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CITY OF



CARLISLE.

EDUCATION COMMITTEE.

ANNUAL REPORT

UPON THE

Work of Medical Inspection for the Year 1919

BY

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and SCHOOL MEDICAL OFFICER.

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STATISTICAL SUMMARY.

| | | | | |
|--|---|---|---|-------|
| No. of "Routine" cases examined | - | - | - | 2814 |
| No. of "Special" cases examined | - | - | - | 816 |
| No. of "Old" cases re-examined | - | - | - | 920 |
| Total No. of Children examined | - | - | - | 4550 |
| No. of "Children" found to require treatment | - | | | 1720 |
| No. of Parents interviewed at Medical Inspection, Routine and Special | - | - | - | 1698 |
| No. of Visits to Schools by the School Medical Officers | - | - | - | 173 |
| No. of Visits to Schools by Nurses | - | - | - | 428 |
| No. of Visits to Homes by Nurses | - | - | - | 2780 |
| No. of Defects referred for treatment | - | - | | 4691 |
| No. of Defects treated | - | - | - | 3116 |
| No. of Teachers examined at the request of the Education Committee | - | - | - | 39 |
| No. of cases treated at the Clinic | - | - | - | 660 |
| No. of attendances at Clinic for treatment | - | | | 12198 |
| No. of Children examined by School Dentist | - | | | 1690 |
| No. of Children treated by School Dentist | - | | | 595 |
| No. of Children excluded for Verminous Conditions | | | | 598 |

To the Chairman and Members of the Education Committee.

THE SCHOOL MEDICAL SERVICE.

There have been several changes in the staff during the year, which have not, however, interfered with the work in any way. Dr. Spence returned from active service at the beginning of March, and since that date part of his time has been available for school medical work. An additional nurse was appointed in August on account of the expansion of work.

The staff now consists of the Medical Officer of Health, who is also School Medical Officer, with administrative duties; the Assistant Medical Officer of Health, who devotes about one-third of his time to school medical work in connection with Tuberculosis, assisting at the routine medical inspections, special clinics, and casual matters; and the Assistant School Medical Officer, who devotes his whole time to the work of medical inspection and treatment, which includes medical inspection of routine and special cases, and the following up of defective children, supervision of the treatment of minor ailments, administration of general anæsthetics at the Dental Clinic, the further examination of visual defects observed at the routine inspection, and the X-ray treatment of Ringworm.

The Nursing Staff comprises the Nurse-in-Charge of the Clinic premises, who is in attendance at all the Clinics held in connection with both the school work and Tuberculosis, and whose duties also include assisting at the routine medical inspections, if required; who together with two other Nurses resides on the premises. Three Nurses carry out the duties of School Nurse and Tuberculosis Visitor, each Nurse being in charge of a district with its several schools. The Committee have the services of a Dentist, who gives two sessions per week to the work of dental inspection and treatment.

The clerical work is performed in the office of the Public Health Department.

MEDICAL INSPECTION.

The number of children in average attendance during the year was 7,100, the total number of children medically inspected being 3,630. 2,814 were children in the three age groups specified in the code, and 816 were children examined as Specials. In addition, 920 children inspected in previous years were re-examined.

The number of routine inspections, viz., 2,814, is the second highest number recorded, and includes 1,079 Entrants, 898 Intermediates, and 837 Leavers. The methods of inspection were the same as in the previous year. The following are the number of instances during routine inspection in which a parent was present at the examination:—Leavers, 281 (34 per cent.); Intermediates, 392 (44 per cent.); Entrants, 670 (62 per cent.); a total of 1,343 (48 per cent.). At the inspection of special cases in 355 instances (44 per cent.) a parent was present. In all a total of 1,698 parents were present, equal to 47 per cent. of all children examined.

FINDINGS OF MEDICAL INSPECTION.

Figures showing the nature and number of defects observed during the course of medical inspection are set out in Table II. An analysis of the figures shows that, dealing with the code groups alone, 35 per cent. had defects which required immediate attention of some kind, 28 per cent. had slight defects which were noted for further observation, whilst in the remaining 37 per cent. the condition was considered satisfactory. These figures do not include defective clothing and footgear, uncleanliness, dental caries, and slightly enlarged glands, and are fairly comparable with the results observed in the previous year. It may be taken that approximately 1,000 children belonging to the code groups alone in each year require following up and treatment. A minute analysis of the conditions shows that in about 9 per cent. ill-nourishment was associated with other defects, 9 per cent. were Anæmic, 2.5 per cent. had Disease of the Heart, 21 per cent. defects of the Throat and Nose. Visual defects were observed in 25 per cent., and 3 per cent. suffered from External Eye Diseases. In 9 per cent. disease or suspected disease of the Lungs was found. 5 per cent. had some form of Skin Disease, Ear Disease was present in 2.5 per cent.

Table 1.—Number of Children Inspected 1st January, 1919, to 31st December, 1919.

A. "Routine" Medical Inspection.

| Age. | Entrants. | | | | | |
|------------|-----------|-----|-----|-----|-------------|--------|
| | 3. | 4. | 5. | 6. | Other Ages. | Total. |
| Boys ... | ... | 79 | 368 | 86 | 18 | 551 |
| Girls ... | ... | 57 | 376 | 77 | 18 | 528 |
| TOTALS ... | ... | 136 | 744 | 163 | 36 | 1079 |

| Age. | Inter- mediate Group. | Leavers. | | | | Other Ages. | Grand Total. |
|------------|-----------------------------|----------|-----|-----|--------|--------------------|-----------------|
| | 8. | 12. | 13. | 14. | Total. | Inter- mediate. | |
| Boys ... | 222 | 300 | 119 | 1 | 420 | 225 | 1418 |
| Girls ... | 229 | 291 | 126 | — | 417 | 222 | 1396 |
| TOTALS ... | 451 | 591 | 245 | 1 | 837 | 447 | 2814 |

B. "Special" Inspections.

| Age. | Special Cases. | Re-Examinations (i.e., No. of Children Re-Examined). |
|------------|----------------|--|
| Boys ... | 431 | 437 |
| Girls ... | 385 | 483 |
| TOTALS ... | 816 | 920 |

C. Total number of Individual Children inspected by the Medical Officer, whether as "Routine" or "Special" Cases.

| Number of Individual Children Inspected. |
|--|
| 4550 |

Table showing the number of Children examined at the "Routine" Inspections and the number of Parents present.

| School. | Entrants. | | Intermediates. | | Leavers. | |
|-----------------|--------------|------------------------|----------------|------------------------|--------------|------------------------|
| | No. examined | No. of parents present | No. examined | No. of parents present | No. examined | No. of parents present |
| Ashley Street | 106 | 58 | 125 | 43 | 132 | 35 |
| Bishop Goodwin | 97 | 83 | 100 | 63 | 59 | 30 |
| Botcherly ... | 13 | 4 | 19 | 11 | 23 | 4 |
| Brook Street | 119 | 80 | 125 | 72 | 88 | 34 |
| Caldewgate | 89 | 46 | 81 | 39 | 77 | 24 |
| Christ Church | 82 | 39 | 28 | 8 | 25 | 9 |
| Denton Holme | ... | ... | 104 | 49 | 4 | 2 |
| Fawcett ... | ... | ... | 17 | 7 | 34 | 6 |
| Higher Grade | ... | ... | ... | ... | 73 | 43 |
| Lowther Street | 72 | 45 | 42 | 11 | 31 | 11 |
| Newtown ... | 45 | 25 | ... | ... | ... | ... |
| Norman Street | 101 | 78 | 12 | 9 | ... | ... |
| Robert Ferguson | 151 | 111 | ... | ... | 81 | 32 |
| St. Bede's ... | 46 | 29 | 28 | 2 | 15 | 3 |
| St. Cuthbert's | 55 | 20 | 30 | 9 | 26 | 5 |
| St. John's ... | ... | ... | 65 | 26 | 68 | 20 |
| St. Patrick's | ... | ... | 29 | 7 | 29 | 4 |
| St. Stephen's | 39 | 21 | 24 | 6 | 25 | 4 |
| Stanwix ... | 47 | 22 | 57 | 25 | 31 | 13 |
| Upperby ... | 17 | 9 | 12 | 4 | 16 | 2 |
| Totals ... | 1079 | 670 | 898 | 391 | 837 | 281 |

Except in the case of ear disease, which was greater, these figures do not vary greatly from those in the preceding year. The number of children found with sound teeth was greater than in 1918, and the beneficial effect of treatment at the Clinic in previous years was much in evidence. The number of children with septic mouths, however, has not diminished, these cases almost without exception being found in children of the Intermediate Group.

3 per cent. of the children were poorly clothed or shod, but, speaking generally, the clothing and footwear were very good. Having regard to the fact that parents are notified of the visit of the Medical Officer, cleanliness at the routine inspection was unsatisfactory, a certain section of the community being apparently indifferent to the well-being of their children in this respect. The figures relating to Special Examinations show that about 90 per cent. were children required treatment of some kind, 7 per cent. were noted for further observation, and in 3 per cent. no defect was observed. The defective conditions relate to Skin Disease (which predominated) in 64 per cent. of the children, External Eye Disease 15 per cent., Defective Vision and Squint 13 per cent., Diseases of the Throat and Nose 12 per cent., Heart and Circulation 9 per cent., Lung Diseases 7 per cent., Ear Disease 6 per cent., Nutrition was unsatisfactory in 6 per cent., 3 per cent. had Extensive Dental Caries, whilst 8 per cent. only had sound teeth.

The total number of children requiring treatment of one kind or another in respect of routine and special inspections was 1,720, the number referred for further observation was 854, whilst 1,056 were considered satisfactory.

Table II.—Return of Defects found in the course of Medical Inspection in 1919.

| Defect or Disease. (1) | Code Groups. | | Specials. | |
|--------------------------------------|---------------------------------------|---|---------------------------------------|---|
| | Number referred for Treatment. (2) | Number requiring to be kept under observation, but not referred for Treatment. (3) | Number referred for Treatment. (4) | Number requiring to be kept under observation, but not referred for Treatment. (5) |
| Skin Malnutrition | 3 | 257 | 1 | 47 |
| Uncleanliness :— | | | | |
| Head | 408 | 33 | 57 | 11 |
| Body | 5 | 121 | ... | 26 |
| { Ringworm : | | | | |
| Head | 9 | ... | 98 | 1 |
| Body | 2 | ... | 23 | ... |
| { Scabies | 28 | 5 | 90 | 1 |
| { Impetigo | 29 | 13 | 151 | 7 |
| { Other Disease | 36 | 26 | 134 | 18 |
| Eye { Defective Vision and Squint | 341 | 375 | 65 | 45 |
| { External Eye Disease .. | 45 | 37 | 110 | 10 |
| Ear { Defective Hearing | 4 | 8 | 1 | 3 |
| { Ear Disease | 45 | 7 | 46 | ... |
| Teeth Dental Disease | 118 | 2252 | 24 | 723 |
| Nose { Enlarged Tonsils | 248 | 303 | 51 | 29 |
| and { Adenoids | 17 | 10 | 2 | 9 |
| Throat { Enlarged Tonsils & Adenoids | 20 | ... | 6 | .. |
| { Defective Speech | 1 | 26 | .. | 3 |
| Heart { Heart Disease : | | | | |
| and Cir- { Organic | 2 | 29 | 2 | 8 |
| culation { Functional | ... | 37 | .. | 5 |
| { Anæmia | 138 | 122 | 32 | 28 |
| Lungs { Pulmonary Tuberculosis : | | | | |
| { Definite | 2 | 6 | 9 | ... |
| { Suspected | 80 | 67 | 18 | 8 |
| { Chronic Bronchitis | 20 | 9 | 10 | 2 |
| { Other Disease | 12 | 46 | 4 | 4 |
| Nervous { Epilepsy | ... | ... | ... | 1 |
| System { Chorea | ... | 1 | 2 | 1 |
| { Other Disease | 1 | 1 | 2 | ... |
| Non-pulmonary Tuberculosis : | | | | |
| Glands | ... | ... | 1 | 1 |
| Bones and Joints | 1 | 2 | 1 | ... |
| Other Forms | ... | 1 | .. | 1 |
| Rickets | ... | 5 | .. | .. |
| Deformities | 1 | 4 | ... | 1 |
| Other Defects or Diseases | 45 | 82 | 71 | 27 |

Number of individual children having defects which required treatment or to be kept under observation—2,574.

THE WORK OF FOLLOWING UP.

In order to have a more complete record of each child during its school life, to facilitate the work of following up, and to ensure an accurate compilation of statistics, an alteration in the system of record keeping has been made. Special Case Cards and Defect Lists have been eliminated, and all records made on the ordinary Routine Medical Inspection Cards, a Defect Slip being made out for all children who require further observation or following up. Much duplication is thus avoided, and the Defect Slips being filed under their appropriate headings, information as to conditions following re-examination and the results of following up visits are more readily obtainable. Table IV is in a new form, and the defects are dealt with under various sections. Section A, dealing with minor ailments, includes most of the cases seen and treated at the Clinic. The number of cases of Ringworm appears to be slightly in excess of the previous year, but this may be partly due to the change in the keeping of records, particularly with regard to Special Cases. A larger number of these cases have been treated at the Clinic than formerly, including cases selected for X-ray treatment, regarding which remarks will be found elsewhere in this report. Cases of Scabies (Itch) were fewer than during 1918; no case of this disease was treated at the Clinic. The number of cases of Impetigo is suggestive of an increase of the disease, but the method of record keeping may possibly account for some of the apparent increase, whilst vigilance on the part of the School Nurses and Teachers may account for the remainder. The majority of the cases of Impetigo were treated at the Clinic with very satisfactory results. Other Skin Diseases, of which eczematous conditions form the greater number, were increased in number, the majority of which were treated at the Clinic. A large number of cases of Ear Disease were treated during the year; treatment was offered in all cases and carried out at the Clinic if the parent agreed. The same remark applies to Eye Diseases, and in these cases it is found that much better results are obtained in a shorter period than when the treatment is carried out at home. Section B shows the figures relating to the further examination and treatment of defects of vision. The number of cases referred for treatment is no doubt greater than would obtain during the normal year, but this condition resulted from the accumulation of

cases requiring further examination during the war. The small percentage of cases submitted for further examination is, I think, indicative of the difficulty of impressing upon parents the need for treatment. Where direct opposition does not exist one often finds considerable apathy on the part of parents with regard to treatment and preservation of the eyes of their children. Very few children are taken to a medical practitioner. Considerable difficulty is experienced in getting parents to provide spectacles, even when an examination has been made gratis. This is not due so much to inability to pay as to the objection of the parent to spend money for an object for which they do not consider it necessary. The wholesale provision of spectacles free of charge would meet the financial difficulty, but if such a provision were made it is very questionable whether a very large proportion of children would be found to wear them, having regard to my experience with the limited number of pairs of spectacles which have, from time to time, been provided free of cost in necessitous cases. Further particulars as to Ophthalmic work appear in another part of this report.

Section C shows the number of children who require treatment for Throat and Nose defects, and by reason of the inclusion of Special Cases with others, the number of defects under this head is considerably greater than for the year 1918. The figure 890 includes such conditions as Rhinorrhœa, Mouth Breathing, Enlarged Tonsils requiring minor local treatment, and greatly Enlarged Tonsils, with or without Adenoids, for which operative treatment was considered necessary. Most of the operative treatment was performed at the Infirmary. The School Clinic premises do not admit of rooms being set aside for operations upon Tonsils and Adenoids, and as it is essential that provision of this nature should be made, I am of opinion that the Cumberland Infirmary Committee should be again approached with the view to an arrangement being made for the treatment of Tonsils and Adenoids at the Infirmary. It is estimated that about 100 cases would have to be provided for annually, although, if definite arrangements existed, it is probable that a larger number than this would take advantage of the facilities offered, although, no doubt, a good deal of opposition, much of it due to ignorance on the part of the parents, will have to be overcome before the best results can be obtained in connection with this defect.

Table IV.—A. Treatment of Minor Ailments.

| Disease or Defect. | Number of Children. | | | |
|--------------------------------------|-------------------------|---|------------|--------|
| | Referred for Treatment. | Treated. | | |
| | | Under Local Education Authority's Scheme. | Otherwise. | Total. |
| Skin:— | | | | |
| Ringworm (Head) ... | 129 | 55 | 74 | 129 |
| Ringworm (Body) ... | 40 | 32 | 7 | 39 |
| Scabies ... | 151 | ... | 150 | 150 |
| Impetigo ... | 319 | 171 | 135 | 306 |
| Minor Injuries ... | 20 | 12 | 8 | 20 |
| Other skin disease ... | 152 | 83 | 52 | 135 |
| Ear Disease ... | 128 | 99 | 16 | 115 |
| Eye Disease (external and other) ... | 208 | 184 | 7 | 191 |
| Miscellaneous ... | 53 | 24 | 23 | 47 |

B. Treatment of Visual Defect.

| Number of Children. | | | | | | | | | |
|--------------------------|--|--------------------------------------|------------|--------|-----------------------------------|---------------------------------|--|------------------------------------|---|
| Referred for Refraction. | Submitted to Refraction. | | | | For whom Glasses were Prescribed. | For whom Glasses were Provided. | Recommended for Treatment other than by Glasses. | Received other Forms of Treatment. | For whom no Treatment was considered necessary. |
| | Under Local Education Authority's Scheme Clinic or Hospital. | By Private Practitioner or Hospital. | Otherwise. | Total. | | | | | |
| 583 | 186 | 15 | 55 | 256 | 220 | 124 | 7 | 6 | 33 |

C. Treatment of Defects of Nose and Throat.

| Number of Children. | | | | |
|-------------------------|--|--------------------------------------|--------|------------------------------------|
| Referred for Treatment. | Received Operative Treatment. | | | Received other Forms of Treatment. |
| | Under Local Education Authority's Scheme Clinic or Hospital. | By Private Practitioner or Hospital. | Total. | |
| 890 | ... | 69 | 69 | 337 |

Table IV.—D. Treatment of Dental Defects.
1. Number of Children dealt with.

| | Age Groups. | | | | | | | | | | Specials. | Total. |
|--|-------------|---|-----|-----|-----|-----|-----|----|----|----|-----------|--------|
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| (a) Inspected by Dentist ... | — | — | 860 | 127 | 198 | 194 | 195 | 28 | — | — | 88 | 1690 |
| (b) Referred for Treatment ... | — | — | 565 | 88 | 148 | 153 | 147 | 21 | — | — | 88 | 1210 |
| (c) Actually Treated ... | — | — | 259 | 39 | 57 | 68 | 73 | 11 | — | — | 88 | 595 |
| * (d) Re-treated (result of periodical re-examination) ... | — | — | — | 16 | 24 | 37 | 44 | 11 | — | — | 7 | 139 |
| * Cases under this head are also included in C. ... | | | | | | | | | | | | |

2. Particulars of time given and of Operations undertaken.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|--|---|---|----------------------------|---------|----------------------------|---------|---------------------------|---|-----------------------------|------------------|
| Number of half-days devoted to Inspection. | Number of half-days devoted to Treatment. | Total number of Attendances made by the Children at the Clinic. | Number of Permanent Teeth. | | Number of Temporary Teeth. | | Total Number of Fillings. | Number of Administrations of General Anesthetics included in (4) and (6). | Number of other Operations. | |
| | | | Extracted. | Filled. | Extracted. | Filled. | | | Permanent Teeth. | Temporary Teeth. |
| 20 | 60 | 664 | 226 | 894 | 2067 | — | 894 | 364 | — | — |

Section D is a record of the working of the scheme in operation for dealing with Dental Defects. The number of children examined as new cases, viz., 860, is only slightly less than the previous year's figures, which were the highest recorded, the number of re-examinations is the second highest recorded, and the total number of children inspected by the Dentist, viz., 1,690, is the largest yet recorded. The number of children treated, the number of general anæsthetics administered, and the number of extractions of both permanent and temporary teeth, are all greater than in any previous year.

49 per cent. of the children referred for treatment were treated at the Clinic; this is rather better than that previously observed, *e.g.*, 40 per cent. in 1917, and 44 per cent. in 1918. The average number of children inspected per session was 84.5, and the average number treated per session was 10. The number of children inspected by the Dentist was 23.8 per cent. of the total average attendance at the several schools in the City. It is evident, therefore, that at least 8-10 sessions per week would be required to provide dental examination and treatment for all children in attendance at the Elementary Schools, which would necessitate the services of a full-time Dentist. Further particulars regarding this work, together with Mr. Taylor's remarks on the year's results, are set out in another section of the report.

Summary of Result of Surprise Visits 1917-18 & 19.

| Department. | Percentage of Children with Nits on Hair. | | | Percentage of Children with Vermin on Head. | | | Percentage of Children with Vermin on Body. | | |
|-------------|---|------|------|---|------|------|---|------|------|
| | 1917 | 1918 | 1919 | 1917 | 1918 | 1919 | 1917 | 1918 | 1919 |
| Boys— | | | | | | | | | |
| Infants ... | 0.4 | 1.6 | 2.8 | 1.2 | 2.0 | 1.9 | 0.5 | 0.8 | 0.4 |
| Seniors ... | 0.5 | 0.9 | 2.0 | 0.9 | 1.5 | 1.8 | 1.1 | 0.6 | 0.2 |
| Girls— | | | | | | | | | |
| Infants .. | 12.6 | 15.5 | 26.5 | 5.8 | 5.8 | 7.5 | 0.6 | 0.3 | ... |
| Seniors ... | 15.0 | 19.7 | 27.1 | 6.6 | 7.8 | 7.8 | 0.5 | 0.6 | 0.1 |
| | 7.3 | 9.6 | 14.4 | 3.7 | 4.4 | 4.7 | 0.7 | 0.6 | 0.1 |

CLEANLINESS.

Section E, which deals with the subject of cleanliness, is perhaps the least satisfactory item of this report. A glance at the table, which shows the conditions found at routine inspections during the past ten years, shows a great falling away during the last year. This is most marked in the Entrant and Intermediate groups, where the figures have risen 100 per cent. in respect of Nits and 50 per cent. in respect of Vermin, compared with the previous year. Having regard to the fact that the examinations were not in the nature of surprise visits to schools, the figures must be regarded as very unsatisfactory. A higher standard on the part of those making the examination has not, so far as I am aware, been adopted, and therefore it is not easy to account for the wide difference shown in two successive years, apart from lack of parental activity and supervision. The table which summarises the results found at the surprise visits is, I think, a more reliable index of the activities of teachers. The figures for the past year are not strictly comparable with those of the previous year, as in 1918 a limited inspection only took place, but a comparison of the figures for the past year with those for 1917 is almost conclusive that uncleanliness has actually increased.

In addition to the figures the school nurses report that they require to spend more time in the schools on account of these unsatisfactory conditions. It therefore remains to discover the reason for this retrogression, and I am of opinion that apathy or carelessness in many instances, and actual neglect in others, is a fundamental cause. The influence of the school teachers must also be taken into account, and I am far from satisfied that teachers realise their responsibilities in this connection. There appears to be a general tendency to regard this solely as the work of the school nurse, whereas cleanliness of scholars is, or should be, a primary duty of the teacher, and until this view is accepted and acted upon by them, cleanliness figures will remain unsatisfactory. Head teachers have the authority to exclude children found to be in a verminous condition, and are supplied with printed notices for this purpose, and also with Nit notices where exclusion is not required. The names of all children excluded are to be notified to the School Medical Officer immediately after exclusion. With regard to inspection by nurses, two school nurses visit each school department in the spring and autumn without previous notice to teachers or parents, and

examine every child present. A child is not excluded until each nurse satisfies herself that it is verminous or dirty. A list is compiled of all such children excluded, and copies supplied to the Head Teacher, School Attendance Officer, and School Medical Officer. The nurses also compile a list of children whose condition, though not verminous, is not satisfactory; this list is preserved, and at a later date a re-examination of all the children whose names are on the list is made. Children belonging to routine groups during the same year, or who are seen as specials at the Clinic, are similarly dealt with, so that there is in operation a very complete system of inspection which, if carried out conscientiously, should leave no way of escape for neglected children. A teacher may re-admit excluded children after satisfying himself that the condition has been remedied, and a careful observance of this matter would, I think, do much to improve the uncleanly condition referred to.

Children who are excluded repeatedly are reported to the School Attendance Committee, who authorise a warning letter to be sent to the parent to the effect that a subsequent exclusion may be followed by a prosecution for non-attendance. A summary of the list of such cases is included in this report, which shows the number of exclusions during the past year, from which it would appear that, apart from primary exclusions, there is an improvement upon the previous year in such cases which must be ascribed to the action taken. The number of visits made during 1919 by the nurses to schools for the purpose of cleanliness inspection alone was 155, and the number of examinations made, together with the results, are shown in the tables. No arrangements are made by the Education Committee for the cleansing of verminous children and, although such an arrangement might be considered desirable, I doubt if much benefit would be obtained by the adoption of such a measure. It is, in my opinion, a matter for parents, and it should be insisted upon that they carry out their duties in this respect. No proceedings were taken under the Children Act, but several cases were referred to the N.S.P.C.C. for investigation, the particulars of which are given elsewhere. Proceedings were, however, taken under the School Attendance By-laws in 16 cases with the following results:—12 parents were fined and 4 were put on probation, the summons being finally withdrawn. 110 warning letters were sent by the Clerk to the Education Authority in respect of verminous children.

Table showing Verminous Conditions of the Head and Body (including Clothing), found at "Routine" Inspections, 1910-1919.

ENTRANTS.

| Year. | No. of Scholars Examined. | No. found with Nits in the Head. | | No. found with Verminous (lice) Heads. | | No. found with Verminous (lice) Bodies, including Clothing. | |
|-------|---------------------------|----------------------------------|-----------|--|-----------|---|-----------|
| | | No. | Per cent. | No. | Per cent. | No. | Per cent. |
| 1910 | 1525 | 195 | 12.7 | 103 | 6.7 | 77 | 5.0 |
| 1911 | 890 | 63 | 7.0 | 29 | 3.2 | 23 | 2.5 |
| 1912 | 860 | 101 | 11.7 | 29 | 3.3 | 26 | 3.0 |
| 1913 | 1110 | 147 | 13.2 | 30 | 2.7 | 21 | 1.8 |
| 1914 | 1054 | 91 | 8.6 | 30 | 2.8 | 16 | 1.5 |
| 1915 | 986 | 41 | 4.2 | 31 | 3.2 | 13 | 1.3 |
| 1916 | 611 | 35 | 5.7 | 22 | 3.6 | 10 | 1.6 |
| 1917 | 967 | 60 | 6.2 | 17 | 1.8 | 1 | 0.1 |
| 1918 | 1023 | 57 | 5.6 | 17 | 1.7 | 3 | 0.3 |
| 1919 | 1079 | 113 | 10.5 | 27 | 2.5 | ... | ... |

INTERMEDIATES.

| | | | | | | | |
|------|------|-----|------|----|-----|----|-----|
| 1915 | 830 | 83 | 10.0 | 54 | 6.5 | 15 | 1.8 |
| 1917 | 1131 | 94 | 8.3 | 44 | 3.9 | 8 | 0.7 |
| 1918 | 882 | 70 | 7.9 | 28 | 3.2 | 0 | 0 |
| 1919 | 898 | 152 | 16.9 | 41 | 4.6 | 1 | 0.1 |

LEAVERS.

| | | | | | | | |
|------|------|-----|------|----|------|----|-----|
| 1910 | 530 | 99 | 18.6 | 65 | 12.2 | 18 | 3.3 |
| 1911 | 645 | 49 | 7.5 | 42 | 6.5 | 14 | 2.1 |
| 1912 | 630 | 55 | 8.7 | 12 | 1.9 | 26 | 4.1 |
| 1913 | 759 | 104 | 13.7 | 18 | 2.3 | 32 | 4.2 |
| 1914 | 1597 | 157 | 9.8 | 31 | 1.9 | 38 | 2.4 |
| 1915 | 859 | 78 | 9.1 | 22 | 2.6 | 7 | 0.8 |
| 1916 | 933 | 66 | 7.0 | 16 | 1.7 | 8 | 0.8 |
| 1917 | 973 | 66 | 6.8 | 23 | 2.4 | 10 | 1.0 |
| 1918 | 880 | 62 | 7.0 | 14 | 1.6 | 3 | 0.3 |
| 1919 | 837 | 68 | 8.1 | 18 | 2.2 | 4 | 0.5 |

**Summary of Children excluded for Verminous Conditions
from one to four or more occasions during 1919.**

| School Department. | Vermin on Head. | | | | Vermin on Body or Clothing. | | | | TOTAL |
|----------------------------|-----------------|--------|--------------|--------------------|-----------------------------|--------|--------------|--------------------|-------|
| | Once. | Twice. | Three Times. | Four times or more | Once. | Twice. | Three Times. | Four times or more | |
| Ashley St. Infants ... | 18 | 2 | 1 | ... | ... | ... | ... | ... | 21 |
| " Boys ... | 10 | 1 | ... | ... | 1 | ... | ... | ... | 12 |
| " Girls ... | 22 | 9 | 2 | 2 | ... | ... | ... | ... | 35 |
| Bishop Goodwin Infants ... | 6 | 1 | ... | ... | ... | ... | ... | ... | 7 |
| " Boys ... | 1 | ... | ... | ... | ... | ... | ... | ... | 1 |
| " Girls ... | 19 | 5 | 2 | ... | ... | ... | ... | ... | 26 |
| Botcherby ... | 1 | ... | ... | ... | ... | ... | ... | ... | 1 |
| Brook St. Infants ... | 9 | 1 | ... | ... | ... | ... | ... | ... | 10 |
| " Boys ... | ... | ... | ... | ... | 1 | ... | ... | ... | 1 |
| " Girls ... | 14 | 4 | 1 | ... | ... | ... | ... | ... | 19 |
| Caldewgate Infants ... | 7 | 2 | ... | ... | ... | 1 | ... | ... | 10 |
| " Boys ... | 14 | 2 | 1 | 1 | 5 | 2 | ... | ... | 25 |
| " Girls ... | 38 | 11 | 4 | 5 | 2 | ... | ... | ... | 60 |
| Christ Church Infants ... | 24 | 1 | 2 | ... | 2 | ... | ... | ... | 29 |
| " Girls ... | 34 | 7 | 2 | ... | 2 | ... | ... | ... | 45 |
| Denton Holme ... | 21 | 2 | 2 | ... | 1 | ... | ... | ... | 26 |
| Fawcett ... | 11 | 2 | ... | ... | ... | ... | ... | ... | 13 |
| Higher Grade ... | 2 | 1 | ... | ... | ... | ... | ... | ... | 3 |
| Lowther St. Infants ... | 16 | 6 | ... | ... | ... | ... | ... | ... | 22 |
| " Mixed ... | 19 | 1 | 1 | 1 | 2 | ... | ... | ... | 24 |
| Newtown ... | 4 | 1 | ... | 1 | ... | ... | ... | ... | 6 |
| Norman St. ... | 5 | ... | ... | ... | ... | ... | ... | ... | 5 |
| R. Ferguson Infants ... | 7 | 3 | 1 | ... | ... | ... | ... | ... | 11 |
| " Mixed ... | 10 | 5 | ... | ... | ... | ... | ... | ... | 15 |
| Stanwix Infants ... | 9 | ... | 1 | ... | ... | ... | ... | ... | 10 |
| " Boys ... | 5 | ... | 1 | ... | ... | ... | ... | ... | 6 |
| " Girls ... | 21 | ... | ... | ... | ... | ... | ... | ... | 21 |
| St. Bede's Infants ... | 5 | 4 | 1 | ... | ... | ... | ... | ... | 10 |
| " Senior ... | 13 | 6 | ... | ... | 3 | ... | ... | ... | 22 |
| St. Cuthbert's Infants ... | 15 | 2 | 1 | ... | ... | ... | ... | ... | 18 |
| " Girls ... | 20 | 4 | 2 | 1 | ... | ... | ... | ... | 27 |
| St. John's Boys ... | 5 | 1 | ... | ... | 1 | ... | ... | ... | 7 |
| " Girls ... | 8 | 1 | ... | 1 | ... | ... | ... | ... | 10 |
| St. Patrick's ... | 8 | ... | ... | ... | 1 | ... | ... | ... | 9 |
| St. Stephen's Infants ... | 11 | 1 | ... | ... | ... | ... | ... | ... | 12 |
| " Mixed ... | 9 | 1 | ... | ... | ... | ... | ... | ... | 10 |
| Upperby ... | 8 | ... | ... | ... | 1 | ... | ... | ... | 9 |
| Totals ... | 449 | 87 | 25 | 12 | 22 | 3 | ... | ... | 598 |

Table showing Verminous Conditions of the Head and Body found at the surprise Visits.

Boys.

| First Surprise Visit. | Numbers Examined. | Nits on Hair. | | Vermin on Head. | | Vermin on Body. | |
|------------------------|-------------------|---------------|-----------|-----------------|-----------|-----------------|-----------|
| | | No. | Per cent. | No. | Per cent. | No. | Per cent. |
| Ashley Street ... | 433 | 5 | 1.2 | 10 | 2.3 | 1 | 0.2 |
| Bishop Goodwin ... | 333 | 1 | 0.3 | 2 | 0.6 | ... | ... |
| Botcherby ... | 63 | ... | ... | ... | ... | ... | ... |
| Brook Street ... | 459 | 2 | 0.4 | 3 | 0.7 | ... | ... |
| Caldewgate ... | 380 | 4 | 1.1 | 16 | 4.2 | 6 | 1.6 |
| Christ Church ... | 109 | 4 | 3.7 | 4 | 3.7 | ... | ... |
| Denton Holme ... | 137 | 1 | 0.7 | 2 | 1.5 | ... | ... |
| Fawcett ... | 92 | .. | ... | 2 | 2.2 | ... | ... |
| Higher Grade ... | 113 | ... | ... | ... | ... | ... | ... |
| Lowther Street .. | 197 | 4 | 2.0 | 4 | 2.0 | ... | ... |
| Newtown ... | 72 | 1 | 1.4 | 3 | 4.2 | ... | ... |
| Norman Street ... | 110 | ... | ... | ... | ... | ... | ... |
| Robert Ferguson ... | 311 | 4 | 1.3 | 3 | 1.0 | ... | ... |
| St. Bede's ... | 166 | 7 | 4.2 | 3 | 1.2 | 3 | 1.8 |
| St. Cuthbert's ... | 53 | 2 | 3.8 | 1 | 1.9 | ... | ... |
| St. John's ... | 292 | 12 | 4.1 | 6 | 2.1 | ... | ... |
| St. Patrick's ... | 157 | .. | ... | ... | ... | 1 | 0.6 |
| St. Stephen's ... | 144 | 2 | 1.4 | 1 | 0.7 | ... | ... |
| Stanwix ... | 202 | 3 | 1.5 | 6 | 3.0 | ... | ... |
| Upperby ... | 78 | 3 | 3.8 | 1 | 1.3 | .. | ... |
| Totals ... | 3901 | 55 | 1.4 | 66 | 1.7 | 11 | 0.3 |
| Second Surprise Visit— | | | | | | | |
| Ashley Street ... | 438 | 14 | 3.2 | 13 | 3.0 | ... | ... |
| Bishop Goodwin ... | 306 | ... | ... | ... | ... | ... | ... |
| Botcherby ... | 60 | ... | ... | ... | ... | ... | ... |
| Brook Street ... | 389 | 4 | 1.0 | 1 | 0.3 | ... | ... |
| Caldewgate ... | 364 | 5 | 1.4 | 6 | 1.6 | 2 | 0.5 |
| Christ Church ... | 81 | 3 | 3.7 | ... | ... | ... | ... |
| Denton Holme ... | 135 | 7 | 5.2 | 2 | 1.5 | ... | ... |
| Fawcett ... | 89 | 4 | 4.5 | 2 | 2.2 | ... | ... |
| Higher Grade ... | 99 | ... | ... | ... | ... | ... | ... |
| Lowther Street ... | 187 | 9 | 4.8 | 6 | 3.2 | ... | ... |
| Newtown ... | 69 | 1 | 1.4 | .. | ... | ... | ... |
| Norman Street .. | 83 | 2 | 2.4 | ... | ... | ... | ... |
| Robert Ferguson ... | 274 | 6 | 2.2 | 3 | 1.1 | ... | ... |
| St. Bede's ... | 151 | ... | ... | 1 | 0.7 | ... | ... |
| St. Cuthbert's ... | 40 | 8 | 20.0 | 6 | 15.0 | ... | ... |
| St. John's ... | 281 | 6 | 2.1 | 3 | 1.1 | ... | ... |
| St. Patrick's ... | 168 | 21 | 12.5 | 17 | 10.1 | ... | ... |
| St. Stephen's ... | 134 | 19 | 14.2 | 6 | 4.5 | ... | ... |
| Stanwix ... | 154 | ... | ... | 1 | 0.6 | ... | ... |
| Upperby ... | 68 | 3 | 4.4 | 1 | 1.5 | ... | ... |
| Totals ... | 3570 | 112 | 3.1 | 68 | 1.9 | 2 | 0.1 |

Table showing Verminous Conditions of the Head and Body found at the surprise Visits.

Girls.

| First Surprise Visit. | Numbers Examined. | Nits on Hair. | | Vermin on Head. | | Vermin on Body. | |
|-------------------------------|-------------------|---------------|-------------|-----------------|------------|-----------------|------------|
| | | No. | Per cent. | No. | Per cent. | No. | Per cent. |
| Ashley Street ... | 470 | 116 | 24.7 | 37 | 7.9 | ... | ... |
| Bishop Goodwin ... | 374 | 79 | 21.1 | 34 | 9.1 | ... | ... |
| Botcherby ... | 74 | 6 | 8.1 | ... | ... | ... | ... |
| Brook Street ... | 486 | 102 | 21.0 | 20 | 4.1 | ... | ... |
| Caldewgate ... | 369 | 135 | 36.6 | 49 | 13.3 | ... | ... |
| Christ Church ... | 267 | 76 | 28.5 | 36 | 13.5 | ... | ... |
| Denton Holme ... | 136 | 43 | 31.6 | 10 | 7.4 | ... | ... |
| Fawcett ... | 60 | 13 | 21.7 | 6 | 10.0 | ... | ... |
| Higher Grade .. | 105 | 9 | 8.6 | 1 | 1.0 | ... | ... |
| Lowther Street ... | 183 | 64 | 35.0 | 26 | 14.2 | 1 | 0.5 |
| Newtown ... | 45 | 6 | 13.3 | 5 | 11.1 | ... | ... |
| Norman Street... | 114 | 24 | 21.1 | 3 | 2.6 | ... | ... |
| Robert Ferguson ... | 277 | 58 | 20.9 | 25 | 9.0 | ... | ... |
| St. Bede's ... | 139 | 55 | 39.6 | 22 | 15.8 | ... | ... |
| St. Cuthbert's ... | 204 | 51 | 25.0 | 19 | 9.3 | ... | ... |
| St. John's ... | 113 | 24 | 21.2 | 9 | 8.0 | ... | ... |
| St. Stephen's ... | 133 | 61 | 45.9 | 25 | 18.8 | ... | ... |
| Stanwix ... | 167 | 37 | 22.2 | 14 | 8.4 | ... | ... |
| Upperby ... | 73 | 28 | 38.4 | 12 | 16.4 | ... | ... |
| Totals ... | 3789 | 987 | 26.0 | 353 | 9.3 | 1 | 0.3 |
| Second Surprise Visit— | | | | | | | |
| Ashley Street ... | 434 | 107 | 24.7 | 12 | 2.8 | ... | ... |
| Bishop Goodwin ... | 341 | 101 | 29.6 | 15 | 4.4 | ... | ... |
| Botcherby ... | 70 | 20 | 28.6 | 3 | 4.3 | ... | ... |
| Brook Street ... | 429 | 122 | 28.4 | 27 | 6.3 | ... | ... |
| Caldewgate ... | 356 | 80 | 22.5 | 8 | 2.2 | 1 | 0.3 |
| Christ Church ... | 210 | 84 | 40.0 | 32 | 15.2 | 1 | 0.5 |
| Denton Holme ... | 123 | 34 | 27.6 | 6 | 4.9 | ... | ... |
| Fawcett ... | 62 | 43 | 69.4 | 15 | 24.2 | ... | ... |
| Higher Grade ... | 75 | 11 | 14.7 | 3 | 4.0 | ... | ... |
| Lowther Street ... | 179 | 68 | 38.0 | 16 | 8.9 | ... | ... |
| Newtown ... | 37 | 8 | 21.6 | ... | ... | ... | ... |
| Norman Street ... | 100 | 19 | 19.0 | ... | ... | ... | ... |
| Robert Ferguson ... | 259 | 63 | 24.3 | 10 | 3.9 | ... | ... |
| St. Bede's ... | 129 | 37 | 28.7 | 7 | 5.4 | ... | ... |
| St. Cuthbert's ... | 200 | 72 | 36.0 | 28 | 14.0 | ... | ... |
| St. John's ... | 97 | 24 | 24.7 | 4 | 4.1 | ... | ... |
| St. Stephen's ... | 119 | 14 | 11.8 | 1 | 0.8 | ... | ... |
| Stanwix ... | 138 | 31 | 22.5 | 10 | 7.2 | ... | ... |
| Upperby ... | 66 | 16 | 24.2 | 4 | 6.1 | 1 | 1.5 |
| Totals .. | 3424 | 954 | 27.9 | 201 | 5.9 | 3 | 0.1 |

Summary of the condition of Children with regard to Verminous Conditions.

| | Depart- ment. | No. examined. | Nits on hair. | | Vermin on head. | | Vermin on body. | |
|----------|------------------|------------------|---------------|-----------|-----------------|-----------|-----------------|-----------|
| | | | No. | Per cent. | No. | Per cent. | No. | Per cent. |
| Boys ... | Infants | 2287 | 63 | 2·8 | 43 | 1·9 | 1 | 0·04 |
| | Senior | 5184 | 104 | 2·0 | 91 | 1·8 | 12 | 0·2 |
| Girls .. | Infants | 2120 | 561 | 26·5 | 159 | 7·5 | ... | .. |
| | Senior | 5093 | 1380 | 27·1 | 395 | 7·8 | 4 | 0·1 |
| Totals | | 14684 | 2108 | 14·4 | 688 | 4·7 | 17 | 0·1 |

Re-examination of Verminous Children.

| | Number examined | Improved | Unchanged | Worse |
|----------------------------|--------------------|----------|-----------|-------|
| Nits on Hair | 1754 | 970 | 615 | 167 |
| Vermin on Head .. | 551 | 418 | 120 | 13 |
| Vermin on Body ... | 13 | 9 | 4 | ... |
| Dirty Body and Clothing... | 59 | 46 | 13 | ... |

The following table summarises the various other conditions found and reported by the nurses during the examination of the children :—

| | Boys. | Girls. | Total. |
|---|-------|--------|--------|
| Dirty Body and Clothing | 59 | 39 | 98 |
| Impetigo of Face and Body | 32 | 19 | 51 |
| Impetigo of Scalp | 32 | 35 | 67 |
| Ringworm | 11 | 17 | 28 |
| Blepharitis & other external Eye Diseases | 32 | 16 | 48 |
| Otorrhœa | 10 | 3 | 13 |
| Scabies | 7 | 1 | 8 |
| Eczema | 13 | 1 | 14 |
| Seborrhœa | 3 | 4 | 7 |

Section F deals with such defects as have not already been commented upon. Under the heading of Malnutrition are included cases classified as Pre-Tubercular, in which poor development was an outstanding feature. Some of these cases have been treated at the Delicate Class, others have been sent to the Cottage Home at Waverton by arrangement with the Council of Social Service. In the case of the majority, however, the parents obtained treatment at home. A printed advice note is sent to the parents of all such children, giving particulars as to treatment and general hygiene. The number of these cases was much the same as during previous years. A larger number of cases of Anæmia were referred for treatment during the past year. These were dealt with in the same way as the Malnutrition cases, and they show a better percentage of treatment than formerly. A large number of children suffering from non-tubercular Lung Disease received treatment during the year; with regard to cases of Tuberculosis special remarks appear elsewhere dealing more fully with the condition. Other headings in this section require no further comment. They show the number of cases referred for treatment and the results obtained. The measures adopted for securing treatment are as follows:—

At the time of, or immediately after medical inspection, instructions are given to the parents, either verbally or by printed notice, in some cases both, for securing improvement or remedy of the defects found. A list of all the children found to have defects is sent to the Head Teacher concerned; this list specifies the defect and asks for the teacher's co-operation in securing treatment. After a short interval the School Nurse pays a visit to the home of the child, noting, *inter alia*, the home conditions or the family history, and also ascertains what steps have been taken to remedy the defect. If necessary the nurse advises the parent regarding further treatment, and when nothing has been done, impresses upon the parent the importance of providing treatment, or in the case of a parent whose child is not doing well, she is advised to attend the Clinic for further advice or treatment. Where no action has been taken by the parent to remedy the defect a further notice is sent, and if necessary the procedure is repeated

Table V.—Summary of Treatment of Defects as shown in Table IV. (A., B., C., D., and F., but excluding E.).

| Disease or Defect. | Number of Children. | | | |
|--------------------------------|-------------------------|---|------------|--------|
| | Referred for Treatment. | Treated. | | |
| | | Under Local Education Authority's Scheme. | Otherwise. | Total. |
| Minor Ailments ... | 1200 | 660 | 472 | 1132 |
| Visual Defects ... | 583 | 186 | 70 | 256 |
| Defects of Nose and Throat ... | 890 | 22 | 384 | 406 |
| Dental Defects ... | 1210 | 595 | 33 | 628 |
| Other Defects ... | 808 | 48 | 646 | 694 |
| Total ... | 4691 | 1511 | 1605 | 3116 |

The number of cases of Visual Defect is greater than in the previous year, and the results obtained are much more satisfactory than for some years previously. 43.9 per cent. of these defects were submitted for refraction, of which 31.9 per cent. were treated at the Clinic and 12 per cent. elsewhere. (See Ophthalmic Report.)

Some improvement is noted in the section relating to defects of Nose and Throat. Fewer cases were scheduled for treatment, and the results show a higher percentage of treatment, viz.:—45.6 per cent., of which 2.5 per cent. were treated at the Clinic. The section dealing with Dental Defects, with the exception of 33 cases which were treated privately, is really a record of the scheme of dental inspection and treatment, findings at the routine medical inspection not being included.

The section relating to all other defects shows that the number scheduled for treatment was greater than in the previous year, although, owing to an alteration in the table, a strict comparison cannot be made. The results obtained are very satisfactory, 85.8 per cent. of the defects having received treatment, of which 5.9 per cent. were treated at the Clinic.

Table VI.—Summary relating to children medically inspected at the Routine Inspections during the year 1919.

| | |
|--|------|
| (1) The total number of children medically inspected at the Routine Inspections ... | 2814 |
| (2) The number of children in (1) suffering from defects (other than uncleanness or defective clothing or footgear) who require to be kept under observation (but not referred for treatment) | 737 |
| (3) The number of children in (1) suffering from— | |
| Malnutrition | 260 |
| Skin Disease | 148 |
| Defective Vision (including Squint) ... | 716 |
| Eye Disease | 82 |
| Defective Hearing | 12 |
| Ear Disease | 52 |
| Nose and Throat Disease | 598 |
| Enlarged Cervical Glands (non-tubercular) | 1402 |
| Defective Speech | 27 |
| Dental Disease | 2370 |
| Heart Disease— | |
| Organic | 31 |
| Functional | 37 |
| Anæmia | 260 |
| Lung Disease (non-tubercular) ... | 87 |
| Tuberculosis— | |
| Pulmonary { Definite | 8 |
| Suspected | 147 |
| Non-Pulmonary | 4 |
| Disease of the Nervous System ... | 3 |
| Deformities | 10 |
| Other Defects and Diseases | 122 |
| (4) The number of children in (1) who were referred for treatment (excluding uncleanness, defective clothing, &c.) | 987 |
| (5) The number of children in (4) who received treatment for one or more defects (excluding uncleanness, defective clothing, &c.) ... | 665 |

Table VI relates to routine cases and has already been commented upon. It may be mentioned, however, that 67 per cent. of the children found defective at these inspections have received treatment in some form. This is a considerable improvement upon the figures for 1918, viz., 70 per cent., which included special cases.

INFECTIOUS DISEASES.

There was an increase in the number of cases of Measles notified during the year. This disease assumed epidemic form about the middle of September. The number of cases rose rapidly to a maximum in November, and then fell away sharply at the end of the year.

The number of cases of Whooping Cough was much smaller than in 1918, Mumps also decreased. Chickenpox was slightly more in evidence, but fewer cases of Diphtheria were notified. It was not considered necessary to take any action with regard to school closure.

Table showing the number of children excluded by the Medical Officer at School and Clinic for conditions other than Verminous:—

| | | | | | |
|--|-----|-----|-----|-----|-----------------|
| Scabies | ... | ... | ... | ... | 146 |
| Ringworm | ... | ... | ... | ... | 115 |
| Impetigo | ... | ... | ... | ... | 75 |
| Other Skin Diseases | ... | ... | ... | ... | 49 |
| External Eye Diseases | ... | ... | ... | ... | 71 |
| Pulmonary Tuberculosis | ... | ... | ... | ... | 72 |
| Other Forms of Tuberculosis and suspected Pulmonary Tuberculosis | ... | ... | ... | ... | 35 |
| Other Respiratory Diseases | ... | ... | ... | ... | 18 |
| Heart and Circulation | ... | ... | ... | ... | 19 |
| Infectious Diseases | ... | ... | ... | ... | 14 |
| Miscellaneous | ... | ... | ... | ... | 74 |
| | | | | | <hr/> 688 <hr/> |

CONTAGIOUS DISEASES.

SCABIES.

There was a further decrease in the number of children excluded on account of this disease, viz., 146, compared with 177 in 1918, and 216 in 1917. The average period of absence was 31 days, the total number of school

days lost being 4,464. This troublesome disease appears to be getting more under control, and it is hoped may be stamped out in the near future.

RINGWORM.

The number of children excluded on account of this disease is much the same as in the two previous years; the number of days lost, and the average period of exclusion being also closely comparable. The total number of days lost was 13,289, equal to an average exclusion of 116 days per child. The period during which X-ray treatment was in operation during the year was too short to permit of remarks being made upon its effect upon school attendance, but it is assumed that considerable saving of time will be observed in the year 1920.

IMPETIGO.

Fewer children were excluded for this disease than in the previous year, as treatment could be offered to all cases at the Clinic, and exclusion was only carried out during the acute stage of the disease.

EXTERNAL EYE DISEASES.

The number of exclusions under this heading was greater than in the previous year, but there was nothing of the nature of an epidemic of acute contagious ophthalmia during the year. The increase in the number of cases was due to phlyctenular and other nutritional conditions not of a contagious nature, where a period of rest and fresh air treatment was thought necessary to expedite the cure.

A table is included, showing the total number of children excluded at school and Clinic for various conditions. The number of exclusions on account of Pulmonary Tuberculosis is much larger than in the previous year. This was not due to an increase of the disease in the City, but occurred as a result of a special investigation of Tuberculosis in school children, the particulars of which are dealt with in another part of the report.

Table showing the incidence of notifiable infectious diseases for the year 1919 in Scholars attending the Schools within the City.

| School. | | | Scarlet Fever. | Diphtheria | Measles. |
|-----------------|-----|-----|-------------------|------------|----------|
| Ashley Street | ... | ... | 1 | 1 | 44 |
| Bishop Goodwin | ... | ... | — | 4 | 135 |
| Botcherby | ... | ... | — | — | 23 |
| Brook Street | ... | ... | 2 | — | 34 |
| Caldewgate | ... | .. | — | — | 44 |
| Christ Church | ... | ... | 2 | 1 | 36 |
| Denton Holme | ... | ... | — | — | 7 |
| Fawcett | ... | ... | — | — | 1 |
| Higher Grade | ... | ... | — | — | — |
| Lowther Street | ... | ... | 1 | 1 | 50 |
| Newtown | ... | ... | — | 3 | 28 |
| Norman Street | ... | ... | — | 2 | 63 |
| Robert Ferguson | ... | ... | — | 1 | 54 |
| St. Bede's | ... | ... | — | 1 | 14 |
| St. Cuthbert's | ... | ... | — | — | 31 |
| St. John's | ... | ... | — | 1 | 6 |
| St. Patrick's | ... | ... | — | — | 1 |
| St. Stephen's | ... | ... | — | — | 18 |
| Stanwix | ... | ... | 4 | — | 34 |
| Upperby | ... | ... | — | — | 24 |
| Private Schools | ... | .. | 2 | 1 | 23 |
| Totals | ... | ... | 12 | 16 | 670 |

NOTIFICATIONS OF CERTAIN INFECTIOUS DISEASES BY
ATTENDANCE OFFICERS AND HEAD TEACHERS.

**Table showing summary of these diseases arranged
for Districts and Schools.**

| | Name of School (All Departments). | Average attendance. | School Accom- modation. | Chicken- pox. | Whoop- ing Cough. | Mumps. | Totals. |
|---------------------------|--------------------------------------|------------------------|-------------------------------|------------------|-------------------------|--------|---------|
| <i>Western District.</i> | Ashley Street ... | 780·01 | 1161 | 18 | 6 | 8 | 32 |
| | St. Bede's ... | 240·45 | 311 | 1 | 2 | 2 | 5 |
| | Caldewgate ... | 673·42 | 887 | 4 | 1 | 8 | 13 |
| | Denton Holme ... | 267·86 | 912 | 2 | 2 | 35 | 39 |
| | Robert Ferguson | 517·87 | 720 | 19 | 22 | 12 | 53 |
| | Newtown ... | 126·9 | 400 | 37 | — | 2 | 39 |
| | Totals ... | 2606·51 | 4391 | 81 | 33 | 67 | 181 |
| <i>Northern District.</i> | Fawcett ... | 144·94 | 474 | — | — | — | — |
| | St. Stephen's ... | 272·09 | 300 | — | 1 | 6 | 7 |
| | Christ Church ... | 345·57 | 381 | — | — | 2 | 2 |
| | St. Cuthbert's ... | 285·83 | 372 | 6 | — | — | 6 |
| | St. Patrick's ... | 184·06 | 272 | 1 | — | 1 | 2 |
| | Lowther Street ... | 381·13 | 549 | 1 | — | 3 | 4 |
| | Higher Grade ... | 180·37 | 253 | — | — | — | — |
| | Stanwix ... | 337·53 | 517 | 11 | — | 1 | 12 |
| | Totals ... | 2131·52 | 3118 | 19 | 1 | 13 | 33 |
| <i>Southern District.</i> | Botcherby ... | 125·14 | 198 | — | — | 52 | 52 |
| | Norman Street ... | 201·16 | 400 | 12 | 38 | 35 | 85 |
| | Brook Street ... | 810·57 | 1132 | 8 | 4 | 6 | 18 |
| | St. John's ... | 441·08 | 604 | — | — | 1 | 1 |
| | Bishop Goodwin... | 650·37 | 955 | 3 | 15 | 14 | 32 |
| | Upperby ... | 134·2 | 300 | — | 2 | 2 | 4 |
| | Totals ... | 2362·52 | 3589 | 23 | 59 | 110 | 192 |
| | Grand Totals ... | 7100·55 | 11098 | 123 | 93 | 190 | 406 |

TUBERCULOSIS.

The closest possible co-ordination is maintained between the School Medical and Tuberculosis Services in the City. The Tuberculosis Officer assists with the routine inspection of children in the schools, and also at the Clinic held for special cases, in addition to holding a special Clinic at the Tuberculosis Dispensary for children of school age on Wednesday afternoons. At this Clinic not only do children notified as suffering from Tuberculosis attend for examination, supervision, and treatment, but also children whom the Assistant School Medical Officer suspects as being tubercular are referred for diagnosis; contacts of school age are also examined and kept under supervision. Each School Nurse also carries out the duties of a Tuberculosis Nurse for the area allotted to her, with the result that they have knowledge of houses in which Tuberculosis has occurred, and when a child from an infected house is presented for examination in the schools, this fact is brought to the notice of the Assistant School Medical Officer, who may pay special attention to any signs or symptoms suggestive of Tuberculosis, a note of this history is made on the record card and the child kept under close observation during his school life. A further result of this co-ordination of services is that the supervision of a tuberculous child may be maintained as long as is necessary without interruption after he has left school.

During the past year 34 children of school age were notified as suffering from Tuberculosis, 23 by the Assistant School Medical Officer and 11 by other medical practitioners.

| Localisation. | Male. | Female. | Totals. |
|----------------------|-------|---------|---------|
| Lungs | 9 | 13 | 22 |
| Glands | 2 | 3 | 5 |
| Bones and Joints ... | 4 | 1 | 5 |
| Meninges | 1 | 1 | 2 |
| Totals | 16 | 18 | 34 |

Notifications of Tuberculosis 1919.

| Ages | Notifications on Form A. | | | Notifications on Form B. | | | | Total Notifications. |
|----------------|--------------------------|-------|------------------|--------------------------|------|-------|------------------|----------------------|
| | 5-10 | 10-15 | Total on Form A. | 0-5 | 5-10 | 10-15 | Total on Form B. | |
| Pulmonary— | | | | | | | | |
| Males ... | 1 | 1 | 2 | ... | 4 | 3 | 7 | 9 |
| Females ... | ... | 1 | 1 | ... | 8 | 4 | 12 | 13 |
| Non-pulmonary— | | | | | | | | |
| Males ... | 3 | 2 | 5 | 1 | 1 | ... | 2 | 7 |
| Females ... | 2 | 1 | 3 | ... | 1 | 1 | 2 | 5 |
| Total | 6 | 5 | 11 | 1 | 14 | 8 | 23 | 34 |

143 children attended the Tuberculosis Dispensary for examination and treatment, of whom 106 were old cases and 37 new cases, making a total of 526 attendances.

9 children received special treatment by means of injections of Tuberculin B.E. (Bacilliary Emulsion), a total of 61 injections being given. The course of treatment in each case commenced with a dose of .0005 cubic millimetre of Tuberculin B.E., the dose being slowly increased each fortnight. The results in all cases have been satisfactory, and it is intended to extend this form of treatment in suitable cases.

6 children were receiving treatment in Blencathra Sanatorium on January 1st, 1919, 15 cases were admitted during the year; 18 cases were discharged from the Sanatorium, and 3 remained under treatment on December 31st.

The condition on discharge of the 18 children was as follows:—

| | | | | | |
|---------------|-----|-----|-----|-----|----|
| Much improved | ... | ... | ... | ... | 7 |
| Improved | ... | ... | ... | ... | 10 |
| Unchanged | ... | ... | ... | ... | 1 |
| | | | | | — |
| | | | | | 18 |
| | | | | | — |

Since Tuberculosis became notifiable in 1911, 732 children under the age of 14 years have been notified, of whom 362 were males and 370 were females. 530 of these children (256 males and 274 females) were notified as suffering from the Pulmonary form of Tuberculosis, 50 from Glandular Tuberculosis, 64 from Abdominal Tuberculosis, 32 from Tuberculosis of the Bones and Joints, 50 from Meningeal Tuberculosis, and 6 from other forms of the disease.

During the past year tuberculous children were followed up by the School Nurses, and as many as possible were examined by the Tuberculosis Officer. The tables on pages 34 and 35 set out the condition of these children at the end of the year. Of the 530 cases of Pulmonary Tuberculosis notified, it is encouraging to be able to report that in 334, or 63 per cent. of the cases, the disease has been arrested, and that only in 54, or 10 per cent., is the disease still active. 52 have died since notification, 3 were killed on active service, while several died of diseases other than Tuberculosis. 40 children have left the City, and 32 could not be traced.

The table on page 36 sets out the condition at the end of last year of 113 school children who have received sanatorium treatment for Pulmonary Tuberculosis. 7 have since died, 3 have left the City, and 1 could not be traced. The disease in 76, or 74.5 per cent. of the remainder, is classified as arrested or quiescent, 19 are still unfit to attend school, 7 are now over school age and the disease has not been arrested, although 4 are sufficiently well to work.

Of the 50 cases of Glandular Tuberculosis, in 42 instances the disease is now arrested, and in only 4 is the disease still active.

Of the 64 children notified as suffering from Abdominal Tuberculosis 24 are reported as dead, but in the case of this form of the disease, as well as in the case of Meningeal Tuberculosis, many children who were notified were under school age at the time of notification, and died before reaching school age. In a number of instances the notification was only received just before death. Of the 30 cases of Abdominal Tuberculosis investigated the disease had been arrested in 24 and was still active in 6.

26 cases of Tuberculosis of the Bones and Joints were investigated; in 22 the disease was quiescent, and in 4 it

was still active. 2 children had died, 3 had left the City, and 1 could not be traced.

Of the 6 children notified as suffering from other forms of Tuberculosis the disease has been arrested in the case of 3; 2 are still suffering and 1 has died.

50 children were notified as suffering from Tuberculosis of the Brain and Meninges, of whom 45 are reported as dead. In this case a large majority of the children were under school age. In only 2 instances were the children reported as being well and attending school, and, having regard to the extremely fatal nature of this form of the disease, it may be concluded that in these 2 instances the diagnosis has been incorrect.

The condition of the 732 children notified as suffering from all forms of Tuberculosis between the years 1911-1918 inclusive are summarised in the following table:—

| | | | | Males. | Females. | Total. |
|-------------------------------|-----|-----|-----|--------|----------|--------|
| Dead | ... | ... | ... | 61 | 63 | 124 |
| Left City | ... | ... | ... | 31 | 24 | 55 |
| Not traced | ... | ... | ... | 22 | 16 | 38 |
| Disease arrested or quiescent | ... | ... | ... | 219 | 226 | 445 |
| Disease active | ... | ... | ... | 29 | 41 | 70 |
| Totals | | | | 362 | 370 | 732 |

It will be seen that in 60.8 per cent. the disease has been arrested, and in 9.6 per cent. it is still active, while 16.9 per cent. have died, 7.5 per cent. have left the City, and 5.2 per cent. could not be traced.

The high percentage of cases in which Tuberculosis in children has been arrested or cured is extremely gratifying, and is a distinct encouragement to take all steps possible to search out Tuberculosis in its early stages and apply prompt treatment. The open-air class, which was established in Denton Holme School in 1911, has, in my opinion, been a factor in restoring to health debilitated children and those suffering from Tuberculosis in the early and non-infectious stages. This class, which has accommodation for 25 children, has now been transferred to more suitable premises at Newtown Infants' School, where treatment is carried out under open-air regime until an open-air school can be established.

FEMALES.

| | | YEAR. | | | | | | | | | | |
|---|---------------|-------|------|------|------|------|------|------|------|--------|--|--|
| | | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | Total. | | |
| Total Cases Notified | | 4 | 77 | 86 | 45 | 63 | 53 | 23 | 19 | 370 | | |
| Pulmonary Tuberculosis. | Total | 4 | 77 | 63 | 34 | 34 | 38 | 13 | 11 | 274 | | |
| | Dead | 1 | 9 | 5 | 1 | 2 | 5 | 2 | 1 | 26 | | |
| | Left City | | 8 | 2 | 4 | 4 | 3 | | | 21 | | |
| | Not Traced | | 5 | 6 | 1 | | 1 | | | 13 | | |
| | Over School | 3 | 37 | 30 | 8 | 8 | 8 | 1 | | 95 | | |
| | Age | | 7 | 2 | 2 | | 1 | | 1 | 13 | | |
| | Of School | | 5 | 13 | 16 | 13 | 12 | 5 | 4 | 68 | | |
| | Age | | 3 | 4 | | 4 | 6 | 1 | | 18 | | |
| | | | 2 | 1 | 2 | 3 | 2 | 4 | 5 | 19 | | |
| | In Sanatorium | | 1 | | | | | | | 1 | | |
| Glandular Tubercu- losis. | Total | | | 4 | 2 | 11 | 5 | 3 | | 25 | | |
| | Over School | | | 3 | 1 | 4 | | | | 8 | | |
| | Age | | | | | 1 | | | | 1 | | |
| | Of School | | | 1 | | 5 | 5 | 2 | | 13 | | |
| | Age | | | | 1 | 1 | | 1 | | 3 | | |
| Abdominal Tuberculosis. | Total | | | 11 | 6 | 5 | 1 | 2 | 5 | 30 | | |
| | Dead | | | 4 | 2 | 2 | | 2 | 3 | 13 | | |
| | Left City | | | 2 | | | | | | 2 | | |
| | Not Traced | | | 1 | | 1 | | | | 2 | | |
| | Over School | | | | 2 | | | | | 2 | | |
| | Age | | | | | | | | | | | |
| Of School | | | | 3 | 1 | 2 | | | 2 | 8 | | |
| | Age | | | 1 | 1 | | 1 | | | 3 | | |
| | | | | | | | | | | | | |
| Tuberculosis of Bones and Joints. | Total | | | 5 | | 5 | 3 | | | 13 | | |
| | Dead | | | 1 | | | | | | 1 | | |
| | Over School | | | 1 | | 1 | | | | 2 | | |
| | Age | | | | | | | | | | | |
| Of School | | | | 3 | | 4 | 2 | | | 9 | | |
| | Age | | | | | | 1 | | | 1 | | |
| | | | | | | | | | | | | |
| Meningeal Tuberculosis. | Total | | | 2 | 2 | 8 | 5 | 5 | 3 | 25 | | |
| | Dead | | | 1 | 2 | 7 | 4 | 5 | 3 | 22 | | |
| | Left City | | | | | | 1 | | | 1 | | |
| | Not Traced | | | 1 | | | | | | 1 | | |
| | Of School | | | | | 1 | | | | 1 | | |
| Age | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Other Forms of Tuberculosis. | Total | | | 1 | 1 | | 1 | | | 3 | | |
| | Dead | | | | | | 1 | | | 1 | | |
| | Of School | | | 1 | 1 | | | | | 2 | | |
| | Age | | | | | | | | | | | |

Results of Sanatorium Treatment 1911—1918.

| | YEAR. | | | | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | Total |
|----------|---------------|-----|------------------|-----|------|------|------|------|------|------|------|------|-------|
| MALES. | Total | ... | ... | ... | 2 | ... | ... | 4 | 12 | 10 | 8 | 10 | 46 |
| | Dead | ... | ... | ... | ... | ... | ... | ... | 1 | 2 | 1 | 1 | 5 |
| | Left City | ... | ... | ... | .. | ... | .. | 1 | 1 | ... | ... | ... | 2 |
| | Not Traced | .. | ... | ... | 1 | ... | ... | ... | ... | ... | .. | ... | 1 |
| | At School | { | Disease Arrested | ... | ... | ... | ... | ... | ... | 3 | 1 | ... | 4 |
| | | | „ Quiescent | ... | ... | ... | ... | .. | 2 | ... | 2 | 6 | 10 |
| | Not at School | { | „ Improved | ... | ... | ... | ... | 1 | 1 | ... | ... | ... | 2 |
| | | | „ Unchanged | ... | ... | .. | ... | ... | ... | 1 | 2 | 3 | |
| | | | „ Worse | ... | ... | .. | ... | ... | 1 | ... | 1 | ... | 2 |
| | Left School | { | „ Arrested | ... | 1 | ... | ... | 3 | 5 | 4 | 1 | 1 | 15 |
| „ Active | | | ... | .. | ... | ... | ... | 1 | ... | 1 | ... | 2 | |
| FEMALES. | Total | ... | ... | ... | 1 | 3 | 7 | 6 | 20 | 11 | 9 | 10 | 67 |
| | Dead | .. | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | 2 |
| | Left City | ... | ... | ... | .. | ... | ... | .. | 1 | ... | ... | ... | 1 |
| | Not Traced | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | At School | { | Disease Arrested | ... | ... | ... | 2 | 1 | 4 | 4 | ... | 4 | 15 |
| | | | „ Quiescent | ... | .. | ... | ... | ... | 1 | 1 | 5 | 1 | 8 |
| | Not at School | { | „ Improved | ... | ... | ... | ... | 1 | 1 | 2 | 1 | 4 | 9 |
| | | | „ Unchanged | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 |
| | | | „ Worse | ... | ... | .. | ... | ... | 2 | ... | ... | ... | 2 |
| | Left School | { | „ Arrested | ... | 1 | 3 | 5 | 4 | 7 | 2 | 2 | ... | 24 |
| | | | „ Active | .. | ... | ... | ... | ... | 3 | 1 | ... | 1 | 5 |
| | Totals | | | | | 3 | 3 | 7 | 10 | 32 | 21 | 17 | 20 |

Numerical Return of all exceptional Children in the area in 1919.

| BLIND (including partially blind), within the meaning of the Elementary Education (Blind and Deaf Children) Act, 1893 | | Attending Public Elementary Schools | Boys. | Girls. | Total. |
|---|---|--|-------|--------|--------|
| | | Attending Certified Schools for the Blind | 1 | 3 | 4 |
| | | Not at School | 1 | ... | 1 |
| DEAF AND DUMB (including partially deaf), within the meaning of the Elementary Education (Blind and Deaf Children) Act, 1893 | | Attending Public Elementary Schools | ... | ... | ... |
| | | Attending Certified Schools for the Deaf | 4 | 2 | 6 |
| | | Not at School | ... | ... | ... |
| MENTALLY DEFICIENT | Feeble-minded | Attending Public Elementary Schools | 4 | ... | 4 |
| | | Attending Certified Schools for Mentally Defective Children | ... | ... | ... |
| | | Notified to the Local Control Authority by Local Education Authority during the year | ... | ... | ... |
| | | Not at School | 1 | 1 | 2 |
| | Imbeciles | At School | ... | ... | ... |
| | Not at School | 1 | 2 | 3 | |
| Idiots | ... | 2 | 2 | 4 | |
| EPILEPTICS | | Attending Public Elementary Schools | ... | ... | ... |
| | | Attending Certified Schools for Epileptics | 1 | ... | 1 |
| | | In Institutions other than Certified Schools | ... | ... | ... |
| | | Not at School | 2 | ... | 2 |
| PHYSICALLY DEFECTIVE | Pulmonary Tuberculosis | Attending Public Elementary Schools | 74 | 88 | 162 |
| | | Attending Certified Schools for Physically Defective Children | ... | ... | ... |
| | | In Institutions other than Certified Schools | ... | ... | ... |
| | | Not at School | 13 | 18 | 31 |
| | Crippling due to Tuberculosis | Attending Public Elementary Schools | ... | ... | ... |
| | | Attending Certified Schools for Physically Defective Children | ... | ... | ... |
| | | In Institutions other than Certified Schools | ... | ... | ... |
| | | Not at School | 1 | 1 | 2 |
| | Crippling due to causes other than Tuberculosis, i.e., Paralysis, Rickets, Rheumatism | Attending Public Elementary Schools | 25 | 9 | 34 |
| | | Attending Certified Schools for Physically Defective Children | .. | ... | .. |
| | | In Institutions other than Certified Schools | ... | ... | ... |
| | | Not at School | 2 | ... | 2 |
| Dull or Backward | | Retarded 2 years | 285 | 255 | 540 |
| | | Retarded 3 years | 101 | 57 | 158 |

DEATHS OCCURRING IN SCHOOL CHILDREN.

(Ages 5 to 14) for the year ending 1919.

| | | | | |
|------------------------|-----|-----|-----|----|
| Tubercular Meningitis | ... | ... | ... | 4 |
| Heart Disease | ... | ... | ... | 4 |
| Nephritis | ... | ... | ... | 2 |
| Diphtheria | ... | ... | ... | 2 |
| Measles | ... | ... | ... | 2 |
| Diarrhœa | ... | ... | ... | 1 |
| Septicæmia | ... | ... | ... | 1 |
| Pulmonary Tuberculosis | ... | ... | ... | 1 |
| Purpura | ... | ... | ... | 1 |
| Bronchitis | ... | ... | ... | 1 |
| Peritonitis | ... | ... | ... | 1 |
| Diabetes Mellitus | ... | ... | ... | 1 |
| Accident | ... | ... | ... | 1 |
| | | | | — |
| | | | | 22 |
| | | | | — |

EXAMINATION OF TEACHERS.

During the year 39 candidates for appointments as teachers, &c., were examined and the results reported to the Education Committee as follows:—

| | No. Ex- amined. | No Defect. | Recommended subject to obtaining treatment for:— | |
|--------------------------------|--------------------|-------------------|--|--------------------------------------|
| | | Recom- mended. | Defective Teeth. | Defective Teeth and Vision. |
| Head Master ... | 1 | 1 | ... | ... |
| Head Mistresses ... | 2 | 2 | ... | ... |
| Assistant Masters ... | 5 | 4 | 1 | ... |
| Assistant Mistresses ... | 11 | 9 | 2 | ... |
| Handicraft Instructor ... | 1 | 1 | ... | ... |
| Physical Training Instructress | 1 | 1 | ... | .. |
| Cookery Mistresses ... | 2 | 2 | ... | ... |
| Supplementary Teachers ... | 3 | 3 | ... | ... |
| Nursery Assistants ... | 5 | 2 | 3 | ... |
| Pupil Teachers ... | 5 | 2 | 2 | 1 |
| Student Teachers ... | 3 | 2 | 1 | ... |
| Totals ... | 39 | 29 | 9 | 1 |

OUTSIDE HELP.

CARLISLE COUNCIL OF SOCIAL SERVICE.

I desire to acknowledge the valuable help given by this Society, formerly known as the Charity Organisation Society, through the Secretary, Miss Henderson, by means of which 33 delicate children, including 25 girls and 8 boys, were sent to the Cottage Home at Waverton. The children were selected mainly by the Assistant Medical Officers and medically inspected before and after their residence at the Home, where their stay varied from one to three months, according to the needs of the children. In addition, one boy was sent to the Silloth Institution, and one child suffering from Tubercular Disease of the Spine was sent to Ormerod Home, St. Annes-on-Sea, for eight months. Clothing was supplied to four children in order that they might go to Blencathra Sanatorium, and one boy was supplied with crutches. A daily supply of milk for nine months was given to a paralysed child, and two children were removed from infection at the request of the doctor.

NATIONAL SOCIETY FOR THE PREVENTION OF CRUELTY TO CHILDREN.

I have to acknowledge the valuable help given by this Society through its energetic local officer, Mr. Brooker. The following is a list of particulars of cases dealt with by him :—

| | | |
|--|--------|----|
| Cases recorded on the books of the Society | ... | 8 |
| Homes visited | | 8 |
| Subsequent visits | | 43 |
| Cases improved | | 7 |

The above matters affected the welfare of 33 children.

Table showing the comparison between the average heights and weights of Carlisle Scholars with the height and weight Standards of Dr. A. W. Tuxford and Dr. R. Ashleigh Glegg, for England and Urban areas respectively.

MEASUREMENTS TAKEN IN ORDINARY IN-DOOR CLOTHING
AND WITHOUT BOOTS.
BOYS.

| Age. | No. | Height—Inches. | | | Weight—Pounds. | | |
|------|-----|----------------|----------|--------------|----------------|----------|--------------|
| | | Carlisle. | England. | Urban Areas. | Carlisle. | England. | Urban Areas. |
| 4 | 78 | 39·3 | 38·7 | 38·5 | 36·2 | 35·9 | 35·5 |
| 5 | 361 | 40·8 | 40·6 | 40·4 | 38·3 | 38·7 | 38·2 |
| 6 | 82 | 43·2 | 42·5 | 42·3 | 43·2 | 42·6 | 42·6 |
| 7 | 18 | 44·1 | 45·2 | 45·0 | 43·2 | 46·7 | 46·3 |
| 8 | 218 | 47·5 | 47·0 | 46·9 | 51·0 | 50·4 | 50·2 |
| 9 | 207 | 48·7 | 49·2 | 48·7 | 54·7 | 55·3 | 53·5 |
| 10 | 13 | 50·9 | 50·5 | 49·8 | 60·3 | 60·6 | 60·0 |
| 12 | 298 | 54·3 | 55·0 | 54·7 | 72·5 | 72·9 | 71·5 |
| 13 | 119 | 55·6 | 56·1 | 56·1 | 83·6 | 77·5 | 77·2 |
| 14 | 1 | 58·0 | 57·9 | 57·8 | 84·0 | 84·1 | 83·9 |

Table showing the comparison between the average heights and weights of Carlisle Scholars with the height and weight Standards of Dr. A. W. Tuxford and Dr. R. Ashleigh Glegg, for England and Urban areas respectively.

MEASUREMENTS TAKEN IN ORDINARY IN-DOOR CLOTHING
AND WITHOUT BOOTS.

GIRLS.

| Age. | No. | Height—Inches. | | | Weight—Pounds. | | |
|------|-----|----------------|----------|--------------|----------------|----------|--------------|
| | | Carlisle. | England. | Urban Areas. | Carlisle. | England. | Urban Areas. |
| 4 | 56 | 39·2 | 38·6 | 38·1 | 35·4 | 34·9 | 34·6 |
| 5 | 374 | 40·2 | 40·4 | 40·2 | 36·7 | 37·6 | 37·3 |
| 6 | 77 | 41·9 | 42·4 | 42·2 | 39·6 | 41·0 | 40·6 |
| 7 | 17 | 44·0 | 44·8 | 44·7 | 43·7 | 45·2 | 45·0 |
| 8 | 228 | 47·2 | 46·3 | 46·3 | 49·4 | 48·9 | 48·9 |
| 9 | 208 | 47·7 | 48·9 | 48·3 | 52·0 | 54·7 | 54·2 |
| 10 | 7 | 52·0 | 51·2 | 51·0 | 62·0 | 59·0 | 58·6 |
| 12 | 285 | 54·8 | 54·6 | 54·9 | 74·1 | 73·9 | 72·3 |
| 13 | 124 | 56·0 | 56·9 | 56·7 | 78·5 | 80·0 | 79·2 |

THE SCHOOL CLINIC.

The medical inspection of Specials referred to the Clinic was carried out as previously on Monday and Thursday mornings. The new cases totalled 816 compared with 684 in the previous year. Of this number 485 children were referred to the Clinic by Head Teachers, 115 by the School Attendance Committee, 57 by School Nurses, and 149 were brought by the parents themselves for advice and treatment.

TREATMENT OF MINOR AILMENTS.

The appointment of an additional nurse became necessary in order to cope with the expansion of work of treatment of minor ailments, which requires the attendance of two nurses each morning and an additional nurse on Monday and Thursday mornings when the special clinics are on. The total number of attendances at the treatment Clinic has increased by about 50 per cent. over the previous year, while at the end of the year the average daily attendance was about 100 per cent. greater than at the corresponding period in the previous year.

The total number of cases treated was 660 as compared with 464 the previous year, the average number of attendances per case being 18. The accompanying tables exhibit the particulars of attendances, diseases treated, and results obtained.

EXAMINATION OF DEFECTIVE VISION.

The further examination of Visual Defects has been carried out during the past year by the Assistant School Medical Officer; one morning in each week has been devoted to the estimation of errors of refraction.

Where a child was found at the time of medical inspection to have an apparently severe defect of vision the parents were given the opportunity of bringing the child to the Ophthalmic Clinic at the earliest possible date. In less serious defects the parent was advised to obtain advice and treatment in the first instance, and on re-examination, if no steps had been taken, further treatment was then offered at the Clinic. 35 Ophthalmic Clinics were held during the year and 186 children were examined, viz., 84 boys and 102 girls. The following conditions were observed:—

| | Boys. | Girls. | Total. |
|---|-------|--------|--------|
| Hypermetropia (long sight) ... | 25 | 24 | 49 |
| Hypermetropic Astigmatism ... | 16 | 31 | 47 |
| Compound Hypermetropic Astigmatism ... | 24 | 18 | 42 |
| Myopia (short sight) ... | 7 | 3 | 10 |
| Myopic Astigmatism ... | 3 | 11 | 14 |
| Compound Myopic Astigmatism | 1 | 7 | 8 |
| Mixed Astigmatism ... | 2 | 4 | 6 |
| No refractive error ... | 6 | 4 | 10 |
| | — | — | — |
| Totals ... | 84 | 102 | 186 |
| | — | — | — |

Squint was present in 34 cases.

Spectacles were considered necessary in 151 cases and a prescription given to the parents; in 9 instances where the parent was unable to provide spectacles these were provided by the Education Committee.

With regard to the adequacy of the arrangements for examination of visual defect under the Education Act of 1918, it is estimated that about 400 children annually would require attention. It is, I think, possible to provide for the examination of 200-250 children, devoting one session per week to the work, with the present staff and, as many parents refuse to avail themselves of these services, provided other duties remain much as at present, the Assistant Medical Officer responsible will be able to cope with the cases.

X-RAY TREATMENT OF RINGWORM.

The installation of the X-ray apparatus was not completed until the end of August, so that this form of treatment was only available during four months of the year. During this period the work has been, to some extent, experimental, as, apart from acquiring a knowledge of the principles of treatment, it takes considerable time to acquire the requisite knowledge of the apparatus and its idiosyncrasies in order to obtain satisfactory results. Up to the end of the year 36 cases had been selected for treatment and 57 separate exposures were made. The number of areas per head treated varied from 1 to 4, complete removal of hair not being attempted in any case.

In order to avoid the risks of permanent baldness exposures were restricted to such a minimum exposure as would show a positive result. The disadvantage of the adoption of a minimum exposure is that the same area may need repeated attention, but such a procedure has the advantage of less risk of baldness following. After exposure to the X-Rays the cases have attended the Minor Ailments Clinic for epilation and other measures, and by this means it has been found practicable to allow the children to attend school at a much earlier date than would otherwise have been possible. The number of cases dealt with is insufficient to warrant a tabulation of the results, but I am of opinion that the treatment is likely to be very beneficial, both with regard to cutting down the number of cases and also cutting short the period of exclusion from school. This Clinic has been held on a Thursday afternoon; 10 sessions have been held and 48 attendances have been made by the children treated.

Attendances at Treatment Clinic.

| Month. | No. of days Clinic open. | Total Attendance. | Average daily Attendance. | Maximum daily Attendance. |
|-----------------------|-----------------------------|----------------------|---------------------------------|---------------------------------|
| January | 23 | 839 | 36 | 51 |
| February | 8 | 302 | 38 | 55 |
| March | 24 | 923 | 38 | 56 |
| April | 22 | 749 | 34 | 63 |
| May | 27 | 1233 | 46 | 71 |
| June | 22 | 1037 | 47 | 64 |
| July (schools closed) | ... | ... | ... | ... |
| August | 21 | 981 | 47 | 67 |
| September | 25 | 1461 | 58 | 86 |
| October | 27 | 1609 | 60 | 86 |
| November | 25 | 1589 | 64 | 94 |
| December | 20 | 1475 | 74 | 114 |
| Totals | 244 | 12,198 | 50 | 114 |

Results of Treatment at Clinic.

| | No. of Cases. | | | Cured. | Im- proved. | Ceased Attend- ing. | In- complete. |
|-----------------------|---------------|--------|--------|--------|----------------|---------------------------|------------------|
| | Boys. | Girls. | Total. | | | | |
| <i>Eye Diseases—</i> | | | | | | | |
| Conjunctivitis ... | 56 | 34 | 90 | 75 | 4 | 4 | 7 |
| Blepharitis ... | 28 | 18 | 46 | 24 | 5 | 3 | 14 |
| Phlyctenules ... | 10 | 13 | 23 | 19 | 2 | 1 | 1 |
| Corneal Ulcers ... | 2 | 5 | 7 | 5 | 1 | 1 | .. |
| Keratitis ... | 5 | 4 | 9 | 2 | 2 | 2 | 3 |
| Hordeolum ... | 4 | 1 | 5 | 4 | ... | ... | 1 |
| Other Diseases ... | 3 | 1 | 4 | 3 | 1 | ... | ... |
| <i>Ear Diseases—</i> | | | | | | | |
| Otorrhœa ... | 50 | 23 | 73 | 35 | 5 | 2 | 31 |
| Wax in Ears ... | 12 | 11 | 23 | 20 | ... | ... | 3 |
| Other Diseases ... | 1 | 2 | 3 | 1 | 1 | ... | 1 |
| <i>Skin Diseases—</i> | | | | | | | |
| Impetigo of Head ... | 25 | 15 | 40 | 37 | ... | 1 | 2 |
| Impetigo of Body ... | 74 | 57 | 131 | 113 | 3 | 1 | 14 |
| Ringworm { Head ... | 26 | 7 | 33 | 19 | 3 | ... | 11 |
| { Body ... | 23 | 9 | 32 | 28 | ... | 2 | 2 |
| Eczema ... | 30 | 11 | 41 | 30 | 3 | 1 | 7 |
| Septic Sores ... | 25 | 17 | 42 | 39 | ... | 1 | 2 |
| Minor Injuries ... | 9 | 3 | 12 | 11 | ... | ... | 1 |
| Miscellaneous ... | 18 | 28 | 46 | 17 | 20 | 2 | 7 |
| | 401 | 259 | 660 | 482 | 50 | 21 | 107 |

DENTAL CLINIC.

SCHOOLS VISITED.

New Cases.

Ashley Street
 Botcherby
 Bishop Goodwin
 Brook Street
 Caldewgate
 Christ Church
 Lowther Street
 Newtown
 Norman Street
 Robert Ferguson
 Stanwix
 St. Bede's
 St. Cuthbert's
 St. Stephen's
 Upperby

Re-examinations.

1907-08-09-10-11 groups.

Botcherby
 Bishop Goodwin
 Upperby
 Denton Holme
 Christ Church Girls'
 Stanwix Girls'
 Robert Ferguson Senior

With regard to the school dental work for 1919, in his report to me, Mr. Taylor makes the following observations:—

“In previous reports I have more or less confined my remarks to re-examinations, but on this occasion I am of opinion that both tables should be commented upon. With regard to children included in Table A the impression I gathered during my inspections was that a fairly satisfactory attempt had been made to keep the teeth clean; a comparison of the figures with those of 1918 shows this point quite well. 78.2 per cent. of the permanent teeth were sound as compared with 70.4 in 1918, although a similar septic condition of the mouths is evidenced by the percentage of unsavable temporary teeth, viz., 22.4 as compared with 22.3 in 1918. It will be observed that during 1919 there was a larger percentage of children in whom no treatment appeared to be necessary.

“ With regard to the condition of the teeth of children who were re-examined during 1919, and especially the teeth of those who had received treatment at the Dental Clinic, I was pleased to note, in the majority of cases, the general cleanly appearance of the teeth, and that an attempt had been made to preserve any work done for them. In many instances of children previously seen with badly decayed teeth and septic mouths, the teeth were found to require either no treatment or, if any, of a much simpler nature. Taking the re-examinations as a whole I found in the majority of the children that the masticating apparatus was efficient.

“ I believe I mentioned last year that the percentage of sound permanent teeth should now show some improvement; this condition, I am happy to say, is taking place and is shown by the slight increase over the figures for 1918.

“ With regard to the table giving the summary of dental treatment on page 49 I would like to direct attention to the large proportion of permanent teeth extracted. This was necessary both in cases where treatment in the earlier year had been refused, and also on account of the bad septic condition of the mouths of neglected cases sent up as specials. In these instances conservative work was hopeless and extraction remained the only remedy. These causes are to be regretted, and show that many permanent teeth are ruthlessly sacrificed which might have been preserved and made useful for years. In conclusion one notices, however, that much useful work was done, and that the year 1919 compares very favourably with any previous year.”

Table showing number of Children examined at Routine Inspection, with administrative details

| A. | Boys. | | Girls. | | Total. | |
|---------------------------|-------|------|--------|------|--------|------|
| | | | | | | |
| No. examined ... | 457 | ... | 403 | ... | 860 | ... |
| No treatment required ... | 165 | 36.1 | 130 | 32.3 | 295 | 34.3 |
| Refused treatment ... | 164 | 35.9 | 142 | 35.2 | 306 | 35.6 |
| Accepted treatment ... | 128 | 28.0 | 131 | 32.5 | 259 | 30.1 |

Summary of the condition of teeth of children enumerated in Table A.

| | | Boys. | | Girls. | | Total. | |
|--------------------|--------------------|-------|------|--------|------|--------|------|
| | | | | | | | |
| Temporary Teeth | Total examined ... | 7937 | ... | 6684 | ... | 14621 | ... |
| | Sound .. | 3594 | 45.3 | 2983 | 44.6 | 6577 | 45.0 |
| | Savable ... | 2549 | 32.1 | 2221 | 33.2 | 4770 | 32.6 |
| | Unsavable ... | 1794 | 22.6 | 1480 | 22.2 | 3274 | 22.4 |
| Permanent Teeth | Total examined ... | 2043 | ... | 2097 | ... | 4140 | ... |
| | Sound ... | 1606 | 78.6 | 1634 | 77.9 | 3240 | 78.2 |
| | Savable ... | 427 | 20.9 | 456 | 21.7 | 883 | 21.4 |
| | Unsavable ... | 10 | 0.5 | 7 | 0.4 | 17 | 0.4 |

Table showing number of children re-examined at Routine Inspection, with administrative details.

| B. | Boys. | | Girls. | | Total. | |
|---------------------------|-------|------|--------|------|--------|------|
| | | | | | | |
| No. examined ... | 338 | ... | 404 | ... | 742 | ... |
| No treatment required ... | 83 | 24.5 | 102 | 25.2 | 185 | 24.9 |
| Refused treatment ... | 145 | 42.9 | 164 | 40.6 | 309 | 41.7 |
| Accepted treatment ... | 110 | 32.6 | 138 | 34.2 | 248 | 33.4 |

Summary of the condition of teeth of children enumerated in Table B.

| | | Boys. | | Girls. | | Total. | |
|------------------|--------------------|-------|------|--------|------|--------|------|
| Temporary Teeth. | Total Examined ... | 2393 | .. | 2317 | ... | 4710 | ... |
| | Sound ... | 930 | 38.8 | 774 | 33.4 | 1704 | 36.2 |
| | Savable ... | 822 | 34.3 | 736 | 31.7 | 1558 | 33.0 |
| | Unsavable... | 641 | 26.9 | 807 | 34.9 | 1448 | 30.8 |
| Permanent Teeth. | Total Examined ... | 4681 | ... | 6472 | ... | 11153 | ... |
| | Sound ... | 3912 | 83.6 | 5662 | 87.5 | 9574 | 85.9 |
| | Savable ... | 604 | 12.9 | 601 | 9.3 | 1205 | 10.8 |
| | Unsavable ... | 165 | 3.5 | 209 | 3.2 | 374 | 3.3 |

Summary of treatment of Dental Defects of Routine, Re-examination and Special Cases.

| | Boys. | | Girls. | | Total. | | |
|----------------------------|---------|---------|---------|---------|---------|---------|-----------|
| | Routine | Special | Routine | Special | Routine | Special | All cases |
| No. received treatment ... | 238 | 48 | 269 | 40 | 507 | 88 | 595 |
| Temporary teeth extracted | 881 | 134 | 918 | 134 | 1799 | 268 | 2067 |
| Permanent teeth extracted | 43 | 34 | 98 | 51 | 141 | 85 | 226 |
| Local Anæsthetics .. | 20 | 8 | 30 | 2 | 50 | 10 | 60 |
| General Anæsthetics .. | 146 | 25 | 163 | 30 | 309 | 55 | 364 |
| Fillings ... | 425 | 14 | 444 | 11 | 869 | 25 | 894 |

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