the determining factor in setting up the meningitis.

48. How, then, are we to reconcile the statements of the otologists quoted in para. 43 with these things? I would suggest three possible ways :---

(i) That scarlet fever varies in its clinical forms from time to time, and that in some more severe type than we have seen in this country of recent years severe complications of mastoiditis occur to an extent of which we have no knowledge. We must bear this possibility in mind in case the type of disease changes in this country.

(ii) That the otologist deals not with mastoiditis during the scarlet fever, but with cases of mastoiditis arising from a secondary infection from the first common cold caught by a child with an ear damaged by scarlet fever after he leaves the infectious hospital. We must bear this in mind in considering the question of allowing children to leave the hospital before the ear is quite healed.

(iii) That the otologist by his surgical interference stirs up the inflammation and breaks through the barrier of repair that nature has been forming around it.

49. Operative treatment.-Wilde's incision.

I was asked by the Chairman of the Committee before whom I appeared, whether I ever made use of Wilde's incision, and I replied that in children under one I thought it a good operation and that it might be useful up to the age of two.

The fact that I was specifically asked the question has made me consider this procedure more carefully than otherwise I should have done. For the reasons given above there is not the fear that a smaller operation may endanger the patient's life by not staying the spread of disease towards the brain cavity; and so it is perfectly sound surgery to do the smaller operation first and the larger operation on the mastoid at a later stage, if necessary; and in this way a certain number of major operations are undoubtedly avoided. But there is a further advantage in this operation; it is done in a couple of seconds, without removing the patient from his bed and without an anæsthetic. Hence it is particularly useful in those severe cases in which you feel that every little disturbance of the patient may be an important factor in the chances of his recovery.

50. I can sum up my experience of this operation thus :--

(i) In a certain number of cases the ear and the mastoid become quite well, the incision behind the ear heals, and the drum-head heals without any remaining sign of inflammation.

(ii) In some cases a fall of temperature results and the incision behind the ear heals, but the drum-head does not heal and the otitis media continues. I think it important that a case such as this should be kept constantly under observation, and a mastoid operation performed if any further symptoms arise. With the knowledge that the bone of the mastoid has once been inflamed any further inflammation in it must be looked upon as a grave symptom.

(iii) In some cases the temperature will fall and the wound will partially heal, but will leave a track at one part unhealed. I think that these cases should not leave the hospital without an operation on the mastoid being performed.

(iv) In some cases the operation will not result in the temperature falling. If there is no other cause for a raised temperature the deduction should be made that the bone disease is extending, and after a period of not more than three or four days a mastoid operation should be done if the symptoms have not then subsided. If, however, the mastoiditis occur in a severe case of septic scarlet fever, a longer time may be allowed to elapse, during which the patient may very materially improve and be in a more fit state for operation.

51. Operative treatment-Antrotomy.

The indications for performing an operation upon the mastoid have been discovered by inference in the last paragraph. The operation that I have always performed has been that of opening the antrum, assuring myself that there is free drainage between this and the middle ear, and then of removing all the bone which can be recognised by the naked eye as being inflamed and leaving the cavity as smooth as possible without overhanging spurs of bone.

I have not found it necessary either to perform the operation of antrostomy (or, as it is called, the conservative operation or modified radical operation), nor to perform the operation of antrectomy (or the radical mastoid operation).

# D. The Effect upon the Hearing.

52. Much is said about the amount of deafness that results from scarlet fever. The prevention of chronic ear disease will prevent some of this deafness. My time has been spent in trying to devise some plan whereby to prevent this chronic ear disease. Except in so far as this is concerned I have not directly tackled the question of deafness. The problem wants to be approached systematically and much preliminary work remains to be done before we can expect to know much about it or to get much improvement.

53. (i) The estimation of hearing in children is no easy matter, inattention or slight mental incapacity is often mistaken for deafness; inattention is rapidly grafted on to slight deafness and makes it worse, mental incapacity follows more slowly.

Where different observers are concerned, similar methods of examination should be used to diminish the personal factor and make the results comparable. Some standard method of testing should be made authoritative if comparable results are to be obtained.

(ii) The exclusion of the sound ear in testing unilateral deafness is a most difficult thing. It has not been sufficiently considered by otologists in the past. In children it is more difficult even than in adults. The good ear has often sharper hearing than it has in the adult, and the steps taken to exclude it have greater effects upon the mind of the child than on that of the adult. These points need consideration in any work on the subject.
 (iii) The amount of deafness occurring during the acute disease is not the

(iii) The amount of deafness occurring during the acute disease is not the important point. Complete recovery will generally result from this. What we want to know is the amount of damage to the hearing when the ear has got quite well and before it has been reinfected by the organisms of ordinary life. This is the amount of damage that can be laid down to scarlet fever.

I do not think we have as yet sufficient evidence upon this point. It can only be obtained by following the cases through and examining them shortly after their recovery from the scarlet fever. 54. I am suspicious that the amount of deafness which will be ultimately proved to be due to the otitis media of scarlet fever is not so great as it is generally supposed to be. We must estimate this in proportion not to any theoretical physiological standard, but in proportion to the amount of hearing needed by the dweller under modern urban conditions. It is surprising how many war pensioners are seen who say they have never had anything wrong with one ear, and in this ear evidence of an old suppuration is seen which must have dated from childhood and very possibly from one of the acute infectious diseases.

55. On the other hand, I think it possible that the damage done to hearing through suppurative otitis media may not be the only deafness which is attributable to scarlet fever. I think I have observed cases in which the early signs of middle-ear inflammation described in paras. 16-20 have been followed by resolution of the inflammation with retraction of the drum-head and the incipient signs of chronic catarrhal otitis media. I have not made enough observations to form an opinion on the point, but it is one which must be borne in mind and will need investigation. In my experience chronic catarrhal otitis media is the cause of far more cases of serious deafness than are destructive changes in the middle ear, and if my suspicions are correct then scarlet fever may be the cause of more deafness even than that which is now laid to its charge.

(Signed) T. B. LAYTON.

[NOTE.—The concluding section of the report which is not reproduced here contains various recommendations which are under consideration.]

#### APPENDIX E.

# REPORT UPON THE LABORATORY WORK AND PREPARATION OF DIPHTHERIA ANTITOXIN CARRIED OUT UNDER THE METROPOLITAN ASYLUMS BOARD DURING THE YEAR 1920.

By SIR G. SIMS WOODHEAD, M.A., M.D., LL.D., Bacteriological Adviser to the Board, and

G. E. CARTWRIGHT WOOD, M.D., B.Sc., Bacteriologist to the Board.

Diphtheria antitoxin. The very heavy demands of the institutions of the Board during the year under review necessitated the reduction of the strength of the antitoxin doses supplied from 4,000 units to 3,000 units per dose, the change being effected on 29 January, 1920.

As a result of war conditions the reserve of antitoxin at the Laboratories was insufficient to meet the abnormal circumstances and it was necessary in the early part of the year to purchase from external sources  $22\frac{1}{2}$  litres of 400 units per c.c. antitoxin and 10 litres of 500 units per c.c. antitoxin or 14,000,000 units at a total cost of  $\frac{1}{22}$  14s. 9d.

The number of doses of antitoxin supplied to institutions of the Board during 1920 was 5,175 doses of 4,000 units and 74,142 doses of 3,000 units, or a total of 243,126,000 units, which is more than three times the normal output. This quantity is very much in excess of that supplied in any one year since the commencement of this work. The amount supplied during 1919, which exceeded all previous years, was 40,198 doses, each of 4,000 units, or a total of 160,792,000 units.

The amount of antitoxin purchased for the Laboratories equals 5.7 per cent. of the total amount supplied to the various institutions of the Board.

During the year 12,286 cases, including 747 in which diphtheria bacilli were found to be present, although they manifested no clinical evidence of the disease, were treated in the Board's hospitals. It is calculated that, on the average, 19,788 units were used for each patient. The corresponding figures for 1919 show an average of 18,367 units per patient. In addition to the Board's institutions, the Hospital for Sick Children,

In addition to the Board's institutions, the Hospital for Sick Children, Great Ormond Street, was supplied with 400,000 units of diphtheria antitoxin.

*Diagnostic work.* During 1920, 106 specimens, mainly swabs from the throat, nose or ear of patients in the hospitals of the Board, have been examined for the presence of diphtheria bacilli. These specimens were derived from 60 patients in whom the diagnosis was doubtful or who were awaiting their discharge from hospital. Specimens from 0.04 per cent. of the diphtheria patients treated were thus examined at the Laboratories. In 1919 the corresponding figures were 71 specimens from 51 patients, or 0.5 per cent. of the total cases treated.

In addition, 22 specimens from II inmates of the mental hospitals, 428 specimens from 188 patients in the children's institutions, and II specimens from 10 patients in the sanatoria, have been examined in a similar manner.

During 1920, 254 samples of blood taken from typhoid patients in the Board's fever hospitals have been examined for the determination of the agglutinative reaction upon typhoid bacilli of the serum from these samples with the object of corroborating or correcting the diagnosis of enteric fever (Widal's reaction). These specimens were derived from 191 patients. Three samples of blood from 2 inmates of the mental hospitals and 1 sample from the children's institutions were tested in a similar manner.

236 samples of blood, from 178 patients, have also been examined for their agglutinative reaction upon organisms allied to typhoid bacilli, viz., the members of the paratyphoid group.

Of faeces 3 samples and of urine 3 samples, from 3 cases in the infectious hospitals were examined for the presence of typhoid bacilli and one sample each of faeces and urine from the mental hospitals were similarly examined.

Of sputum 6,924 samples were examined microscopically for the presence of tubercle bacilli. The specimens were derived from patients in the Downs Sanatorium, Pinewood, Colindale, Western, Park, Northern and Queen Mary's Hospitals and High Wood. In addition, 45 specimens from cases suspected to be suffering from tuberculosis have been examined for various institutions.

Of cerebro-spinal fluid from cases suspected to be suffering from cerebrospinal meningitis, 58 samples were submitted for examination during the year.

Other samples, 35 in number, were received at the Laboratories and there examined with the object of separating and if possible identifying the organisms present. In 28 cases standardised vaccines designed for use in the treatment of these cases were prepared from the bacteria isolated from the material submitted for examination, and in 105 cases vaccines prepared from organisms of which cultures are maintained at the Laboratories were supplied.

In 16 cases determinations of the opsonic index were carried out and material from 9 cases were examined for dysentery and from one case for the gonococcus.

Twelve specimens were examined for ringworm, one test for occult blood was made and 8 specimens were examined histologically.

The water supplies of certain of the Board's institutions have been kept under observation during the year, 18 samples of potable water taken from 4 institutions being brought under examination.

> (Signed) G. SIMS WOODHEAD, Bacteriological Adviser to the Board.

> > G. E. CARTWRIGHT WOOD, Bacteriologist to the Board.

#### APPENDIX F.

# REPORT BY MR. L. J. PISANI, F.R.C.S., ON OPHTHALMIA IN THE BOARD'S MENTAL HOSPITALS.

I beg to submit my report for the past year.

The number of visits paid to the asylums of the Board since my last report was submitted is as follows :---

Leavesden	 	12
Fountain	 	4
Darenth	 	2
Caterham	 	I

# Total ... 19 visits.

None of the other institutions under the Committee requested a visit during the year.

Leavesden.—The number of cases of trachoma under treatment in February as compared with the two previous years is shown below :—

		1919.	1920.	1921.
Males		38	36	40
Females		35	37	36
Totals	× ••••	73	73	76

There is an increase of 3 cases. As there are now no cases of trachoma at the Fountain, there is really a total decrease of 12 cases, the combined total of Leavesden and the Fountain last year being 85.

The cases of trachoma are generally in a satisfactory condition.

In the ordinary Ophthalmia Ward the figures for the three years are as follows :---

	1919.	1920.	1921.
Males	 26	41	43
Females	 48	53	52
Totals	 74	94	95

An increase of one over last year. During the year a good many cases were transferred from the Fountain and some from Caterham. In dealing with acute conjunctival cases the large wards at Leavesden have been found very unsuitable as it is practically impossible to prevent re-infection of nearly cured cases.

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Fountain.—All the cases of trachoma were transferred to Leavesden and at one time during the year all cases under treatment were transferred. Cases of trachoma are best all collected in one institution, but to transfer all conjunctival and lid cases is not practicable, as in an institution with a large number of children, many of them admitted with eye complaints, it is not possible to transfer cases constantly—many of these cases are easily curable under a short course of treatment, but proper accommodation is necessary to prevent the spread of infection.

The cases under treatment at the Fountain during the past 3 years were below :----

	1919.	1920.	1921.
Frachoma	 15	12	Nil.
Ophthalmia	 24	29	20
Totals	 39	41	20

Darenth.—Two visits were made. In addition to a number of cases of minor ailments seen, a number of cases were refracted. The children at this institution are intelligent enough, in many instances, to derive benefit from the use of glasses.

Caterham .--- One visit was made to perform an operation.

(Signed) L. J. PISANI, F.R.C.S. Ophthalmic Surgeon.

#### APPENDIX G.

# REPORT BY MR. E. TREACHER COLLINS, F.R.C.S., ON THE TREATMENT OF OPHTHALMIA IN WHITE OAK.

There were 160 children left in the school at the end of 1919. During the year 1920, 148 have been admitted.

The affections of the eyes from which these children were suffering may be classified as follows :

	Trachoma		 	26	
	Follicular conjunctivitis		 	9	
	Mucopurulent ophthalmia	ι	 	IO	
	Chronic conjunctivitis		 	45	
	Phlyctenular ophthalmia		 	39	
	Purulent ophthalmia		 	Ί	
	Marginal blepharitis		 	18	
96 children	have been discharged cured.				
	Trachoma		 	14	
ALC: NO PORT	Follicular conjunctivitis		 	4	
	Mucopurulent ophthalmia	ı	 	4	
	Chronic conjunctivitis		 	39	
	Phlyctenular ophthalmia		 	22	
	Lacrymal obstruction		 	I	
	Marginal blepharitis		 	12	
1 11 1		~	 *	- M	

9 children were removed by order of the Guardians before they were cured. I child died of tuberculosis of the lungs.

2 children absconded.

200 children were left in the school at the end of the year.

The following table shows the number of trachomatous and non-trachomatous cases admitted into the school from the different parishes and unions :—

7								
	Parish or Union.		Nor	n-Trachom	natous. Tra	chomatous.	Total.	
	Bermondsey			5		2	7	
	Bethnal Green			I		-	I	
	Camberwell			I		-	I	
	City			I		-	- 1	
	Fulham			3		-	3	
	Greenwich			3		-	3	
	Hackney			2		-	2	
	Hammersmith			4		-	4	
	Hampstead			I		-	I	
	Holborn			4		3	7	
	Islington			6		_	6	
	Kensington			8		2	IO	
	Lambeth			2		I	3	
	Lewisham			-		I	I	
	Marylebone			*3		_	3	
	Mile End			=		I	I	
	Paddington			8		-	1 8	
	Pancras, S.			3		-	3	
	D-1-			29		2	31	
	Shoreditch			5		2	7	
	Southwark			7		3	IO	
	Stepney			2		I	3	
	Wandsworth			6		_	6	
	Westminster			3		_	3	
	Whitechapel			3		_	3	
	Woolwich			I		_	I	
	*			-			-	
		E	xtra	Metropo	olitan.			
	Dartford			2		2	4	
	Willesden			I		-	I	
	Canterbury			I		-	I	
	London County C			I		-	I	
	Norwich			I		-	I	
	Middlesborough			-		4	4	
	Hendon			-		I	i	
	Chertsey			I		_	I	
	West Ham			3		I	4	
	Swindon			I		_	I	
	Total			122		26	148	

There were 29 cases of measles in the early part of the year, and a few cases of chicken pox and mumps amongst the babies at the end of December.

E. TREACHER COLLINS.

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#### APPENDIX H.

# REPORT BY SIR JAMES GALLOWAY, K.B.E., C.B., M.D., F.R.C.P., F.R.C.S., CONSULTING PHYSICIAN FOR SKIN DISEASES, ON THE WORK AT THE GOLDIE LEIGH HOMES DURING THE YEAR 1920.

(A) GENERAL.—During the year 1920 the medical work at Goldie Leigh has been carried out under what may be described as normal conditions with the means at our disposal. There seems to be no diminution in the number of cases of contagious skin disease, especially ringworm, requiring admission to the Homes. There has therefore been a steady admission of cases almost to the full capacity of our accommodation. The work has been seriously impeded from time to time by outbreaks of infectious diseases such as chicken pox, measles, scarlet fever and diphtheria among our children. It is difficult to avoid such outbreaks, especially in seasons when these diseases are prevalent among the population whose children are sent to our Homes.

It is very difficult to set apart a cottage for the observation of the cases sent to the Homes in order to check the admission of children affected by these zymotic diseases. If it were possible to do so, no doubt the ordinary work at the Goldie Leigh Homes would be less impeded and a larger number of children could be dealt with. Failing this, I would venture to ask my medical colleagues to do their best to avoid sending to the Homes children who have been in contact with, or possibly suffering from, these zymotic infectious diseases.

With regard to the incidence of ringworm, there seems to be little diminution in that section of the population from which children come to the various institutions of our Board. It appears to be the case that large numbers of children suffering from ringworm are treated by X-rays at various institutions or centres throughout London. These children return to their homes after exposure of the diseased scalp, or part of it, to the X-rays. In process of time the hair on the exposed surfaces falls out, carrying with it the ringworm spores in enormous quantities. The hair and spores are widely distributed, and cannot fail to spread the disease easily amongst the children and others who are susceptible to the infection. Children during the period in which the hair is falling are in a highly contagious state and should be under care and close observation.

(B) RINGWORM DIVISION.—The treatment of ringworm by X-rays is being continuously and carefully carried out by my colleague, Dr. H. J. Critchley. We are thankful to say that the treatment has been very successful; the number of doubtful or unsatisfactory results has been very small indeed. I would draw attention to the fact that on one or two occasions during the year cases have been sent who have been shown subsequently to have had X-ray exposures of the scalp shortly before admission. No note of this has been made on their admission forms. In the case of such children there may be no evidence to be seen on admission that the scalp had been so treated, and it might very well happen that the affected skin could be treated by X-rays at Goldie Leigh shortly after the previous exposures, of which we had no knowledge. The results might be very damaging to the skin. I am glad to say that no such accident has occurred. We should be very glad, not only that note of previous X-ray exposure is made on the admission form, but also that the duration and the method of treatment adopted previous to admission to the Homes are recorded.

(C) SKIN DISEASES OTHER THAN RINGWORM.—A number of cases of very considerable interest are always under treatment in this department of the Homes. I would draw attention on this occasion to cases of Pemphigoid eruptions in young children, not the newly-born. We have cases of these diseases under treatment.

They are always of great medical interest; they require very special care, especially on account of the complicating visceral diseases. I should be glad to be informed of the occurrence of such cases in our institutions, and if thought advisable, to have them under treatment at Goldie Leigh.

I would again draw attention to my Report for the year 1919, and would emphasize once more the great importance of the inspection of the children at our various institutions by skilled persons, in order that the contagious diseases affecting the children may be recognised early and treated.

#### JAMES GALLOWAY.

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# TABLES.



TABLES I. & II.

List of members of the Board at the close of the year 1920.

MEMBERS ELECTED BY THE SEVERAL METROPOLITAN BOARDS OF GUARDIANS.

÷

UNION OR PARISH.	NAME.	Address.
Bermondsey	Ecroyd, W. H., J.P	
Bethnal Green	Eickhoff, Walter, J.P	"Clovelly," 165, Devonshire Road, Forest Hill, S.E. 23
Camberwell	Edmonds, Henry	3, Lyndhurst Square, Peckham, S.E. 15
	Sayer, Samuel Crosse, T. Warren	10 Occasional Condens Couth Transformeters O W F
Chelsea		18, Camomile Street, E.C.3
City of London	Champness, Major W. H.	14, Serjeants' Inn, E.C. 4
,,	Doughty, Rev. Geo. Bell	Brooke House, Woodford Road, E. 18
"	Sladen, Rev. St. Barbe S., M.A.	8, Clydesdale Mansions, Notting Hill, W. 11
** **	Spaul, H. B	"Hollingbourne," 5, Halesworth Road, Lewisham, S.E. 13
City of West-	Heilbuth, Geo. H	3, Down Street, Piccadilly, W. 1
minster	Hillersdon, Rev. F. Harcourt,	73, Ridgmount Gardens, W.C. 1
,,	M.A., J.P.	ro, mughount outtens, wiorr
	Smith, William	88 Cambridge Street, S.W. 1
» · ·	Thomson, Capt. H. Lyon,	34, St. James' Street, S.W.1 "Bella Vista," Upper Warlingham, Surrey
	Walden, Sir Robert, C.B.E., J.P.	"Bella Vista," Upper Warlingham, Surrey
	Tratter III Observer	359, Oxford Street, W. 1 (St. Patelah's "529, Fulham Palace Read, Fulham & W. g
Fulham	LOUDDLASS, CHEERUD	'St. Botolph's,' 532, Fulham Palace Road, Fulham, S.W. 6 Troutbeck House, 39, Troutbeck Road, New Cross, S.E. 14
Greenwich .		"Inverugie," 54A, Cawley Road, South Hackney, E. 9
Hackney	Larter, G. W Parker, Richard	102, Downs Park Road, Clapton, E. 5
Hammersmith	Jones, J. G 7.	5, Elm Gardens, Brook Green, W. 6
Theman strend	Gard, W. G. Snowdon, M.B.E.,	10, Hampstead Hill Gardens, N.W. 3
Helborn	f. L.B.	000 G
noiborn	Garrity, Edward, J.P., F.J.I	220, Goswell Road, E.C. 1
	Mount Somerby, Herbert S Smith, Col. Sir William, J.P.,	32, Great Ormond Street, W.C. 1 37, Russell Square, W.C. 1
	D.L., M.D.	or, mussen square, more
Islington	Parker, W. B	35, Fieldway Crescent, N.5
,,	Reed, Patrick	8, Tyndale Place, Upper Street, N. 1
Kensington	Walkley, Alfred, J.P	Tower House, 17, Cromartie Road, Hornsey Rise, N. 19
,,	Granam, W. E	12, Ladbroke Gardens, W.10
	Rickards, A. G., K.C., J.P Wilde, Miss M. J	
Lambeth	Brittain, George, J.P	0.00 TT
	Thimm, Commndr. F. K., B.N.R.	3, Court Road, West Norwood, S.E. 27
Lewisham	West, F. H.	24, Haycroft Road, Brixton Hill, S.W. 2
Mile End Old	Bradley, W. G Boustred, G. R	5, Trewsbury Road, Sydenham, S.E. 26
Town	Boustred, G. R	83, Clark Street, Stepney, E. 1
Paddington	Blackwell, Mrs. E. M	1, Garway Road, Westbourne Grove, W.2
	Hobson John	81, Praed Street, Paddington, W.2
Poplar	Sumner, C. E	61, Knapp Road, Bow, E.3
St. George-in- the-East	Reidy, Mrs. F. W	314, Commercial Road, E. 1
St. Marylebone	Amallas Tananalah an	111 Three Group N.W.1
··· ··	Anglim, Jeremiah, J.P	111, Lisson Grove, N.W.1 fr. Biskenhall Mansions, Glaucester Place, W 1
	Broadbent, Miss M. E Morris, Francis, J.P	6L, Bickenhall Mansions, Gloucester Place, W. 1 14, St. John's Wood Park, N.W. 8
St. Pancras	Cosburn, Major G. F., J.P.	83, Judd Street, W.C.1
" …	Miles, A. R.	29, Gloucester Crescent, N.W.1
Shoreditch	Tapping, Dan	Dartmouth Villa, Patshull Road, N.W. 5
Southwark	Tucker, Thomas Cornell, Thomas (Vice-Chair-	20, Pleasant Place, N.1
Southwark	Cornell, Thomas (Vice-Chair-	"Ferndale," 176, Victoria Avenue, Southend-on-Sea
	man of the Board) McCarthy, Philip	52, Pullen's Buildings, Penton Place, S.E. 17
Stepney	Attlan Major C D	638, Commercial Road, E. 14
Wandsworth	Potts, Rev. E. Eccleston	47, Studley Road, Clapham, S.W. 4
	Prichard, Rev. A. G	47, Studley Road, Clapham, S.W. 4 12, Foxmore Street, Battersea, S.W. 11
Whitechapel	Winfield, Albert	39, Morrison Street, Battersea, S.W. 11
	Murphy, Rev. P. J.	1, Hamilton Road, Sidcup, Kent Wharf House, Bell Watergate, Woolwich, S.E. 13
woorwich	Hutchinson, Rev. C. W.	Wharl House, Bell Watergate, Woolwich, S.E. 13

#### MEMBERS NOMINATED BY THE MINISTRY OF HEALTH.

NAME.	Address.
Baker, Miss I. M. Bousfield, E. C., L.R.C.P., M.R.C.S., D.P.H. Brinton, Miss M. D. Curtis, Rev. Canon Hubert, M.A. Doneraile, The Viscount Drage, Geoffrey Elliott, Sir George. M.P. Hubbard, N. W. J.P. Meinertzhagen, E. L., J.P. Paton, W. B. Rendel, James Meadows Salmond, Mrs. E. M., O.B.E. Scovell, Sir Augustus, J.P. Shaw, Lauriston E., M.D., F.R.C.P. Sheffield, Col. Frank Sommerville, Rev. W. J. Sprankling, The Very Rev. Canon ( <i>Chairman</i> of the Board)	<ol> <li>Upper Street, Islington, N.1</li> <li>Onslow Houses, S.W.7</li> <li>"Hawarden." 41, Chestnut Road, West Norwood, S.E. 27</li> <li>Cheyne Walk, Chelsea, S.W.3</li> <li>Stanhope Gardens, Queen's Gate, S.W. 7</li> <li>Courtfield Road, South Kensington, S.W. 7</li> <li>Brunswick Square, W.C. 1</li> <li>Primrose Mansions, Battersea Park, S.W.11</li> <li>The Bungalow, Oatlands Chase, Weybridge.</li> <li>"Palaspai," Daleham Gardens, Hampstead, N.W. 3</li> <li>Otford Vicarage, nr. Sevenoaks, Kent</li> </ol>

# ANNUAL REPORT, 1920. TABLE III.—List of the

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6 7 8	(b)	Grove		,,				"	Tooting (	Frove, Too	ting Gr			17
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(b) (c)	)	" .	,,			,	,	12	February, April, 1919	1920.				
(0	d) Inclu	ides 262 bed rted to Boa					,							

4 .

# institutions of the Board.

# ANNUAL REPORT, 1920.

5

	No.	Date of opening.		Acres	age.	Ac	commodatio	on.
1						Total number of beds.	No. of nedsin special wards (isolation, separation discharge, &c.)	beds in ordinary
	$\frac{1}{2}$	September, 1908 May, 1907		2 a. 2 r. 0 p.		1		
	3	31 August, 1896		29 a. 1 r. 2 p.		. 580	104	476
	4 5	1 February, 1871 17 August, 1899		9a		. 375	67	308
	6 7	8 October, 1892		22 a. 3 r. 3 p. 33 a. 0 r. 6 p.		000	121 149	416 474
	8	25 January, 1870 8 November, 1897 (Used for rick and valuecent children		12 a. 1 r. 19 p. 19 a. 1 r. 6 p.		E 40	100 132	364 416
	9	Nov., 1910, to Oct., 17 March, 1877 (Reconstructed 1904-190 re-opened 2 July, 190	1914) 6 and	10 a. 2 r. 0 p.		100	72	424
	10 11	31 January, 1871		8 a. 1 r. 20 p.			77	270
	. 12	25 September, 1887		13 a. 2 r. 35 p. 35 a. 2 r. 38 p.		456	54 85	402 326
	13 {	October, 1890 Erected 1902		} 160 a. 0 r. 16 p.		922 610	166 42	756 568
	14	28 December, 1903	•••	254 a. 1 r. 18 p.		940	184	756
						7,309	1,353	5,956
	15	27 February, 1902		24 a. 0 r. 37 p.			50 beds. 300 "	
	16	Erected spring, 1902		63 a. 0 r. 18 p.			800 "	,150
	17	September, 1918		1 a. (about)			48 "	
	10	91 L 1090						48
	18 19	21 June, 1920		171 a. (about)			52 "Not	t ready
	20	26 February, 1903 (Used for ringworm until Jan. 1913, an	oases d re-	42 a. 3 r. 27 p.			292 ,,	52
	21	7 July, 1919		82 a. 0 r. 0 p.			160 ,,	
	22	Now in course of erection	•••	57 a. (about)			ave	lot yet alable.
	23 24	1 January, 1920 14 May, 1914	• •	27 a. 2 r. 0 p.			271 ,, 50 ,,	
	25	Purchased in 1920-not yet re	ady				N	ot yet alable.
	-	for occupation		(see abo	ove)		262 "	20100
1	26	Purchased in 1920-not yet re for occupation	ady				164 ,, ava	ot yet ailable.
-	27	26 June, 1898 (Reconstructed 1914-191)	and	3 a. 2 r. 20 p.			271 ,,	
1	28	26 July, 1904 (Used for ophthalmia unit) then for same epileptics Aug., 1918, until Nor., 19	from	28 a			308 "	
	29 30	6 April, 1904		5 a. 2 r. 0 p.			120 ,,	2,443
	31	Ditto Ditto		185 a. (about) 1531 a. (about)			-	-,
		19 January, 1903		28 a. 3 r. 18 p.	(including Bushey	1,	.114 "	
	33	October, 1870		223 a. 0 r. 4 p.	Downy	9	209 "	
-	34	" "		215 a. 3 r. 2 p.		. 2,	109 "	
and 1	35	1893 (Used as a fever hospital 1911, then as home for defectives during p 1912, and since 1912 as an asylum for unin oblic induction.	art of	10 a. (about)			658 "	
	36 37	Purchased 1902		93 a		1 1	Net me de	
1	01	" 1914		23 a			Not ready.	

(g) In addition to the number of beds for tuberculosis cases shown under this heading, there are 30 at St. Anne's Home (No. 44), and about 560 at Queen Mary's Hospital (No. 42).
 (h) Let to Fulham Guardians but by arrangement lent to the military authorities.

ANNUAL REPORT, 1920. TABLE III. (Contd.)—List of the

(ii.) Feeble-minded /       Witham, Essex //         39       Bridge—Feeble-minded //       Witham, Essex //         40       Colony for sane epileptics.       Bildero of both sexes)         40       Edmonton Epileptic Colony (male adults and children of both sexes)       Silver Street, Edmonton, N. 18         41       (i) Training ship Exmouth //       Grays, Essex //       ",", and cruising //         41       (i) Training ship Exmouth //       Grays, Essex //       ",", and cruising //         42       Queen Mary's Hospital for Children (sick and convalescent children)       Carshalton, Surrey //       Carshalton, Surrey //         43       The Children's Infirmary (sick and convalescent holme)       Cleveland Street, W. 1       //         44       S. Anne's Home (seaside convalescent holme)       Herne Bay, Kent //       //         44       S. Anne's Home (seaside convalescent holme)       Swanley Junction, Kent //       //         45       Goldie Leigh Homes (ringworm & skin disease)       Swanley Junction, Kent //       //         46       White Oak (ophthalmia, - also convalescent holme)       Swanley Junction, Kent //       //         47 to 63       Brook Station //       Shooters Hill, Woolwich, S.E. 18 //       //         66	No.	Name of institution.	Where situated.
38       Darenth-(i) Imbeciles			
38       Darenth(i.) Imbeciles		Training colonies.	
40       Colony for same epileptics. Edmonton Epileptic Colony (male adults and children of both sexes)       Silver Street, Edmonton, N. 18          41       {(i)Training ship Exmouth	38	Darenth-(i.) Imbeciles )	Dartford, Kent
40       Edmonton Epileptic Colony (male adults and children of both sexes)       Silver Street, Edmonton, N. 18         41       (i) Training ship Exmouth	39	Bridge—Feeble-minded	Witham, Essex
41       Infirmary	40	Edmonton Epileptic Colony (male adults and	Silver Street, Edmonton, N. 18
Exmouth II., sea-going tender        ,, and cruising          42       Queen Mary's Hospital for Children (sick and convalescent children)       Carshalton, Surrey          43       The Children's Infirmary (sick and convalescent children)       Cleveland Street, W. 1          44       S. Anne's Home (seaside convalescent home)       Goldie Leigh Homes (ringworm & skin diseases)       Cleveland Street, W. 1          44       S. Anne's Home (seaside convalescent home)       Herne Bay, Kent           45       Goldie Leigh Homes (ringworm & skin diseases)       Mabley Wood, S.E. 2           46       White Oak (ophthalmia, - also convalescent children)       Abbey Wood, S.E. 2           47 to 63       17 wards          Shooters Hill, Woolwich, S.E. 18          64       Brook       Station        Brooksby's Walk, Homerton, E. 9          65       Eastern          New Cross Road, S.E. 14          66       Mead          New Cross Road, S.E. 14          67       North-Western          Seagrave	1		Grays, Essex )
42       Queen Mary's Hospital for Children (sick and convalescent children)       Carshalton, Surrey	41 {	Infirmary	,, ,, }
42       Queen Mary's Hospital for Children (sick and convales convalescent children)       Carshalton, Surrey           43       The Children's Infirmary (sick and convales cent children)       Cleveland Street, W.1           44       S. Anne's Home (seaside convalescent home)       Herne Bay, Kent            45       Goldie Leigh Homes (ringworm & skin diseases)       Herne Bay, Kent            46       White Oak (ophthalmia, - also convalescent children)       Herne Bay, Kent            47 to 63       17 wards          Various parts of the metropolis          47 to 63       17 wards          Shooters Hill, Woolwich, S.E. 18          47 to 63       17 wards          Shooters Hill, Woolwich, S.E. 18          64       Brook       Station         Shooters Hill, Woolwich, S.E. 18          65       Eastern               66       Mead        (motor workshop).        Carnwath Road, Fuham, S.W	C	Exmouth II., sea-going tender	", ", and cruising )
42       Queen Mary's Hospital for Children (sick and convales convalescent children)       Carshalton, Surrey           43       The Children's Infirmary (sick and convales cent children)       Cleveland Street, W.1           44       S. Anne's Home (seaside convalescent home)       Herne Bay, Kent            45       Goldie Leigh Homes (ringworm & skin diseases)       Herne Bay, Kent            46       White Oak (ophthalmia, - also convalescent children)       Herne Bay, Kent            47 to 63       17 wards          Various parts of the metropolis          47 to 63       17 wards          Shooters Hill, Woolwich, S.E. 18          47 to 63       17 wards          Shooters Hill, Woolwich, S.E. 18          64       Brook       Station         Shooters Hill, Woolwich, S.E. 18          65       Eastern               66       Mead        (motor workshop).        Carnwath Road, Fuham, S.W	-10,0	Childron's institutions	
43       The Children's Infirmary (sick and convales- cent children)       Cleveland Street, W. 1           44       S. Anne's Home (seaside convalescent home)       Herne Bay, Kent           45       Goldie Leigh Homes (ringworm & skin disease)       Abbey Wood, S.E. 2           46       White Oak (ophthalmia, - also convalescent White Oak (ophthalmia, - also convalescent Casual wards.       Swanley Junction, Kent           47 to 63       17 wards         Various parts of the metropolis          47 to 63       17 wards         Various parts of the metropolis          47 to 63       17 wards         Various parts of the metropolis          47 to 63       17 wards         Various parts of the metropolis          64       Brook       Station         Brooksby's Walk, Homerton, E. 9          65       Eastern         Lawn Road, Hampstead, N.W.3          66       Mead         New Cross Road, S.E. 14          67       North-Western <td< td=""><td>42</td><td>Queen Mary's Hospital for Children (sick and</td><td>Carshalton, Surrey</td></td<>	42	Queen Mary's Hospital for Children (sick and	Carshalton, Surrey
44       S. Anne's Home (seaside convalescent home)         45       Goldie Leigh Homes (ringworm & skin diseases)         46       White Oak (ophthalmia, - also convalescent children)         46       Casual wards.         47 to 63       17 wards.         47 to 63       17 wards.         47 to 63       17 wards.         48       White Oak (ophthalmia, - also convalescent children)         49       Manbulance stations.         64       Brook         65       Eastern         66       Mead         67       North-Western         70       Western         70       Western         71       North Wharf         72       South         73       West	43	The Children's Infirmary (sick and convales-	Cleveland Street, W. 1
45       Goldie Leigh Homes (ringworm & skin diseases) White Oak (ophthalmia, - also convalescent children)       Abbey Wood, S.E. 2	44		Herne Bay, Kent
47 to 63       Casual wards. 17 wards       children)         47 to 63       17 wards          64       Brook       Station          65       Eastern           66       Mead           67       North-Western           68       South-Eastern           69       South-Western           70       Western           71       North Wharf           71       South           73       West			Abbey Wood, S.E. 2
47 to 63       17 wards.         Various parts of the metropolis          447 to 63       17 wards.          Various parts of the metropolis          64       Brook       Station         Shooters Hill, Woolwich, S.E. 18          65       Eastern       "        Brooksby's Walk, Homerton, E. 9          66       Mead       "        Brooksby's Walk, Homerton, E. 9          67       North-Western       "        Eastern          68       South-Eastern       "        New Cross Road, S.E. 14          69       South-Western       "        Seagrave Road, Fulham, S.W. 6          70       Western       "        Seagrave Road, Fulham, S.W. 6          71       North Wharf          Managers Street, Blackwall, E. 14          72       South       "         Trinity Street, Rotherhithe, S.E. 16          73       West       " </td <td>46</td> <td>White Oak (ophthalmia, - also convalescent</td> <td>Swanley Junction, Kent</td>	46	White Oak (ophthalmia, - also convalescent	Swanley Junction, Kent
47 to 63       17 wards         Various parts of the metropolis          64       Brook       Station         Shooters Hill, Woolwich, S.E. 18          65       Eastern       "        Brooksby's Walk, Homerton, E. 9          66       Mead       "        Brooksby's Walk, Homerton, E. 9          66       Mead       "        Brooksby's Walk, Homerton, E. 9          67       North-Western       "        Lawn Road, Fulham, S.W. 6          68       South-Eastern       "        New Cross Road, S.E. 14          69       South-Western       "        Landor Road, Stockwell, S.W. 9          70       Western       "        Seagrave Road, Fulham, S.W. 6          71       North Wharf          Managers Street, Blackwall, E. 14          72       South       "          Trinity Street, Rotherhithe, S.E. 16         73       West       "		Casual wards.	
64BrookStationShooters Hill, Woolwich, S.E. 1865Eastern"Brooksby's Walk, Homerton, E. 966Mead"(motor workshop)Brooksby's Walk, Homerton, E. 967North-Western"Carnwath Road, Fulham, S.W. 668South-Eastern"New Cross Road, S.E. 1469South-Western"Landor Road, Stockwell, S.W. 970Western"Seagrave Road, Fulham, S.W. 671North WharfManagers Street, Blackwall, E. 1472South"Trinity Street, Rotherhithe, S.E. 1673West"Carnwath Road, Fulham, S.W. 6	47 to 63		Various parts of the metropolis
64BrookStationShooters Hill, Woolwich, S.E. 1865Eastern"Brooksby's Walk, Homerton, E. 966Mead"(motor workshop)Brooksby's Walk, Homerton, E. 967North-Western"Carnwath Road, Fulham, S.W. 668South-Eastern"New Cross Road, S.E. 1469South-Western"Landor Road, Stockwell, S.W. 970Western"Seagrave Road, Fulham, S.W. 671North WharfManagers Street, Blackwall, E. 1472South"Trinity Street, Rotherhithe, S.E. 1673West"Carnwath Road, Fulham, S.W. 6		Ambulance stations	
65Eastern"Brooksby's Walk, Homerton, E. 966Mead"(motor workshop)Carnwath Road, Fulham, S.W. 667North-Western"Lawn Road, Hampstead, N.W. 368South-Eastern"New Cross Road, S.E. 1469South-Western"Landor Road, Stockwell, S.W. 970Western"Seagrave Road, Fulham, S.W. 671North WharfManagers Street, Blackwall, E. 1472South"Trinity Street, Rotherhithe, S.E. 1673West"Carnwath Road, Fulham, S.W. 6	64		Shooters Hill, Woolwich, S.E. 18
66Mead,, (motor workshop)Carnwath Road, Fulham, S.W. 667North-Western,,Lawn Road, Hampstead, N.W. 368South-Eastern,,New Cross Road, S.E. 1469South-Western,,Landor Road, Stockwell, S.W. 970Western,,Seagrave Road, Fulham, S.W. 671North WharfManagers Street, Blackwall, E. 1472South,Trinity Street, Rotherhithe, S.E. 1673West,Carnwath Road, Fulham, S.W. 6	65 .	Fastern	
67       North-Western ,, Lawn Road, Hampstead, N.W. 3         68       South-Eastern ,, New Cross Road, S.E. 14         69       South-Western ,,	66	Mand (motor workshan)	
68         South-Eastern         ,,          New Cross Road, S.E. 14             69         South-Western         ,,           Landor Road, Stockwell, S.W.9            70         Western         ,,           Seagrave Road, Stockwell, S.W.9            70         Western         ,,           Seagrave Road, Fulham, S.W.6            71         North Wharf            Managers Street, Blackwall, E. 14            72         South         ,           Trinity Street, Rotherhithe, S.E. 16            73         West         ,            Carnwath Road, Fulham, S.W.6	67	North Western	
69South-Western,,Landor Road, Stockwell, S.W.970Western,,Seagrave Road, Fulham, S.W.671North WharfManagers Street, Blackwall, E. 1472South,Trinity Street, Rotherhithe, S.E. 1673West,Carnwath Road, Fulham, S.W.6	68		
70         Western         ,,          Seagrave Road, Fulham, S.W. 6            Wharves, piers, and steamers.         Managers Street, Blackwall, E. 14           Managers Street, Blackwall, E. 14            71         North Wharf            Managers Street, Blackwall, E. 14            72         South            Trinity Street, Rotherhithe, S.E. 16            73         West             Carnwath Road, Fulham, S.W. 6	69	Canth Wastern	
71         North Wharf           Managers Street, Blackwall, E. 14            72         South            Trinity Street, Rotherhithe, S.E. 16            73         West             Carnwath Road, Fulham, S.W. 6	70	Western	
71         North Wharf           Managers Street, Blackwall, E. 14            72         South            Trinity Street, Rotherhithe, S.E. 16            73         West             Carnwath Road, Fulham, S.W. 6		Wharves, niers, and steamers,	
72         South            Trinity Street, Rotherhithe, S.E. 16            73         West             Carnwath Road, Fulham, S.W. 6	71		Managers Street, Blackwall, E. 14
73 West " Carnwath Road, Fulham, S.W.6		G 11	
Et Dies am hullance at among		III /	
	74	Five ambulance steamers	

(i) The present training ship "Exmouth" was built for the Board in 1905.

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## institutions of the Board.

# ANNUAL REPORT, 1920.

No.	Date of c	opening.			Acre	age.			Accommodati	on.
38	November, 1878			. 164 a.	.1r. 0p				1,668 beds	7,758
39	12 February, 1901	(Used for ri until 1906, th for defective	ien as a hon	1e / B.	.1r. 0p			{	630 beds. 210 "	840
40	Purchased 1914			· 10 a.					316 "	316
41 {	March, 1876 August, 1905			• • • • •					700 boys,	
#1 ]				• 6a	. 2 r. 13 p	• ••	••	•••	34 beds.	
	July, 1913								70 boys,	804
42	29 January, 1909			• 136 a	.0r. 0p				810 beds	
43	May, 1916			• ½ a	. (about)				234 "	
44	26 December, 1897			. 2a	.3r. 0p				150	
45	1 November, 1914			· 32 a					270 ,,	
46	20 March, 1903			· 49 a	. 2 r. 10 p	• ••			360 "	1,824
17 to 63	Transferred to the 1 1 April, 1912.	Asylums	Board,						1,123 beds4	
64	18 August, 1896			. The areas	of these sites	are inclu	ided in the	one of		
65	20 June, 1885			. f the adjo	ining hospital	s (see ab	ove).			
66 67	April, 1902 1 September, 1897				of the W	est W	harf sit	e		••
68	1 October, 1883				reas of th					
69	2 May, 1898			L clud	ed in thos			ning		
70	9 July, 1884			. J hosp	itals (see	above	).			
71	Purchased January	, 1884			2 r. 0 p				9 beds.	
72	" Decemb	er, 1883		. 2 a	.1r. 0p				24 "	
73	" Februar			. 2a	. 2 r. 10 p			••		
74	May, 1884, to Mar	en, 1902		• ••					178 beds.	

2. Venereal disease. By the City of London Guardians at Thavies Inn, High Holborn, where 20 (mothers with infants) patients can be accommodated. This arrangement began on 5 September, 1917.

7

# TABLE IV.

	Infee hosp and la tor	itals bora-	Mer hospi		Sanat	toria.	Child institu an Exm	itions	wa and d	ual rds,	He office	ad , &c.	Тот	ALS.
MALES.	Per.	Tem.	Per.	Tem.	Per.	Tem.	Per.	Tem.	Per.	Tem.	Per.	Tem.	Per.	Tem.
Principal officers	37	1	19	1	12	-	12	_ 1	16	-	-	-	96	:
Medical and dental staff	56	16	19	1	16	1	16	2	7	-	1	-	115	20
Male nurses, attendants and instructors	18	1	628	12	18	1	63	1	1	-		-	727	15
Clerical staff	73	3	35	1	15		18	3	24	5	120	-	285	1
Engineering staff Motor drivers	157	79	82 5	19	33	11	39 1	4	18 171	17 6	-	-	329 184	130
Porters	312	100	82	12	45	3	39	14			4	=	492	13
Garden and farm staff	28	32	49	9	14	2 17	3			-42			94	19
Others	88	61	130	52	5	11	28	23		42		0	328	130
TOTAL	776	293	1,049	107	158	35	219	63	316	72	132	3	2,650	57:
FEMALES.														
Principal officers	14		6	-	7	-	6	-	-	-	-	-	33	-
Medical staff	24	5		-		1	2 325	3	21	-	-	-	26 3,671	36
Teaching staff	2,276	335	815 46		234 19	8	320	i	- 31		-	-	3,671	-00
Motor drivers	-	-	-	-		-	-	-		-	-	-	-	-
Kitchen staff	163 1,231		35 115		49 151	24	20 198	1 59	49	37	-10	- 6	$271 \\ 1,754$	3 31
Needleroom staff	115		27	4	17	6	26	1	1		- 10	- "	186	7
Laundry staff	269		84	11	31	1	41	6		-	-		425 70	5
Clerical and telephone staff	24	- 7	4	-	2	2	2	1		1	31	1	70	-
TOTAL	4,117	672	1,132	47	510	50	653	79	82	11	41	7	6,535	86
TOTAL MALE AND FEMALE	4,893	965	2,181	154	668	85	872	142	398	83	173	10	9,185	1,43

# Numbers and classification of the staff at the end of the year 1920.

## TABLE V. .

Summary of the main financial statistics of the Metropolitan Asylum District.

#### NOTE.-Unless otherwise stated the following statistics relate to the financial year ended 31 March, 1920.

- The Metropolitan Asylum district is coterminous with that of the metropolitan unions and parishes, *i.e.*, the Metropolis, excluding the Inns of Court (Inner and Middle Temples, Gray's Inn and Lincoln's Inn), which during the continuance of certain payments are regarded as extra parochial.
- The population of the district, as estimated by the Registrar-General at the middle of 1920, was 4,531,971.
- The rateable value of the district was £45,546,751 on the 6 April, 1919, being an increase of £106,752 (0.23 per cent.) during the year then ending.
- The produce of **one penny in the** £ on the rateable value of the district at 6 April, 1919, represents £189,778.
- The precepts levied by the Managers on the constituent parishes and unions of the district for the year work out at 1s. 2<sup>†</sup>d. in the £, and the average for the past five years was 8.7d. in the £.
- The total expenditure out of general account for the year was £2,104,993, and there was no expenditure out of loans in the year.
- The total income on general account for the year was £1,986,652.
- The **rateable value** of the property of the Board is £174,973, and the amount of the **rates** paid last year on the property occupied was £74,700, of which £36,049 was paid to metropolitan authorities, and £38,651 to provincial authorities.

The borrowing powers are limited to one-fifth of the rateable value of the district.

A sanction to borrow an amount of £111,220 was received during the year.

- No amount was borrowed during the year. The total amount borrowed to 31 March, 1920, was £5,814,449. The amount repaid in the year was £260,193, making the total amount of loans discharged £5,134,859.
- The amount of loans outstanding at 31 March, 1920, was £679,590, and works out at £1 9s. 10d. for every £100 of rateable value, and is 3s. per head of the population of the district as estimated by the Registrar-General at the middle of 1920.
- The rates of interest on loans vary from £2 15s. Od. per cent. to £4 5s. Od. per cent. and the average rate of interest at 31 March, 1920, was 31 per cent.

The number of institutions under the control of the Managers is 74 (Table III.).

The average daily number of inmates maintained was, in-

1915	(Year to 30 September)	 		16,295
1916	do.	 		14,514
1917	(Six months to 31 March)	 		13,797
1918	(Year to 31 March)	 	·	13,201
1919	do.	 		12,217
1920	do.	 		13,557

The number of persons in receipt of superannuation allowances at the end of the year was 363, and the superannuation payments, excluding compensation, amounted to £18,029 for the year.

The percentage deductions from the pay of the staff under the Poor Law and Asylum Officers' Superannuation Acts during the year amounted to £18,310, after allowing for contributions refunded.

ear 1918-			
1919.	EXPENDITURE.	0	
£	To Maintenance, &c., of inmates:-	£	
251,265	Provisions, necessaries, clothing, and funerals	317,970	
1,715	Clothing for discharged inmates, expenses of boys going to sea and of children to and from homes, and certification, &c., of imbeciles	1,833	
	or children to and iron nomes, and certification, ac., or moscenes		
252,980			319,
	Salaries, establishment, &c., charges:- Maintenance of officers and servants-		
388,016	Salaries and wages (including allowances) 705,672		
	Pay of employees with H.M. forces, less army		
26,974	pay and allowances 7,504		
109,858	Provisions 153,573		
2,473 12,529	Necessaries 3,402 Uniforms and sundries 22,839		
539,850	Uniforms and sundries 22,839	892,990	
109,000	Buildings and establishment—	002,000	
	WORKS-		
	Wages, £35,064; Contracts and materials,		
30,887	$\pounds 23,445$ 58,509		
	GARDENING-		
5,920	Wages, £9,082; Plants, seeds, &c., £332 9,414		
	FURNITURE- £		
15,145	Furniture and other articles 27,545		
12,732	Bedding and linen 23,352		
3,473 2,049	Earthenware 5,695		
2,040	Hardware 3,394 59,986		
	HEATING, LIGHTING, AND CLEANSING-		
32,425	Wages of engineering staff 53,831		
91,469	Coal and coke 121,939		
	Gas, electric light, water and other		
41,623	supplies 55,397		
	231,167		
25 722		050 050	
235,723		359,076	
66,667	Rates, rent, taxes and insurance	86,033	
17,404	Medicines and medical and surgical appliances	23,451	
	Miscellaneous expenses -		
8,463	Printing, stationery, postage and office expenses 12,672		
	Other charges-running expenses of ambulance		
	vehicles and travelling, Managers' and sundry ex- penses (including Board's contributions under		
25,812	the National Insurance Act, 1911, £1,689) 37,317		
34,275		49,989	
01,210	Sundry general expenses—	10,000	
252,000	Repayment of loans 261,344		
37,861	Interest on loans		
24,106	Pensions, notification fees, law expenses, &c 27,528		
313,967		320,024	
,207,886	Deduct	1,731,563	
11.000	Balances on industrial to accounts 15 594		
11,936	Balances on industrial, &c., accounts 15,594 Services of nurses engaged in ambulance		
8,389	work and fees for hire of ambulances 11,587		
20,325		27,181	
197 504		1 701 000	
,187,561	Expanditure of a available house ter	1,704,382	
22,485	Expenditure of a special character— Buildings—contract and non-contract 53,860		
6,486	Buildings—contract and non-contract 53,860 Furniture, &c 26,948		
0,400	20,940 III III III III III III III		
28,971		80,808	
			and the second
,216,532			1,785,
,469,512	Net total expenditure		2,104,
	Balance carried down, being surplus of receipts over expenditure for ye	ar	
,469,512	building curries downly being outprovide out		£2,104,

£304,56

for year ended 31 March, 1920.

RECEIPTS contributions from parishes and unions in the district (on rateable value), net	£	£ 1,753,672	Year 1918- 1919. £ 1,230,652
Parishes and unions in the district— Amounts recovered in respect of maintenance of inmates in the Board's institutions	14,780		13,580
<b>Grant,</b> being half of net deficiency on main- tenance and treatment of tuberculous pati- ents- £ £ Balance of grant for 1917-1918 — ", 1918-1919 6,261 On account of grant for 1919-1920 16,000 22,261			10,191 15,000 —
	22,261		25,191
Extra metropolitan and other authorities, &c.— For maintenance of inmates in asylums, hos- pitals and schools 75,085 ,, boys on Exmouth 16,540 ,, inmates in sanatoria 58,180			37,893 11,737 35,679
Internit a insulation to add block in bands of bookers to	149,805 10,328		85,309 9,220
Interest on investments and balances in hands of bankers, &c	10,820		9,220
Sundry receipts :       Rents of buildings and land (net) 4,191         Sale of old ambulance vehicles and sundry receipts       10,517         Value of furniture and other stocks transferred       10,517			6,677 5,586
and brought into account during year 2,788 Superannuation contributions 18,310			4,754 9,718
	35,806		26,735
		232,980	160,035
Total income		1,986,652 118,341	1,390,687 78,825

Amount.	Rate in the £		Amount,	Rate in		
	a shere of the second			the £		
£ 372,544	d. 1.97	Impeciles and feeble-minded Infectious sick	£ 519,928	d. 2'74		
402,772 71,263	2.13 0.38	Fever, smallpox, &c.* Tuberculosis* (other than Poor Ambulance service	712,941 153,740	3'76 0'81		
44,584 9,158 37,878	0.23 0.05 0.20	Land River (including wharves) Boys on training ship	69,068 12,392 54,962	0'36 0'06 0'29		
146,679 17,656	0.77 0.09	Children of various classes Casual poor General expenses (including repay- ment of and interest on loans,	187,185 22,821	0'99 0'12		
366,978	1.94	printing, &c., and head office salaries and expenses)	371,956	1'96		
\$1,469,512	7.76	Less-	£2,104,993	11'09		
160,035	0.84	Income other than contributions from parishes and unions	232,980	1'23		
1,309,477	6'92	Net expenditure	£1,872,013	9'86		
* Expend soldiers an	liture on d sailors	maintenance in fever hospitals of dis is included under fever expenditure.	charged tub	erculous		
					£2,104,993	£1,469,51
	372,544 402,772 71,263 44,584 9,158 37,878 146,679 17,656 366,978 \$1,469,512 160,035 7,309,477 * Expend	372,544         1.97           402,772         2.13           71,263         0.38           44,584         0.23           9,158         0.05           37,878         0.20           146,679         0.77           17,656         0.09           366,978         1.94           81,469,512         7.76           160,035         0.84           71,309,477         6.92	372,544       1.97       Imbeciles and feeble-minded         402,772       2.13       Fever, smallpox, &c.*         71,263       0.38       Tuberculosis* (other than Poor Ambulance service— (Law cases)         44,584       0.23       Land         9,158       0.005       River (including wharves)         37,878       0.20       Boys on training ship         146,679       0.77       Children of various classes         17,656       0.09       General expenses (including repayment of and interest on loans, printing, &c., and head office salaries and expenses)         366,978       1.94       Less-         160,035       0.84       From parishes and unions         143,09,477       6.92       Net expenditure	372,544       1.97       Imbeciles and feeble-minded       519,928         402,772       2.13       Fever, smallpox, &c.*       712,941         71,263       0.38       Tuberculosis* (other than Poor Ambulance service— (Law cases) Land       712,941         44,584       0.23       Land       69,068         9,158       0.05       Boys on training ship       69,068         37,878       0.20       Boys on training ship       54,962         146,679       0.77       Children of various classes       187,185         17,656       0.09       General expenses (including repayment of and interest on loans, printing, &c., and head office salaries and expenses)       371,956         160,035       0.84       Less-       1.00 me other than contributions from parishes and unions       232,980         * Expenditure on maintenance in fever hospitals of discharged tub       \$1,872,013	372,544       1.97       Imbeelles and feeble-minded       519,928       2.74         402,772       2.13       Fever, smallpox, &c.*       712,941       3.76         712,963       0.38       Tuberculosis* (other than Poor Ambulance service— (Law cases)       153,740       0.81         44,584       0.23       Land	372,544       1.97       Imbeciles and feeble-minded       519,928       2'74         402,772       2'13       Fever, smallpox, &c.*       712,941       3'76         71,263       0'38       Tuberculosis* (other than Poor Ambulance service— (Law cases)       153,740       0'81         44,584       0'23       Land        69,068       0'81         44,584       0'23       Land        69,068       0'81         519,58       0'05       Boys on training ship        12,392       0'06         37,878       0'20       Boys on training ship        54,962       0'29         146,679       0'77       Children of various classes       187,185       0'99       22,821       0'12         17,656       0'99       Casual poor         371,956       1'96         366,978       1'94       salaries and expenses)        371,956       1'96         160,035       0'84       Less-       Income other than contributions from parishes and unions       232,980       1'23         *Lass-       Net expenditure       £1,872,013       9'86         *Lass-       Net expenditure       £1,872,013       9'86

11 Cr,

£304,561

IABL	a v11.—1	suumce s	1000
LIABILITIES.			
LOAN ACCOUNT.			
Loans.			
Loans outstanding 31 March, 1919		£ 939,783	£
Less instalments of loans repaid during the year		260,193	
Composited and March 1000			070 500
London County Council	£605,460		679,590
Public Works Loan Commissioners	50,130 24,000		
Other mortgagee			
	£679,590		
Balance.		5 194 950	
nstalments repaid		5,134,859 525,702	
			5,660,56
Total on Long Long		-	
Total on Loan Account		±6	3,340,15
GENERAL ACCOUNT. Suspense Adjustment Account.		£	
amounts due for Government Grants and for maintenance and treatment		~	
of inmates, &c., to be credited when received		. 164,925	
Sundry Creditors.			
Gradesmen's accounts and other amounts owing	** **	191,263	
Legacies. Aptain Brown's legacy to the Training Ship (£119), less legal expenses;	£		
with unapplied interest (£7)	122		
Villiam Thomas Farguson's legacy to the Homerton Smallpox Hospital (£100),			
and accumulated income (£68); with unapplied interest (£12)	180		
eorge Dryden's legacy to the Stockwell Smallpox Hospital, less books purchased for hospital ships	117		
George Cook's legacy to Darenth Asylum (£100), less legal expenses; with			
unapplied interest (£12)	85		
Mrs. M. E. Bates' legacy to the Eastern Hospital (£100), less books pur-	109		
chased; with unapplied interest (£8) frs. A. Charlton's legacy (£200) and accumulated income (£23); with	102		
unapplied interest (£18)	241		
<b>Mrs. E. R. Johnson's legacies (<math>\pounds</math>7,000) and accumulated income (<math>\pounds</math>1,013); with</b>	0.050		
unapplied interest (£346)	8,359	9,206	
Students' Fees for Glinical Instruction.		0,=00	
Total at Year to 31 Mar., 31 Mar.,	Total at 31 Mar.,"		
1919. 1920.	1920.		
Less amounts paid to medical superintendents for £28,799 £1,065	£29,864		
clinical instruction 18,076 624	18,700		
£10,723 441	11,164		
Amount transferred re (i) provision of buildings for instruction			
at Park Hospital £1,750, and Grove Hospital £750, (ii)			
Bacteriological Laboratories £5,000, and (iii) expenses on			
reproduction of work, "The Diagnosis of Smallpox" £143	7,643		
		3,521	
Cash,		0,011	
ondon County Westminster and Parr's Bank, Ltd. :	10.001		
Add unpresented cheques	19,621 118,473		
Add unpresented cheques			
Less	138,094		
Cheques drawn in advance for payments for ensuing year. £46,342			
Accounting officers—balances in their hands 10,274	56,616		
		81,478	
Balance.			
		186,220	
Tet credit balance			636.613
Net credit balance Total on General Account Grand Total			636,613 ,976,764

 $\star$  In addition to these figures, large amounts of expenditure of a capital nature

Nore .- The Board's accounts are audited by the District Auditor appointed by the Ministry of Health.

at 31 March, 1920.

exce

#### PROPERTY ASSETS AND CAPITAL OUTLAY.

#### LOAN ACCOUNT. Capital Outlay.

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...

....

Land, buildings, fittings and furniture (original cost)

£ 6,340,151

Total on Loan Account .. £6,340,151 GENERAL ACCOUNT. Stock. Goods at central stores and at the various institutions, including unused railway tickets £ .. .. .. 276,130 and postage stamps .. .. .. .. .. .. Sundry Debtors. Other authorities and sundry debtors ... .. .. 196,713 .. .. .. .. Legacies (Investment Accounts), at cost. Brown's legacy-£104 14s., 31 per cent. stock, London County Council £ (Metropolitan Board of Works) .. .. .. 115 ... .. Farguson's legacy-£173 17s. 2d., consols .. 168 ... ... ... ... Dryden's legacy-£124 3s., consols .. .. .. 114 ... ... ... Cook's legacy-£75 18s. 4d., consols .. .. .. 73 .. .. •• Bates' legacy-£100, 3 per cent. stock, London County Council ... 94 .. Charlton's legacy-.. £202 £277 18s., 21 per cent. stock, Corporation of London £21 15s. 7d., 5 per cent. war stock, 1929/47 .. .. 21 .. 223 Johnson's legacy-£9,984 3s. 9d., 21 per cent. stock, Corporation of London .. £7,264 £787 15s. 7d., 5 per cent. war stock, 1929/47 .. .. .. 749 8.013 8,800 Investments, at cost. £23,750 £25,000 5 per cent. war stock, 1929/47 ... .. .. Less subscribed for by staff ... .. ... 18,686 .. .. 5,064 £150,000 5 per cent. national war bonds, repayable 1 April, 1923 .. .. 149,906 154,970

	636,613
Grand Total	£6,976,764

Treasurer and Accountant to the Board.

14

ANNUAL REPORT, 1920.

Sec. 1		ANNUAL REPORT, 1920.		
	AOTIFICAT OP GRAND T	$\begin{array}{c} 1,18\\ 1,217\\ 1,287\\ 1,289\\ 1,265\\ 2,438\\ 3,080\\ 2,438\\ 3,080\\ 2,438\\ 2,438\\ 3,080\\ 2,438\\ 3,080\\ 2,438\\ 3,080\\ 2,438\\ 3,092\\ 2,496\\ 1,1794\\ 1,1$	11 45,262	
	.IATOT	1022 1022 1022 1022 1022 1022 1022 1022	6,520	* *
DT ERS'	Whooping	······································	1.304	Deptford 51 cases ;
SES N	Pollo- Pollo-		: 12	n Dep
ELE DISEASES NOT E TO THE MANAGERS' HOSPITALS.	-neimonnan-	$\begin{array}{c} 63\\ 493\\ 105\\ 105\\ 105\\ 105\\ 105\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20$	2,112	28 cases : in 9 February, 1
BLE E TO HOSP	Malaria.		595 310	P Fel
NOTIFIABLE ADMISSIBLE TO HOSP	Erysipelas.	81 104 104 104 104 104 104 104 10	01	from 9
IKGV	Encephalitis Lethargica.	0004-000 0400-0 0 :: 00074 04000000044		40 ·
	Dysentery.	: : : : : : : : : : : : : : : : : : :	35	all i 5 yes
	Cholera.		16	der umb
	Anthrax.			Woolwich een under ur, 1 Camb
	Annual rate per 1,000 persons living.		0	cases notified : in Woolwich all th in Fulham (children under 5 year I Finsbury, 1 Poplar, 1 Camberwell
	TOTAL DEATHS.			fied . m (e
ALS.	.xoqliam8	0000000 64-040 04 · 00004 0000-0000004	+ 1:	noti bury
HOSPITALS. DEATHS.	typhoid fever. Scarlet fever.		49 207	
	Enterie or	1000400 F-00400 01-1 10040 F01-00001440		147 1868 ith,
MANAGERS'	Diphtheria (including membranous croup).	0101034000000 91 01034/0 0011-000001-401	1,009	pr 5 years), 147 June, 17 cases Hammersmith,
THE	Annual rate per 1,000 persons living.	9999 1044 1044 1044 1058 1058 1058 1058 1058 1058 1058 1058	8-55	1 29
IBLE TO	TOTAL XOTINICATIONS.	$\begin{array}{c} 1.031\\ 1.657\\ 1.657\\ 364\\ 687\\ 364\\ 687\\ 1.687\\ 1.945\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73$	11 38,772	y (children un months from : cases notified,
MISSIBLE	.xoqliam8	······································	22	y (ch mont
ARE AD	Scarlet fever.	$\begin{smallmatrix} 503\\ 503\\ 727\\ 727\\ 728\\ 120\\ 1,003\\ 1,003\\ 1,003\\ 1,003\\ 1,003\\ 1,003\\ 1,003\\ 1,001\\ 1,003\\ 1,001\\ 1,003\\ 1,001\\ 1,001\\ 1,003\\ 1,001\\ 1,003\\ 1,001\\ 1,003\\ 1,001\\ 1,003\\ 1,003\\ 1,001\\ 1,003\\ 1,0$	22,719	
ICH .s	Relapsing fever.		: 01	from 11 Janu Southwark for Trench fever,
Notifiable diseases which Notifications.	Puerperal fever.	$\begin{smallmatrix} 122\\ 223\\ 224\\ 224\\ 223\\ 224\\ 224\\ 223\\ 224\\ 223\\ 224\\ 224$	451	h fron South
SEAS	Poliomyelitis.	eleden :: elen : : elen : ::elen :::::::	+2	nwich s; in ases.
No No	Ophthalmia neonatorum.	$\begin{smallmatrix} & & & & \\ & & & & \\ & & & & \\ & & & & $	 63 1,186	rth. 1 Gree 3 case ases.
IFIAB	Membranous	H4- 100 1-44 10 1-1 0-00 4 1-0000-111	63	dswo ase it 0, 12 128 c
ION	Enteric fever.	01000000000000000000000000000000000000	394	e dise year May, Greet
	Diphtheria.	$\substack{ \begin{array}{c} 464 \\ 3464 \\ 3483 \\ 3833 \\ 3833 \\ 3833 \\ 326 \\ 1006 \\ 1006 \\ 1006 \\ 1006 \\ 1006 \\ 1006 \\ 1008 \\ 1008 \\ 1008 \\ 1008 \\ 1008 \\ 3019 \\ 3009 \\ 3019 \\ 3009 \\ 3019 \\ 3019 \\ 3019 \\ 3019 \\ 3019 \\ 3019 \\ 3019 \\ 3019 \\ 3014 \\ 1008 \\ 1008 \\ 1008 \\ 3014 \\ 1008 \\ 1$	5 13,734	ch and tifiabl nder 2 n 31 ny in
	Continued fever.		: 10	en un s fron
	Cerebro-spinal meningitis.			a, Gre s was childr nonth
or acre.	Population p	110 110 110 110 110 110 110 110	: 19	ust (c r 4 n filable
.0561 n to	betamtte3 population to elibiar	$\begin{array}{c} 149,673\\ 164,177\\ 156,200\\ 158,621\\ 132,615\\ 132,615\\ 132,615\\ 132,515\\ 225,572\\ 335,907\\ 225,372\\ 335,907\\ 335,907\\ 225,372\\ 335,907\\ 134,447\\ 14471\\ 14,447\\ 114,471\\ 169,766\\ 159,766\\ 159,766\\ 159,766\\ 159,766\\ 159,766\\ 159,766\\ 159,766\\ 159,766\\ 1114,471\\ 224,712\\ 125,189\\ 102,408\\ 102,408\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 1115,636\\ 125,438\\ 125,43$	4.531,971	* Notifiable in Holborn, Greenwich and Wandsworth, DTE.—Zymotic enteritis was a notifiable disease in Greenwich from 11 Januar from 6 August (children under 2 years), 123 cases; in Southwark for 3 in Poplar for 4 months from 31 May, 128 cases. Measles notifiable from 1 July in Greenwich, 31 cases. Trench fever, 4
	Borough in which the cases were resident.	WEST :	Port of London	* Noti Nore

INFECTIOUS DISEASES STATISTICS.

TABLE VIII.—Cases of infectious diseases notified, and deaths therefrom, in London in 1920.





Ages.		CARLET		DIP	HTHER	а.	ENTERIC FEVER.		
	М.	F.	Total.	М.	F.	Total.	М.	F.	Total.
Under 1	 126	77	203	161	120	281			
1 to 2	 269	225	494	279	260	539	1		1
2 ,, 3	 424	375	799	355	334	689	2	1	3
3 " 4	 608	643	1,251	485	472	957	1		1
4 ,, 5	 863	905	1,768	574	564	1,138		2	2
Total under 5	 2,290	2,225	4,515	1,854	1,750	3,604	4	3	7
5 to 10	 4,673	5,645	10,318	2,578	2,944	5,522	15	14	29
10 ,, 15	 2,069	3,099	5,168		1,357		20	20	40
15 " 20	 529	746			515	766	30	38	
20 " 25	 147	411	558	118	440	558	22	42	
25 ,, 30	 96				249		20	30	
30 ,, 35	 83			66	153		9	18	
35 ,, 40	 53	105	158		129	175		16	
40 ,, 45	 27	43			66		14	11	2.
45 " 50	 15				38		17	6	
50 " 55	 4	10		9	30		6	6	
55 " 60	 1	6		4	7	11	6	4	10
Upwards	 1	3	4	7	15	22	3	3	
Unrecorded	 1		1					•••	
Totals	 9,989	12,730	22,719	6,041	7,693	13,734	183	211	39

TABLE IX.-Ages and sex of scarlet fever, diphtheria and enteric fever cases notified, 1920.

TABLE X	Number of	cases of	principal	admissible	diseases noti	fied, 1890	-1920.
---------	-----------	----------	-----------	------------	---------------	------------	--------

	YEARS.	Cerebro- spinal meningitis.	Continued fever.†	Diphtheria.	Enteric.	Ophthalmia neonatorum.	Polio- myelitis.	Puerperal fever,	Relapsing fever.†	Scarlet.	Smallpox.	Typhus.	TOTALS.
Totals for	1890–9		1,302	105,065	33,013				68	212,399	5,971	178	357,996
Yearly average	1890-9		130	10,506	3,301				7	21,240	597	18	35,799
Totals for	1900-9	328	326	86,792	22,073				9	181,443	10,626	88	301,685
Yearly average	1900-9	33	33	8,679	2,207				1	18,144	1,063	9	30,169
Totals for	1910-9	2,452	131	\$\$0,929	6,835	870	927	2,345	4	126,706	172	22	221,393
Yearly Average	1910-9	245	13	\$8,093	683	87	93	234		12,671	17	2	22,140
Totals for	1920	154	5	‡13,797	394	1,186	42	451	2	22,719	22		38,772

† Although relapsing and continued fevers are admissible to the Managers' hospitals, few cases so certified are sent in.
‡ Including cases of membranous croup.

TABLE	XII.—Admissions,	discharges,	and	deaths	at fever	r hospitals
		during 192	20.			

	The second second	B		K HOSPI	TAL.				
		Adm'd	during		Disch.	during	-		
DISBASES.	Re- maining on 31 Dec., 1919.	Direct from homes.	From other Board	Total under treatment during 1920.	Re- cov'd.	To other Board hosps.	Died during 1920.	Mort. per cent.	Re- maining on 31 Dec., 1920.
Cerebro-spinal fever									
Diphtheria	120	770		890		304	67	9.00	171
Diph (bacteriological) Measles	3	74 23		77 23	61 21	7	··· <sub>1</sub>	4.44	9
Puerperal Scarlet fever	·;;	2,669		2,767	$\frac{4}{449}$	1,872	· . 22	:88	
Whooping cough		4		4	2				2
Other diseases	220 13	$3,544 \\ 257$	1	· 3,765 270	885 247	2,183	90 8	$2^{\circ}69$ $3^{\circ}12$	607 15
Totals	233	3,801	1	4,035		includes and a state of the second	98		622
		EAS	TERN	HOSPIT	AL.				
Cerebro-spinal fever				4	1		3	75.00	
Diphtheria	*213	,540	2	1,755 10		588 5	152	100000	i87
Enteric	2 2 12	23 58		25 70	23		15	4·26 7·81	1
Measles	1	2		2	2	1			
Puerperal Scarlet fever	1 122	$15 \\ 1,159$	1	$16 \\ 1,282$	12 360		4 15	25.81 1.35	223
Whooping cough	2	3		5	4		1	25.00	
Other diseases	354 *24	2,812 471		3,169 495	$1,299 \\ 438$	$1,278 \\ 2$	181 19	6·5 4·08	411 36
Totals	378	3,283	3	3,664	1,737	1,280	200		447
		GR	OVE	HOSPITA	L.				
Cerebro-spinal fever									
Diphtheria Diph (bacteriological)	::	719 57		719 57	163 30	276 17	33	5.54	· 247 10
Encephalitis lethargic	a	1		1					1
Measles Puerperal		25		29	24	1		13.79	
Scarlet fever	::	1,783		1,783	176	1,206	18	1.13	383
		2,585	4	2,589	393	1,500	55	2.42	641
Other diseases Totals		2,740		155	116 509	1,500	2	1.46	37 678
		STREET, STREET	COLUMN TWO IS NOT	ERN HO	THE OWNER WHEN				
a	, i							100.00	
Cerebro-spinal fever Diphtheria	i68	1,137	1	1,306	594	270	119	100.00 11.22	323
Diph. (bacteriological) Diphtheria (negative)	2 33	42 322	1	45 355	37 317	3	3	:03	5 35
Measles	6	45	::	51	48		3	6.22	
Puerperal Scarlet fever	370	2,955		3,325	1,160	1,810	26	0.87	329
Whooping cough		6 4,516	2	6 5,097	2,167	2,083		3.43	1 694
Other diseases	10	144		154	143		1	.69	10
Totals	589	4,660	2	5,251		2,083	154		704
	NO	RTH-W	ESTI	ERN HOS	SPITA	L.			
Cerebro-spinal fever	1	1 200		6			2	40.00	1
Diphtheria Diph. (bacteriological)	147 11	1,300 271		282	198		112 7	8.72 2.60	184 15
Encephalitis lethargic Enteric	a4	3 32		3 36					3
Measles	3	63		66	54		7	11.29	2 5
Puerperal	1	3 11		12	8		4	34.78	
Scarlet fever Whooping cough	172 4	1,627	4	1,803 13		1,140	27 1	1.66 9.53	188 1
Other diseases	343	3,324	6	3,673	1,372	1,742	160	4.84	399
Other diseases Totals	46 389	467 3,791	6	513 4,186	469	1,742	12	2.53	32 431
		STREET TRACTOR AND ADDRESS		OSPITAL					
Cerebro eninal fores							-	100.00	
Cerebro-spinal fever Diphtheria	i63	1,177		1,340	674	362	2 97	100-00 8'40	207
Diph. (bacteriological) Measles	··· <sub>2</sub>	47		4 9		4			
Scarlet fever	282	2,078		2,360	842	1,173	29	1-41	316
Whooping cough		3,273		3,720	1,580		128	3.95	
Other diseases	7	159		166	142	. 3	5	3.24	16
Totals	454	3,432		3,886	1,672	1,542	133		539

TABLE	XII.	(continued).	-Admissi	ions, dis	charges,	and	deaths	at
		fever	hospitals	during	1920.			

	50	UTH-E	ASTE	RN HOS	PITAL				
		Adm'd	during		Disch.	during			
	Re-	192		Total	19	Concession in concession of the			Re-
DISEASES.	on	Direct	From	under treatment	Re-	To	Died	Mort. per	maining
	31 Dec.,	from homes.	Board	during	cov'd.	Board	1920.	cent.	31 Dec.,
	. 1919.		hosps.	1920.		hosps.			1920.
Cerebro-spinal fever	1	5		6			4	72.72	
Diphtheria	*170 *1	1,460	2	1,632 119		253 7	105	7°30 0°86	219
Enteric	3	13		16	14		2	13.8	
Measles Puerperal	*3	46 25		49 27	40 13	1	7 12	14.9 48.0	1
Puerperal Scarlet fever	*224	2,291	10	2,525	596	1,633	23	1.01	273
Whooping cough		3	1. Contraction 1.	3	3				
Encephalitis lethargic Para-typhoid	a	1		1	1				
Poliomyelitis		1		1	1				
Other diseases	404 *15	3,963 352		4,380 367	1,833 340	1,894	154 10		499 17
Totals	*419	4,315		4,747	2,173		164		516
	S	OUTH-	WEST	ERN HO	SPIT	AL.			
C. A. andread designs	1		1				10	78-00	
Cerebro-spinal fever Diphtheria	136	$13 \\ 767$		13 903	671	19	10 64	76-92 8-41	149
Diph.(bacteriological)		13		13	10			9.23	
Enteric Measles	9 14	29 92		38 106	33 95	1	6	6.19	3 2 4
Puerperal	3 139	20 1,188		23	21 331		10	4.76	1149
Scarlet fever Whooping cough	139	1,185	2	1,329	331	800	10	28.57	149
	301	2,180	2	2,433	1,168	853	102		310
Other diseases	20 321	235	2	255	214	855	22	9.30	17 327
Totals	9211					0.00	1.04		021
		WES	TERN	HOSPIT	AL.				
Cerebro-spinal fever	2	1 480		4	4	::	100	8.93	
Diphtheria	199	1,462		1,661	811 82	486	129	0.93	235
Enteric	1	12		13	13			17:29	
Measles Puerperal	23	162 21		185 25	151	4	30 5	23.80	4
Scarlet fever	189	1,925	3	2,117	812	1,154	21	1.02	130
Whooping cough	20	65 3,745		4,186	60 1,949	1,655	193	12.03 5.12	17
Other diseases	12	181		4,180	1,945	1,055	193		20
Totals	450	3,926	3	4,379	2,102	1,656	212		409
	J	OYCE	GREE	N HOSP	ITAL.				
Diphtheria	*123	301	718	1,142	1.019		10	0.98	113
Diph. (bacteriological) Measles	1	39 5		66 6	65 6	1			
Scarlet fever.	*575	3,145		5,267	3,923	123		0.37	1,205
au	699	3,490		6,481	5,013	124	26	0.47	1,318
Other diseases Totals	*10 709	169	international design of the local division o	6,602	5,132		28	PROPERTY AND ADDRESS	1.318
Totals	105			and the second second		144			1,010
1		NORT	HERN	HOSPIT	AL.	1		1	
Diphtheria	104		1,143	1,247	1,145	4	1	0.87	97
Diph. (bacteriological) Scarlet fever	i60		$\frac{46}{2,743}$	46 2,903	$\frac{46}{2,683}$	1			219
	264		3,932	4,196	3,874	5	1	0.03	316
Other diseases			2	2	2				
Totals	264		3,934	4,198	3,876	5	1		316
		SOUTI	HERN	HOSPIT	AL.				
Diphtheria	107	3	1,235	1,345	1,204	1	1	0.08	139
Diph.(bacteriological) Measles	6		43	49 3	41				8
Scarlet fever.	469	1	7,327	7,797	6,777	9	··- <sub>1</sub>	0.01	1,010
	582	4	8,608	9,194	8,025	10	2	0.05	1,157
Other diseases Totals	583		8.612	9,199	8,029		2		1
10000 11 111	000		0,012	0,100	0,020	10			1

		SUMI	MARY.				
DISEASES.	Re- maining on 31 Dec., 1919.	Admitted during 1920. Direct from homes.	Total under treatment during 1920.	Discharged during 1920. Recovered.	Died during 1920.	Mort. per cent.	Re- maining on 31 Dec., 1920.
Cerebro-spinal fever Diphtheria Diph. (bacteriological) Diph. (negative)	 4 *1650 *26 33	721	37 12,286 747 355	9,125 682	23 890 8 3	66.67 8.61 1.13 0.93	2,27 5 3
Encephalitis lethargica Enteric	 	526	7 128 589 6	3 117 515 6	 63	$5.17 \\ 11.41$	1
Ponomyentis Puerperal Scarlet fever Whooping cough	 *2,799 26	$     \begin{array}{r}       103 \\       20,821 \\       103     \end{array} $	114 23,620 129	80 18,557 94	$26 \\ 214 \\ 12$	$24.88 \\ 1.08 \\ 11.48$	4,84
Totals Other diseases	 4,631 *158	33,387 2,529	38,018 2,687	29,509 2,386	$1,245 \\ 100$		7,26 20
Grand totals	 4,789	35,916	40,705	31,895	1,345		7,40

TABLE XII. (continued).—Admissions, discharges, and deaths at fever hospitals during 1920.

NOTE.—The mortalities returned as above include all deaths occurring from intercurrent diseases. The mortality rates are calculated according to the Registrar-General's formula—*i.e.*, by dividing the deaths, multiplied by 100, by half the sum of the admissions, discharges, and deaths for the year. \* These figures differ from those given in the Board's report for 1919, pp. 88-90, owing to the subsequent correction of errors of diagnosis.

TABLE	XIII.—Summary	of monthly admissions at fever hospitals	
		during 1920.	

Diseases.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Cerebro-spinal fever. Diphtheria ,, (bact.) ,, (negative) Enteric Measles Poliomyelitis Puerperal Scarlet fever Whooping cough	7 1,224	$780 \\ 64 \\ 13 \\ 19 \\ 106 \\ - \\ 14 \\ 1,072$	$\begin{array}{c} 11\\ 972\\ 70\\ 28\\ 20\\ 85\\ -\\ 10\\ 1,017\\ 13 \end{array}$	3 799 36 16 8 43 2 14 873 7	2767 57 15 6 63 	1 $655$ $45$ $13$ $7$ $54$ $-7$ $1,023$ $7$	$1\\618\\50\\23\\14\\47\\1\\8\\1,199\\6$	$29 \\ 13 \\ 4 \\ 23 \\ 1 \\ 4 \\ 1,436$	$950 \\ 47 \\ 40 \\ 9 \\ 11 \\ 1 \\ 6$	${ \begin{array}{c} 1,230\\ 109\\ 51\\ 8\\ 23\\ 1\\ 6\\ 3,681 \end{array} }$	75 47 2 14 - 3,257	55 25 4 17 6 2,551	
Totals Other diseases	$2,336 \\ 223$	$2,074 \\ 161$					1,967 178						33,380 2,530
Grand totals	2,559	2,235	2,410	1,947	2,059	1,994	2,145	2,336	3,839	5,427	4,907	4,058	35,910









XV. --CHART showing the incidence of SCARLET FEVER, DIPHTHERIA, and ENTERIC FEVER per 1,000 of the population of the Metropolis during each of the twenty vers 1901-1920



				_
	Total Geaths.	3651128828128128128128128282812382828282828	42: 10 1 : 1	1,345
	Other diseases.	-0100 000 :010 0100 010 00 01 - 0 0 + 01 :	:00 : : :	100
	congy. Whooping	- :01 ::01 :::= ::::= :::= :01 :::::::	· · · · · · / ?	12
	fever.	8 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	:	214
	Puerperal.	0 : : : : : : : : : : :		26
DEATHS.	Polio. Polio.	:::::::::::::::::::::::::::::::::::::::	:::::	:
DEA	Measles.	4000000 :: 04 :00 :: 0000 :000 :000 ::	::::::	63
	Enteric.	::-::::::::::::::::::::::::::::::::::::	:::::	9
	Diphtheria (negative).		:::::	00
	Diphtheria (bact.).		:::::	8
	Diphtheria.	$\begin{array}{c} 23\\ 23\\ 24\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25\\ 25$	32:	890
	Cerebro- spinal ferier.	······································	:-:::	23
	.enoissimba	$\begin{array}{c} 957\\ 957\\ 922\\ 1,041\\ 1,460\\ 5266\\ 5338\\ 1,496\\ 5338\\ 1,496\\ 2,574\\ 76\\ 76\\ 76\\ 76\\ 76\\ 76\\ 1,274\\ 1,274\\ 1,246\\ 1,274\\ 1,274\\ 1,274\\ 1,246\\ 1,274\\ 1,274\\ 1,274\\ 1,274\\ 1,246\\ 1,274\\ 1,274\\ 1,274\\ 1,246\\ 1,274\\ 1,274\\ 1,246\\ 1,274\\ 1,274\\ 1,246\\ 1,274\\ 1,274\\ 1,274\\ 1,048\\ 1,276\\ 1$	862 114 20 20	35,916
	fatoT		the second s	
	Other diseases.	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	36 12	2,536
		10004041144 :::001400140191401014	:0101 : :	03
	3ulqoofW			-
	Bever. Bever.	$\begin{array}{c} 460\\ 537\\ 537\\ 633\\ 840\\ 162\\ 162\\ 389\\ 174\\ 176\\ 176\\ 162\\ 906\\ 176\\ 360\\ 37\\ 357\\ 377\\ 477\\ 906\\ 1,10\\ 1,110\\ 1,110\\ 1,125\\ 1,$	429 56 12	20,821
ADMISSIONS.	Puerperal.	3:: 0.1.0.4.0.0.1:::: 1.0.3.0.4.0.1.1.3.2.0.0		103/2
(1881)	myelitis.	****		61
ADM	-oilo4	7225 7255 72555 72555 72555 72555 72555 72555 72555 72555 72555 72555 72	: 8 : : : [3	526
	Measles.			
	Enteric.	094141300410000 :41000010000-90014		103
	D:phtheria (negative).	$\begin{array}{c} 15 \\ 15 \\ 15 \\ 15 \\ 12 \\ 12 \\ 12 \\ 12 \\$	:51 : : : [5]	322
	Diphtheria (bact.),	$\begin{array}{c} 69\\ 288\\ 289\\ 288\\ 289\\ 288\\ 298\\ 208\\ 208\\ 208\\ 208\\ 208\\ 208\\ 208\\ 20$	:::::::::::::::::::::::::::::::::::::::	721
	Diphtheria.	$\begin{array}{c} 283\\ 267\\ 304\\ 111\\ 77\\ 103\\ 103\\ 269\\ 98\\ 98\\ 146\\ 559\\ 566\\ 535\\ 535\\ 266\\ 535\\ 535\\ 266\\ 535\\ 535\\ 266\\ 535\\ 535\\ 266\\ 535\\ 266\\ 535\\ 266\\ 535\\ 266\\ 535\\ 266\\ 535\\ 266\\ 535\\ 266\\ 535\\ 266\\ 535\\ 266\\ 535\\ 266\\ 535\\ 266\\ 535\\ 337\\ 266\\ 535\\ 337\\ 266\\ 535\\ 331\\ 266\\ 535\\ 331\\ 331\\ 332\\ 332\\ 332\\ 332\\ 332\\ 332$	327 22 22 22 22 22	33 10,636 721 322
	Serebro-	-01- ::= := 01-4 ::::::== := 0100 01-4= ::0100	:- : : : : :	33 1
-			:::::	-
		0	Area	
	x	est—Paddington Kensington Fulham Fulham Chelsea Chelsea Chelsea Chelsea Sthmstrad Balington Islington Islington Islington Hampstead Stoke Newington Hankney Hackney Hackney Finsbury City of London Stepney Stepney Poplar Poplar Battersea Wandsworth Lambeth Bernondsey Lambeth Lewisham Woolwich	Port of London Tottenham Beyond Metropolitan Area Local Government Board War Office London County Council	I's
	HO	ston ryle scon son son son son son son son son son s	n politi r Co	TOTALS
	BOROUGHS.	West—Paddington Kensington Hammersmith Fulham Chelsea City of Westmins North—St. Maryleb Hampstead St. Pancras Islington Stoke Newington Hackney Central—Holborn Finsbury City of London East—Shoreditch Bethnal Green Stepney Poplar South—Southwark Bernondsey Lambeth Battersea Wandsworth Camberwell Deptford Greenwich Lewisham	Port of London Tottenham Beyond Metrope Local Governme War Office London County	E
	BO	Pad men men men str str str str str str str str str str	Loi Me Me Oute Cot	
		est-Padding Kensington. Hammersmit Fulham . Ciblesea . City of West orth-St. Ma Hampstead St. Paneras. Islington . Stoke Newin Hackney . Hackney . Hackney . Hackney . City of Lond etc-Shoredit Bethnal Gree Stepney . Poplar . Uambeth . Battersea . Wandsworth . Lewisham .	t of tenh ond ond don	
		West—Paddington Kensington Hammersmith Fulham Chelsea City of Westminster North—St. Marylebone Hampstead St. Pancras Stoke Newington Islington Stoke Newington Stoke Newington Hackney Central—Holborn East—Shoreditch Bethnal Green Stepney Stepney Stepney Stepney Bartersea Vandsworth Deptford Cereenwich Ceresham	Port of Lon Tottenham Beyond Met Local Gover War Office London Cou	
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19

ADXISTORS         DEATHS.         DEATHS.         DEATHS.         Mathematical strategy and strategy a				-
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Anussions.         Dearlies         Manuality press	estin (Regi	Diphtheria.		:
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All.         DEATHS.         DEATHS.         DEATHS.         Maintender           A.B.         Collisity	patien		ng feve	:
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A.B.         ADMISSIONS.           A.B.         ADMISSIONS.           Scanflet         R         Minorial           0.18874         1.00           0.18874         1.00           0.18874         1.00           0.18874         1.00           0.18874         1.00           0.18874         1.00           0.18874         1.00           1.1001         1.00           1.1011         1.100           1.1011         1.100           1.1011         1.100           1.1011         1.100           1.1011         1.100           1.1011         1.100           1.1011         1.100           1.1121         1.100           1.1121         1.100           1.1121         1.100           1.1121         1.100           1.1121         1.1120           1.1121         1.1120           1.1121         1.1120           1.1121         1.1120           1.1121         1.1120           1.1121         1.1120           1.1121         1.1120           1.1220         1.1111           1.1			$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	9,839
A.R.         ADMISSIONS.           0.1874         1.004         1.004         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000         1.001         0.0000		Scarlet.	$\begin{array}{c} 106\\ 6066\\ 637\\ 637\\ 537\\ 5510\\ 5510\\ 5511\\ 5511\\ 5512\\ 5526\\ 552$	187
A.B.         ADMISSIONS.           A.B.         Scatlet.         Diphtheria           0.1874         1,004          1,007           0.1877         9,048          1,007           0.1877         9,048          1,007           0.1877         1,004          1,007           11,208         2,048          1,007           11,208         2,048          1,007           11,208         2,048          1,007           11,201         1,008          1,008           11,201         1,008          1,007           11,201         1,008          1,008           11,201         1,008          1,008           11,201         1,008          1,008           11,201         1,008          1,008           11,201         1,008          1,008           11,201         1,008          1,008           11,201         1,1,098          1,008           11,201         1,1,208         1,018         1,018				53 10
A.R.         A.R.           A.R.         Scarlet. $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 0.1874         1,004 $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 0.1874         1,004 $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 0.1874         1,004 $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 0.1874         17,958         2,003         2,013         2,014 $B_{carlet.}$ $B_{carlet.}$ 11,201         5,202         1,312         5,003         2,003 $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 11,201         5,202         1,312         5,003 $B_{carlet.}$ <		.IntoT		729,2
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AR.         AR.           AR.         Scattlet.         Is.         Scattlet.         Is.           0.1874         1,004 $\cdots$ $1,004$ $\cdots$ $1,001$ 0.1889         9,041 $\cdots$ $1,004$ $\cdots$ $1,001$ 0.1889         17,953         5,262 $1,1014$ $\cdots$ $1,004$ 11,271         3,635 $1,312$ $1,202$ $1,202$ $1,202$ 11,271 $3,635$ $1,312$ $1,202$ $1,202$ $1,202$ 11,271 $3,635$ $1,312$ $1,212$ $6,566$ $1,448$ $1,107$ 11,271 $3,635$ $1,312$ $1,212$ $6,566$ $1,323$ $1,323$ 11,2125 $6,566$ $1,363$ $1,363$ $1,363$ $1,363$ 11,2323 $7,823$ $7,823$ $7,823$ $1,363$ $1,111$ 11,328 $5,313$ $7,823$ $7,823$ $1,112$ $1,223$ 110,3345 $5,314$ $5,3123$ $5,323$ $2,323$		Whooping.	100000000000000000000000000000000000000	6,523
A.R.         A.R.           A.R.         Scarlet. $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 0.1874         1,004 $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 0.1874         1,004 $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 0.1874         1,004 $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 0.1874         17,958         2,003         2,013         2,014 $B_{carlet.}$ $B_{carlet.}$ 11,201         5,202         1,312         5,003         2,003 $B_{carlet.}$ $B_{carlet.}$ $B_{carlet.}$ 11,201         5,202         1,312         5,003 $B_{carlet.}$ <	NS.		234,334,297 1,3451 1,3451 1,3451 1,3451	0,929
AR.         AR.           AR.         Scattlet.         Is.           0.1874         1,004 $1,004$ $1,001$ 0.18894         9,041 $1,004$ $1,004$ $1,001$ 0.18894         17,9593         5,262         1,312 $1,004$ $1,004$ 0.18894         17,9583         17,9583         2,4308 $2,906$ $1,001$ $1,001$ 0.18894         17,9583         2,606         1,312 $1,004$ $1,004$ $1,012$ 0.18894         17,9583         2,606         1,312 $1,012$ $1,001$ $1,012$ 11,271         3,6355         1,312 $1,012$ $1,012$ $1,012$ $1,012$ 11,271         3,6355         1,312 $1,012$ $1,012$ $1,012$ 11,271         3,6355         1,312 $1,122$ $1,122$ $1,122$ 11,255         6,566 $5,5334$ $2,418$ $1,222$ $1,232$ 110,234 $5,0128$ $5,634$ $2,222$ $2,222$ $2,222$ 110,249	IOISS	Enteric.	$\begin{array}{c} 0.06\\ 1.157\\ 758\\ 8.828\\ 8.828\\ 6.64\\ 1.157\\ 756\\ 6.64\\ 1.129\\ 6.600\\ 6.600\\ 6.600\\ 6.611\\ 7.728\\ 8.664\\ 7.728\\ 8.664\\ 7.728\\ 8.664\\ 7.728\\ 8.664\\ 1.129\\ 8.661\\ 1.129\\ 8.661\\ 1.129\\ 8.661\\ 1.120\\ 1.120\\ 8.661\\ 1.120\\ 1.$	,226 1
A.R.         A.R.           A.R.         Scattlet         Diphtheria           0.1874         1,004         18.1,004           0.1884         9,041         0.1884           0.1884         17,950         4,480           0.1884         17,950         4,480           11,5043         7,652         1,312           11,5043         7,653         1,312           11,5043         7,653         2,506           11,5043         7,653         2,506           11,5043         7,653         2,503           11,5543         7,653         2,504           11,5543         7,653         2,504           11,5543         7,652         1,312           11,5543         7,653         2,518           11,553         5,576         5,764           15,010         6,591         5,776           15,010         5,074         5,993           15,014         6,591         5,714           15,0197         6,591         5,714           5,0514         6,776         5,993           15,0197         6,591         5,744           15,0197         6,776         5,756	ADM	Typhus.	10001 0001 0001 0001 0001 0000 0000 00	
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#### TABLE XIX.

1

#### Smallpox Statistics.—Condition as to vaccination of patients admitted suffering from smallpox during the year 1920.

			Admissions.	Deaths.	Mortality per cent.
A. Vaccinated class A 1. Half and u total are A 2. One-third, A 3. Less than o A 4. Area not re	pwards of half a of cicatrices but less than ha me-third ditto		19 5 4		
Total of vaccinate B. Doubtful class C. Unvaccinated class			29 3 18	• 3 1 3	10:34 33:33 16:66
	T j	otals	50	7	14.00

TABLE XX. Smallpox Statistics.—Admissions, deaths, and mortality per cent. of smallpox patients since 1 December, 1870, together with the annual mortality per 1,000 persons living of the population of the metropolis from smallpox. (Registrar-General's returns.)

YEAR.	ADM	188101	NS.	D	EATHS	3.	Mortality per cent. of patients treated in Managers' hospitals.	Total annual mortality per 1,000 of estimated population.
	Smallpox.	Other diseases.	Total.	Smallpox.	Other diseases.	Total.	Smallpox.	Smallpox.
1 Dec., 1870, to 3 Feb., }	• 582		582	97		97	20*8	
1871-2 (4 Feb., 1871, to 31 January, 1872)	13,139	6	13,145	2,460		2,460	18.9	2.42
1872-3 (year ended 31 Jan., 1873)	2,359	3	2,362	467	1	468	17.8	0.24
1873-4 (year ended 31 Jan., 1874)	174	17	191	35	í	35 )	(	0.03
1874 (11 months ended ) 31 Dec.)	112	8	120	10		10 {	17.0 }	0.05
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 89\\ 2,134\\ 6,516\\ 4,558\\ 1,628\\ 1,982\\ 8,551\\ 1,799\\ 598\\ 6,363\\ 6,146\\ 62\\ 55\\ 223\\ 2,376\\ 1,117\\ 941\\ 190\\ 700\\ 55\\ 1,88\\ 666\\ 1,743\\ 7,916\\ 355\\ 449\\ 533\\ 277\\ 2\\ 1\\ 15\\ 5\\ 70\end{array}$	$\begin{array}{c} 22\\ 16\\ 104\\ 96\\ 60\\ 55\\ 28\\ 204\\ 198\\ 33\\ 3\\ 5\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\$	33 15 4 28	372 $1,214$ $824$ $273$ $286$ $1,417$ $260$ $93$ $940$ $1,052$ $22$ $23$ $8$ $$ $3$ $35$ $1800$ $102$ $64$ $9$ $133$ $2577$ $1,337$ $1,2277$ $8$ $$ $277$ $8$ $$ $277$ $8$ $$ $277$ $27$		93 943 1,055 24 3 8  3 8 35 182 109 65 10 14  3 3 200 1,342 13 27 9 	$\begin{array}{c} 21.6\\ 17.9\\ 18.0\\ 15.7\\ 15.9\\ 16.6\\ 13.0\\ 16.1\\ 16.0\\ 15.8\\ 14.3\\ 11.3\\ 7.6\\ 8.9\\ 6.4\\ 7.3\\ 18.5\\ 16.6\\ 5.4\\ 5.4\\ 15.7\\ \end{array}$	0.01 0.21 0.71 0.39 0.12 0.62 0.11 0.031 0.36 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 1 1	5 8 7	10	::		1	25.0	
1915 1916	11	14	12 5	2		2	18.2	
1917 1918	45	8	3 53					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	25 50	6 4	31 54	4		4 7	16.0 14.0	0.00
Totals	72,920	2,489	75,409	11,943	70	12,013		

#### TUBERCULOSIS STATISTICS.

 
 TABLE XXI.—Admissions (classified), discharges and deaths of tuberculous patients during 1920.

			COLIN	DALE	HOSP	ITAL.					
Admissions.	(Turb	"Stage an-Gerhi	ardt).	Total.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total Admissions.	Discharges.	Deaths.	Remaining 31 Dec., 1920.
	I.	II.	III.		Dia	Dia	Tube othe puln	Adn	Disc	Ď	Ren 31
Age Groups. Under 16 years From 16 to 20 years , 20 , 25 , , 25 , 30 , , 30 , 35 , , 35 , 40 , , 40 , 45 , , 0ver 50	Not noted.	Not noted.	Not noted.		 1  1		· · · · · · · · · · · · · · · · · · ·	1 53 59 69 73 92 93 92 111	1 18 30 34 44 39 45 24 43	$     \begin{array}{c}             112 \\             119 \\             114 \\             8 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             226 \\             229 \\             229 \\           $	$23 \\ 10 \\ 21 \\ 24 \\ 26 \\ 42 \\ 39$
Totals					2			643	278	159	206
		+	H	IGH V	vood.						
Under 16 years	120	8	124	252	67	1	49	369	211	1	272
Totals	120	8	124	252	67	1	49	369	211	1	272
			1	HILLFI	ELD.						
Under 16 years	19	7	5	31	43			74	149	2	41
Totals	19	7	5	31	43			74	149	2	41
	1	NORTH	IERN	HOSP	ITAL (	PART	0F).				
Age Groups.           Under 16 years            From 16 to 20 years            ,, 20, 25,            ,, 25, .30,            ,, 30, .35,            ,, 35, .40,            ,, 45, .50,            Over 50	$25 \\ 41 \\ 37 \\ 43 \\ 35 \\ 18 \\ 10 \\ 8 \\ 5$	46     46     50     39     30     23     18     6     5	$39 \\ 67 \\ 54 \\ 44 \\ 41 \\ 52 \\ 25 \\ 12 \\ 6$	$110 \\ 154 \\ 141 \\ 126 \\ 106 \\ 93 \\ 53 \\ 26 \\ 16$	4    1		3 2 1 	$117 \\ 156 \\ 144 \\ 127 \\ 106 \\ 93 \\ 53 \\ 26 \\ 17$	784	1 16 7 4 2 4 4 4 	237
Totals	222	263	340	825	6		8	839	784	38	237
			PAR	K HOS	SPITAL						
Age Groups. From 20 to 25 years ,, 25 ,, 30 ,, ,, 30 ,, 35 ,, ,, 35 ,, 40 ,, ,, 40 ,, 45 ,, ,, 45 ,, 50 ,, Over 50			57 36 41 27 30 18 10 219	57 36 41 27 30 18 10 219				57 36 41 27 30 18 10 219	28 28 17 19 21 14 14 14	$21 \\ 11 \\ 13 \\ 14 \\ 13 \\ 9 \\ 2 \\ 83$	11 7 8 4 3 1 1 37

\* The " Astor " classification in each case will be 1 higher.

		PI	NEWO	DD SA	NATO	RIUM.					
Admissions.		*Stage an-Gerh:		Total.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total Admissions.	Discharges.	Deaths.	Remaining 31 Dec., 1920.
	I.	п.	III.		- 8	I	Ducto	Y	A		#**
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17 37 22 14 19 9 3 	$15 \\ 9 \\ 9 \\ 6 \\ 2 \\ 10 \\ 3 \\ 1$	 2 3 3 5 1 1 	32 48 34 23 26 20 7 1	 2 1  1  1 		1 	33 50 36 23 27 20 8 1	$29 \\ 44 \\ 32 \\ 28 \\ 25 \\ 23 \\ 5 \\ 2$		$11 \\ 19 \\ 12 \\ 7 \\ 6 \\ 4 \\ 4 \\$
Totals	121	55	15	191	5		. 2	198	188		63
		QU		ARY'S	5 HO	SPITA	L.				
Under 16 years				87			359	446	286	48	547
Totals				87			359	446	286	48	547
			ST. Q	EORGI	E'S H	OME.					
$\begin{array}{ccccccc} Age \ Groups.\\ Under 16 \ years & \dots\\ From 16 \ to 20 \ years \\ 20 \ , 25 \ , 30 \ , \dots\\ , 25 \ , 30 \ , 35 \ , \dots\\ , 30 \ , 35 \ , 40 \ , \dots\\ , 40 \ , 45 \ , 50 \ , \dots\\ Over 50 \ & \dots\end{array}$	 1 3  1  1	1 6 8 9 1 5 7 2 1	14 10 9	$9 \\ 15 \\ 25 \\ 19 \\ 11 \\ 14 \\ 14 \\ 8 \\ 4$	2  1 1 1 1 1 1 2		 1 	$13 \\ 15 \\ 25 \\ 20 \\ 13 \\ 15 \\ 15 \\ 8 \\ 6$		9991214109653	6 4 9 8 4 6 4 2 2
Totals	7	40	72	119	8	3 1	2	130	51	77	45
		50	UTH-EA	STER	N HO	SPITA	L.				
Age Groups. From 16 to 20 years , 20 , 25 , , 25 , 30 , , 30 , 35 , , 35 , 40 , , 40 , 45 , , 45 , 50 , Over 50	 1 1 1  	2	21 20 12 22 19 5 5	$2 \\ 23 \\ 22 \\ 15 \\ 23 \\ 21 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ $		l   	. 1	2 25 22 15 23 21 5 5	10 8 13 8 3 3 3	13 11 8 7 11 3 1	6 4 8 10 1 3
Totals	3	7	106	116	1	I	. 1	118	64	54	36

TABLE XXI. (continued).—Admissions (classified), discharges and deaths of tuberculous patients during 1920.

\* The "Astor" classification in each case will be 1 higher.

			THE I	DOWNS	5 SAN	ATORI	UM.				
Admissions.	(Turba	*Stage in-Gerha	ardt):	Total.	Diagnosis not confirmed:	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total Admissions.	Discharges.	Deaths.	Remaining 31 Dec 1920.
	I:	II.	ш.	T	Dif	Dia	Tub otho puln	Adh	Disc	Ă	31 31
Age Groups.           Under 16 years            From 16 to 20 years            , 20 ,, 25 ,,            , 25 ., 30 ,,            , 30 ., 35 ,,            , 35 ., 40 ,,            , 40 ,, 45 ,,            Over 50	 26 31 28 25 26 13 10 6 165	1 38 42 53 56 43 34 22 24 313	2 87 96 81 82 96 73 69 55 641	3 151 169 162 163 165 120 101 85 1,119	 8 3 8 2 2 5 3 3 2 3 3		 4 3 1 1 1 1 1 1 1 1 5	3 163 175 173 168 169 129 105 88 1,173	 139 176 190 172 167 142 93 80 1,159	 5 8 6 4 6 4 3 2 38	$3 \\ 60 \\ 26 \\ 18 \\ 25 \\ 39 \\ 13 \\ 24 \\ 20 \\ 228$
			WEST		HOSPI	TAL.			- 1		
Age Groups. From 20 to 25 years ,, 25 ,, 30 ,, , 30 ,, 35 ,, ,, 35 ,, 40 ,, ,, 40 ,, 45 ,, ,, 45 ,, 50 ,, Over 50								11 8 11 7 11 3 3	8 5 9 6 7 2 2		2 2 2 2 2 4 
Totals		·						54	39	. 22	12

TABLE XXI. (continued).—Admissions (classified), discharges and deaths of tuberculous patients during 1920.

\* The "Astor" classification in each case will be 1 higher.

			CO	LINDAL	E HO	SPITA	L.				
				(Turba	Stage n Gerhi	urdt).	Total,	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total discharges.
				I.	п.	ш.	Ţ	Dia	Dia	Tube othe pulm	T
Much improved				No	t not	ed	8				
Improved				No			163	2			16
In statu quo				No			79				1
Worse				No	t not	ed	26		• • • •		5
Total dis	charges						276	2			2'
				HIGH	woo	)D.					
Much improved				25	4	21	50	21		4	
Improved				36	1	35	72	36		5	1
In statu quo				3		4	7	9		1	1
Worse		•••				5	5	1			
Total dis	charges			64	5	65	134	67		10	+2
				MILI	FIEL	D.					
Much improved Improved In statu quo Worse				40 8 1	6 8 2 1	 4 4 2	46 20 7 3	69 3 1			
Improved In statu quo Worse	 	 		40 8	6 8 2	4	20 7	3 1		 	:
Improved In statu quo	 			40 8 1  49	6 8 2 1 17	 4 4 2	20 7 3 76	3 1  73			:
Improved In statu quo Worse Total dis	  charges	  NOF	  	40 8 1  49	6 8 2 1 17 <b>SPIT</b>	 4 4 2 10 AL (PA	20 7 3 76 RT 0	3 1  73 F).			14
Improved In statu quo Worse Total dis Much improved	 charges	 	  RTHE	40 8 1  49 RN HO	6 8 2 1 17 <b>SPIT</b> / 80	 4 4 2 10	20 7 3 76	3 1  73			1.
Improved In statu quo Worse Total dis Much improved Improved	  charges	  NOF	  	40 8 1  49 RN HO 51	6 8 2 1 17 <b>SPIT</b>	 4 4 2 10 <b>AL (PA</b> 67 158 52	20 7 3 76 <b>RT 0</b> 198	3 1 73 F).			14 20 42
Improved In statu quo Worse Total dis Much improved	 charges	 NOF	  RTHEI	40 8 1  49 RN HO 51 138	6 8 2 1 17 <b>SPIT</b> 80 128	 4 4 2 10 <b>AL (PA</b> 67 158	20 7 3 76 <b>RT 0</b> 198 424	3 1 73 F).		   3 1	1. 20 42
Improved In statu quo Worse Total dis Much improved Improved In statu quo	 charges	 NOF	  RTHEI	40 8 1  49 RN HO 51 138 17	6 8 2 1 17 <b>SPIT</b> 80 128 21	 4 4 2 10 <b>AL (PA</b> 67 158 52	20 7 3 76 .RT 0 198 424 90	3 1  73 F). 4 4 1 		   3 1 2	14 20 42
Improved In statu quo Worse Total dis Much improved Improved In statu quo Worse	 charges	 NOF	  	40 8 1  49 RN HO 51 138 17 4	6 8 2 1 17 <b>SPIT/</b> 80 128 21 10 239	 4 4 2 10 <b>AL (PA</b> 67 158 52 43 320	20 7 3 76 .RT 0 198 424 90 57	3 1  73 F). 4 4 1 		  3 1 2 	20 42
Improved In statu quo Worse Total dis Much improved Improved In statu quo Worse Total dis	 charges	 NOF	  	40 8 1  49 RN HO 51 138 17 4 210	6 8 2 1 17 <b>SPIT/</b> 80 128 21 10 239	 4 4 2 10 <b>AL (PA</b> 67 158 52 43 320	20 7 3 76 .RT 0 198 424 90 57	3 1  73 F). 4 4 1 		  3 1 2  6	14 20 45 45 45 45 45 45 45 45 45 45 45 45 45
Improved In statu quo Worse Total dis Much improved In statu quo Worse Total dis Much improved Improved	 charges	NOF	    	40 8 1  49 RN HO 51 138 17 4 210 PARK I	6 8 2 1 17 <b>SPIT/</b> <b>SPIT/</b> 80 128 21 10 239 HOSP	4 4 2 10 AL (PA 67 158 52 43 320 ITAL. 24	20 7 3 76 <b>ART 0</b> 198 424 90 57 769 769	3 1  73 F). 4 4 1  9		  3 1 2 	14 20 45 45 45 45 45 45 45 45 45 45 45 45 45
Improved In statu quo Worse Total dis Much improved Improved In statu quo Worse Total dis Much improved Improved In statu quo	 charges	NOF		40 8 1  49 RN HO 51 138 17 4 210 PARK I 	6 8 2 1 17 <b>SPIT/</b> <b>SPIT/</b> 80 128 21 10 239 HOSP	 4 4 2 10 <b>AL (PA</b> 67 158 52 43 320 <b>ITAL.</b>  24 28	20 7 3 76 <b>ART 0</b> 198 424 90 57 769 769	3 1  73 <b>F).</b> 9		  3 1 2  6	111 20 45 45 45 45 45 45 45 45 45 45 45 45 45
Improved In statu quo Worse Total dis Much improved In statu quo Worse Total dis Much improved Improved	charges	NOF		40 8 1  49 RN HO 51 138 17 4 210 PARK I 	6 8 2 1 17 <b>SPIT/</b> <b>SPIT/</b> 80 128 21 10 239 HOSP	4 4 2 10 AL (PA 67 158 52 43 320 ITAL. 24	20 7 3 76 <b>ART 0</b> 198 424 90 57 769 769	3 1  73 <b>F).</b> 9		  3 1 2  6	14 20 45 45 45 45 45 45 45 45 45 45 45 45 45

#### TABLE XXII.—Discharges of tuberculous patients during 1920, classified as to condition.

\* The "Astor" classification in each case will be 1 higher. † Of the above total 10 patients remained under treatment less than 4 weeks. ‡ Of the above total 63 patients remained under treatment less than 4 weeks.

		PIN	EWOO	D.					
			* Stage an Gerha	rdt).	Total.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total discharges.
		I.	п.	ш.	T	Diat	Diag	Tube othe pulm	dise
Much improved		49	23	7	79	1		1	8
Improved		54	16	9	79	4		1	8
In statu quo		15	3	5	23				2
Worse								••••	
Total discharges		118	42	21	181	5		2	18
	QUEEI	N MA	RY'S	HOSP	ITAL.				
Much improved					68			173	24
Improved								23	2
In statu quo					- 6			6	1
Worse					6			4	]
Total discharges		'			80			206	†28
	ST.	GEO	RGE'S	ном	IE.				
Much improved			3		3		1	1	
Improved		3	6	5	14	2 3	1		1
In statu quo Worse		3	11	8	22 3			1	2
			-						
Total discharges	·	6	23	13	42	5	2	2	‡8
	SOUTH	I-EAS	TERN	HOS	PITAL.				
Much improved								1	
Improved			$\frac{2}{3}$	$\frac{8}{42}$	10				1
In statu quo Worse			1000	42	48 4	1			4
Total discharges	–	3		54	62				§6
								1	30
	THE C	JOWN	IS SAI	AIUI	NIUM.		1	1	
Much improved		42	65	54	161	4		1	16
Improved		106	192	305	603	20		7	63
In statu quo Worse		37	78 2	$\frac{210}{17}$	$\frac{325}{19}$	9	7	2	34
Worse			-	17	19		••••	1	2
Total discharges		185	337	586	1,108	33	7	17535	1,15

TABLE XXII. (continued).—Discharges of tuberculous patients during 1920, classified as to condition.

The "Astor" classification in each case will be 1 higher.
f Of the above total 5 patients remained under treatment less than 4 weeks.
g Of the above total 11 patients remained under treatment less than 4 weeks.
g Of the above total 15 patients remained under treatment less than 4 weeks.
f Of the above total 121 patients remained under treatment less than 4 weeks.

			, (Turb <b>a</b> i	*Stage 1-Gerha	ardt).	Total.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total deaths.
		-	I.	II.	ш.	F	Diag	Diag	Tuberc other pulmo	- 6
Colindale Hospital	 									15
High Wood	 								1	
Millfield	 			1	1	2				
Northern Hospital (part			1	2	35	38				3
Park Hospital	 				83	83				8
Pinewood Sanatorium	 					1				
Queen Mary's Hospital	 		Not	rec	orded	20			28	4
St. George's Home	 			14	62	76		1		7
South-Eastern Hospital	 				54	54				5
Downs Sanatorium	 			4	34	38				3
Western Hospital	 		Not	rec	orded	22				2

TABLE XXIII.—Deaths of tuberculous patients during 1920.

TABLE XXIII. (continued).—Numbers of tuberculous patients remaining31 December, 1920.

			1					-	Total.
Colindale Hospital		 							206
High Wood		 98	3	104	205	26	1	40	272
Millfield		 14	14	7	35	6			41
Northern Hospital (part	of)	 37	67	126	230			7	237
Park Hospital		 		37	37				37
Pinewood Sanatorium		 40	21	2	63				63
Queen Mary's Hospital		 			107			440	547
St. George's Home		 4	21	15	40	3		2	45
South-Eastern Hospital		 	2	34	36				36
Downs Sanatorium		 26	45	147	218	6		4	228
Western Hospital		 Not	reco	rded					12

\* The "Astor " classification in each case will be 1 higher.

,

	CO	LINDA	LE HO	SPIT	<b>AL.</b>				
	(Turb	*Stage an Gerh	ardt).	Total.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total discharges.	Total deaths.
	I.	п.	III.	T	Dis	Dle	Tube otho pubi	Dsib	гą
Tubercle bacilli foundTubercle bacilli not foundNo expectorationNot examined	Not	noted		No No No	record record 2 record		•	2	
Totals					2			2	
	-	HIGH	4 WO	DD.					
Tubercle bacilli found Tubercle bacilli not found No expectoration Not examined	 3 60 1	 5 	$7\\ 8\\ 46\\ 4$	7 11 111 5	 3 63 1	···· ···	 10 	$7\\14\\184\\6$	 
Totals	64	5	65	134	57		10	211	1
		MII	LEFIEL	.D.					
Tubercle bacilli found Tubercle bacilli not found No expectoration Not examined Totals	1  48  49	 2 15  17	 10  10	1 2 73  76					 1 1 
								J	
H	DRTH	ERNH	IOSPIT	TAL (;	part of)		1	1	
Tubercle bacilli found Tubercle bacilli not found No expectoration Not examined	29 86 <sup>(1)</sup> 95 	77 <sup>(1)</sup> 78 <sup>(1)</sup> 84 	191 <sup>(32)</sup> 59 <sup>(2)</sup> 70 <sup>(1)</sup>	297 223 249	1	···· ··· ···	2 4	297 226 261	33 4 1
Totals	<b>210</b> <sup>(1)</sup>	239(2)	320(35)	769	9		6	784	38
	1	PARK	HOSP	TAL.					
Tubercle bacilli found Tubercle bacilli not found No expectoration Not examined			179 33  12	179 33  12				179 33 	  12
Totals			224	224				212	12

TABLE XXIV.—Discharges and deaths of tuberculous patients during 1920, classified on examination of sputum.

"The "Astor" classification in each case will be 1 higher.

		PIN	EWOOI	<b>)</b> .					
	(Turb	* Stage an Gerh	ardt).	Total.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total discharges.	Total deaths.
	L	II.	III.	Te	Diag	Dia, 1 ascer	Tube othe puln	discl	de
Tubercle bacilli found Tubercle bacilli not found	44 68	17 22	16 3	77 93	 5		2	77 100	
No expectoration	6			9				9	
Not examined			2	2				2	
Totals	118	42	21	181	5		2	188	
	QUEEN	MAR	Y'S H	IOSPI	TAL.				
Tubercle bacilli found				20					1
Tubercle bacilli not found				35 25					
No expectoration Not examined				20					
Totals				80					2
	ST.	GEO	RGE'S	ном	E.				
Not examined								51	7
Totals			·					51	7
	SOUTI	H-EAS	TERN	HOSE	PITAL.				
Tubercle bacilli found		1	40	41				41	4
Tubercle bacilli not found	2	4	8	14	1		1	16	
No expectoration Not examined			$\frac{1}{5}$	1 6				1 6	
Totals	3		54	62				64	
			SANAT						
Tubercle bacilli found	63	186	461	710				710	:
Tubercle bacilli not found	112	140	108	360	26		6	392	
No expectoration Not examined	6 4	2 9	6 11	14 24			5	24 33	

TABLE XXIV. (continued).—Discharges and deaths of tuberculous patients during 1920, classified on examination of sputum.

The "Astor" classification in each case will be 1 higher,

COL	LINDAL	E HO	SPITA	L.				
	(Turba	* Stage an Gerh	ardt).	Total.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total discharges.
	I.	II.	III.	Ĩ	Dia	Dia	Tube	Tdisc
Period of treatment expired		ot not						
Against advice		ot not ot not		255 9				21
Misconduct Contagious disease								
Transferred to other institutions				12	2			1
Totals				276	2			27
	HIG	H WO	00.					
Period of treatment expired	41	4	37		48		5	13
Against advice Misconduct	11 2	1	12		9		3	:
Misconduct Contagious disease*	6		7		 6		2	:
Transferred to other institutions	4		9		4			
Totals	64	5	65		67		10	2
	MIL	LFIEL	D,					
Period of treatment expired	27	6 1		33 3				
Against advice Misconduct	2 9	2	2	13	11			
Contagious disease	7 5	$\frac{2}{4}$	2 2 6	13				
Fransferred to other institutions	5	3	6	14				
Totals	50	16	10	76	73			1
NORTHE	RN HO	SPIT	L (PA	RT O	<b>F</b> ).			
Period of treatment expired	193	225		717			6	7
Against advice Misconduct	17	14	12	43				
Contagious disease								
Fransferred to other institutions			9	9				
Totals	210	239	320	769	9		6	7
	PARK	HOSP	ITAL.					
Period of treatment expired		· 	50					
Against advice			88					
Misconduct Contagious disease			2					
	1 232.3					1.000	1 1/15	
Fransferred to other institutions			1					1

TABLE XXV.—Reasons for discharge of tuberculous patients 1920.

"The "Astor" classification in each case will be 1 higher.

.

	1	PINE	<b>w</b> 00	D,					
	(T	* S urban	stage Gerhs	urdt).	Total.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total discharged.
	I.	.   1	п.	ш.	Ĕ	Diat	Diat	Tube othe	T
		94	35	15	144	5		2	15
Mf. 1. d		11	2	2	15				1
Contonious Jinesso		6	1		7				
Transferred to other institutions		7	3	4	14				1
Totals .	1	118	42	21	181	5		2	18
QUI	EEN I	WARY	"S	HOSPI	TAL.				
					70			176	24
Manualization					5			9	]
Contaciona diasano '									i
Transferred to other institutions					4		•	12	i
Totals .					80			206	28
S	T. GI	EORG	E'S	HOME	ε.				
A A share had a share			$\frac{6}{13}$	$1 \\ 12$	7 28	3		2	13
Misconduct									
Contagious disease Transferred to other institutions		3	 4		7	1	2		i
Totals .		6	23	13	42	5	2	2	t
			DM	HOSPI	TAL.				
SOL	JTH-E	ASTE	nn						
Period of treatment expired .		ASTE				•			4
Period of treatment expired . Against advice						·			
Period of treatment expired . Against advice Misconduct				 3	 3	·			
Period of treatment expired . Against advice Misconduct Contagious disease						·			•
Period of treatment expired Against advice Misconduct Contagious disease Transferred to other institutions				3	 3 	` 	 		·
Period of treatment expired . Against advice Misconduct Contagious disease Transferred to other institutions Totals .			  3 3	3 .15	 3 18 21	·  	 	  1	. i
Period of treatment expired Against advice Misconduct Contagious disease Transferred to other institutions Totals THE Period of treatment expired .	E DO		  3 3 SAR 229	3 15 18 AATOR 373	 3 18 21 IUM. 725			  1 1	
Period of treatment expired Against advice Misconduct Contagious disease Transferred to other institutions Totals The Period of treatment expired Against advice	E DO	   wns 123 47	 3 3 SAN 229 75	3 15 18 AATOR 373 102	3 18 21 IUM. 725 224	25 4		  1	1 ( 71 2:
Period of treatment expired Against advice Misconduct Contagious disease Transferred to other institutions Totals Period of treatment expired Against advice Misconduct	E DO	    WNS 123 47 6	  3 3 3 <b>SAR</b> 229 75 11	3 .15 18 ATOR 373 102 23	 3 18 21 10M. 725 224 40	25 4	    	 1 1 4 5 	1 ( 71 2:
Period of treatment expired Against advice Misconduct Contagious disease Transferred to other institutions Totals Period of treatment expired Against advice	E DO	   wns 123 47	 3 3 SAN 229 75	3 15 18 AATOR 373 102	3 18 21 IUM. 725 224	25 4		 1 1 4 5	4 1 6 78 23 4 15

TABLE XXV. (continued).—Reasons for discharge of tuberculous patients 1920.

\* The "Astor" classification in each case will be 1 higher.

TABLE XXVI.—Capacity for work of tuberculous patients on discharge, 1920.

		COLI	NDAL	E HO	SPITA	L.				
				*Stage an-Gerh	ardt)	Totals.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tubeculous other than pulmonary.	Total discharges,
			I.	п.	ш.	I	Dia	Dia	Tul	disc
Fit for work			No		ed					
Fit for light work			No			4				4
Unfit for any work Fit for school			No			272 school	2 age			274
Totals		-				276				278
			HIGH	I WOO			-			
			mor	i wot			1			
Fit for work										
Fit for light work Unfit for any work			1	1	4	6	2			8
Fit for school			42	3	21	66	52		3	121
Totals			43	4	25	72	54		3	129
			MIL	LFIEL	.D.					
Fit for work										
Fit for light work			1			1				1
Unfit for any work Fit for school			47	1	2	4	3			1.7
				16	10	73	68			141
Totals			49	17	12	78	71			149
	N	ORTHE	RN H	OSPIT	AL (p	art of)				_
Fit for work			21	13		34				34
Fit for light work			119	112	76		1		2 2	310
Unfit for any work Fit for school			46 24	- 80 34	213 31	339 89	4		$\frac{2}{2}$	345 95
Totala			210	239	320					
TOTAIN						769	9		6	784
		1	PIR	EWOO						
Fit for work			31	6		37	3			40
Fit for light work Unfit for any work			63 24	20 16	7 14	90 54	2		2	92 56
Fit for school										
Totals			118	42	21	181	5		2	188
		QUEEN	MAR	Y'S H	IOSPI	TAL.				
Fit for work										
Fit for light work										
Unfit for any work						9			10	19
Fit for school						71			196	267
Totals										286

\* The "Astor" classification in each case will be 1 higher.

		ST.	GEOR	IGE'S	HOME	Ε.				
			(Turba	Stage an-Gerha	urdt)	Totals.	Diagnosis not confirmed.	Diagnosis not ascertained.	Tuberculous other than pulmonary.	Total discharges.
			I.	п.	ш.	Tc	Dia	Dia	Tube othe pulm	T
Fit for work				1		1	1			-
Fit for light work			2	3		5	1			
Unfit for any work			4	17	13	34	1	1	2	3
Fit for school			***	2		2	2	1		1
Totals			6	23	13	42	5	2	2	5
		SOUT	H-EAST	ERN	HOSP	TAL.				
Fit for work			1			1				
Fit for light work			2	3	2	7			1	
Unfit for any work	/			2	52	54	1			5
Fit for school										
Totals			3	5	54	62	1		]	6
		THE	DOWN	IS SA	NATOR	IUM,				
Fit for work			57	76	53	186	. 15		3	20
Fit for light work			71	124	150	345			1	35
Unfit for any work			57	137	383	577	11	7		60
Wate # 1										
Totals .			185	337	586	1,108	33	7	11	1,18

TABLE XXVI. (continued).—Capacity for work of tuberculous patients on discharge, 1920.

\* The "Astor" classification in each case will be 1 higher.

	Under 1 week.	I to 2 weeks.	2 to 3 weeks.	3 to 4 weeks.	1 to 2 months.	2 to 3 months.	3 to 4 months.	4 to 5 months.	5 to 6 months.	6 to 7 months.	7 to 8 months.	8 to 9 months.	9 to 10 months.	10 to 11 months.	11 to 12 months.	Over 12 months.	Totals.
Colindale Hospital	 17	14	16	22	66	62	18	12	21	15	6	7	2				278
High Wood	 2	2	2	4	26	31	26	21	16	15	20	15	18	5	7	1	211
Millfield	 			2		1	10		14		12		6	4	10	58	149
Northern Hospital (part of	13	15	7	28		286	137	94	35		15	13	5	7	4	1	784
North-Western Hospital							not	re	cor	ded							
Park Hospital	 4	9	11	13	27	32	25	5	5	3		2	1	1	1	2	141
Pinewood Sanatorium	 1	1	3	7	28		31	36	13		5	1				1	188
Queen Mary's Hospital	 	3	2		10	15	12	13	12		14	9	8	4	3	168	286
St. George's Home	 3	4	2 4 2	2	3	9	12	5	1	3	2			1		2	51
South-Eastern Hospital	 4	2	2	8	12	11	8	5 7	13	4	1	1	1				64*
The Downs Sanatorium	 26	31	21	43	310	320	179	85	60	.33	24	11	8	4	4		1,159
Western Hospital							not	re	cor	ded							39

TABLE XXVII.—Duration of stay of tuberculous patients, 1920. (a) Patients discharged.

\* 3 cases not pulmonary tuberculosis included.

(b) Patients who died.

				10					-									
Colindale Hospital		24	17	12	16	37	20	12	5	6	2	1	3	3		- 1		159
High Wood						1												1
Millfield									1								1	2
Northern Hospital (part	of)	3		3	3	7	10		4 8	-1		1						38
Park Hospital		13	3	5	4	21	16	5	8	3	2	1	1	1				83
Pinewood Sanatorium																		
Queen Mary's Hospital			1	2		4		3		1	1	1	1		1	1	23	48
St. George's Home		6	10		8	10	11	9	5					4	1	1	7	77
South-Eastern Hospital		6	5	5	4	10	6	8	4		1	1	2	1		1		54
The Downs Sanatorium		2	1	3	1	15	6	7		3								38
Western Hospital																		22
											1							

TABLE XXVIII.-Number of tuberculous patients with complications, 1920.

#### COLINDALE HOSPITAL.

Deafness			 		3	Tubercular	arthritis	 	 5
Fistula in	ano		 		1	,,	laryngitis	 	 51
			 		9	,,	orchitis	 	 1
Tubercular	adeni	tis	 		5				
				Total		75			

N.B.—The occurrence of hæmoptysis, night sweats or alimentary symptoms (for example, diarrhœa, dyspepsia, &c.) has not been counted.

#### HIGH WOOD.

Abscess of jaw		 		1	Ophthalmia		 	 3
Anterior poliomy	relitis	 		1	Pleurisy		 	 2
Bronchiectasis		 		1	Sarcoma of jaw		 	 1
Bronchitis		 		2	Scarlet fever		 	 8
Chorea		 		1	Tinea capitis		 	 5
Diphtheria		 		10	Tuberculous spi		 	 2
Hæmoptysis		 		3	Whooping coug	;h	 	 1
Herpes zoster		 		1				
			Total		42			

Total ... ...

#### MILLFIELD.

Asthma

.

na	 	 	 2	Pnoun	nonia	 	 	

2

#### NORTHERN HOSPITAL (PART OF).

Tuber	reulous	s in nat	ure.			Non-tub	percul	ous in :	nature.	
Adenitis				 3		Albuminuria				 2
Arthritis-Ankle	a			 1		Bronchitis				 4
,, Hip				 2		Cardiac disease				 3
,, Knee				 1		Diphtheria				 1
Empyema				 3		Enlarged thyroid				 1
Enteritis				 5		Gastric ulcer				 1
Keratitis				 1		Metrorrhagia				 1
Laryngitis				 27		Nasal polypi				 1
Mastoid				 1		Neurasthenia				 1
Peritonitis				 3	0.	Pregnancy				 5
Ulcer of leg				 1		Psoriasis				 1
,, mouth a	nd pha	arynx		 1	1	Thrombosis of ve	ins			 1
	-			-						-
			Total	 49					Total	 22
			1000	 						

#### PARK HOSPITAL.

Enteritis			12	Moningitis	 	 	7
Hæmoptysis, severe	 		18				5
Laryngitis	 		23	Pneumo-thorax	 	 	9
		Total		74			

#### PINEWOOD SANATORIUM.

Tuberculou	is in 1	nature.			Non-tuberet	lous in	nature.	
Abdominal tuberculosi	s			6	Boils			 1
Albuminuria				1	Bronchitis			 1
Early hip disease				1	Favus			 1
Fistula in ano				3	Hepatitis			 1
Laryngitis				1	Hernia			 1
Pleurisy, acute				1	Neurasthenia			 2
					Paralysed right arm			 1
		Tota	l	13			Total	 8
		ST	. GI	EOR	GE'S HOME.			
Morbus cordis				2	Movable kidney			 1
Arterio-sclerosis				1	Tuberculous knee			 1
Cerebral hæmorrhage				1				

... .... 6

Total

TABLE XXVIII. (continued). Number of tuberculous patients with complications, 1920.

#### SOUTH-EASTERN HOSPITAL.

Abscess, antrum	of	Highmore	 	1 1	Intussusception			 	1
Asthma			 	1	Laryngitis			 	14
Chronic abscess			 	1	Nephritis			 	2
Adenitis			 	1	Otitis media			 	1
Appendicitis			 	2	Pneumo-thorax			 	1
Hæmoptysis			 	7 1	Primary lateral s	sclero	sis	 	1
			Total		33				

#### THE DOWNS SANATORIUM.

Tub	erculous	in n	ature.		Non-tuberculous in nature.	
Appendicitis				 1	Acute otitis media 2	
Bronchiectasis				 1	Appendicitis 1	
Cervical adeniti	8			 2	Chronic bronchitis aud emphysema 28	
Cystitis				 1	Epilepsy 1	
Empyema				 1	Heart disease 3	
Enteritis				 3	Herpes zoster 2	
Epididymitis				 1	Ischio-rectal abscess 2	
Laryngitis				 51	Ichthyosis I	
Lupus of foot				 1	Locomotor ataxy 1	
Peritonitis				 1	Malaria 1	•
Pleurisy with ef	fusion			 .3	Neurasthenia (including shell shock) 8	
Pneumo-thorax				 1	Osteo-arthritis 2	
Prostatitis				 1	Otorrhœa 5	
Tuberculosis of	hip			 1	Perineal fistula 6	
	familia			 1	Pharyngeal thrush 1	
	spine			 1	Rodent ulcer 1	
	sternum			 1	Scabies 1	
	ulna			 1.	Syphilis 1	
	wrist			 1	Varicella 1	
			Total	 74	Total 68	

TABLE XXIX .- Number of tuberculous patients whose diagnosis was corrected after admission, 1920.

#### COLINDALE HOSPITAL.

Gastric ulcer				Total	1	Lymphadenoma		 		1
				HI	GH V	VOOD.				
Abscess of jaw					1	Mitral stenosis		 		
Bronchiectasis					2	Whooping coug	h	 		
Cœliac disease				Total	1	9				
Diamonte en t	C					IELD.				
Diagnosis not co	onnrm	ed (inc	Iudes :	z cases o	of asthn	1a)		 ***	***	43
		NO	RTHE	ERN I	HOSP	ITAL (PART	OF).			
Bronchitis					3	Gastric ulcer		 		1
Cardiac disease Exophthalmic g	oitre				2 2	Splenic anæmia	- 4.1	 	•••	1

#### .... PINEWOOD SANATORIUM.

...

9

Total

No obvious dise	ase	 						 	 5
		SOUT	H-EAS	TERM	HOSE	PITA	L.		
Actinomycosis		 		1	Pleurisy			 	 1
Empyema		 	Total	1	3				
		THE	DOW	NS S	ANATO	RIUN	۹.		

Chronic bronchitis Doubtful phthisis (r	o obvious	dise	ase)	5 21	Neura Selero	sthenia sis	 	•••••	 2
Empyema				2	Spinal	caries	 		 1
Morbus cordis		•••	Total	1		33			

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Total.

920.

1,947

1,149 798

248

68

3,384 180

2,245 1,139

584

444 140

177

40

154

4,454

1,439

3,015

711 1,515

804

_		E	
	nain 90., J	E.	130 24 24 222 91 331
	Remai 31 Dec.,	M.	206 142 17 15 15 37 63 63 63 63 63 1300 216 45 216 228 36 218 12 218 228 36 12 218 12 20 8 216 13 20 6 17 17 17 17 17 17 17 17 17 17 17 17 17
	Transferred to other institu- tions of the Board.	Total.	17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
	fransferred t other institu tions of the Board.	F.	12 00 00 00 00 00 11 1 1 1 1 1 1 1 1 1 1
1	Tran otho tio	M.	10 11 15 10 10 10 10 10 10 10 10 10 10 10 10 10
	-i	Total.	269 $775$ $775$ $775$ $775$ $1194$ $1179$ $1179$ $1268$ $268$ $268$ $1,098$ $1,098$
	Discharged	F.	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$
	Dis	M.	$     \begin{array}{c}       268 \\       70 \\       70 \\       70 \\       140 \\       179 \\       140 \\       140 \\       1       1       7       39       1,098 \\       1,098       1,098       1       39       30$
		Total.	159 382 228 384 748 578 228 228 228 228 228 228 228 228 228 2
	Died.	F.	$1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $
		М.	159 159 159 251 252 252 252
	nder uring	Total.	$643\\484\\192\\1,059\\261\\251\\251\\173\\173\\173\\1,73$
	Total cases under treatment during year.	F.	$\begin{array}{c} 1 \\ 230 \\ 230 \\ 1,027 \\ \cdots \\ 185 \\ 486 \\ 172 \\ \cdots \\ 172 \\ \cdots \end{array}$
	Total treatm	M.	$\begin{smallmatrix} 642\\254\\108\\108\\254\\251\\251\\255\\395\\395\\1,425\\1,73\\1,73\\1,73\\1,73\\1,73\\1,73\\1,73\\1,73$
	Transfers from other institu- tions of the Board.	Total.	108 22 22 22 22 22 22 22 22 22 22 22 22 22
	nsfers er ins ns of Board	F.	· · · · · · · · · · · · · · · · · · ·
	Tran otho tio	M.	$\begin{smallmatrix} & 49 \\ & 12 \\ & 32 \\ & 32 \\ & 10 \\ & 10 \\ \end{smallmatrix}$
	<del>si</del>	Total.	$\begin{array}{c} 594\\ 594\\ 356\\ 726\\ 839\\ 839\\ 839\\ 849\\ 2156\\ 1988\\ 2555\\ 389\\ 1256\\ 389\\ 1256\\ 125$
	Admissions.	F:	166 333 816 333 816 109 109 125
	PV	M.	593 190 190 23 23 23 23 23 23 246 198 198 198 198 198 198 198 198 198 198
	ing 1919.	Total.	$\begin{array}{c} 115\\1118\\1118\\220\\37\\435\\435\\435\\435\\435\\252\\252\\19\\19\end{array}$
	Remaining 31 Dec., 1919	F.	63 63 56 211  42 
	B. 31 ]	M.	52 69 737 78 78 78 78 78 163 163 163 163 163 163 193 193 193 193 193 193 193 193 193 19
			Colindale Hospital High Wood

TABLE XXX.—Admissions, transfers, discharges and deaths at hospitals and homes for tuberculous patients during 1920.

NOTE.-Colindale Hospital was taken over by the Board on 1 January, 1920, with 50 patients from the City of Westminster Guardians.

## MENTAL HOSPITALS STATISTICS.

## TABLE XXXI.

Number of admissions, transfers, discharges, and deaths (exclusive of feeble-minded patients) at the Board's several mental hospitals during 1920, according to parishes and unions, also the numbers remaining under treatment at the end of the year.

				0
-	g at ds on 1920.	Total.	221 221 172 307 61 101 101 105 61 105 105 105 1126 207 126 207 126 207 126 207 126 207 126 207 126 207 126 207 207 207 207 207 207 207 207 207 207	5,539
	No. remaining at mental hospitals on 31 December, 1920.	F.	129 174 174 174 174 175 157 155 150 155 155 155 155 155 155 155 155	3,102
	No. r mental 31 Dec	W.	8: 525 [5338 832 40 12 26 13 28 88 88 88 88 88 88 88 88 88 88 88 88	2,437
	other itals rd.	Total.	12: 12: 12: 12: 12: 12: 12: 12: 12: 12:	667
	Transferred to other mental hospitals of the Board.	F.	1.538477007249261009137889193000 :8	269
	Transfe ment of t	M.	0358854866644010554046556888888888888888888888888888888	398
	d.	Total.		188
	Discharged.	F.	905 55 5 5500 0055 555 ::	(33) 95
	Di	M.	1400 : 10 :	(3)
		Total.	333800014120541280583358061358818 :0	594
	Died.	F.	81.80.888588466499958838898989898988846 :0	366
		M.	r. 808999554851-052991451-01865409001 :8	228
	r tals d.	Total.	0149 1000 1014000 1000 100 4000 100 100 100	667
-	From other mental hospitals of the Board.	F.	(-) 	(2) 269
ted.	Fro menta of th	W	(-) 200 201 201 201 201 201 201 201	(1) 398
Admitted.		Total.	22224222222222222222222222222222222222	875
	Direct and indirect.	F.	(11 11 12 12 12 12 12 12 12 12 12 12 12 1	( <sup>31</sup> ) 423
	Dir	M.	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	(22) 452
r at	tals 020.	Total.	2266 766 766 766 766 766 706 707 706 707 706 706	5,446
No. remaining at	mental hospitals 1 January, 1920.	.i.	$\begin{smallmatrix} 132\\176\\176\\171\\171\\171\\169\\155\\155\\155\\155\\155\\155\\155\\104\\175\\74\\75\\75\\74\\75\\75\\75\\75\\75\\75\\75\\75\\75\\75\\75\\75\\75\\$	3,140
No. re	ment 1 Jan	M.	221 222 233 233 234 235 235 235 235 235 235 235 235	2,306
	ONS.			:
	PARISHES & UNIONS		ey reen reen nith d nith nith nith nith nith nith of nith of nith nith nith nith control copolitat	Totals
	PARIS		Bernonds Bethnal G Camberwe Chelsea Fulham Greenwich Hackney Hanbeth Islington Kensingto Lewisham Lewisham Lewisham Lewisham Lewisham Nile End Paddingto St. Aaryle St. Pancra St. Pancra	

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## TABLE XXXII.

GENERAL TABLE, showing the movement of the MENTAL HOSPITAL POPULATION during each year since the year 1909 together with the RECOVERY AND DEATH RATES.

## SUMMARY.

ſ	e of ge	10.3	II.	8.68 9.55 9.51 9.81 10.18 11.15 13.97 11.15 13.97 15.58 10.69	:
	ercentage d deaths on average	numbers resident.	÷.	7.79 9.85 9.85 110.98 11.70 11.70 11.70	:
	Percentage of deaths on average	nu	W.	9.61 7.79 8.68 9.91 7.79 8.68 9.39,1021 9.81 9.39,1021 9.81 9.35,109810.18 9.35,109810.18 13.95,1159816.19 13.96,1159816.19 13.96,1159816.19 13.96,1159816.19 13.96,1170 10.69	:
ŀ	Stational South Cold		E.	0.76 0.76 0.76 1.27 1.27 0.461 1.29 1.29 1.29 2.63 2.46 3 2.63 2.63	:
	Percentage	number of admissions.	E.	11.11 1.11 1.11 1.126 1.126 1.126 1.126 1.126 1.126	:
	Percentage of total recoveries on the total	admi	м.	2.00 11.52 1	:
ł			II.		:
	verage dail number on	registers.		8 9515 6 8 201 1 8	:
	Average daily number on	regi	м.	3,328 3,515 6,848 3,474 3,674 7,148 3,568 3,701 7,269 3,568 3,701 7,269 3,568 3,701 7,263 8,642 3,726 7,245 3,154 3,726 7,245 3,154 3,728 7,190 3,462 3,728 7,190 5,396 2,426 3,128 5,554	:
	-	1		3,612 7,042 3,328 3,702 7,270 3,474 3,704 7,271 3,568 3,704 7,271 3,568 3,714 7,271 3,568 3,714 7,117 3,462 3,714 7,118 3,462 3,714 7,118 3,462 3,140 5,446 2,327 3,102 5,539 2,426	:
	Remaining on registers	31 December in each year.	F. I	7,962 5,942 3,430 3,612 7,042 8,632 10,042 8,503 3,702 7,270 8,503 3,702 7,271 8,771 8,567 8,775 7,431 8,117 8,117 8,110 4,716 8,775 7,431 8,110 4,716 8,715 7,539 8,003 8,715 7,539 8,528 9,113 7,311 7,311 7,311 7,311 7,311 7,310 8,500 8,715 7,5539 2,437 3,100 5,446 2,539 2,437 3,100 5,446 2,539 2,437 3,100 5,539 2,437 3,100 5,539 2,437 3,100 5,539 2,539 2,437 3,100 5,539 2,539 2,437 3,100 5,539 2,437 3,100 5,539 2,437 3,100 5,539 2,437 3,100 5,539 2,437 3,100 5,539 2,437 3,100 5,539 2,53	. :
	Rema	n eac		3, 420 3, 420 3, 420 3, 420 3, 420 3, 420 3, 420 3, 420 3, 420 3, 420 3, 420 3, 420 3, 420 4,	
		10.3	M		:
			TI.	17,962 683 739 683 718 739 683 718 739 683 718 739 683 718 739 683 718 739 683 718 739 683 718 739 683 718 739 70 70 70 70 70 70 70 70 70 70 70 70 70	28,150
	DIED.		F.	8,931 301 302 303 303 504 504 504 504 504 504 504 504 504 504	835 1,981 1,841 1,736 3,577 13,975 14,175 28,150
			м.	9,031 320 320 320 320 325 570 5714 7114 7114 202 202 202 202	975 1.
			~	6	13,
		9 <b>d.</b>	F	2,252 99 104 111 111 111 111 111 113 113 113 113 11	3,577
	SD.	Improved.	F.	1,070 2,252 47 99 53 109 44 104 53 109 53 109 53 109 53 114 73 114 73 114 73 113 60 113 60 113 61 113	1,736
	FERR	Im	M.	325588651388555 	1,841
20	DISCHARGED OR TRANSPERIED.	.po	TI.	1,574 4 10 20 20 20 20 20 20 20 20 20 20 20 20 20	1,981
	on .	Relieved.	F.	6.0 8 8 1 8 8 1 8 8 1 8 8 8 1 8 8 8 1 8 8 8 1 8 8 8 18 8 18 1	835
	ARGET	Re	м.	225 22 22 22 22 22 22 22 22 22 22 22 22	1,146
	ISCH.	ed.§	TI.	111 88 111 112 113 113 113 113 113 113 113 113	540 1,339
	A .	Recovered.§	Ä		
		Rec	M.	698 10 10 10 10 10 10 10 10 10 10 10 10 10 1	664
			TI.	20,818 913 1,038 855 855 1,0803 1,0803 1,3804 920 875 875	0,585
		Total.	F.	4646 29, 4456 29, 4456 29, 4410 11, 4410 11, 11, 11, 11, 11, 11, 11, 11, 11, 1	20,198 20,387 40,585
		T	M.	472 4478 4478 595 595 595 595 595 595 595 595 595 59	198 20
	ONS.		TI. N	110 110 128 128 128 128 128 128	
	Apmissions.	Indirect."	F. T	220 22 22 22 22 22 22 22 22 22 22 22 22	· :
	An	Indi	M. I	1120 1170 1170 1112 255 1112 255 1112 111 111 111	
		-	TI. D	717 7708 7708 7762 8913 8913 8913 8913 9924 747 747	:
		Direct.	F. ]	345 345 4779 4779 4779 4779 4779 4779 4779 47	:
		P	M.	3358 3357 3357 3357 4900 4400 483 335 335 335 335 335	:
		Y EAR.		From 1870 to 31 Dec., 1909 1911	Totals since opening of Institutions

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\* Includes admissions from mental hospitals not under the Board. I includes transfers to mental hospitals not under the Board. § Includes " not insame" cases.

General table, showing the movement of the mental hospitals population during 1920.

TABLE XXXIII.

1	-		-	_				-			-		
AND		TI.			67 182	:	::	::	:	59 167	8 15	1 34	
I W	RECEIVING HOME FOR CHILDREN.	E.	1 :			:	::	::	:		00	20 14	
LAL	NC	M.	:		. 115	:	::	62	:	. 108	1	<u></u>	:::
HOSPITAL A	EIVI C	II.	31		1.	•	•	-	01		:		410
	FOR	E.	0	0			- :	. 56	1		:	:	616 867 192 348
AL H FOR		N	22		1 :	:	- :	106		:	:		61 1
MENTAL HOME FO		TI.	:	:	867 1483	4	::	::	:	1 562	6 921	1 912	:::
		E.	:	:		:	::	::	:	321	546	524	:::
BEC	HOSPITAL	M.	:		616	:	::	::	:	241	375	388	:::
OTINC BE	OSP	TI.	903	580	:	:	201	214	327	:	:	:	182 151
TOOTING	Ŧ	E.	519	348	:	:	:	123	192	:	:	:	58
F		M.	384	232	:	:	19	.86	135	:	:	:	115 93
		TI.	:				: :.	::	:	159			
TAL		E. J	-		69 18					102 1	967 1689	964 1694	
MENTAL	AL.	2	:		779 1069 1848	•	• •	• •	•	57 10	722 9	730 9	
	HOSPITAL	W.	:		17	:	::		:	_	12	<u>v</u>	:::
IDS	NOS	II.	944 1575	273	:	:	::		130	:	:	:	184
LEAVESDEN		<b>P</b>	5. 578	125	:	:	::	.19	83	:	:	:	779 1069 1848 148 125 273
E		M.	631	148	:	:	::	:10	47	:	:	:	779
	LAL	TI.	:	:	550	:	: : :	: :	:	62 223	327	349	:::
NE	MENTAL HOSPITAL	Ĥ	:	:	203 257 550			: :	:		132 195 327	156 193 349	:::
FOUNTAIN (temporary)	Ĥ	L M.	:	:	203				:	161		156	:::
FOU	TAL	F. TI.	1 42	46 130	:			8	6 12	:	:	:	57 55 46 135
	MEN	M. B	209 211 420	84 4	:			152 5	9	:	:		203 257 550 84 46 130
		TI.	<u>ल</u> :	:	227					157	020	115	
DARENTH		F. ]	-		576 12					81 1	495 10	512 11	
E			:	:				::	:	76			:::
DARENTH	5	M.	:	69	651	:			:		575	600	:::
DAI		TI.	532 1158		:	: :		114	21	1	:	:	576 1227 44 69
TV C		H.	10000	44	:	:	: : :		10	:	:	:	
,		M.	626	25	:	::	::"	56	11	:	:	:	651
H		TI.	:	:	1698	: :	: : :	: :	:	181	1517	1453	:::
CATERHAM MENTAL		F.	:	:	996 1698	: :	: : :	: :	:	105	891 1517	921 1453	:::
RHAM ME		M.	:	:	702	: :		:	:	76	626	532	:::
HAM	Lo	TI.		339	:	: :	00 10	51	101		:	:	
ERF	2	F. 7	925 1359	21 8	:		0100	27	13			:	71 339 71 339 2 3
CAT			434 9	268			- 01		83	:	:		2682 9
		M.	_		:	::		-		:	:	:	
			On the registers, 1 Jan., 1920	Total cases admitted dur- ing the year	Total cases under treat- ment during the year .	Cases discharged or trans- ferred during the year as : Escaped Not insane	•••	ed .		Total cases discharged, transferred, and died during the year	On the registers, 31 Dec., 1920	Average daily numbers on the registers during the year	Certified persons (i.e., sep- arate persons in contra- distinction to " cases," which may include the same individual more than once) : Under care during year Admitted
			rs, 1	nitte	the y	d or d	red p	prove	bea .	and	s, 31	amb s da	s (i.e in co nelud nual ring ;
			giste	s adı	ring	ischarged or during the y Escaped Not insane	Recovered Relieved	Not improved	g the	es d ed,	gister.	diy n gistei	sons sons on to ay li divid e du
			e re	otal eases add	otal cases under trea ment during the year	disch d dun Es No	Re	No	lurin	otal cases disch transferred, and during the year	sei (	verage da the reg the year	rtified pers distinction which may same indi than once) inder care dmitted ecovered
			n the 1920	otal ing	men	ferre			Died during the year	tran	n the 1920	the y	Certified persons (i.e., sel arate persons in contra distinction to " cases which may include th same individual mor than once) : Under care during year Admitted
			0	Ē	Ĥ	0			A	Ĕ	0	A	DAM C

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#### TABLE XXXIV.

Summary showing the movement [i.e., admissions, discharges, &c.] of the mental hospitals population (exclusive of feeble-minded patients) during 1920.

						М.	, F.	Total.	М.	F.	Total.
In the mental hos	pitals	1 Jan	uary, 1	1920					2,306	3,140	5,440
Total cases admit Direct cases			he year	r—		005	410	7.17			
Indirect cases				•••		335 117	412 11	747 128			
indirect cases								120	452	423	87
Total cases under	treat	ment d	uring t	the year	r				2,758	3,563	6,321
Discharged or trai	nsferr	ed* du	ring th	ne year	as-		1000				
Escaped			•••			-	-	-			
Not insane Recovered						2 20	1 3	3			
Relieved	***					20 14	18	23 32			
Not improved						14 57	18	130			
Died						228	366	594			
Total cases discha	rged,	transf	erred, a	and die	d du	ing the	year .		321	461	78
Remaining in the	ment	al hosp	oitals 3	1 Dece	mber,	1920			2,437	3,102	5,53
Average number i	esider	at duri	ng the	Vear					2,426	3,128	5,55

\* Exclusive of transfers between the Board's own mental hospitals.

TABLE XXXV.-Analysis of the admissions at the Mental Hospitals during the year 1920. (B1.)

		_						Acc	AcqUIRED.	e.						
NAME OF MENTAL HOSPITAL.	CLASSES OF ADMISSIONS.	°S	CONGENITAL.	ITAL.	Firs	First attack.	ick.	first	Not first attack.		Un whet	Unknown whether first attack or not.	n rst not.	H	TOTAL.	
	-	M.	F.	T.	M.	F.	T.	M.	E.	I.	M.	E.	H	W.	E.	E.
CATERHAM.	Direct Transfers	5 207	: 34	5 241 	: :	:::	: :	:::	:::	:::	*2*	: 00 :	: <sup>82</sup> *2	261	: 11 :	332
	Total admissions	212	34	246	9	:	9	:	:	:	50	37	87	268	11	339
DARENTH.	Direct	23	31	15 54	:::	:::	:::	:::	:::	:::	:::	:::	:::	: 53 13	: 31	15 54
	Total admissions	25	44	69	:	:	:	:	:	:	:	:		25	44	69
FOUNTAIN (temporary).	Direct Transfers	75	. 40	3 115 	: :	: :	· · ·	:::	:::	:::	:::	: ::	: * :	: 00 10	: 45	3
	Total admissions	17	41	118	1-	67	6	:	:	:	:	3		84	46	130
LEAVESDEN.	Direct Transfers	: \$5		 		:4:		: *:	:::	: *:	° :	: :	:= :	: 148	125	273
	Total admissions	82	75	157	49	48	97	8	:	00	6	61	Ξ	148	125	273
TOOTINC BEC.	Direct Transfers	: : 63	: : 39	102	21	16	5 : :	° ::	•• : :	° : :	: : **	:::	··· : :	. : 93	<sup>28</sup> : :	151
	Total admissions	63	39	102	21	16	37	9	3	0.	00	:	3	93	58	151
TOOTING BEC Receiving Home For Children.	Direct Transfers	.: 17	.: 17	34	178 1	278 5 ··	456 6 ···	17	11	34	19	: 50 00	: 41	231	340 8 ···	571 9
	Total admissions	LI	17	34	179	283	462	17	18	35	19	30	49	232	348	580
						* In	Includes	81 "	not j	not insane		case.				

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TABLE XXXV. (continued).—Analysis of the admissions to the Mental Hospitals during the year 1920. (B1.)

							Ac	QUIR	ED.						
CLASSES OF ADMISSIONS.	Con	GENI	TAL.	Firs	t atte	ack.		Not	ck.	whe	ther ck or	first		TOTA	L.
	М.	F.	т.	M.	F.	т.	М.	F.	т.	M.	F.	т.	М.	F.	т.
Direct	. 89	70	159	199	294	493	23	20	43	*24	28	52	335	412	747
Indirect	. 10	2	12	44	1	45	7		7	56	8	64	117	11	128
Statutory re-admissions .					••		••	•••		• • •					
Total admissions .	. 99	72	171	243	295	538	30	20	50	80	36	116	452	423	875

#### SUMMARY.

\* Includes 1 "not insane" case.

TABLE XXXVI. (continued).—Showing the form of mental disorder on admission in the admissions during the year 1920. (B 5.)

	For	ms of mental disorder.		DIREC	2000	10000	ISSI (	000012	г	OTAL	s.
	101	ins of mental disorder.	М.	F.	т.	M.	F.	т.	м.	F.	т.
Congenital or infantile mental deficiency (bilocy or imbecility) occurring as early in life as it can be observed.	(1) (2)	Intellectual { With epilepsy Without epilepsy Moral Not inmane	31 101  3	19 96 1	50 197 1 4	2 9 	1 1 	3 10 	33 110  3	20 97 1	53 207 1 4
Insanity occurring later in life.	$(1) \\ (2) \\ (3) \\ (4) \\ (5) \\ (6) \\ (7) \\ (8) \\ (9) \\ (10) \\ (11) \\ (12) \\ (12) \\ (13) \\ (14) \\ (14) \\ (12) \\ (14) \\ (11) \\ (12) \\ (13) \\ (14) \\ (14) \\ (11) \\ (12) \\ (11) \\ (12) \\ (13) \\ (14) \\ (14) \\ (11) \\ (12) \\ (14) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (13) \\ (14) \\ (14) \\ (11) \\ (12) \\ (14) \\ (11) \\ (12) \\ (14) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (13) \\ (14) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (12) \\ (12) \\ (13) \\ (14) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (11) \\ (12) \\ (12) \\ (13) \\ (14) \\ (12) \\ (14) \\ (12) \\ (12) \\ (12) \\ (13) \\ (14) \\ (12) \\ (1$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	27 7   	32 8 12 5 5  12 12 14 23  220 	59812 12 12 8 16 16 18 25  391 	$     \begin{array}{c}       3 \\             \\             $	$     \begin{array}{c}                                     $	3 2 1 10 4 3 8 3 8 3 77 77	57 7 2 8 12 6  6 9  177 74	328 81 2 8 1 2 5 6 14 15 24 221 3	8 9 8 1 4 4  13  20  21 33  3398 77
		Total	335	412	747	117	11	128	452	423	87

SUMMARY.

43.

TABLE XXXVI. Mental Hospitals .- Showing the form of mental disorder on admission in the direct admissions and transfers during the year 1920. (B 5.)

TIL

		CATER	INAM MENT	TAL HOSPIT	FAL.	0	ARENTI	H TRAINU	NG COLO	rr.	FOUNTAIN	Ocempor	ny) MEN	TAL HOSPITA	LEA	VESD	EN HENTAL	IDSPITAL.	TOOTING	BEC MENTAL	HOSPITAL.	TD	STING I		EIVING BER.	HOME	-
	Forms of mental disorder.	Direct admissions.			Fotal.	Dire		Transfer		Fodal.	Direct	_	nastors.	Total.	Direct		Transfers.	Total	Direct admissions.	Transfers,	Total	Diros		Transfer		Tota	
		M. F. T	. M. F.	T. M.	F. T.	м. р.	Т.	M. F.	T. M.	F. T.	M. F.	T. M.	F. T.	M. F. T	M. F.	T.	M. F. T.	M. F. T.	M. F. T.	M. F. T.	M. F. T.	м. г.	T. 1	N. F.	T.   M	L. F.	T.
Comprehend on the backfuller instantial des feasings instantial des frankendikty; norme frank an an entry ins the data an entry ins	1         Intellectual (m. Without epilepsy b. Without epilepsy Not Instance	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	0 143 21		10.000	1000	1 10 10	10 25 11 25	13 8 41 17 			a 53 	12 40 33 80 	30 12 - 54 54 7 		1000		62, 47 300		· · · · · · · · · · · · · · · · · · ·	8 4 7 30 41 71 1 1 1 1	2% 10 64 41  1 1	105	··· ··		20 20 64 41  1 1	105
Instally counting later in life	Ensatig with epidepr     General paralysis of the issue     General paralysis of the issue     General the former facts includes     General insulary     General insulary     General insulary     General     General	44         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           54         54         54           55         54         54           56         54         54           57         54         54           56         54         54           57         54         54           56         54         54           57         54         54		··· ·· ··· ·· ·· ··· ·· ·· ··· ·· ·· ··· ·· ·· ·· ··· ·· ·· ·· ··· ·· ·· ·· ·· ·· ··· ·· ·· ·· ·· ·· ·· ·· ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··		1         1           1         1	100				····································		1         1           1         1		2         2           2         2							· · · · · · · · · · · · · · · · · · ·				E	-
	[r. Doubt	··· ·· ·· ··· ·· ·· ·· ·· ·· ··	··· ·· 4 16 20 4	20 5 24 <b>3</b> 0	16 21 6 34				··· · · · · · · · · · · · · · · · · ·	· · · ·		· · · ·	1000		100 00 10		 2 28 30 55 15 70		··· ·· ·· ·· ·· ·· 170 220 300 ·· ·· ··	··· ·· ··	170 224 234						
	Totals	77	261 71	112 268	11 210	2 13	15	23 31	51 25	44 60	2 1			84 46 130	_	+		55 15 70 148 123 273		·· ·· ·· 1 8 9	212 345 590		1.51				



TABLE XXXVII.-Showing the GENERAL PARALYTICS in the direct admissions at the Mental Hospitals during the year 1920, arranged according to their ages at commencement of the attack and to their civil state, and also the number of instances in which the attack was ascertained to have been preceded by syphilis, together with the age at which the latter was contracted. (B 9.)

## SURGARY.

# TOOTING BEC MENTAL HOSPITAL (RECEIVING HOSPITAL).

1								1							-
	evidence of syphilis.	E				•		1 .						:	
With	evidence of syphills.	E.	:	:	:	:	:	1 :	:	:	:	:	:	:	
Â	15 8.	M.	:	:	:	:	:	-:	:	:	:	:	:	:	
	is.	E	60	-	64	:		:	:	;	:	:	:	:	
	TOTALS.	E	:	63	:	:	63	:	:	:	:	:	:	:	
-	Ĥ	M.	63	61	61	:	-	:	:	:	:	:	:	:	
	wn.	÷	:	:	:	:	1. :	1	:	:	:	:	:	:	
	Unknown.	A.	:	:	:	:	:	:	:	:	:	:	:	:	
	Unl	W.	:	:	:	:	:	:	:	:	:	:	:	:	
	Å.,	H	:	:	-	:	-	:	:	:	:	:	:	:	1
	65 and up- wards.	E.	:	:	:	:	:	:	:	:	:	:	:	:	
50	55 al W2	W.		:	-		-								1
LYSI	1	E.	:	:	:	:	:		:	:	:	:	:	÷	
ARA	55-64	F. J					:								
L P	55	M. 1													
ERA		<u> </u>	:	*		:	1 10					-:	+	÷	1.
GEN	-54.	. T.					01								* Denotes admission to Tootine Ree (Bildrea's Receiving Home
AGE AT COMMENCEMENT OF THE ATTACK OF GENERAL PARALYSIS.	45-54.	. F.	:		:			1 :	:	:	:	:	:	:	11 -
CK		W.	-	61	:	:	1 3		-:	:	:	:	:	:	inin
TTA	44.	Τ.	:	-	-	:		1 :		:	•	•	•	:	000
B	35-44.	E.	:	;	:	:	:	:	:	:	:	:	:	:	1
E a	63	M.	:	:	-	:	-	:	:	:	:	:	:	:	Ince
T OI	-34.	T.	:	:	;	:	:	:	:	:	:	:	:	:	114
NEN	25-2	E.	:	:	:	:	:	:	:	:	:	:	:	:	1
NCE	61	W.	:	:	:	:	:	:	:	:	:	:	:	:	14
INE		H	:	:	:	:	:	:	:	:	:	:	:	:	atia a
COM	20-24.	i.	:	:	:	:	:	:	:	:	:	:	:	:	E
AT	20	W.			:	:	:	:	:	:	:	:	:	:	1
IGH		÷		;	:	:	I.a	:	:	:	:	:	:	:	edio
-	-19.		:	:	:	:		:	:	:	:	:	:	:	dimb
	15-	M. F.	-				-				:	:	:		
			I + La	:	:	:	I. I.		÷	:	÷	÷	:	:	tone
	sr 10	-												:	I.
	Under 15.	M. F. T.		•									•		
		4					I.,				+			:	
					•										
			:	:	:	1:	:	:	:	:	:	:	:	:	
			:	:	:	:	:	:		:	:	:	55	E	
									9 5				3.6	NOU	
	TB.		:	:	:	:	:	:	o ag	-	:	:	fter	unk	
	CIVIL STATS.								or t	25-34	35-44	45-54	at or after age 55	at age unknown	
	TIAI						:		I pri	25-	35	45	at	at	
	5			:	:		rs	ital	contracted prior to age 25						
					•		TOTALS	ugen	atra	2	2	:	2	2	
			:	:		-	H	COL	001						
			1	Married	Widowed	Unknown		SYPHILIS, congenital							
			zle	F	10	8	1.000	H	5	2	2	:	*		
			Single	ar	E	a		15							

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 TABLE XXXVIII. (continued). Mental Hospitals.—An analysis of the discharges and transfers during the year 1920. (C 1.)

WARRANT WARRANT AND A DOLLAR AND A DOLLAR AND A DOLLAR AND A DOLLAR AND ADDRESS AND ADDRES			-		-	-	Main Statement	-	-	-
Discharged as recovered-		M.	F.	т.	M.	F.	т.	М.	F.	т.
From direct and indirect admissions-		-								
First-attack cases		18	1	19						
Not-first-attack cases		3	1	4						
Cases unknown-whether-first-attack-or-	not	1		1						
							1			
Total from direct admissions					22	2	24			
From transfers—										
First-attack cases			2	2						
Not-first-attack cases										
Cases unknown-whether-first-attack-or-	not									
								Des Rel		
Total from transfers						2	2			
							-			
Total discharged as recovered					22	4	26			
							Art-Mary 1			
									1000	
Discharged (not recovered) as-				1.1	R	eliev	ed	Not	impr	oved
							-			
Relieved		14	18			18	32		••	
Not improved		57	73	130				57	73	130
Total		71	91	162						
Deren for much Markener				a. Halbidar						
Reasons for such discharge-										
To go to care of friends			35							•••
To go to workhouse		9	7	16						••
To go to L.C.C. and other mental hosp	itals	31	35	66						••
To be boarded out										••
Statutory, by irregularity in reception of	order									••
Statutory, by lapsing of reception orde	r								•••	••
To fever hospital							••			••
To M.D. section of Darenth Trai	ining									
Colony			12	12			••			
The deal				1.00		1.10				
Total		71	89	160						
		-	_							
Transferred as-									1	
Relieved							1			
		•••	•••	•••						
Not improved			•••	••			•••			
Total						+			1999	1.528
10031	•••	••	••							
Destination of such transfers-				1						
To other mental hospitals, reg. hospitals,	and									
licensed houses							1	1		
m (( 1 ) ))	•••									
Other destination										
order debuttation									19.00	
Total										
									1000	
Total discharged and transferred as-										
D.P. J					14	18	32			
Reneved			•••				-			
Not improved								57	79	130
Not improved					•			-	10	100
			1 anno							1.1.1

#### SUMMARY.

### TABLE XXXVIII. (continued). Mental Hospitals.—An analysis of the discharges and transfers during the year 1920. (C 1.)

Land		SUMM	ARY.								
rect and indirect adm	issions		М.	F.	т.	М.	F.	Т.	M.	F.	
sttack cases	••		18		10	1		-	-	P.	T.
own-whether-fir	st-atta	k-or-not	3		4	1			1		
From the direct admis	sions		-		-	0.		••	1.		
First- Not-first					••	1	1 2	2 2			•••
		k-or-not	11	2	2	1::	::	::			
Total from	or or black	-K-OF-not	**		**		••		1		**
The second second		•• ••		••			2				
A Order Glischart	rered					22	4	20	1		
Discharged (not recover				-		-		-	-	-	
Relieved						R	eliev	ed	Not	impr	oved
Not improved		:	14	18	32 130						
Total			71		_	•••	•••	•••	57	73	130
Reasons for such discharge				91	162						
To go to care of friends			31	35	66						
To go to workhouse To go to L.C.C. and other		papitals	9 31	7	16						
To be boarded out		n order									
Statutory, by lapsing of re		der									::
To fever hospital To M.D. section of D		raining	••	••	••				••		••
Colony				12	12						
Total			71	89	160						
Transferred as											
Not improved					••						
Total											
Destination of such trar		als and									
To other mental hos licensed hous	noapu	tals, and									::
To "single care" Other destinatio											
Other destination											
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Total die transferred	-14					14	18	32			
Total die transferred Reli					·· 1.	-		-	57	73	130
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To other mental hos To "single care" Other destination ... Total

TOTAL DESCHARGED AND RELIEVED .. NOT IMPROVED



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Causes of death.	reta	stances when urned a NCIPAI	as fie	ri- d	Insta wł returi co reisu	ned a	18		otal dence		Epidemic diarrhora and	enteritis.	Dysentery.	(courts)-	Paeumonia.		Pulmonary	unerculoses.	Exhaustion from mania or	melancholy.	Valvular .	heart disease.	Fatty decemenation o.f	the heart.	Cerebral	hemotthage.	Chronic	Bright's discase.
	M.	F. 1	<b>F.</b>	ł	M. 1	F. 1	r.	М.	F. '	r.	м.	F.	М.	F.	м.	F.	м.	F.	-		м.	F.	м.	F.	м.	F.	М.	F.
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EXERAL DISEASES— Tuberculosis of lungs disseminated Cellulitis of thigh Carchonna of uterus. Sarcona of arm Oateo-arthritis Pernicious anzenia	53 : :1 : :	10 	3	51.11	`i 			531	10  2  1	15 3 1 2 1 1 1 1			  		··· ·· ·· ··			10	· · · · · · · · ·						··· ·· ··			
ISRASES OF NERVOUS SYSTEM Organic disease of brain Paralysis agitans Cerebral haemorrhage abscess Mania. Epülepsy Otitis media.	1	$\begin{array}{c} \ddots \\ 1 \\ 16 \\ \ddots \\ 1 \\ 1 \\ 1 \end{array}$	1 17 1 5		::	1 2		1 `1 	 16 13 1	11171361					  			:: -1 ::			··· ·· ··			· · · · · · · · · · · · · · · · · · ·	 'i  	 16  	•••	
NERASES OF CIRCULATORY SYSTEM— Congenital disease of heart. Fatty degeneration of heart Valvular disease of heart Dilatation of heart  Cardine debility  degeneration. Aneurism. abdominal Arterio-scierosis Gangrene of lung 		.139	35011111					1222141	10-010-11 10-010-	10 m 00 10 10 m 00 CI MI M												:::::::::::::::::::::::::::::::::::::::		• • • • • • • • • • • • • • • • • • • •	··· 1 ··· ···			
DISEASES OF RESPIRATORY SYSTEM— Acute bronchitis Chronie bronchitis Broncho-pneumonia Lobar pneumonia Hypostatic pneumonia .		3  5	`i 7		1	eri : 1010	er: : cato		0.01 10.01	53-17-5					::12:			··· ··· ···					··· ··· ··					
DISEASES OF DIGESTIVE SYSTEM- Acute enteritis Appendictits Ulcerative collits Carrhosis of liver Intestinal obstruction Volvulus			1112 :11	.111.11.11				1 1	··1 ··1 ·1 ·1 ·1 ·1	111021111																		
DISEASES OF URINARY SYSTEM- Chronic Bright's disease	- 1		2		::	'i	'i	1	11	21					::					•••		::		••			1	1
OLD AGE- Senility	. 1	14	15	2		8	8	1	22	23						1												
Accident		. 1	1	1					1	1																		

TABLE XXXIX. Mental Hospitals.—Showing all the causes of death that entered into the deaths during the year 1920, arranged as PEINCIPAL, CONTRIBUTORY, and the totals of these; also the number of times each cause (whether principal or contributory) was associated with certain selected causes; and the number of occasions each principal cause of death was verified by nost-mortem examination. (D 1.)

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TABLE XXXIX. (continued). Mental Hospitals.—Showing all the causes of death that entered into the deaths during the year 1920, arranged as PRINCIPAL. CONTRIBUTORY, and the totals of these; also the number of times each cause (whether principal on contributory) was associated with certain selected causes; and the number of occasions each principal cause of death was verified by post-mortem examination (D.1.)

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Showing the total correlation between any given cause of death (whether acting as principal or contributory) and the subjoined selected causes.				:::	:	::	:	:	:	:	
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the total correlation between any given cause of death (wheth as principal or contributory) and the subjoined selected causes.		+					· · ·	· · ·		:	
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	Causes of death.			NERAL DISEASES— Septicemia . Pulmonary tuberculosis Acute rheumatism	EVOU	BYSTEM- SYSTEM- Pericarditis Valvular disease of heart	EASES OF RESPIRATO SYSTEM— Broncho-pneumonia	GEST	UNAI ASC	:	Totals
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TABLE XXXIX. (continued). Mental Hospitals.—Showing all the causes of death that entered into the deaths during the year 1920, arranged as PRINCIPAL, CONTRIBUTORY, and the totals of these; also the number of times each cause (whether principal or contributory) was associated with certain selected causes; and the number of occasions each principal cause of death was verified by post-mortem examination. (D 1.)

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 TABLE XXXIX. (continued). Mental Hospitals.—Showing all the causes of death that entered into the deaths during the year 1920, arranged as PRINCIPAL, CONTRIBUTORY, and the totals of these; also the number of times each cause (whether principal or contributory) was associated with certain selected causes; and the number of occasions each principal cause of death was verified by post-mortem examination. (D 1.)
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Causes of deatb.	ret		n d as		ret	when arme con- iBUTO	d as		Tota ciden		Decentere	(colitia).		Pheumonia.	Polmonary	tuberculosis.	General naralvais	of the insame.	Valvular	heart disease.	Fatty	the heart.	Cerebral	hemotrhage.	Chronic	Bright's disease.	Tuberculosis	other than pulmonary.		Settle decay.	-					
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GENERAL DISEASES Pulmonary tuberculosis rubercular peritonitis Tubercular peritonitis Tubercular meningitis Gangree Cancer. Inanition due to congenita defect of brain	1111.2	10 cm -11 -	1112 :032	11101 :1-00					73		11111011														· · · · · · · · · · · · · · · · · · ·		··· 1 1 1 ·····			  						
DISEASES OF NERVOUS SYSTEM- Cerebral hæmorthage General paralysis of the insan Status epilepticus Cerebral softening Chronic menkugitas Brain disease	21 . 21 1 1	2 4 	216 1 23	21 22 : 23		`i 	1	1		017 1 0																	ï			1			::			:::::
DISEASES OF CIECULATORY SYSTEM— Valvular disease of heart Faity degeneration of heart. Pericarditis . Pericarditis . Pernicious ansemia .	1 'i	4	5	1	1		2	'i	11 5 1 	1																1	::	**								
Bronchlectasis.	 'i	1	1	1 1 2			::	'i	7111	2			11	1															1	::	::					
DISEASES OF DIGESTIVE SYSTEM— Cirrhosis of liver Pyloric stenosis	1		1	1	'i	::	ï	1 1	::	1											::						.:		::				::			
DISEASES OF URINARY SYSTEM- Chronic nephritis Pyo-nephrosis		3 	$\frac{3}{1}$	3 1		2	2	·i	5	51		::			::						::						::		::		::		::	::	::	
SENILE DECAY	1	5	6	4	4	7	11	12	ť,												1								1	5						
Totals	47	83	130	102			-			_															-		-				_					


TABLE XXXIX. (continued). Mental Hospitals.—Showing all the causes of death that entered into the deaths during the year 1920, arranged as PRINCIPAL, CONTRIBUTORY, and the totals of these; also the number of times each cause (whether principal or contributory) was associated with certain selected causes; and the number of occasions each principal cause of death was verified by post-mortem examination. (D 1.)

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Causes of death.	reta	stance when irned x CIPA	as	No. veri- fied P.M.	retu	danc rhen urned CON-	a8		lotal iden		Dysentery	(colitis).	Pressonala	. 1	Pulmonary		Valvular		Cirrhosis of		Cancer of			ucitza.	Nandreitta		Widness discourse	Concern Conner	Cerebral	hiemorrhage.
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GENERAL DISEASES- Phthisis Cancer of osophagus	1	1	<u>2</u> 1	21								::	 .i			::			2.4		::							::		
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DISEASES OF CIRCULATORY STSTEM- Fatty degeneration of heart Chronic heart disease Chronic pericarditis			$\begin{smallmatrix}&2\\16\\&8\\1\end{smallmatrix}$	$\begin{smallmatrix}&2\\16\\&8\\1\end{smallmatrix}$		·i 1 	.12.			::										:: `i	  	 `i							::	
DISEASES OF RESPIRATORY SYSTEM— Pleural effusion Acute pneumonia Broncho-pneumonia Hypostatic pneumonia .	1 1	:491 ;	1831	1 8 3 1	::::0			::::				::												::						
DISEASES OF UNINARY STSTEN- Chronic Bright's disease . cystitis			3	3 1	::	::	::	::	::		::	::	::	::		::	::	::	::	::	::	::			'i	::				::
OLD AGE- Semile decay	. 95	161	256	230		2	2						1														]			
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						52	nowing the	e total corr	relation be	tween any	given cau subjets	se of death (	whether acting	as principa	l or contr	ibutory)	and the		
Causes of death.	PRINCIPAL.	No, veri- fied P.M	Instances when returned as CON- TRIBUTORY.		Epidemic diarrhora and infoctivo enteritis.		Pheumonfa.	Fulmenary tuberculosia.	General paralysis of insane.	Valvular heart disease.	Patty degeneration of the heart.	Grebral morthage,	Chronic Bright's disease, Tuberculosis other than zahorases	breay.	Exhaustion due to mania.	Nephritis.	Cardiae failure.	Orrhosis of Kidney,	Cancer of pancreas,
	M. F. T.	-	M. F. T.	M. F. T.	M. F.	M. F.	. M. P	. M. F.	M F.	M F.	M. F.		. F. M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.
GENERAL DISEASS- Scalt lever	3 3 11 3 7 7 3 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: :***********************************		331138011381111111111111111111111111111	44         44           44         <													1         2           1         2	<ul> <li>4</li> <li>4&lt;</li></ul>
DIREARS OF NERVOR STPERM AND ORGANS OF SPOILS RESE. Congenital disease of brain  Congenital disease of brain  Chronic disease of brain  Chronic disease of brain  Urenia Creater and hemorrhage  Mania Biplopoy Ottis media	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	01-00-4 ; ;;; ; ;r* ;		$\begin{array}{cccccccccccccccccccccccccccccccccccc$						** **				··· 2 ··· ·· ·· ·· ·· ··		··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ···			· · · · · · · · · · · · · · · · · · ·
DISEASES OF CIECULATORY SYSTEM— Chronic heart disease Abdominal aneurism Arbterio-sclerosis General thrombois Gangrene	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	52 1 	8 7 15 	31 45 76 3 3 5 5	10 11 17 11		 	** **	11 11	11 11	888		2.0	11 11 1	: : :			. 1	
DISEASES OF RESPIRATORY STREAM— Bronchiles, acote			2 4 6 2 1 3 	2 7 8 2 1 1 3 2 7 1 1 3 6 13 6 13 6 7 1 2 7 3 5 9 9 18				·····	1	Ϋ́		· ·· ·· ··		1 8 8					
Cirrhosis of liver			1 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		······································		··· ··			1 11 1							: :: :	
DISRASES OF URINARY SYSTEM— Chronic sephritis Pyo-nephrosis Chronic cystitis	5 4 9 1 :: 1	711	. 2 2	5 6 11 1 1 1 1	A. 44				** ** **		: : :	1 1				: ::		: :: :	: ::
DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE- Collulities of thigh			11	11		1										1		••••	
Senile docay 9	7 181 278 28		4 8 12 1	01 189 290			1 1				1							• •• •	• ••
ACCIDENT- Fracture of thigh	. 1 1	1		. 1 1										1 5			• • •	• •• •	
Totala		-								1 11 1									

TABLE XXXIX. (continued). Mental Hospitals.—Showing all the causes of death that entered into the deaths during the year 1920, arranged as PRINCIPAL, CONTRIBUTORY, and the totals of these; also the number of times each cause (whether principal or contributory) was associated with certain selected causes; and the number of occasions each principal cause of death was verified by post-mortem examination (D 1.)

Totals .. .. .. 228 366 594 443



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TABLE XL. Mental Hospitals.—Showing the principal cause of death in each death during the year 1920, logether with the ages at death in quinquennial periods. (D 2.)

											AG	ES A	T DE	ATH	IN QU	INQU	ENNL	AL P	ERIOI	18.										
PRINCIPAL CAUSES OF DEATH.		Less	10-	-14	15-	19	20-	-24	25-	29	50-	34	35	39	40-	14	45-4	9 4	50-5	4 2	55-1	50	60-	64	65-	-69	70 a ove		T	otais
		an 10		F.	м.	F	М.	F.	M.	F	M	F	М.	F	M. 1	P. 1	M. 1	. 1	M. F	. 1	M. )	F. 1	М.	F.	м.	F.	М.	F.	М	F. 1
	-	-	-		-	-									1															
NERAL DISEASES-						-	1			2		1	1			1						2	2	1		1		1		10 1
Tuberculosis, pulmonary		: ::											1		1				:: :				**				::	2		2
Carcinoma of uterus										::	::		::		::			:											1	12
Sarcoma of arma			1::			::															••							1	::	i
Osteo-arthritis																		•	••	1	••				••			100		1
1 (111(10)) * ******			1																											
SEASES OF NERVOUS SYSTEM-					1																				::		::	'i	1	ï
Paralysis agitans							••							11			:							3	1	5		8	_	16
Cerebral hæmorrhage						**	••				11							1										••	14	1
Mania							12				1									001	• •			::	::					i
Epilepsy					1						••	1			•••	••					•••	**						1		100
SEASES OF CIRCULATORY SYSTEM-																					1		::		::	·;	1	1 2	01 02	1 3
Fatty degeneration of heart	4 K K				1									**								11	11							2
Dilatation of heart					1.1					1		::	::												1				1	12
Cardiac debility					1.11												÷.						••			**	••	11		i
Abdominal aneurism		: :								1.						**						11	**	·i						î
			1.0								••	**				11								ĩ						1
Gangrene of lung						••			•••			::			11							14		1	**					1
Gangrene		••••				••																								
USEASES OF RESPIRATORY SYSTEM																										1		2		8
Acute bronchitis				:				::							1.				ï		·i	12		••		'i			2	15
	e 1	:: :					1									0			**		1	-		•••	**		1.00		-	
Lobar pneumonia	1								1																					
DISEASES OF DIGESTIVE SYSTEM-				ı			100																	••				'i	1	.:
							1.2		1					••							::			::					'i	
														• •	'i	**								· 1			1		1	1
Ulcerative colitis								••				11										1								1
Intestinal obstruction			1 1	: ::			1.1		::	12					1.						**			**		••		1		*
Volvulus	•••		1				1		1				1																	
Chronic Bright's disease																				1					1	••			1	1
LD AGE-																										2	1	12	1	14
Senility																														
CCIDENT- Fracture of thigh																				••	•••			••				1		1
Fracente of single 11 11																														
													-																F	
		_	_		_			-	_				-		-	_		_						-		-	-	-		-



TABLE XL. (continued) Mental Hospitals.—Showing the principal cause of death in each death during the year 1920, together with the ages at death in quinquennial periods. (D 2).

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		nd	F.	:::	:	::	:	:	:	-		1
		70 and over	W.	:::	:	::	:	:	:	:		:
		69	F.	:::	:	::	:	:	:	:		:
		05-1	M.	:::	:	::	:	:	:	:		:
		-64	F.	:::	:	::	:	:	:	:		:
		60-6	M. 1	:::	:	::	:	:	:	:		:
		-59	E.	: + :	:	::	:	:	:	:	-	
		55-5	M. H		:		:		:	:		:
	DS.		-				<u>.</u>	· · ·				
	BELO	5054	M. F.	:::	:	::	:	:	:	:		:
	AL P			• • •	:	::	•	:	:	:		:
	QUINQUENNIAL PERIODS.	45-49	L. F.	:::	:	::	:	:	:	:		:
	ngu		M.	:::	:	::	:	:	:	:		:
NV.	v qu	40-44	н.	:::	:	::	:	:	:	:		:
COLONY.	II HI		M.	:::	:	::	_:	:	:	:		:
	AGES AT DEATH IN		F.	:::	:	::	:	:	:	:		:
TRAINING	S AT	35-	W.	:::	:	::	:	:	:	:		:
AIN	AGE		P.	:::	:	::	:	:	:	:		:
TR		30	M.	:01 :	:	:"	:	:	:	:	:	0
E		-29	E.	:01 H	:	::	:	:	:	:		60
ENTH		25-	M.	≓::	:	- :	:	:	:	:		61
DAR		20 - 24	F.	: •• :	:	::	:	:	:	:		60
-		20	M.	:::	:	::	:	1	٦	:		c3
		15-19	F.	: " :	:	: •	:	:	:	:		1
U		-	M.	:::	:	::	-	:	:	:		1
	•	10-14	Ŀ.	:":	:	::	:	:	:	:		1
		10-	M.	:** :	4	::	:	:	:	• :		1
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		O TY		ISEAS nia ury ta euma	F NE	P CI ittis dise	F RE	F DI	F UR			Te
-		PRINCIPAL CAUSES OF DEATH.	1	VERAL DISRASUS- Septicienta Pulmonary tuberculosis Acute rheumatism	Ephlepsy	Pericarditis	Broncho-pneumonia	BASES OF DIGES Gastro-enteritis	EASES OF URINARY SYST Chronic Bright's disease	D AGE- Senility		
		PB	-	GENERAL DISRASES- Septicentia Pulmonary tubere Acute rheumatism	DISRASES OF NERVOUS SYSTEM- Epilepsy	DISFASES OF CINCULATORY SYSTEM Pericarditis	DISEASES OF RESPIRATORY SYSTEM- Broncho-pneumonia	DISRASES OF DIDESTIVE SYSTEM- Gastro-enteritis	DISEASES OF URINARY SYSTEM- Chronic Bright's disease	OLD AGE Senility		
_				6	D	Ä	D	Q	Ā	6		

TABLE XL. (continued). Montal Hospitals.-Showing the principal cause of death in each death during the year 1920, together with the ages at death in

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			Totals	F.		∞⊣:	-	:	-	9
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			er	E.		:::	:	:	:	:
			70 and over	M.		:::	:	:	:	:
			60	12	1	:::	:	:	:	:
		1	65-	W.		:::	:	:	:	:
			-64	F.		:::	:	:	:	: ]
		-	60-	W.		:::	:	:	:	1 :
			62-	F.		:::	:	:	:	1 :
			22	M.		:::	1 :	:	:	:
		TODS	-54	F.		:::	;	:	:	:
		L PEH	20-	M.		:::	:	:	:	:
	HOSPITAL.	AGRS AT DEATH IN QUINQUENNIAL PERIODS.	4549	B.		:::)	:	:	:	:
	SPI	GUE	45	M.		:::	:	:	:	:
		dun	40-44	E.		:::	:	:	:	:
D	MENTAL	H IN		M.		:::	:	:	:	:
ts. (	ENJ	DEAT		E.		:::	:	:	:	:
erioc		AT	35-	M.		:::	:	:	:	:
quinquennial periods. (D 2.)	(TEMPORARY)	AGRS	-34	. F.		:::	:	:	:	:
nnic	OR/		30-	M.		:::	:	:	:	:
antre	MP		63-4	E.		:::	:	:	:	:
unb	E		1 25-	. M.		:::		:	:	:
	NIN		20-24	M. F.		:::	:	-	:	:
	FOUNTAIN					:::	:	:	:	
	FOU		5-15	M. F.		::::	:	:	:	:
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			AUSE .			SES	disc	:	PIRA	Totals
			AL C			COUR J	F NE Drain	(ile)	F RES	To
			FRINCIPAL CAUSES OF DEATH.			NERAL DISEASES- Scarlet fever Influenza Tuberculous peritonitis	SEASES OF NERVOUS SYS Chronic brain discase General marchesis of	uven	Pneumonia	
		Durd	FR			ENERAL DISEASES- Scarlet fever Influenza Tuberculous perito	DISEASES OF NERVOUS SYSTEM-	0	DISEASES OF RESPIRATORY SYSTEM Pneumonia	
						e	9		A	

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 TABLE XL. (continued).
 Mental Hospitals.—Showing the principal cause of death in each death during the year 1920, together with the ages at death in quinquennial periods. (D 2.)

							LE	AVE	SD	EN	ME	NT	AL	HO	SPI	TAL	• *														
											1	AGES	AT 1	DEAT	II IN	QUI	NQUE	NNIA	L PE	RIODS	s.										
PRINCIPAL CAUSES OF DEATH.		ess n 10	10-	-14	15-	-19	20-	-24	25-	-29	30-	-34	35-	-39	40-	-44	45-	-49	50-	-54	55-	-59	60-	-64	65-	-69	70	and	1	Cotals	
	м.	F.	м.	F.	М.	F.	м.	F.	М.	F.	м.	F.	м.	F.	М.	F.	м.	F,	М.	F.	М.	F.	м.	F.	М.	F.	м.	F.	М.	F. 1	E.
Septicemia Pulmonary tuberculosis Tuberculosis of cranism Tuberculous meningitis					1  		1	:::::::::::::::::::::::::::::::::::::::	`i 			** .		 	19							1 1 1 24				1	1.22	1.221	2 :23 1 1 1 :1 :1	224 24 11 1	92471021131
Status epilepticus			11	2	 i`		 1	::		::		11	10.0			::		'i		::					11			1		1214	10161
DISEASES OF CIRCULATORY SYSTEM- Valvular disease of heart Fatty degeneration of heart Pericarditis			ï		::		··· ··· ··										::	1		::						2111		21	31.12	1	135116
Catarrhal pneumonia	::	 			  1	::	::	::	::			::					::	**			1.4.4	1					ʻi ʻi	10:11	`i `3	1 1 1 7 $1$	121
DISEASES OF DEGESTIVE SYSTEM- Cirrhosis of liver	•				1								,																1		1
DISEASES OF URINARY SYSTEM- Chronic nephritis Pyo-nephrosis		::			::		::		::						::		::				·i	1	::	::	::	2	::		ï	3	31
OLD AGE- Semile decay																							1	1		2		2	ı	5	6
Totals		2	4	6	7	5	5	3	3	1	3	2	2	8	2	5	2	5	2	3	3	9		12	-	10	-	19	47	83 13	-



TABLE XL. (continued). Mental Hospitals.—Showing the principal cause of death in each death during the year 1920, together with the ages at death in quinquennial periods. (D 2.)

												AG		T DE	ATH	IN OF	INOI	URNNI	IL P	PPIO	ne										
PRINCIPAL CAUSES OF D	EATH.	L				1	20122						6.5	2.00										10.5	1100		1.000	70	and		
		tha	n 10	10-	-14	15-	-19	20-	-24	25-	-29	30-	-34	35-	-39	40-	44	45-	49	50-	-54	55-	-59	60-	-64	65-	-69	01	er	T	otals
		М.	F.	м.	F.	М.	F.	м.	F.	м.	F.	М.	F.	м.	F.	М.	F.	М.	F.	м.	F.	М.	F.	М.	F.	M	F.	M.	F.	м.	F.
SENERAL DISEASES-																															
Phthisis Cancer of cesophagus											1													•:						1	1
" femur	:	:::					::			::	::	::	::		::	::				::		::					::	ï	::	1	::
ISEASES OF NERVOUS SYST	EM-					1																									
Chronic brain disease General paralysis of the i	** **					2				1	1											1			2					4	3
Cerebral hæmorrhage			**	11			::	12					::		::	1		::				'i	::	ï	ĩ	::	::	·:	•:2	18	**
Pontine hæmorrhage Cerebral softening	:																										1.1	1		1	1
" thrombosis					::		::		::	::			::							::	ï				::					1	ʻi
ISEASES OF CIRCULATORY	SYSTEM-																														
Fatty degeneration of he Chronic heart disease	art																									• • • • •	·:2	1	1	1	1
Cardiac syncope		:::																		::		4		4					37	10	6 8
Chronic pericarditis					••						1																			::	1
SEASES OF RESPIRATORY :	SYSTEM-																														
Pleural effusion Acute pneumonia	:				•••	::			::			••		::		::		::						-;	'i	·:2	ï			1 4	4
Broncho-pneumonia																							::		1		1			1	2
															~							-								-	
SEASES OF URINARY SYST Chronic Bright's disease	— ма																														
Chronic cystitis			::						::	::				::		1		::				ï	::							3 1	
D AGE-																															
Senile decay				•••	••											••	•••					•••		6	3	14	10	75	148	95 1	61 1
Totals						2		1		1	3					2			1		1	11		14	10	20	15	84 1	1.62	135 1	92 3
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NERAL DISEASES- Pulmonary tuberculosis			1																												1
																															1
BEASES OF NERVOUS SYST	ам-	35																													
Chronic brain disease Status epilepticus		1		::	'i			••				••		••		••						••		••		••		•••		1	
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PRINCIPAL CAUSES	OF DEATH.	than	10.	10-	_	15-	_	20-	-	25-			-34	_	-39	40-		45-		50-	4		-59		-64		-69	01	and		otals	
		М.	F.	М.	F.	М.	F.	м.	¥.	м.	F.	м.	F.	м.	F.	М.	¥.	м.	¥.	М.	¥.	М.	F.	М.	F.	М.	¥,	м.	F.	м.	F.	т.
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Cancer , of œsophagu , femur Carcinoma of uterus Sarcoma of arm						··· ···									1								2	`i 				··· ··		· 1 · 1 · 1	3 : : 21 :	31191
Osteo-arthritis				::		::					`i 	1									 'i									ï	1 1 1	112
DISEASES OF NERVOUS ORGANS OF SPECIAL S Chronic meningitis Congenital disease of Chronic	ENSE-		1 'i	1 .:	'i 'i	•;		::		 	 .i									 `i		`i 	::		: :9		::			1	1 1 4	2 1 11
Cerebral hæmorrhag abscess Manla										··· ··· ·i						1	 				  .i	``i ``		::•• ::		··· 2 ···	···6 ···	··· ··7 ···	`i 11 	12 12  7	ï	4 1 36 1 13
Otitis media										.:			1																		1	1
DISEASES OF CIRCULATO Chronic heart diseas Abdominal ancurism Arterio-sclerosis Gerebral thrombosis Gangrene				::		::				1  	••• : : : :	1			1  				4			7  	•••••••••••••••••••••••••••••••••••••••	5	6 .1 .2	4  1	7	4	$\overset{16}{\overset{1}{}}_{}^{}_{}$	23 2	$\begin{smallmatrix} 38\\1\\1\\2\end{smallmatrix}$	61 1 1 3 2
DISEASES OF RESPIRATO Bronchitis Bronchiectasis Pleurisy	DRY SYSTEM	::						::							::	::	·i						 .i	.:		.:	1		2	:::00	31	313
Pneumonia Broncho-pneumonia Lobar pneumonia Hypostatic pneumor	: : :			1		`i 1	 `i	 		 i				··· ··· ··	··· ···	··· ···	: : : : : : :		`i 	``i 		1 1 1 1 1		· · · · ·	1 1 1 	::::	1122	1  1 	··· ··· ··· ··· ··· ··· ··· ··· ··· ··	15351	2	11 5 17 1
Acute enteritis	SYSTEM—	-		1				`i	::			.:														::		::	 'i	·:2	 `i	:01-
Appendicitis		1				ï								**		`i 							  .i		`i 					1 1 1 	1 1 2	1011101
Pyo-nephrosis	SYSTEN-							2								1 .:.		••			1	`i 1	1 .:	1		1 .:	<sup>22</sup>			5 1 1	4 .:	9 1 1
OLD AGE- Senile decay																								7	4	14	14	76	163	97 1	81 2	78
Accident- Fracture of thigh																	•												1		1	1
Totals .		7	8	9	9	11	6	12	6	7	10	7	4	4	8	6	8	2	9	5	8	18	15	20	30	27	36	93 :	200	228 3	166 5	04

 TABLE XL. (continued).
 Mental Hospitals.—Showing the principal cause of death in each death during the year 1920, together with the ages at death in quinquennial periods. (D 2.)



TABLE XLI.—Showing the form of mental disorder on 31 December, 1920, of those on the registers at that date at the Mental Hospitals. (E 2.)

				Ment	Caterham Mental Hospital.		Trainir	Darenth Training Colony	ony.	Fountair Mental Hospital	Fountain Mental Hospitai.	Mer	Leavesden Mental Hospital.	len spital.	Tool H	Tooting B Mental Mospital	00 .	Tooting Bec Receiving Non for Children.	-	Bec Home ren.
Form	Forms of mental disorder on 31 December, 1920.	ember, 1920		M.	F.		M.	E.	E.	M. F	H.	M	F.	T.	M.	E.	T.	W.	E.	E
Gengenital or intential de- ficiency or ficiency or (idiocy or occuring as a stit can be as it can be a stit can be observed.	1. Intellectual $\begin{pmatrix} a \\ b \end{pmatrix}$ . With epilepsy 2. Moral	spsy pilepsy	:::	117 345	114 423 	231 768 	462 2	95 396 	206 858 	43	51 94 44 233	94 137 33 373 · ··	7 145 3 381	252 1754	6 • 49	6 56	$12 \\ 105 \\$	: :	-1-	14
Insanity occurring later in life.	1. Insanity with epilepsy          2. General paralysis of the insane       2         3. Insanity with grosser brain lesions       4         4. Acute delirium          5. Confusional insanity          6. Stupor          7. Primary dementia          8. Mania $\begin{cases} a. Recent          9. Melancholia \begin{cases} b. Chronic          10. Alternating insanity          11. Delusional insanity       \begin{pmatrix} a. Recent         12. Volitional insanity       \begin{pmatrix} a. Recent         13. Moral insanity       \begin{pmatrix} a. Systemat         14. Dementia     $	insane	tised	6 · · · · · · · · · · · · · · · · · · ·	$\begin{smallmatrix} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ $	$\begin{array}{c} 36\\ 1\\ 1\\ 2\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\$			· · · · · · · · · · · · · · · · · · ·			$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11 6 1 18 18 18 18 18 18 18 18 18	$\begin{smallmatrix} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ $	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\$			:::::::::::::::::::::::::::::::::::::::
	Totals	••		626	891 1	,517	575	495 1,	,070	132 1	195 32	7 722	2 967	1,689	375	546	921	-	00	15
Prospect of m	Prospect of mental recovery Unfavourable	:::	:::	.: 30 596	20 871	 50 1,467	:::		:::	···· ···	. : :		: :96	7 1,639	375	 546	 921	::*	::*	12::

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•

TABLE XLI. (continued).—Showing the form of mental disorder on 31 December, 1920, of those on the registers at that date at the mental hospitals. (E 2.)

	Construction of the second			
- 1	orms of mental disorder on 31 December, 1920.	М.	F.	т.
or in- mental (idiocy lity) oc- s early it can	I Intellectual f a. With epilepsy	414	412	820
nital le lency lency ng as fe as serve	1. Intellectual b. Without epilepsy	1,325	1,407	2,73
Congenit funtile deficien or imbe curring in life be obse	2. Moral			
	1. Insanity with epilepsy	36	69	103
	2. General paralysis of the insane	6	7	1:
	3. Insanity with grosser brain lesions	6	12	18
	4. Acute delirium	1	1	-
e.	5. Confusional insanity	2	3	1
Insanity occurring later in life.	6. Stupor			
in	7. Primary dementia	35	22	5
er	a. Recent	1	1	
lat	8. Mania b. Chronic	21	86	10
38	(c. Recurrent		3	-
rir	9. Melancholia $\begin{cases} a. \text{ Recent } \dots & \dots & \dots \\ b. \text{ Chronic } \dots & \dots & \dots \\ \dots & \dots & \dots & \dots \\ \end{pmatrix}$		3	
Inc	/ a Decommont	21	68 2	8
000	10 Alternating incentity	2 1	2	1
B	(a Systematicad	21	61	8
nit	11. Delusional insanity b. Non-systematised	19	27	4
88	(a. Impulse			
In	12. Volitional insanity b. Obsession			
	c. Doubt			
	13. Moral insanity			
	14 Demontia (a. Senile	286	492	778
	14. Dementia $\begin{pmatrix} a. \text{ Senile} & \cdots & \cdots & \cdots & \cdots \\ b. \text{ Secondary} & \cdots & \cdots & \cdots & \cdots & \cdots \\ & & & & & & & & &$	240	426	666
	Totals	2,437	3,102	5,539
	(Favourable			
Prospect of	nental recovery Doubtful			
Trouters or 1	Unfavourable	1,700	2,464	4,164
	· · · · · · · · · · · · · · · · · · ·	1,100	2,204	3,109

#### SUMMARY.

TABLE XLII.

Showing the admissions, deaths and discharges of feeble-minded patients during the year 1920.

,

	-	DAI	DARENTH TRAINING COLONY.	COLONY.	DNIN			BR	BRIDCE TRAINING HOME.	E TRAIN HOME.	ING			EDMO	EDMONTON EPILEPTIC COLONY.	TON EPII	EPT	2
	М.	F.	Total.	м.	Ŀ.	Total.	М.	F.	Total.	M.	E.	Total.	M.	F.	Total.	M.	F.	Total.
Remaining 31 December, 1919 Direct admissions	254 39	310	564 76	:;	::	::	132 11	::	132	::	: :	::	24	::	24	::	::	::
the Board for feeble-minded	-	:	1	:	:	:	16	:	16	:	:	:	:	:		:	:	:
Total eases under treatment during the year	:	:	:	294	347	641	:	:	:	159	:	159	:	:	:	24	:	24
Discharged	*17	00	25	:	:	:	1	:		:	:	:	1	:	1	:	:	:
Transferred to other institutions of the Board for feeble-minded Died	16	: 4	16	::	::	::	1	::		::	::	::	::	::	::	::	::	• ;
Total transferred, discharged, and died		:		36	12	48		:	:	8	:	90	:	:	:	-	:	1
Remaining 31 December, 1920	1	:	:	258	335	593	:	:	:	151	:	151	:	:	: -	23	:	23
				1.	Inelu	* Includes 2 escapes.	abes.											

	М.	F.	Total.	M.	F.	Total.
Remaining 31 December, 1919		0.7	07	410	310	72
Direct admissions	50	37	87	50	37	8
Total cases under treatment during the year			-	460	347	80
Discharged Died	0	8 4	33 7		-	
Total discharged and died		!		28	12	4
Remaining 31 December, 1920			[	432	335	76

**TABLE** XLII. (continued).—Summary of admissions, deaths, and discharges of feeble-minded patients during 1920.

#### TABLE XLIII.

Showing the admissions, transfers, discharges, and deaths of patients admitted under the provisions of the Mental Deficiency Act, 1913, during 1920.

Mental Ho	spi al	L.		ema ng 3 c.,19	1		mitt	ted.	f o	ron	r al	trea dur	and	ent	ch	Distre		fe: 0 m	rans red the ient spit	to r al	D	eatl	15.	1	ema ng 3 c., 1	31
			M.	F.	Tota'.	М.	F.	Total.	м.	F.	Total.	м.	F.	Total.	м.	F.	Total.	М.	F	To'al	м.	F.	fotal.	M	F.	Total.
Caterham			10	35	45	93	64	157	84	12	96	187	111	298	5	6	11	9	1	10	3	5	8	170	99	269
Darenth T.C.			2:0	182	402	89	98	187	4	2	6	313	282	595	17	16	•33	37	38	75	4	2	Ģ	255	226	48)
Fountain			89	74	163	86	118	204	6	17	23	181	209	390	9	2	11	68	15	83	7	13	20	97	179	276
Leavesden			69	25	94	31	9	40	22	23	45	122	57	179	8	3	11	2		2	8	3	11	:04	51	158
Totals			388	316	704	299	289	588	116	54	170				39	27	66	116	54	170	22	23	45	626	55	1181

\* Includes 3 escaped cases, and 10 on leave.

**TABLE** XLIII. (continued).—Summary of admissions, discharges, and deaths of pati nts during the year 1920, admitted under the provisions of the Mental Deficiency Act, 1913.

	М.	F.	Total.	М.	F.	Total.
Remaining 31 December, 1919 Total cases admitted during the year	388 299	316 289	704 588			
Total cases under treatment during the yearDischarged during the yearDied	39 22	27 23	66 45	687	605	1292
Total cases discharged and died during the year				61	50	111
Remaining 31 December, 1920				626	555	1181

								EP	ILI	NTO EPT DNY	IC	
					1.2.1.1.1		м.	F.	т.	М.	F.	Т.
Remaining 3 Direct admis	31 Dec ssions	ember, 	1919			 	67			239 67	20  3	259 70
Total cases u Discharged Died	under 1 	treatm 	ent dui 	ring th	e year 	  	 47 5	 3 	 50 5	306 	23	329
Total discha	rged, o	lied				 				52	3	55
Remaining 3	1 Dec	ember,	1920							254	20	274

TABLE XLIV.—Showing the admissions, deaths, and discharges of same epileptic patients for the year 1920.

#### TABLE XLV.-VENEREAL DISEASES.

Sheffield Street Hospital (opened 21 June, 1920), for women suffering from venereal diseases.

Table of admissions, discharges, deaths, and number born in the hospital during 1920.

							Women.	Babies.
Remaining unde						 	 103	-
Born in hospital						 	 -	3
Discharges						 	 68	2
Deaths Remaining unde	r trea	tment	31 Dec	ember.	1920	 	 35	2

### TABLE XLV. (continued) .- VENEREAL DISEASES.

Thavies Inn institution for parturient women suffering from venereal diseases. Table of admissions, discharges, deaths, and number born in the institution during 1920.

							Women.	Babies.
Remaining unde	r tres	tment	31 Dec	ember,	1919	 	 16	6
Admissions						 	 69	
Born in hospital			···			 	 	66
Discharges						 	 75	69
Deaths						 	 	. 1
Remaining unde	r trea	tment	31 Dec	ember.	1920	 	 10	2

### TABLE XLVI. - OPHTHALMIA NEONATORUM.

Showing the admissions, discharges, and deaths of patients during 1920.

	- 31	naini Dec. 1919.	ng .	Adn	nissi	ons.	Disc	ehar;	zes.	D	eath	s.		mainir Dec., 19	
Hospital.	Women.	Babies.	Total.	Women.	Babies.	Total.	Women.	Babies.	Total.	Women.	Babies.	Total.	Women.	Babies.	Total.
St. Margaret's	7	31	38	138	252	390	134	256	390	-	9	9	11	18	29

TABLE XLVII.—Return of work of the Land Ambulance Service during 1920.

	PARTI	CULARS	OF WOI	ιк.					Patients, &c. removed.	Journeys made.	Miles run
INFECTIOUS	CASES.										
REMOVALS FROM I	HOME-										
			er case						34,285	32,698	406,25
To the Board's	hospitals		dlpox o			***			244	200	
			erculo ercal c						67	47	4,10
To the Board's	where		er case						1,823	1,774	27,1
			llpox o			***			57	49	1,2
To general hos	pitais		454						200		
OTHER REMOVALS From general Board's hosp	hospitals										
									402	396	3,3
Patients return	ned home,	∫ Fev	er caset	8					21	21	2
mistaken di Patients sent fo			dipox c		form			•••	6	5 728	5,9
Patients' friend										120	0,0
* 11 11	taken f									2	
TRANSFERS BETWI	ENN HOSPIT	ALS-									
TRANSFERS DELWI	Nort	hern							4,129	481	13,5
Fever patients	to Sout	hern							8,689	780	31,2
	/ Joyc	e Greet	le of ci		"for				2,106	263	9,9
Transfers betw Other transfer									3	3 42	5
		There			-					42	
From hospital										070	6,2
r rom nospital	s to nomes	(From	North						457 3,904	378 271	10,1
To ambulance	stations		Southe	ern					8,072	478	22,5
		1	Joyce	Green					4,160	307	11,6
From ambular	ace station		bulanc nes				***	•••	655	212 9	3,4
" wharves	to ambula						***		12 831	76	1,1
11 12	homes								1	1	
CONVEYANCE OF											
To places othe			ers' ins	titutic	ons (p)	rivate	remov	als)	4,194	2,955	59,4
Lost journeys										66	7
									74,840	42,242	619,8
INON-INFECT	TIOUS CA	SES.									
BOARD'S CASES- Imbeciles				1						100	6,2
Ringworm (ch											0.4
	ildren)								969		
Ophthalmia (c	hildren)								969 906 20	113	2,0
Ophthalmia (c Defective child	hildren) iren		···· ···			···· ····			906 20 13	113 12 7	2,0 2 3
Ophthalmia (c Defective child Sick and debil	hildren) Iren litated chil	 dren	 		···· ···				906 20 13 1,467	113 12 7 232	2,0 2 3 9,7
Ophthalmia (c Defective child Sick and debil Casuals	hildren) Iren litated chil	 dren	 		···· ···				906 20 13 1,467 32	113 12 7 232 29	2,0 2 9,7 2
Ophthalmia (c Defective child Sick and debil	hildren) fren litated chil r persons	 dren	 		···· ···				906 20 13 1,467 82 59	113 12 7 232 29	2,0 2 9,7 2 9,7
Ophthalmia (c Defective child Sick and debil Casuals Staff and other	hildren) fren litated chil r persons	 dren		····	····		···· ···· ···		906 20 13 1,467 32	113 12 7 232 29 42	2,0 9,1 1,8
Ophthalmia (c Defective child Sick and dobil Casuals Staff and other Lost journeys Other cases	hildren) Iren litated chil r persons	 Idren	···· ··· ···	···· ··· ···			···· ···· ···		906 20 13 1,467 82 59	113 12 7 232 29 42 207	2,0 9,1 1,8
Ophthalmia (c Defective child Sick and debil Casuals Staff and other Lost journeys Other cases PRIVATE CASES- To other than	hildren) fren litated chil r persons  the Manag	dren   gers' ins							906 20 13 1,467 82 59	118 12 77 2322 29 42 207 23	2,0 2 9,7 2 0 1,8 1,0
Ophthalmia (c Defective child Sick and debil Casuals Staff and other Lost journeys Other cases PRIVATE CASES-	hildren) fren litated chil r persons  the Manag	dren   gers' ins							906 20 13 1,467 82 59  82	118 12 77 2322 29 42 207 23	2,0 2 3 9,7 2 0 1,8 1,0 127,8
Ophthalmia (c Defective child Sick and debil Casuals Staff and other Lost journeys Other cases PRIVATE CASES- To other than	hildren) fren litated chil r persons  the Manag	dren   gers' ins	   	   ns (pr	   ivate				906 20 13 1,467 82 59  82	118 12 77 2322 29 42 207 23	2,0 2 3 9,7 2 0 1,8 1,0 127,8
Ophthalmia (c Defective child Sick and dobil Casuals Staff and other Lost journeys Other cases PRIVATE CASES— To other than Naval and mi	hildren) fren ilitated chil r persons  the Manag litary case	dren   gers' ins	   	   ns (pr	   ivate				906 200 13 1,467 32 59  82 14,632 14,632	118 12 7 232 299 42 207 23 23 8,740 1	2,0 2 3 9,7 2 0 1,8 1,0 127,8
Ophthalmia (c Defective child Sick and dobil Casuals Staff and other Lost journeys Other cases PRIVATE CASES— To other than Naval and mi	hildren) fren ilitated chil r persons  the Manag litary case	dren   gers' ins	   	   ns (pr	   ivate				906 200 13 1,467 32 59  82 14,632 14,632 1 18,181	118 12 232 29 42 207 23 8,740 1 9,539	2,0 9,7 1,8 1,8 1,2 127,5 150,5
Ophthalmia (c Defective child Sick and debil Casuals Staff and other Lost journeys Other cases PRIVATE cases- To other than Naval and mi IIIOTHER WO CONVEYANCE OF (	hildren) fren ilitated chil r persons  the Manag litary case RK Committee	 dren   gers' ins s		    	  ivate				906 20 113 1,467 32 59  82 14,632 1 14,632 1 18,181 154	118 12 7 232 29 42 207 23 8,740 1 9,539 9,539 51	2,0 2 9,7 2 0 1,8 1,0 127,5 150,3
Ophthalmia (c Defective child Sick and dobil Casuals Staff and other Lost journeys Other cases PRIVATE cases— To other than Naval and mi III OTHER WO CONVEYANCE OF C	hildren) fren ilitated chil r persons  the Manag litary case RK Committee STAFF	dren  gers' ins s s		    	   ivate	remov	als)		906 20 113 1,467 32 59  82 14,632 1 14,632 1 18,181 18,181 154 117	113 12 7 232 29 42 207 23 8,740 1 9,539 9,539 51 48	2,0 2 9,7 2 0 1,8 1,0 127,8 150,3
Ophthalmia (c Defective child Sick and debil Casuals Staff and other Lost journeys Other cases PRIVATE cases- To other than Naval and mi IIIOTHER WO CONVEYANCE OF (	hildren) fren ilitated chil r persons  the Manag litary case RK Committee STAFF	dren  gers' ins s s		    	   ivate	remov	als)		906 20 13 1,467 32 59  82 14,632 1 14,632 1 18,181 154 117 	113 12 7 232 29 42 207 23 8,740 1 9,539 9,539 51 48 3,057	2,0 2 3,9,7 2 0 1,8 1,0 127,8 150,3 2 5 69,6
Ophthalmia (c Defective child Sick and dobil Casuals Staff and other Lost journeys Other cases PRIVATE cases— To other than Naval and mi III OTHER WO CONVEYANCE OF C	hildren) fren ilitated chil r persons  the Manag litary case RK Committee STAFF	dren  gers' ins s s		    	   ivate	remov	als)		906 20 113 1,467 32 59  82 14,632 1 14,632 1 18,181 18,181 154 117	113 12 7 232 29 42 207 23 8,740 1 9,539 9,539 51 48	2,0 2 3,9,7 2 0 1,8 1,0 127,8 150,3 2 5 69,6
Ophthalmia (c Defective child Sick and dobil Casuals	hildren) fren itated chil r persons  the Manag litary case RK— Committee STAFF  MENTS ANI	dren  gers' ins s s	titutio	    	ivate	remov	als)		906 20 113 1,467 32 59  82 14,632 1 18,181 18,181 154 117  271	113 12 7 232 29 42 207 23 8,740 1 9,539 9,539 51 48 3,057 3,156	2,0 2 9,7 2 0 1,8 1,0 127,8 150,3 150,3 7 69,6 71,0
Ophthalmia (c Defective child Sick and dobil Casuals	hildren) fren litated chil r persons the Manag litary case RK- COMMITTER STAFF SMENTS ANI r 1920	dren  gers' ins s s o conve	titutio	       			als)		906 200 13 1,467 32 59  82 14,632 1 14,632 1 14,632 1 154 117  271 92,792	118 12 7 232 299 42 207 23 8,740 1 9,539 54,937	2,0 2 9,7 2 1,8 1,0 127,8 150,3 150,3 69,6 71,6 841,18
Ophthalmia (c Defective child Sick and dobil Casuals	hildren) fren itated chil r persons  the Manag litary case RK— Committee STAFF  MENTS ANI	dren   gers' ins s s o conve	titutio	    	ivate		als)		906 20 113 1,467 32 59  82 14,632 1 18,181 18,181 154 117  271	118 12 7 232 29 42 207 23 8,740 1 9,539 54 3,057 3,156 54,937 39,622	2,0 2 9,7 2 6 1,8 1,0 127,8 150,3 150,3 69,6 71,0 841,18 580,43
Ophthalmia (c Defective child Sick and dobil Casuals	hildren) fren litated chil r persons  the Manag litary case RK Committee STAFF STAFF COMMITTEE STAFF INFO 1919 1918 1917	dren   gers' ins s s o conve		      			als)		906 20 113 1,467 32 59  82 14,632 1 18,181 18,181 154 117  271 92,792 60,068 43,238 42,019	118 12 7 232 29 42 207 23 8,740 1 9,539 51 48 3,057 3,156 54,937 39,622 29,622	2,0 2 3,7 9,7 2 6 1,8 1,0 127,8 150,3 150,3 7 69,6 71,0 841,18 580,43 417,66 430,73
Ophthalmia (c Defective child Sick and debil Casuals	hildren) fren litated chil r persons  the Manag litary case RK Committee STAFF STAFF COMMITTEE STAFF INFO 1919 1918 1916	dren  gers' ins s s o conve	titutio	       	····	reinov	als)		906 200 13 1,467 32 59  82 14,632 1 14,632 1 14,632 1 14,632 1 15,181 154 117 154 117 10 2711 92,792 60,068 43,238 42,019 53,467	118 122 7 232 299 42 207 23 8,740 1 9,539 54,937 3,156 54,937 39,622 30,276 29,522 30,996	2,0 2 3, 9,7 2 6 1,8 1,0 127,8 150,3 150,3 69,6 71,0 841,18 580,43 417,60 4330,73 468,33
Ophthalmia (c Defective child Sick and dobil Casuals Staff and other Lost journeys Other cases PRIVATE CASES- To other than Naval and mi UIL-OTHER WO CONVETANCE OF C CONVETANCE OF SERVICE REQUIRE SERVICE REQUIRE Total for "" ""	hildren) fren litated chil r persons  the Manag litary case RK COMMITTER STAFF SMENTS ANI 1919 1919 1919 1919 1917 1915	dren  gers' ins s o conve			ivate	TEINOV	als)		906 200 13 1,467 32 59  82 14,632 1 18,181 18,181 154 118,181 154 117 92,792 60,068 43,238 42,019 53,467 66,807	113 12 7 232 29 42 207 23 8,740 1 9,539 54 3,156 54,937 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 30,976 29,622 20,976 20,627	2,0 2 3 9,7 2 6 1,8 1,0 127,8 150,3 150,3 (69,6 71,0 841,11 580,43 417,66 430,73 430,73 448,33 500,44
Ophthalmia (c Defective child Sick and dobil Casuals Staff and other Lost journeys Other cases Private cases To other than Naval and mi III OTHER WO CONVEYANCE OF ( CONVEYANCE OF ( SERVICE REQUIRE SERVICE REQUIRE """"""""""""""""""""""""""""""""""""	hildren) fren litated chil r persons  the Manag litary case RK Committee STAFF STAFF COMMITTEE STAFF INFO 1919 1918 1916	dren  gers' ins s s o conve	titutio	     	····	reinov	als)		906 200 13 1,467 32 59  82 14,632 1 14,632 1 14,632 1 14,632 1 15,181 154 117 154 117 10 2711 92,792 60,068 43,238 42,019 53,467	118 12 7 232 29 42 207 23 8,740 1 9,539 51 48 3,057 3,156 54,937 39,622 30,276 29,522 30,996 38,848 43,269	2,0 2 3,7 9,7 2 6 1,8 1,0 127,8 150,3 150,3 150,3 50,6 71,0 841,18 580,45 417,66 430,73 4468,33 590,44 634,35
Ophthalmia (c Defective child Sick and dobil Casuals Staff and other Lost journeys Other cases PRIVATE CASES- To other than Naval and mi UIL-OTHER WO CONVETANCE OF C CONVETANCE OF SERVICE REQUIRE SERVICE REQUIRE Total for "" ""	hildren) Iren itated chil r persons  the Manag litary case RK— Соммиттен starF  1919 1918 1919 1918 1919 1919 1919 1918 1918 1918 1918 1918 1918 1918 1918 1918 1918 1918 1918 1918 1919 1918	dren  gers' ins s o conve	TANCE (		ivate	TEINOV	als)		906 200 13 1,467 32 59  82 14,632 1 18,181 154 117 271 92,792 60,068 43,238 42,019 53,467 66,807 81,305 70,266 56,964	118 12 7 232 299 42 207 23 8,740 1 9,539 54,937 3,156 54,937 39,622 30,276 29,522 30,276 29,522 30,276 29,583 30,390	2,0 2 3 9,7 2 6 6 8 1,0 127,8 150,3 150,3 5 7 69,6 71,0 841,18 580,43 417,95 430,73 590,44 634,33 590,44 419,20
Ophthalmia (c Defective child Sick and dobil Casuals	hildren) Iren Iren Itated chil r persons  r persons the Manag litary case RK— Соммиттве STAFF  MENTS ANI 1918 1917 1916 1913 1913 1913 1911	dren  gers' ins s o conve	titutio		ivate	store	als)		906 200 13 1,467 32 59  82 14,632 1 18,181 18,181 154 118,181 92,792 60,068 43,238 42,019 53,467 66,807 81,905 70,266 56,664 49,183	113 12 7 232 29 42 207 23 8,740 1 9,539 54,937 3,156 54,937 30,976 29,522 30,976 29,522 30,976 29,588 30,276 29,588 30,390 28,5848 30,390 28,5868 30,390 28,5868 30,390 28,5868 30,390 28,5868 30,390 28,5868 30,390 28,5067 30,390 28,5868 30,390 28,5067 30,576 30,576 30,576 30,576 30,576 30,5878 30,5878 30,5878 30,5878 30,5878 30,5878 30,5878 30,5878 30,5878 30,5878 30,5878 30,5878 30,5878 30,5808 30,5808 30,5808 30,5908	2,0 2 3 9,7 2 6 6 1,8 1,0 127,8 150,3 150,3 5 7,69,6 71,0 841,18 580,43 417,66 430,77 448,33 417,66 433,35 481,23 550,44 634,35
Ophthalmia (c Defective child Sick and dobil Casuals Staff and other Lost journeys Other cases Private cases To other than Naval and mi UII OTHER WO CONVEYANCE OF SERVICE REQUIRE SERVICE REQUIRE Total for """ """"""""""""""""""""""""""""""""	hildren) Iren Iren Itated chil r persons  r persons the Manag litary case RK— Соммиттве STAFF  MENTS ANI 1918 1917 1916 1913 1913 1913 1911	dren  gers' ins s s c conve         	titutio	        	ivate	store	als)		906 200 13 1,467 32 59  82 14,632 1 18,181 154 117 271 92,792 60,068 43,238 42,019 53,467 66,807 81,305 70,266 56,964	113 12 7 232 29 42 207 23 8,740 1 9,539 54,937 3,057 3,156 54,937 30,976 29,522 30,976 29,522 30,976 29,522 30,976 29,588 33,059 35,884 32,959 35,884 30,990 28,506 542,255	2,0 2 3 9,7 2 6 6 8 1,0 127,8 150,3 150,3 5 7 69,6 71,0 841,18 580,43 417,95 430,73 590,44 634,33 590,44 419,20

In addition to the above work 91,667 miles were run by meter vehicles attached to outlying institutions.

#### TABLE XLVIII.-RIVER SERVICE.

Number of patients, visitors, staff, etc., conveyed to and from Long Reach during the year 1920.

Молтн.		Patients conveyed to Long Reach.	Recovered cases conveyed from Long Reach.	Visitors conveyed to and from Long Reach (including Managers).	Staff. etc conveyed to and from Long Reach	Totals.
Tenner		-			00	0.00
January		47	147		38	232
February March		34	97	2	27	160
			3	1	20	39
April May	••	16	14		20	50
Tune		2	12	1	6	21
Tula		6		11	13	- 30
	•••		2	••		2
August			::	•• .		::.
September		238	160	4	42	544
October		707	274	6	74	1,061
November		848	476		86	1,410
December		599	675	•••	75	1,349
Totals for 1920		2,606	1,860	31	401	4,898
Totals for 1919		202	391	40	161	794
Totals for 1918		210	37	19	137	403
Totals for 1917		426		24	246	696
Totals for 1916		994		53	365	1,415
Totals for 1915		1,552	563	538	106	2,759
Totals for 1914		4,619	2,963	2,750	625	10,957
Totals for 1913	·	1,368	1,381	19	449	3,217
Totals for 1912		5	4	5	287	301
Totals for 1911		61	50	21	365	497
Totals for 1910		7	11	37	402	457
Totals for 1909		15	10	19	829	873
Totals for 1908		1	1	13	799	814
Totals for 1907		458	2	5	412	877
Totals 1884 to 1906 (inclusive)		26,143	the second se	13,905	34,853	97,237
Grand totals		38,667	29,609	17,479	40,437	126,195

#### STEAMERS.

STEAMER		Fires a	light.	Under	steam.	Under	way.	Coal con	sumed.	Number of days when	Distance run.
		Hours.	Mins.	Hours.	Mins.	Hours.	Mins.	Tons.	Cwts.	steam raised.	Miles.
"Albert Victor"		3,178		2,077		113	49	59		42	1,221
"Geneva Cross" "Maltese Cross"		3,129		1,370		230	36		8		2,346
"White Cross"		7,673 1,056		4,713 414		186 71	36 20	55 60		78 29	1,974 765
Totals	•••	15,036		8,574		602	21	269		230	6,306

Quantity of stores, parcels, etc., conveyed to and from Long Reach. Weight, 22 tons, 6 cwt., 1 qr., 14 lbs.

# TABLE XLIX .- SICK CHILDREN.

#### QUEEN MARY'S HOSPITAL.-GENERAL STATISTICS.

Year.	Admitted.	Total under treatment.	Discharged.	Transferred to other institutions of the Board.	Died.	Remaining at end of year.
1920	695	1,319	455	61	57	746

#### TABLE L.

#### CHILDREN'S INFIRMARY,

DISEASES FOR WHICH CHILDREN WERE ADMITTED TO THE CHILDREN'S INFIRMARY.

A.-SURGICAL.

TUBERCULAR DISEASESpineGlandsFingers		$1 \\ 2 \\ 1$	RESPIRATORY SYSTEM— Empyema Enlarged Tonsils	::	$\begin{array}{ccc} & & 3 \\ \ddots & & 10 \end{array}$
DEFORMITIES-Bow legs		3	DIGESTIVE SYSTEM— Rectal Polypus		1
DISEASES OF THE EAR- Otitis media		235	Total		256
	B	.—MEI	DICAL.		
DISEASES OF METABOLISM	::	$\begin{array}{c} 32\\17\\3\end{array}$	URINARY SYSTEM— Albuminuria Nephritis	::	2 1
RESPIRATORY SYSTEM— Bronchitis Broncho-pneumonia	. ::	$\frac{2}{1}$	NERVOUS SYSTEM— Infantile paralysis Chorea	::	$\begin{array}{ccc} & 5\\ \ddots & 31\\ \end{array}$
CIRCULATORY SYSTEM— Valvular disease Endocarditis Congenital heart	::	$\begin{array}{c} 27\\13\\2\end{array}$	GENERAL— Rickets Rheumatism	.:	22 9
DIGESTIVE SYSTEM— Enteritis		3	Tota	·	170

### TABLE LI.

### QUEEN MARY'S HOSPITAL FOR CHILDREN, CARSHALTON.

DISEASES AS STATED ON THE ADMISSION ORDERS.

A.-SURGICAL.

		A	150.	RGICAL.				
TUBERCULAR DISEASE-				DISEASES OF THE EAR				
			72	Outure				1
Spine	••	••		35		••	••	
Sacro-iliac			1	Mastoiditis	• •			1
Нір			78					
Knee			27	DEFORMITIES-				
Amble			5	0.1.1.0.1				1
								12
Tarsus			4	Scoliosis			••	
Metatarsus			1	Congenital disloca	tion of	hip		4
Elbow			2	Pyamic dislocation				2
TTT 1			ī	Ankylosis of knee				1
		••	-	Anaylosis of knee	••	•••		
Metacarpus		••	2	,, ,, hip	••	••	••	1
Bone			3	,, ,, elbow				1
Skin (including lupus	5)		14	Genu valgum				4.
			24	Curved tibia				6
		••			••			
,, ,, groin			1	Talipes equinovaru	18	• •		5
•				Pes cavus				1
				Flat foot				4
DISEASES OF BONE-				Mal-united fractur				1
NY I			11	I'm united	· · ·			î
Necrosis		••	11	Un-united ,,		••	••	-
Periostitis			2	Webbed toes				1
Fractures			2	After poliomyelitis				32
				foreing errer				
				Duanta mana C				
				RESPIRATORY SYSTEM-	-			-
DIGESTIVE SYSTEM-				Adenoids				8
Appendicitis			1	Empyema				3
YY			6			100		
TT., 1.212, 1 1	••			Courses				
Umbilical hernia		••	1	GENERAL-				
Fæcal fistula			1	Chronic pyæmia				1
				Sinus				4
				Abscess				6
Course Hannes Course	-				••	••	•••	1
GENITO-URINARY SYSTEM	1-			Carotid tumour		••	••	1
Varicocele			8	Suppurating prepa	tellar b	ursa		1
Undescended testicle			2	Burn				1
Retention of urine			ī	Arthritis of knee				1
		••	î			•••		î
Paraphimosis				Necrosis of skull		• •		1
Epispadias			1	Lymphosarcoma				1
				Stonesis of lamon				1
				Steposts of farvity				-
				Stenosis of larynx Sprain	•••	•••		î
Dunning on mun Fun				Sprain				1
DISEASES OF THE EYE-				Sprain				2
Iritis.,			1	Sprain				
T. L. I			1	Sprain		::		2
Iritis. Interstitial keratitis	::			Sprain	 	.: ::	 	2 2
Iritis.,			1	Sprain		.: ::		2
Iritis. Interstitial keratitis	::	::	$\frac{1}{2}$	Sprain Cicatrix, weak Varicose veins	 	.: ::	 	2 2
Iritis. Interstitial keratitis	::	::	$\frac{1}{2}$	Sprain Cicatrix, weak Varicose veins EDICAL.	  Total	.: ::	 	2 2
Iritis. Interstitial keratitis Corneal ulcer	::	::	$\frac{1}{2}$	Sprain Cicatrix, weak Varicose veins EDICAL.	  Total	.: ::	 	2 2
Iritis	::	.:	1 2 <i>B</i> .—M	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM-	  Total	 	  	2 2 389
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE- Lungs	 	.: .:	1 2 B.—M. 87	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis	  Total	  	  	2 2 389 16
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands	 	.:	1 2 B.—M. 87 1	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy	  Total	 	  	2 2 389 16 3
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands Peritonitis	  	.: .:	1 2 B.—M. 87 1 21	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma	  Total	  	  	2 2 389 16 3 3
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands	 	::	1 2 B.—M. 87 1	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy	  Total 	······································	··· ·· ··	2 2 389 16 3
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands Peritonitis	 	::	1 2 B.—M. 87 1 21	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma	 Total	··· ·· ··	··· ·· ··	2 2 389 16 3 3
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands Peritonitis Intestine	:: :: ::	::	1 2 B.—M. 87 1 21	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma	 Total	··· ·· ··	··· ·· ··	2 2 389 16 3 3
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands Peritonitis Intestine DISEASES OF METABOLISE	:: :: ::	::	1 2 B.—M. 87 1 21 2	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis	 Total	··· ·· ··	··· ·· ··	2 2 389 16 3 3
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands Peritonitis Intestine DISEASES OF METABOLISI Debility	   	::	1 2 B.—M. 87 1 21 21 2 44	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis	 Total	··· ·· ··	··· ·· ··	2 2 389 16 3 2
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia	   	:: :: ::	1 2 B.—M. 87 1 21 2	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise	 Total	··· ·· ··	··· ·· ··	2 2 389 16 3 2 21
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands Peritonitis Intestine DISEASES OF METABOLISI Debility Anæmia	  M—	:: :: :: ::	1 2 B.—M. 87 1 21 21 2 44	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise	 Total	··· ·· ··	··· ·· ··	2 2 389 16 3 2
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus	  M—	··· ··· ···	1 2 B.—M. 87 1 21 2 2 44 5 8	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart	 Total    ase	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	··· ·· ·· ··	2 2 389 16 3 2 21 6
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy	  	··· ··· ···	1 2 B.—M. 87 1 21 2 2 44 5 8 1	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise	 Total    ase	··· ·· ··	··· ·· ·· ··	2 2 389 16 3 2 21
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus	  M—	··· ··· ···	1 2 B.—M. 87 1 21 2 2 44 5 8	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart	 Total    ase	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	··· ·· ·· ··	2 2 389 16 3 2 21 6
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets	  	··· ··· ···	1 2 B.—M. 87 1 21 2 2 44 5 8 1	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d	 Total    ase	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	······································	2 2 389 16 3 2 21 6
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets	  	··· ··· ···	1 2 B.—M. 87 1 21 2 2 44 5 8 1	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart	 Total    	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	······································	2 2 389 16 3 2 21 6
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets	  M—	··· ··· ···	1 2 B.—M. 87 1 21 2 2 44 5 8 1	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d	Total	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	······································	2 2 389 16 3 2 21 6 1
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis	   	··· ··· ··· ···	1 2 BM. 87 1 21 2 44 5 8 1 25 9	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani	Total	······································	······································	2 2 389 16 3 2 21 6 1
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets	  M—	··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	2 2 389 16 3 2 21 6 1 1
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLISS Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis . Hæmaturia	   	··· ··· ··· ···	1 2 BM. 87 1 21 2 44 5 8 1 25 9	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis	Total	······································	······································	2 2 389 16 3 2 21 6 1 1
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia	   	··· ··· ··· ···	$   \begin{array}{r}     1 \\     2 \\     BM. \\     87 \\     1 \\     21 \\     2 \\     44 \\     5 \\     8 \\     1 \\     25 \\     9 \\     3   \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	2 2 389 16 3 2 21 6 1
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLISS Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis . Hæmaturia	 м— 	··· ··· ··· ···	1 2 BM. 87 1 21 2 44 5 8 1 25 9	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	2 2 389 16 3 2 21 6 1 1
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea	м— 	··· ··· ··· ···	$   \begin{array}{c}     1 \\     2 \\     BM. \\     87 \\     1 \\     21 \\     2 \\     44 \\     5 \\     8 \\     1 \\     25 \\     9 \\     3 \\     15 \\   \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	2 2 389 16 3 2 21 6 1 1
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLISI Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Epilepsy	м—  	······································	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1 \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver	Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	2 2 389 16 3 2 21 6 1 1
Iritis         Interstitial keratitis         Corneal ulcer         TUBERCULAR DISEASE—         Lungs         Bronchial glands         Peritonitis         Intestine         DISEASES OF METABOLIS:         Debility         Marasmus         Scurvy         Rickets         URINARY SYSTEM—         Chronic nephritis         Hæmaturia         NERVOUS SYSTEM—         Chorea         Epilepsy         Tic	м— 	··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2 \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver	Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$2 \\ 2 \\ 389$ 16 3 2 21 6 1 1 3 2
Iritis         Interstitial keratitis         Corneal ulcer         TUBERCULAR DISEASE—         Lungs         Bronchial glands         Peritonitis         Intestine         DISEASES OF METABOLIS:         Debility         Marasmus         Scurvy         Rickets         URINARY SYSTEM—         Chronic nephritis         Hæmaturia         NERVOUS SYSTEM—         Chorea         Epilepsy         Tic         Cerebral diplegia	M— 	······································	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2 \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis	Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$2 \\ 2 \\ 389$ 16 3 2 21 6 1 1 1 3 2 
Iritis         Interstitial keratitis         Corneal ulcer         TUBERCULAR DISEASE—         Lungs         Bronchial glands         Peritonitis         Intestine         DISEASES OF METABOLIS:         Debility         Marasmus         Scurvy         Rickets         URINARY SYSTEM—         Chronic nephritis         Hæmaturia         NERVOUS SYSTEM—         Chorea         Epilepsy         Tic	м— 	··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2 \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$2 \\ 2 \\ 389$ 16 3 2 21 6 1 1 3 2
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Epilepsy Tic Cerebral diplegia	м—  	··· ··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2 \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$2 \\ 2 \\ 389$ 16 3 2 21 6 1 1 1 3 2 
Iritis         Interstitial keratitis         Corneal ulcer         TUBERCULAR DISEASE—         Lungs         Bronchial glands         Peritonitis         Intestine         DISEASES OF METABOLIS:         Debility         Diseases of Metabolis:         Debility         Marasmus         Scurvy         Rickets         URINARY SYSTEM—         Chronic nephritis         Hæmaturia         NERVOUS SYSTEM—         Chorea         Epilepsy         Tic         Peritoni diplegia         Hemiplegia	м—       	··· ··· ··· ··· ··· ··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2\\ 3\\ 4\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$2 \\ 2 \\ 389$ 16 3 2 21 6 1 1 1 3 2 
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Epilepsy Cerebral diplegia Pseudo-hypertrophic Facial paralysis	м—       	··· ··· ··· ··· ··· ··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2\\ 3\\ 4\\ 1\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart of DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis Ichthyosis	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$2 \\ 2 \\ 389$ 16 3 2 21 6 1 1 1 3 2 
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Epilepsy Cerebral diplegia Pseudo-hypertrophic Facial paralysis	м—       	··· ··· ··· ··· ··· ··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2\\ 3\\ 4\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis Ichthyosis	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$ \begin{array}{c} 2\\ 2\\ 389\\ 16\\ 3\\ 2\\ 21\\ 6\\ 1\\ 1\\ 1\\ 2\\ 2\\ 2\\ 1\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\$
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Chorea Cerebral diplegia Pseudo-hypertrophic Facial paralysis Hydrocephalus	м—       	··· ··· ··· ··· ··· ··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2\\ 3\\ 4\\ 1\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis Ichthyosis	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$ \begin{array}{c} 2\\ 2\\ 389\\ 16\\ 3\\ 2\\ 21\\ 6\\ 1\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1 \end{array} $
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Epilepsy Cerebral diplegia Pseudo-hypertrophic Facial paralysis . Hydrocephalus	м—      	··· ··· ··· ··· ··· ··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2\\ 3\\ 4\\ 1\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis Ichthyosis	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$ \begin{array}{c} 2\\ 2\\ 389\\ 16\\ 3\\ 2\\ 21\\ 6\\ 1\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 1\\ 1 \end{array} $
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Epilepsy Cerebral diplegia Pseudo-hypertrophic Facial paralysis . Hydrocephalus . Eclampsia	M	··· ··· ··· ··· ··· ··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2\\ 3\\ 4\\ 1\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis Ichthyosis GENEBAL- Purpura Rheumatism	 Total     	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$ \begin{array}{c} 2\\ 2\\ 389\\ 16\\ 3\\ 2\\ 21\\ 6\\ 1\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1 \end{array} $
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Chorea Epilepsy Cerebral diplegia Pseudo-hypertrophic Facial paralysis . Hydrocephalus Petit mal	M—      	··· ··· ··· ··· ··· ··· ··· ··· ··· ··	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2\\ 3\\ 4\\ 1\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis Ichthyosis	Total Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$ \begin{array}{c} 2\\ 2\\ 389\\ 16\\ 3\\ 2\\ 21\\ 6\\ 1\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 1\\ 1 \end{array} $
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Chorea Epilepsy Cerebral diplegia Pseudo-hypertrophic Facial paralysis . Hydrocephalus . Eclampsia Petit mal	M—      	··· ··· ··· ··· ··· ··· ··· ··· ···	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2\\ 3\\ 4\\ 1\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CIRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart of DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis Ichthyosis GENEBAL- Purpura Rheumatism Hæmophilia	Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$\begin{array}{c} 2\\ 2\\ \hline 389\\ \hline \\ 16\\ 3\\ 2\\ 21\\ 6\\ 1\\ 1\\ 1\\ 3\\ 2\\ 1\\ 2\\ 2\\ 2\\ 1\\ 2\\ 2\\ 1\\ 2\\ 2\\ 2\\ 2\\ 1\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\ 2\\$
Iritis Interstitial keratitis Corneal ulcer TUBERCULAR DISEASE— Lungs Bronchial glands . Peritonitis Intestine DISEASES OF METABOLIS: Debility Anæmia Marasmus Scurvy Rickets URINARY SYSTEM— Chronic nephritis Hæmaturia NERVOUS SYSTEM— Chorea Chorea Epilepsy Cerebral diplegia Pseudo-hypertrophic Facial paralysis . Hydrocephalus Petit mal	M—       	··· ··· ··· ··· ··· ··· ··· ··· ··· ··	$ \begin{array}{c} 1\\ 2\\ BM\\ 87\\ 1\\ 21\\ 2\\ 44\\ 5\\ 8\\ 1\\ 25\\ 9\\ 3\\ 15\\ 1\\ 2\\ 2\\ 3\\ 4\\ 1\\ \end{array} $	Sprain Cicatrix, weak Varicose veins EDICAL. RESPIRATORY SYSTEM- Bronchitis Pleurisy Asthma Fibrosis CHRCULATORY SYSTEM- Chronic heart dise Dilated heart Congenital heart d DIGESTIVE SYSTEM- Prolapsus ani Ulcerative stomat Chronic enteritis Cirrhosis of liver SKIN- Psoriasis Ichthyosis GENEBAL- Purpura Rheumatism	Total	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	······································	$ \begin{array}{c} 2\\ 2\\ 389\\ 16\\ 3\\ 2\\ 21\\ 6\\ 1\\ 1\\ 1\\ 2\\ 1\\ 2\\ 1\\ 2\\ 1\\ 1\\ 1 \end{array} $

# TABLE LI.-continued.

#### QUEEN MARY'S HOSPITAL FOR CHILDREN, CARSHALTON.

SURGICAL OPERATIONS UNDER ANÆSTHETICS.

TUE	BERCULAR DISEASE-				DISEASES OF JOINTS-		
	Aspiration of abscess of a	spine		122	Chronic arthritis		1
	· ,, ,, 1	hip		31	Excision of ankylosed knee		5
		knee		3	Arthroplasty of ankylosed hip		1
	Sinus of spine			1	" " " knee		3 2
	,, hip			5	., ., elbow		2
	" knee			2	,, ,, ,,,		_
	11			2	Daman and Comment		
	Excision of glands			6	RESPIRATORY SYSTEM-		47
			•••	10	Adenoids and enlarged tonsils	•••	47
	1 1 1 1	••	•••	22	Empyema	••	5
			•••	40			
	,, lupus			2	DIGESTIVE SYSTEM-		
	Caries of bone	••	•••	-	Appendicitis		1
	Abscess (various)	••	••	32	Inguinal hernia		6
	Amputation of thigh			1	Tubercular peritonitis		1
	" arm			1	Intestinal obstruction		ī
	,, toe			1	Antoo Mar Obort double 11		-
	Laminectomy			1	Owners I'm Owners		
					GENITO-URINARY SYSTEM-		_
DIS	EASES OF BONE-				Varicocele	••	7
	Acute osteomyelitis			6	Undescended testicle	••	2
	Sequestrum			27	Examination of bladder		1
					Circumcision		6
DEE	ORMITIES-				Paraphimosis		1
DEF	733			4			
	Tendon transplantation		•••	12	DISEASES OF THE EYE-		
			••	5	Ectropion		1
	,, lengthening		•••	2			-
	" shortening	••	•••	5.0	D		
	" suturing		••	1	DISEASES OF THE EAR-		
	Tenotomy		••	1	Mastoidectomy	••	1
	Astragalectomy			1			
	Talipes			6	GENERAL-		
	Dislocation			1	Varicose veins		2
	Congenital dislocation of	hip		4	Lateral sinus thrombosis		1
	Osteotomy			14	Webbed toes		1
	Osteoclasis			1	Excision of sear		4
	Arthrodesis			6	Variana		15
	Exostosis			1	various		10
	Bone grafting			î	Total		497
	Re-amputation of stump			î	Total	••	491
	re-amperation or soump		••				

#### CAUSES OF DEATH.

TUBERCULOSIS OF-			CIRCULATORY-				
Lungs		 20	Chronic heart disea	se			1
Peritoneum		 1	Deserves				
,, and meninge	8	 1	RESPIRATORY-				
Intestine		 1	Bronchiectasis	••	••	••	1
Spine		 10	Broncho-pneumoni	a		••	1
, and lung '		 1	INFECTIOUS DISEASE-				
,, ,, meninges		 3	Laryngeal diphther				1
. ,, ,, kidney		 2					
", ", peritoneum		 1	General-				
,, ,, hip and lung		 1	Cirrhosis of liver				2
Sacro-iliac joint		 1	Osteomyelitis				2
Hip		 4	Lymphosarcoma				1
and knee		 1					
e and glands		 1		Total		••	57

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# TABLE LII.

Summary of admissions, discharges, and deaths at the hospitals, schools, and homes for sick children during 1920.

	of	Admis	sions.	Discha	arges.		20.
Institution.	Remaining at beginning of year.	Direct.	From other institutions of the Board.	Direct.	To other institutions of the Board.	Deaths.	Remaining 31 Dec., 1920.
I. HOSPITALS FOR CHILDREN. (i) Queen Mary's Hospital for Children, Carshalton, Surrey (ii) The Children's L. 6	624	590	105	455	61	57	746
(ii) The Children's Infirmary, Cleveland Street, W.	158	355	71	285	118	16	165
Totals	782	945	176	740	179	73	911
II. SEASIDE AND CONVALESCENT HOME. S. Anne's Home, Herne Bay "White Oak, Swanley (part)	106	404 98	94 38	446 94	64 9	2 1	92 32
Totals	106	502	132	540	73	3	124
III. CONTAGIOUS DISEASES OF THE SKIN OR SCALP. Goldie Leigh Homes, Abbey Wood	170	524	114	476	133	5	194
IV. OPHTHALMIA. White Oak School, Swanley	160	135	26	114	6	1	200
Grand totals	1,218	2,106	448	1,870	391	82	1,429

\* Opened 31 July, 1920. + Includes the tuberculous children in Table XXX.

**TABLE LIII.**—Summary of direct admissions in 1920 of children to the several hospitals, schools and homes under the Board's control, according to Poor Law areas.

		Hosp	oitals for child	lren.		Seaside and convalescent home.	Home for contagious diseases of the scalp.	Ophtha and convale	1	
Parishes and unions.	Quee Mary Hospit Carshalt	's al,	The Children's Infirmary, leveland St.	Prino Mar Hospi Marga	y's tal,	St. Anne's Home, Herne Bay.	Goldie Leigh Homes, Abbey Wood.	White Scho Swan	ol,	Total.
	[Under] (			Males	Fe-		1	[Ophth]	Con	
Demus and dear	3 2	3 36	6	3	males	27	11	5	c	101
Bermondsey Bethnal Green	-	30	0	0	0	3		1	0	41
Ci 1 11		12	1	4	1	29		1	10	78
Chelsea		4		2		5			10	19
Fulham	2	11	12	2 5	4	22		3	5	71
Greenwich		9	10	2	4	19		3	4	71
Hackney	-	19	6	$\frac{2}{2}$	1	9		32	8	62
Hammersmith	2	10	7	2	3	13			-	61
Hampstead	1		1	-	-	1	2	-		5
Holborn	4	19	- 2	3	1	32			6	100
Islington	5	34	11	3	4	19		6	6	124
Kensington	2	13	3	2	5	9			3	78
Lambeth	3	30	41	4	6	50		3	6	206
Lewisham	-	11	6	3	2	10	0	1	-	39
London, City of Mile End		11		-	-	15	8	1	-9	2 45
D DI	6	20	12	- 0	9			6	3	40 87
Donlan	9	23	44	$\frac{2}{2}$	2	39			8	170
St. George-in-East	_	_	2		_	2				1.0
St. Marylebone		15	4	1	_	6			2	39
St. Pancras	2	5	1	2	2	6	37	3	2	60
Shoreditch		12	6	1	3	5			5	77
Southwark	2	47	17	5	-	21	21		3	126
Stepney	2 2 7	4	19	2 4	1	7	2	3	3	43
Wandsworth	7	39	29		1	15			2	121
Westminster, City of	3	3	12	2	-	12			-	55
Whitechapel	-	3	. 27	-3	1	De Terro		3	1	19
Woolwich	-4	109	86	86	54		23	1	4	54 339
Extra-Metropolitan	4	109	4	00	04	-	17	12		339 56
Non-Poor Law	_	5		1		1 _	1		_	50
1011-1 001 130W		-	se arresta a file	-10		- AND AND AND				0
Totals	56	534	355	146	109	404	524	135	98	2,361

Tata = Tata - Tata				_	NNUA		_	DRT, 1	920.				61
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		T'LS.	14,024	4,311	5,170	1,430	46	81		2,373	53	13,405	13,405 619 14,024
Training Ship " Exmouth." Boys admitted, discharged, 1,376 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ± 2 ±		and the second sec	216	82	132	12	:	-1		81	1	312	
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		YFAR	Admitted	Discharge Royal N	Discharg mercant marine	Discharg Army a musiciar	Discharge	Discharge Exmout as apl tices.	Discharge union order guardian	transferr &c	Died .	Total charges deaths	/

TABLE LIV.

### TABLE LV .- TRAINING SHIP "EXMOUTH."

Number of boys admitted from each of the metropolitan parishes and unions and total number of boys admitted from country unions and other sources during 1920 and during the whole time the ship has been established.

Year ending 31 Dec., 1920.		P	ARISI	I OR	UNIO	N.			From 31 March, 1876, to 31 Dec., 1920.
	Number of boys in				-	Manag	gers		 12
_	Metropolitan par Bermondsey								 318
2	Bethnal Green								 399
9	Camberwell								 839
-	Chelsea								 181
3	Fulham								 392
-	George, St., in-the-								 138
1	Greenwich								 510
_	Hackney								 400
3	Hammersmith								 64
1	Hampstead								 44
1	Holborn								 389
2 5	Islington								 475
5	Kensington								 264
. 9	Lambeth								 565
2	Lewisham								 805
-	London, City of								 139
5	Marylebone, St.								 576
_	Mile End								 274
-	Paddington								 215
1	Pancras, St								 545
	Poplar								 498
- 1	Shoreditch								 168
2	Southwark								 589
-	Stepney								 129
2	Wandsworth								 460
	Westminster								 466
	Whitechapel								 206
13	Woolwich								 531
61									10,591
29	London County Co	uncil							 96
17	Non-Poor Law cas	68							 119
109	Country unions								 3,218
	Andover 1, Barnsl	ey 1, B	asford :	2, Bedfe	ord 1, Bi	rmingh	am 1, B	lofield 1,	
216	Brackley 1, Bradf Bucklow 1, Burton 2, Croydon 4, Cold	ord 1, 1 n-on-Tr	Brighto	n 3. Bro Colne 2	omley 1, Canterl	Brentfoury 1,	ord 15. Chippin	Bristol 1, g Norton	14,024
	ton 2, Fylde 1, Go 2, Hemel Hempst 1, Hitchin 2, Isle o 1. Leeds 1, Leight Mutford and Lot Brierly 1, Peshore Sculcoates 1, Seiss Teesdale 1, Tetbu 1, West Ham 1, W	dstone ead 1, of Wigl on Buz hinglar 1, Plo ion 1, 1 ry 1, T	1, Gra Hartiss ht 1, Ki zard 2, nd 2, 1 msgate Solehill hame 2	vesend nere 3, ingston- Leicest Notting 1, Pon 1, Stoc , Wanta	1, Great Hasting on-Hall ter 1, Mi ham 2, typridd kport 2, age 1, W	Yarmo s 3, Ho 3, King tford a Northa 1, Rom Strood hitehay	outh 1, 6 enley-or gston-or nd Lau mpton ford 3, 1 2, Tam en 1, W	Juildford -Thames -Thames nditch 2, 1, North Rugby 1,	



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 CHART No. LVIa. showing the number of inmates in Metropolitan Casual Wards on Friday night in each week during the 9 years ended 1920.



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Totals.	:	:	: •		•	•	•	•	0		-	4 0		:	•			-4		16	-	
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Men.	:	:		33	3	:	:	:"	- 10	17	:	41	31	:	:	:	:	53		182	78	1
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Children.	:	:	•	-					•		-		•	•								
Women.	:	:		175	110	:	:	:		33		203	:	:	:	:	:	90		656	334	
ylen.	:	:		1,901	104.4	:	:		#T 101	161.1		0.410	3,911	:	:	:	:	2,100		4,649	5,557	
Totals.	:	:		2,035	000	:	:		170	1,853	:	5,784	3,908	:	:	:	_				1.	
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Men.	:	:		1,92	1,41	:	:	: •		1,81		3,50	3,90	:	:	:	:	2,11		14,75	5,58	
Totals.	:	:	:	- 1-	-	:	:	:		0		OT	34	:	:	:	:	12		82	55	
Children.	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:	:	1
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Men.	:	:	:	9 2	0	:	:	:	:	9		16	34	:	:	:	:	11		78	2.0	
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Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y         Y           Y         Y         Y         Y         Y           Y         Y         Y         Y         Y           Y         Y         <thy< th=""> <thy< th=""></thy<></thy<></td> <td>CAL WABDS.       Man.         CAL WABDS.       Man.         CAL WABDS.       Man.         March       Man.         March       March         March       March</td> <td>CAL WABDS,       MABDS,         CAL WABDS,       Main         Contract       Men.         Main       Main         Main       Main</td> <td>MARDS.       MARDS.         Total WARDS.       Men.         March       Men.         March       6         5       5         5       5         6       1         7       1         1       1         9       6         6       1         7       1         1       1         9       1         1       1&lt;</td> <td>MARDS.       MARDS.         TAL WARDS.       Mar.         Mar.       Mar.         <td< td=""><td>MARDS.       MARDS.         Total.       MARDS.         March       March         <t< td=""><td>OAL WARDS.       MARDS.         OAL WARDS.       March         OAL WARDS.       March         OAL WARDS.       March         March       March       March         March       March       March         March       March       March     <td>OAL WARDS.       Mar.         OAL WARDS.       Mar.         Mar.       Mar.         &lt;</td><td>OAL WARDS.         Mean         Mean         Mean         Mean         Mean           Totals                Totals.         Mean               Mean   </td></td></t<></td></td<></td>	CAL WARDS.       CAL WARDS.         Contained in the second state in the second	CASUAL WABDS.         CASUAL WABDS.           CASUAL WABDS.         Main.           Ontrol         Women.           Y         Women.           Y         Women.           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y           Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y           Y         Y         Y         Y         Y           Y         Y         Y         Y         Y           Y         Y         Y         Y         Y           Y         Y <thy< th=""> <thy< th=""></thy<></thy<>	CAL WABDS.       Man.         CAL WABDS.       Man.         CAL WABDS.       Man.         March       Man.         March       March         March       March	CAL WABDS,       MABDS,         CAL WABDS,       Main         Contract       Men.         Main       Main         Main       Main	MARDS.       MARDS.         Total WARDS.       Men.         March       Men.         March       6         5       5         5       5         6       1         7       1         1       1         9       6         6       1         7       1         1       1         9       1         1       1<	MARDS.       MARDS.         TAL WARDS.       Mar.         Mar.       Mar. <td< td=""><td>MARDS.       MARDS.         Total.       MARDS.         March       March         <t< td=""><td>OAL WARDS.       MARDS.         OAL WARDS.       March         OAL WARDS.       March         OAL WARDS.       March         March       March       March         March       March       March         March       March       March     <td>OAL WARDS.       Mar.         OAL WARDS.       Mar.         Mar.       Mar.         &lt;</td><td>OAL WARDS.         Mean         Mean         Mean         Mean         Mean           Totals                Totals.         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Mar.         &lt;</td> <td>OAL WARDS.         Mean         Mean         Mean         Mean         Mean           Totals                Totals.         Mean               Mean   </td>	OAL WARDS.       Mar.         OAL WARDS.       Mar.         Mar.       Mar.         <	OAL WARDS.         Mean         Mean         Mean         Mean         Mean           Totals                Totals.         Mean               Mean

TABLE LVI.-CASUAL WARDS.

Admissions and discharges during 1920 (casual poor).

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ANNUAL REPORT, 1920.

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LVIIReturn of		Total No. of	antitoxin units supplied during 1919.		$\begin{array}{c} 27,900,000\\ 21,200,000\\ 23,000,000\\ 14,800,000\\ 14,800,000\\ 19,100,000\\ 23,900,000\\ 2,300,000\\ 2,300,000\\ 2,300,000\\ 2,300,000\\ 0\end{array}$	3,600,000  202,000 100,000		1:1:	:	160,792,000	100,000 200,000	300,000	161,092,000
TABLE	Antitoxin supplied.	Total No. of	antitoxin units supplied during 1920.		33,969,000 39,910,000 24,484,000 22,484,000 22,484,000 22,255,000 10,725,000 110,725,000 110,725,000 3,975,000 3,975,000	6,955,000  99,000 			:	243,126,000	400,000	400,000	74,242 243,526,000 161,092,000
	Antitoxi	No. of doses	contain- ing 3,000 units.	: 5:4	9,923 12,870 7,228 8,600 8,675 9,075 7,700 5,700 5,700 5,700 5,700 5,700 5,700 5,700 5,700	1,885 56 56	:::8 ::	::::	:	74,142	100	100	74,242
		No. of doses	contain- contain- 4,000 units.		1,050 7000 7000 550 550 520 2250 2250 2250	: : : :		::::	:	5,175	25	25	5,200
			1	1 tal	ital	:: ital :: ::	:::::		alth 	Totals M.A.B. institutions.	::	als .	s
		.90		Leavesden M. Hospital Caterham Darenth T. Colony Fountain M. Hospital	Bastern Hospital North-Eastern Hospital North-Western Western Bouth-Western Grove South-Eastern Park Brook Northern	Joyce Green	::::: 9	une ::	Paddington Pub. Health Dept.	stitu	General hospitals- Great Ormond Street Middlesex Hospital	Totals general hospitals	Totals all institutions
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Other examina-tions. 3,0705,4845,4845,0794,9925,9416,924L 1 1 Sputa. EXAMINATIONS. Para-typhoid Agglutinations. 542663663826542542542530532334334334334334334327336250520Widal. BACTERIOLOGICAL 949 949 70 70 70 70 70 70 70 70 70 70 70 70 70 Urine. Typhoid. Faeces.  $\begin{array}{c} 683\\ 551\\ 616\\ 11,736\\ 11,736\\ 1999\\ 999\\ 11,105\\ 11,10$ Diphtheria. horse serum Other media tubes. MEDIA SUPPLIED.  $\begin{array}{c} 20.038\\ 15,323\\ 20.092\\ 30,712\\ 34,262\\ 34,262\\ 34,260\\ 19,600\\ 19,600\\ 19,600\\ 221,806\\ 36,412\\ 88,574\\ 68,574\\ \end{array}$ Swabs.  $\begin{array}{c} 38,625\\ 37,516\\ 37,516\\ 42,542\\ 48,725\\ 54,450\\ 54,450\\ 54,450\\ 31,050\\ 31,050\\ 31,050\\ 78,330\\ 78,330\\ 78,330\\ \end{array}$ Serum tubes.  $\begin{array}{c} 81,980,000\\ 68,488,000\\ 107,172,000\\ 97,816,000\\ 108,520,000\\ 1168,540,000\\ 1160,444,000\\ 1160,084,000\\ 1160,084,000\\ 1161,092,000\\ 1129,000,000\\ 1129,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,092,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002,000\\ 1161,002\\ 1161,002\\ 1161,002\\ 1161,002\\ 1161,002\\ 1161,002\\ 1161,002\\ 1161,002\\ 1161,002\\ 1161,002\\ 1161,002\\ 1161,000\\ 1161,000\\ 1161,002\\ 1161,000\\ 116$ Total number of antitoxin units supplied. Number of doses each containing 6,000 units. 12 ANTITOXIN SUPPLIED.  $\begin{array}{c} 20,342\\ 16,777\\ 16,777\\ 26,358\\ 24,234\\ 27,130\\ 37,115\\ 37,115\\ 37,251\\ 37,251\\ 36,237\\ 40,111\\ 37,251\\ 36,237\\ 5,200\\ 6,273\\ 6,200\\ 6,273\\ 6,200\\ 6,273\\ 6,200\\ 6,273\\ 6,200\\ 6,273\\ 6,200\\ 6,273\\ 6,200\\ 6,273\\ 6,200\\ 6,273\\ 6,200\\ 6,273\\ 6,200\\ 6,273\\ 6,200\\ 6,273\\ 6,$ Number of doses each containing 4,000 units. 74,242 Number of doses each containing 3,000 units. 1 Year.  $\begin{array}{c} 1909\\ 1910\\ 1911\\ 1912\\ 1913\\ 1915\\ 1915\\ 1916\\ 1916\\ 1916\\ 1918\\ 1918\\ 1918\\ 1918\\ 1920\\$ 

TABLE LVIII.-Table showing totals of antitoxin, de., supplied and examinations made from 1909 to 1920.

(i) DIPHTHERIA.			Totals.
Virulent dinhtheria bacilli			23
Virulent diphtheria bacilli Probable non-virulent diphtheria bacilli			22
Rods present resembling diphtheria bacilli unable to	be sena		
in a pure culture			120
No rods resembling diphtheria bacilli present			404
		Total	569

TABLE LIX.—Results of bacteriological examina	ations	, 1920.
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(ii) Agglutin	ATION.			
	Widal.	Paratyphoid "A."	Paratyphoid "B."	Totals
Complete elumping in all dilutions $(\frac{1}{20}; \frac{1}{50}; \frac{1}{50})$ Complete elumping in $\frac{1}{20}$ and $\frac{1}{50}$ dilutions, and	3	-	-	3
incomplete clumping in 10 to	6		4 .	10
complete clumping in 3 and 100 or in 30 only	10		6	16
Incomplete clumping 10 and 10 or 10 only	65	20	66	151
Negative in all dilutions	174	216	160	550
Totals	258	236	236	730

		(111	) FASCI	ES AND	URINE.		
					Positive.	Negative.	Totals
Fases	 	 			-	4	4
Urine	 	 			-	4	4

# TABLE LX.—Summary of bacteriological examinations, 1920.

	Diphtheria.	Typhoid.		lal ion.	ra- oid n A.B.	ta.	ter ations.	ıls.
Institutions.		Fæces.	Urine.	Widal reaction.	Para- typhoid reaction A	Sputa.	Other examinations	Totals.
Mental hospitals	22	1	1	3	1	-	19	47
Infectious hospitals Children's institutions	157 428	3	3	254	234	243 739	83 90	977 1,259
Sanatoria	11	-	-	-	-	5,942	39	5,992
Totals	*620	4	4	258	236	6,924	231	8,277*

• Total includes 2 examinations carried out for Paddington Public Health Department.

### MEDICAL SUPPLEMENT.

#### TRACHEOTOMY AND INTUBATION STATISTICS, 1920.

**TABLE** LXI.—Number of cases and deaths at different ages of all cases of tracheotomy performed for primary diphtheria, secondary diphtheria, also for other causes, at all hospitals, exclusive, however, of those cases which were previously intubated. (Cases operated on before admission are not included in body of table, but a footnote is made giving the number of cases and deaths.) Compiled from cases completed during the year, that is, cases that have been discharged, or have died, or have been transferred from the acute to the convalescent infectious hospitals during the year 1920.

PRIMARY DIPHTHERIA.						THERIA.	SECONI	SECONDARY DIPHTHERIA.			OTHER GAUSES.		
	AGI	18.		Cases.	Deaths.	Mortality per cent.	Cases.	Deaths.	Mortality per cent.	Cases.	Deaths.	Mortality per cent.	
Under	1			30	17	56.66							
1 to	2			42	21	50.00	1	1	100.00	2	0		
2 "	3			39	16	41.02	3	2	66.66	1	1		
3 "	4			46	13	28.26		0	0.00		0		
4 ,,	5			46		39.13	1	1	100.00		0		
5 ,,	6			26	8	30.76							
6 ,,	7			18	5	27.77						10 .	
7 ,,	8			9	2	22.22							
8 "	9			6	2	33.33							
	10			5	0	0.00							
	10			6	4	66.66							
Tota	al			273	106	38.82	6	4	66.66	6	1		

Tracheotomy before admission-

Cases.	Deaths.	M	ortality per cont.
28	 6		21.42

n which the diagnosis was not confirmed on admission or after a period of observation.	TOTAL.	deaths.	221 33 53 53 53 53 53 53 53 53 53 53 53 53	105
		10.0N	882 87 87 87 87 87 87 87 87 87 87	- 03
		No. of cases.	$\begin{array}{c} 1,692\\ 842\\ 843\\ 73\\ 73\\ 73\\ 72\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73\\ 73$	2,952
	ERN ITAL.	No. of deaths.	0104:4::::::::::	19
	WESTERN HOSPITAL	No. of cases.	915 91 21 21 21 21 21 21 21 21 21 21 21 21 21	181
	SOUTH- WESTERN HOSPITAL.	No. of deaths.	∞ – ∞ :– :/- ↔ : : : : : : : : : : : : :	22
r aft		No. of cases.	73 666 83 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	235
o uo	TH- TH- ITAL.	No. of denths.	9994 : : : : : : : : : : : : : : : : : :	10
1188i	SOUTH- Eastern Hospital	No. of cases.	121 177 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	338
adm	RK ITAL	No. of deaths.	<sup>1</sup>	1
d on	PARK HOSPITAL	No. of cases.	$\begin{array}{c} 139\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\$	211
rmea	NORTH- WESTERN HOSPITAL.	No. of deaths.	01401 :	12
conf		No. of cases.	297 111 8 8 8 8 8 8 8 1 1 1 1 1 1 1 1 1 1	520
not	NORTH- EASTERN HOSPITAL.	No. of .eaths.		4
was		No. of cases.	322 322 127 13 13	466
0818	JOYCE CREEN HOSPITAL.	No. of deaths.	:::::::::::::::::::::::::::::::::::::::	5
liagn		No. of cases.	₽9 : : : : sa ; : : : : : : : : : : : : : : : : : :	118
the d	GROVE HOSPITAL.	No. of Secths.		63
ich 1		No. of cases.	88 88 88 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80	155
n wh	EASTERN HOSPITAL.	No. of deaths.		. 19
Shows the number of cases admitted, in		No. of cases.	3425 3425 3425 3425 3425 3425 3425 3425	471
	BROOK HOSPITAL.	No. of deaths.	997 : : : : : : : : : : : : : : : : : :	8
		No. of cases.	106 134 134 2 2 2 2 1 1 1 2 2 1 1 1 2 2 1 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 4 1 3 3 1 3 1	257
case	Disease as certified on admission but not confirmed.		· · · · · · · · · · · · · · · · · · ·	:
er of			er io-my rgica sther	:
quun			ugh ugh letha rer h mc	
he n			ria ria fever fever spin ang co spin ditis al fox pox ry ry ry d wit	. Is
wes t			Scarlet fever	Total
Sho			Sea Dir En When When When May Whan May Whan May Whan May Whan May Whan May Whan May Whan May Whan Men Men Men Men Men Men Men Men Men Me	

TABLE LXII.-Summary of cases of mistaken diagnosis admitted during 1920; also of deaths during 1920.



