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City of



Carlisle.

EDUCATION COMMITTEE.

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# ANNUAL REPORT

UPON THE

Work of Medical Inspection for the Year 1921

BY

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MEDICAL OFFICER OF HEALTH,  
CHIEF TUBERCULOSIS OFFICER,  
and SCHOOL MEDICAL OFFICER.

## STATISTICAL SUMMARY.

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No. of "Routine" cases examined	-	-	2749
No. of "Special" cases examined	-	-	831
No. of "Old" cases re-examined-	-	-	1051
Total No. of Children examined	-	-	4631
No. of "Children" found to require treatment	-		1578
No. of Parents interviewed at Medical Inspection, Routine and Special	-	-	1764
No. of Visits to Schools by the School Medical Officers-	-	-	151
No. of Visits to Schools by Nurses	-	-	538
No. of Visits to Homes by Nurses	-	-	2621
No. of Defects referred for treatment	-	-	4708
No. of Defects treated	-	-	3359
No. of Teachers examined at the request of the Education Committee	-	-	35
No. of cases treated at the Clinic-	-	-	1412
No. of attendances at Clinic for treatment	-		25887
No. of Children examined by School Dentist	-		2246
No. of Children treated by School Dentist	-		711
No. of Children excluded for Verminous Con- ditions	-	-	500

TO THE CHAIRMAN AND MEMBERS OF THE  
EDUCATION COMMITTEE.

LADIES AND GENTLEMEN,

I have the honour to present the fourteenth annual report of the work done in connection with the School Medical Service during the year 1921.

During the year, after the departure of Dr. Spence to take up his appointment as Medical Officer of Health for the Borough of Eccles, a re-arrangement of the duties of the School Medical Service was necessary, the duties previously carried out by Dr. Spence being apportioned between Dr. Semple, who also became Tuberculosis Officer, Dr. Bourne, the Assistant Medical Officer for Maternity and Child welfare, and myself. The co-ordination between the School Medical Service and the services for Tuberculosis and Maternity and Child Welfare thus became, if possible, more complete.

I am, Ladies and Gentlemen,

Your obedient Servant,

J. BEARD,

*School Medical Officer.*

SCHOOL HYGIENE.

In addition to painting, decorating, and minor repairs, the following alterations were carried out during the year :—

*Botcherby School*—A large portion of the playground has been asphalted.

*Creighton School*—A new wood-working shed has been constructed.

*Stanwix School*—A large portion of the playground has been asphalted.

MEDICAL INSPECTION.

The general arrangement and methods adopted for medical inspection have been several times previously described. It is, I think, unnecessary to do this again here. The school accommodation in 1921 was 10,992,

the average number of scholars on the rolls being 8680.82, and the average attendance 7585.25. The total number of children medically inspected was 4631, of which number 2749 were children belonging to the three age groups subject to inspection in accordance with the requirements of the Board of Education (Routine). Eight hundred and thirty-one were children examined as Specials, and 1051 were children examined in previous years and now re-examined; these figures are more fully set forth in Table I. post. A child examined as a "Routine" case may be also a "Special" or a "Re-examination," but as such a child is not recorded in more than one category, it is assigned to the specified age group to which it belongs. The following table shows that 1419 parents, or nearly 52 per cent. of the total number of Routine examinations, were present at the Routine Medical Inspection; this is an increase of 7 per cent. on the figure for last year, and this increased interest appears to be due partly to the appreciation by parents of the value of the School Medical Inspection and Clinic and partly to the teachers' influence. The increase is most marked in the case of parents present at the inspection of infants, viz., 643, or 71 per cent. of the children inspected.

The possibility of consulting the School Medical Officer regarding the work suitable to be undertaken on leaving school does not appear yet to have forcibly appealed to parents, as only 313, or a little over 35 per cent., were present at the examination of "Leavers." At the examination of "Intermediates," 463 parents, about 48 per cent., were present.

In some parts of the town parents appear to find it easier to get away from their homes than in others; a factor also influencing the attendance of parents is the day of the week on which the inspection is held, the coincidence of medical inspection with washing-day generally resulting in a poor attendance of parents. In addition to those attending at routine inspections, 345 parents, or 41 per cent., were present at special examinations.

In all 1764 parents were interviewed, or 38 per cent. of all the children inspected.

School.	Entrants.		Intermediates.		Leavers.	
	No. examined	No. of parents present	No. examined	No. of parents present	No. examined	No. of parents present
Ashley Street	84	60	121	63	85	22
Bishop Goodwin	82	73	89	64	78	35
Botcherby	8	...	14	2	14	3
Brook Street	110	89	125	70	84	34
Caldewgate	102	77	81	29	77	28
Christ Church	64	31	33	12	25	11
Creighton	...	...	...	...	63	27
Denton Holme	...	...	125	78	...	...
Fawcett	...	...	23	8	22	1
Lowther Street	70	45	54	20	34	9
Margaret Sewell	...	...	...	...	82	50
Newtown	40	30	3	...	6	...
Norman Street	68	49	11	5	...	...
Robert Ferguson	113	94	...	...	88	36
St. Bede's	28	19	42	11	45	12
St. Cuthbert's	40	16	26	15	29	7
St. John's	...	...	78	28	59	16
St. Patrick's	...	...	28	18	21	7
St. Stephen's	46	24	39	13	17	3
Stanwix	45	31	51	26	36	12
Upperby	9	5	16	1	16	...
Totals ...	909	643	959	463	881	313

### FINDINGS OF MEDICAL INSPECTION.

From the summary given in Table VI. it will be seen that 887 children, or 32 per cent., of the routine groups were referred for treatment, while 1136 children, or approximately 41 per cent., of the same age groups were noted for further observation on account of less serious defects; 27 per cent. of the children were therefore in a perfectly satisfactory condition. Of the 887 children referred for treatment, 854 were suffering from more than one defect.

The above figures do not relate to observations on uncleanness, minor dental defects, and defective clothing

and footgear. The figures show a slight increase in the number, and also in the percentage of children referred for treatment, compared with the previous year.

A close analysis of the table shows the defect percentage to be approximately as follows:—Dental disease, 31 per cent.; affections of the nose and throat, 25 per cent.; defective vision, 18 per cent.; external eye disease, 3 per cent.; defective hearing, 2 per cent.; ear disease, 7 per cent.; malnutrition, 9 per cent.; anæmia, 6 per cent.; skin disease, 4 per cent.; non-tubercular lung diseases, 5 per cent.; tuberculosis (definite and suspected), 4 per cent.; deformities, 2 per cent.; heart disease, 3 per cent.

Of the 831 children inspected as "Special" cases, 691, or 83 per cent., were found to require treatment, 13 per cent. were referred for observation, and 5 per cent. required no treatment. The 691 cases requiring treatment were approximately as follows:—Skin diseases, 54 per cent.; external eye disease, 16 per cent.; defective vision, 3 per cent.; ear disease and defective hearing, 7 per cent.; nose and throat defects, 6 per cent.; lung disease, 7 per cent.; tuberculosis (definite or suspected), 4 per cent.; heart trouble, 4 per cent. External eye disease and non-tubercular lung conditions show a slight increase, but the general result of inspection shows an improvement on the figures for the previous year.

The number of children, at both routine and special inspections, requiring treatment was 1578, the number referred for observation being 1234, and the number considered to be in satisfactory health was 768; the corresponding figures for the year 1920 being 1660, 1237, and 894 respectively.

### UNCLEANLINESS.

With regard to the question of cleanliness observed at the routine inspections, there was a very slight improvement upon the conditions found during 1920. In the "Leaver" group 11·4 per cent. were found with nits in the head, which cannot be regarded as satisfactory,

while 1·6 per cent. and 0·2 per cent. had vermin on the head and body respectively. The figures for the two latter conditions are the same as in 1920, showing, I think, that some of the elder children fail to take sufficient pride in their own cleanliness. The percentages in respect of verminous conditions in both head and body show a slight improvement in both "Entrant" and "Intermediate" groups; the cleanliness of the heads in the "Entrant" group shows almost a 50 per cent. improvement at the routine inspections. In respect of this examination the parents of course know the child is going to be inspected, having had an invitation to be present.

At the surprise visits the conditions amongst girls showed little improvement generally during the year.

With regard to boys, there was an improvement in respect of vermin, but the number of senior boys with nits showed a considerable increase on the figure for 1920.

The total number of children excluded during the year on account of infestation with vermin was 500, a much lower figure than during the previous year. The practice which was instituted during the past year of excluding such children for a slightly longer period and not re-admitting to school until seen at the Clinic, and certified as fit, has, I think, done much towards the reduction in the total number of children excluded, and especially amongst the small group of children who, when examined, are practically always found with vermin on the head. Proceedings were taken under the School Attendance Bye-laws in 17 cases, in each of which the parents were fined. In addition warning letters were sent by the Clerk to the Education Authority in respect of verminous children in a number of cases.

The school nurses paid 538 visits to schools altogether, 307 being surprise visits, during which, in addition to examining for verminous conditions, they found and referred to the School Medical Officer the conditions set forth in the following table:—

Table summarising the various other conditions found and reported by the nurses during the inspection of the children at surprise visits:—

	Boys.	Girls.	Total.
Dirty Scalp, Body, and Clothing .. ..	268	139	407
Impetigo of Face and Body .. ..	54	20	74
Impetigo of Scalp .. ..	24	30	54
Ringworm .. ..	3	6	9
Blepharitis and other external Eye Diseases	58	47	105
Otorrhœa .. ..	15	8	23
Scabies .. ..	26	10	36
Eczema .. ..	24	9	33
Seborrhœa .. ..	10	7	17
Wax in Ear .. ..	8	—	8

### Summary of Result of Surprise Visits, 1918—1921.

Department.	Percentage of Children with Nits on Hair.				Percentage of Children with Vermin on Head.				Percentage of Children with Vermin on Body.			
	1918	1919	1920	1921	1918	1919	1920	1921	1918	1919	1920	1921
Boys—												
Infants ...	1·6	2·8	7·1	6·3	2·0	1·9	2·6	1·5	0·8	0·4	...	0·2
Seniors ...	0·9	2·0	4·3	5·9	1·5	1·8	1·8	1·0	0·6	0·2	0·5	0·3
Girls—												
Infants ...	15·5	26·5	32·8	29·0	5·8	7·5	7·2	3·0	0·3	...	...	0·2
Seniors ...	19·7	27·1	36·1	35·6	7·8	7·8	6·0	3·5	0·6	0·1	0·2	0·2
	9·6	14·4	20·1	19·7	4·4	4·7	4·2	2·2	0·6	0·1	0·2	0·2

**Table showing the number of children excluded by the Medical Officer at School and Clinic for conditions other than those associated with vermin :—**

Scabies	...	...	...	...	...	122
Ringworm	...	...	...	...	...	72
Impetigo	...	...	...	...	...	43
Other Skin Diseases	...	...	...	...	...	18
External Eye Diseases	...	...	...	...	...	33
Pulmonary Tuberculosis	...	...	...	...	...	60
Other Forms of Tuberculosis	...	...	...	...	...	and suspected
Pulmonary Tuberculosis	...	...	...	...	...	47
Other Respiratory Diseases	...	...	...	...	...	29
Heart and Circulation	...	...	...	...	...	26
Infectious Diseases	...	...	...	...	...	20
Miscellaneous	...	...	...	...	...	71
						<hr/> 541 <hr/>

The above figures show that 541 children were excluded during the year, a slight decrease on the previous year's figure of 583. As regards school time lost, scabies and ringworm were chiefly responsible for long absences. The number of school days lost, however, by children suffering from Scabies, was 2360 in 1921, as compared with 3306 in 1920. Seventy-two children suffering from ringworm were excluded, the loss of school time being 3384 days, as compared with 5856 in 1920. Taking the two diseases together, it is found that 17753 school days were lost during 1919, whilst in 1921 the loss was only 5744 days, or equivalent to an additional daily attendance of 55 children.

### TUBERCULOSIS.

The arrangements in respect of the special medical inspection and treatment of children suffering, or suspected to be suffering, from Tuberculosis were similar to those during the previous year. A special clinic has been held on Wednesday afternoons at the Tuberculosis Dispensary for the observation of notified cases of Tuberculosis among school children and also of contacts and suspects. In addition a special clinic has been held each alternate Tuesday morning for treatment by means

of Tuberculin (B.E.). Forty-five children received treatment by this method, and a total of 538 injections were given.

One hundred and thirty-seven school children attended the Tuberculosis Dispensary during the year, 44 being new cases and 93 old cases. The total number of attendances made was 743.

Five children were receiving treatment in Blencathra Sanatorium on 1st January, 9 were admitted during the year and 8 discharged, leaving 6 undergoing treatment at the end of the year. The condition of the 8 children on discharge was as follows:— Much improved, 7; unchanged, 1. The total number of days spent in the Sanatorium by these patients was 1030, the average duration of residence for each child being 129 days.

During the past year 42 children of school age were notified as suffering from tuberculosis, 32 by the Assistant School Medical Officers, and 10 by medical practitioners.

Localisation.				Males.	Females.	Total.
Lungs	...	...	...	11	13	24
Glands	...	...	...	7	3	10
Abdomen	...	...	...	2	...	2
Bones and Joints	...	...	...	...	2	2
Lupus	...	...	...	1	...	1
Meninges	...	...	...	2	...	2
Peritoneum	...	...	...	...	1	1
Totals	...	...	...	23	19	42

### Notifications of Tuberculosis 1921.

Ages	Notifications on Form B.			Notifications on Form A.				Total Notifications.
	5-10	10-15	Total on Form B.	0-5	5-10	10-15	Total on Form A.	
Pulmonary—								
Males ...	8	3	11	2	...	...	2	13
Females ...	5	5	10	1	1	2	4	14
Non-pulmonary—								
Males ...	5	2	7	4	2	3	9	16
Females ...	1	3	4	2	1	1	4	8
Totals	19	13	32	9	4	6	19	51

### INFECTIOUS DISEASES.

The number of exclusions on account of notifiable infectious disease was higher than during 1920. Fifty-nine children were excluded on account of scarlet fever, and 31 on account of diphtheria. One death occurred in a school child from scarlet fever and 3 from diphtheria.

The intimations from teachers and others regarding cases of chickenpox, whooping cough, and mumps were in each case less than those of last year, being 106, 188, and 154 respectively, as compared with 276, 200, and 273 respectively for 1920. Only 9 cases of measles were notified to me from the same sources.

No school was closed during the year on account of infectious disease.

### FOLLOWING UP.

The following up in the homes of children with defects needing treatment was performed by the nurses in the manner described in previous reports in accordance with the requirements of the Board of Education, and

2621 visits to homes of scholars were made for this purpose.

## MEDICAL TREATMENT.

### MINOR AILMENTS.

The attendances at the School Clinic for the treatment of minor ailments have again increased, the number of children treated being 1141. The total number of attendances was 25887, with an average daily attendance of 97, and a maximum attendance of 190 during one morning, and both the accommodation of the Clinic and the services of the school nurses are now severely taxed.

The tables on pages 33, 42 and 44 indicate the nature of the conditions treated and the results obtained.

With regard to Ringworm, practically all the cases were treated at the Clinic, either by means of X-ray or local treatment followed by epilation. By thus concentrating the treatment much loss of school attendance is prevented and the cases cured more speedily. Forty-two children, viz., 20 boys and 22 girls, were treated by means of X-rays, and the total number of attendances made for this purpose was 45. The number of separate exposures made was 75. In 38 instances a cure was effected, and in the remaining 4 instances the treatment was not completed by the end of the year. Re-exposure was necessary in 5 cases, but satisfactory results were obtained in all others after a single exposure. The after treatment, as necessary, was carried out at the minor ailment clinic, and the results were satisfactory in every instance. Since the installation of the X-ray apparatus, 111 cases of ringworm of the head have been treated, with, so far, entire absence of ill-effect; by the results shown many parents now request that this form of treatment may be given.

### TONSILS AND ADENOIDS.

Children who require operative treatment for tonsils and adenoids have so far been dealt with either by their own doctors or at the Cumberland Infirmary. During the past year 75 children are reported to have been

operated upon for these conditions. There is no doubt that a great deal can be done in many cases of adenoids and tonsils, apart from operative treatment, to give relief to symptoms, and for this object local treatment was carried out at the School Clinic in 354 instances, which was more than three times the number in which similar treatment was accepted during 1920, and fifteen times as many as consented to such treatment in 1919.

### VISION.

The arrangements for the further examination of ophthalmic cases were carried out in the same manner as during 1920, viz., by the Assistant School Medical Officer. Forty-two clinics were held, and a further examination of the eyes of 231 children took place, viz., 108 boys and 123 girls. The following conditions were discovered:—

	Boys.	Girls.	Total.
Hypermetropia (Long Sight) ...	19	17	36
Hypermetropic Astigmatism ...	35	39	74
Compound Hypermetropic Astigmatism ...	22	25	47
Myopia (Short Sight) ...	10	10	20
Myopic Astigmatism ...	7	11	18
Compound Myopic Astigmatism ...	2	1	3
Mixed Astigmatism ...	3	8	11
No Refractive Error ...	10	12	22
Totals ...	108	123	231
Squint was present in 28 cases ...	15	13	28

Spectacles were prescribed in 178 cases, and in 10 instances the parent was unable to provide spectacles and these were provided free by the Education Committee.

### DENTAL INSPECTION AND TREATMENT.

In respect of the school dentistry, Mr. Taylor states that the re-examinations during the year have revealed the value of the work done in past years. Inter alia he finds that in the majority of cases cleanliness has taken the place of sepsis, and by this he means that on his re-

inspections during the year he has found a good deal fewer dirty and neglected mouths, an improvement which he commented upon in respect of the work of 1920, but which was more apparent during the past year, and is of opinion that this is the greatest asset School Dentistry has provided for the children. He points out, however, how very regrettable it is that such a high percentage of parents refuse dental treatment, but in his brief remarks cannot go into the various reasons advanced for this refusal. He desires to refer to the very erroneous and dangerous idea amongst parents that when dental defects have once received attention no further treatment is or should be necessary.

With regard to the number of permanent teeth extracted, Mr. Taylor regards the attitude of parents again as very regrettable. He reiterates that the refusal by parents of treatment and their attitude of opposition to conservative dentistry results in so many instances in treatment only being sought when toothache and other unpleasant complications of decay render it impossible to preserve the greater number of such teeth.

The percentage of sound permanent teeth of those inspected is, however, shown to have risen from 86.4 in 1920 to 88.1 during the past year. This improvement, in conjunction with the increasing cleanliness of the mouths examined and the durability of the conservative work previously carried out, shows satisfactory progress.

Attention is drawn to the Routine Inspections—Table A., the interesting contents of which show that the percentage of unsavable temporary teeth has fallen from 32 in 1920 to 16.6 during the year under review and that the percentage of unsavable permanent teeth has fallen from 83.3 in 1920 to 71. These facts assist in demonstrating the benefit of the propaganda and practice employed, and a retrospective view of the condition of the average of the mouths five years ago compared with those seen to-day makes one feel more optimistic and leaves behind a strong impression that the Dental Clinic was not established in vain.

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

A.		Boys.		Girls.		Total.	
No. examined	...	427	...	370	...	797	..
No treatment required	...	218	51.1	177	47.8	395	49.6
Refused treatment	...	82	19.2	96	26.0	178	22.3
Accepted treatment	...	127	29.7	97	26.2	224	28.1

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

		Boys.		Girls.		Total.	
Temporary Teeth	Total examined	6553	...	6224	...	12777	...
	Sound	3497	53.4	3117	50.1	6614	51.8
	Savable	1972	30.1	2063	33.1	4035	31.6
	Unsavable	1084	16.5	1044	16.8	2128	16.6
Permanent Teeth	Total examined	1435	...	1879	...	3314	...
	Sound	1213	84.5	1547	82.3	2760	83.3
	Savable	216	15.1	306	16.3	522	15.8
	Unsavable	6	0.4	26	1.4	32	0.9

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

B.		Boys.		Girls.		Total.	
No. examined	...	605	...	739	...	1344	...
No treatment required	...	145	24.0	175	23.7	320	23.8
Refused treatment	...	327	54.0	315	42.6	642	47.8
Accepted treatment	..	133	22.0	249	33.7	382	28.4

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

		Boys.		Girls.		Total.	
Temporary Teeth	Total examined	3613	...	3810	...	7423	...
	Sound ...	1256	34·8	1332	34·9	2588	34·9
	Savable ...	1102	30·5	1060	27·9	2162	29·1
	Unsavable ...	1255	34·7	1418	37·2	2673	36·0
Permanent Teeth	Total examined	9646	...	12873	...	22519	...
	Sound ...	8480	87·9	11367	88·3	19847	88·1
	Savable ..	900	9·3	1112	8·6	2012	9·0
	Unsavable ..	266	2·8	394	3·1	660	2·9

**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 ...	260	64	346	41	606	105	711
Temporary teeth extracted	888	198	936	117	1824	315	2139
Permanent teeth extracted	65	41	168	41	233	82	315
Local Anaesthetics ...	60	25	79	8	139	33	172
General Anaesthetics ...	124	33	140	22	264	55	319
Fillings ...	358	35	591	21	949	56	1005

**CRIPPLING DEFECTS AND ORTHOPÆDICS.**

Apart from the attention which can be given by the teachers during physical instruction to children suffering from curvature, flat feet, etc., there is no definite scheme for physical education of children found defective. Sixty children altogether were found with slight defects of such a nature, but the majority required little treatment beyond the ordinary physical exercises.

### PROVISION OF MEALS.

No arrangement has been made under the Provision of Meals Acts, 1906-1914.

### SCHOOL BATHS.

All senior scholars attend the Corporation Baths and are instructed in swimming, each school having its special hour.

### OPEN-AIR EDUCATION.

#### NEWTOWN DELICATE CLASS.

This class was continued throughout the past year, and conducted on the same lines as set out in previous reports.

Nineteen children continued in attendance from the previous year, and 26 were admitted, making a total of 45 children in attendance during the year; the average number on the register was 27. Twenty were discharged, leaving 25 on the register at the end of the year. With regard to the 20 children who were discharged, 7 were greatly improved, 5 improved, 6 slightly improved, and 2 unchanged. The following are the reasons for discharge:—3 attained leaving age, 2 left the City, 2 were sent to the sanatorium, 4 were removed for irregular attendance, and 9 returned to the ordinary schools.

The class was visited by the Assistant Medical Officer once a week, and the children examined in rotation, so that each child was medically examined at least once a month, and those progressing less satisfactorily at more frequent intervals.

In addition to the meals provided, Cod Liver Oil and Malt Extract or Parrish's Chemical Food was given to each child twice daily, whilst the cleansing and care of teeth was insisted upon. The majority of the children attending this class also attended at the Tuberculosis Special Clinic, and were given injections of Tuberculin B.E., a considerable improvement in their condition being noted as a result of these injections.

The total number of weeks in school for all children under review was 1726, the average length of attendance per child being 38·3 weeks, while the maximum period of attendance was 86 weeks.

The total gain in weight since admission by the children reviewed was 343 lbs., equivalent to an average gain of 7·6 lbs. per child, or ·2 lb. per week of average attendance. The average length of attendance of the children discharged was 42·5 weeks, and the average gain per child and per week was almost identical with the above.

The arrangements as to the selection of children, their conveyance to and from the class, the time table for school work, the meals provided, and the fees charged were similar to those set out in the report for 1920. A little more fruit was added to the diet, and fish was occasionally substituted for meat.

The following statement shows the amounts expended on the various items connected with the Delicate Class and the amount contributed by the parents. In connection with the latter it was considered desirable in certain instances to remit or reduce the charges, on account of the poor financial circumstances of the parents. One child was excused payment for 14 weeks, one for 11 weeks, one for 7 weeks, and two for 3 weeks. One child paid a reduced charge of 2/- for 15 weeks, and one paid 1/9 for 43 weeks. In all other cases the full charge of 2/6 per week per child was paid to Miss Hindson, the Head Teacher, who is responsible for the ordering of the food and the payment of the accounts.

EXPENDITURE.				INCOME.			
	£	s.	d.		£	s.	d.
Milk .. ..	29	19	9	Parents' Contributions	114	15	0
Bread, Fruit, and Vegetables .. ..	16	16	7				
Groceries .. ..	41	18	5				
Meat .. ..	22	19	1				
	<hr/>						
Cost of Food .. ..	111	13	10				
Balance carried down ..	3	1	2				
	<hr/>						
	£114	15	0			114	15 0
	<hr/>						
Caretaker (Cooking) ..	26	0	0	Balance brought down..	3	1	2
Gas .. ..	18	14	0	Amount received from			
Drugs, Malt, Oil, etc. ..	29	1	11	Elementary Educa-			
Tram Fares .. ..	32	0	0	tion Rate .. ..	102	14	9
	<hr/>						
	£105	15	11			£105	15 11
	<hr/>						

The school was open on 207 days during the year, and the average attendance was 24, equivalent to a total of 4968 child days. The average total cost per child per day was 10·5 pence, and the parents' contribution was equal to 5·5 pence per child per day. The average cost per child per day for the various items was as follows:—Food, 5·4 pence; Cooking, etc., 2·2 pence; Drugs, 1·4 pence; Tram Fares, 1·5 pence.

The usual summer excursion to Silloth was very much enjoyed by the children, and I have again to express my appreciation of the enthusiasm and keenness of Miss Hindson and Miss Macdonald in the work, which helps very much towards its success.

### CO-OPERATION OF PARENTS.

Parents receive due notice of and an invitation to be present at the routine inspections of the children, and a large number of parents take advantage of these invitations to be present, especially in the case of the Entrant group. It is apparent that the appreciation of parents is increasing, and the attendances at the School Clinic show the appreciation of the parents towards the treatment provided there. It is to be regretted, however, that so little attention is given to the notices pointing out the necessity for treatment of defects for which the Clinic does not provide. I fear also that many parents fail to appreciate the value of the advice and treatment given at the special Ophthalmic Clinic by the Assistant Medical Officer in not insisting upon their children making full use and benefit of their spectacles after obtaining them.

### CO-OPERATION OF TEACHERS.

#### MEDICAL INSPECTION.

Certain items in the medical inspection card, viz., the name, age, address, standard, regularity of attendance, and mental condition of the child, are filled in by the teachers, who also send out the invitations for parents to be present, arrange a convenient place for the inspection, and present the children in a regular and constant stream. The teachers also enter in the Medical Register the name and age of each child admitted to school, in

order to facilitate the sorting out of the age groups specified in the code for examination and to insure that no child escapes the routine medical inspection. If possible, the Head Teacher is present at the examination to confer with the Medical Officer if necessary.

#### FOLLOWING UP.

Teachers often perform valuable work in impressing on parents the necessity for carrying out the recommendations of the Medical Officers, details of which are supplied to them after the medical inspection, but I hope this interest may be extended, and that the time is not far distant when the enthusiasm of teachers towards medical matters may be second to none.

#### MEDICAL TREATMENT.

Teachers arrange for the departure of children from school to the Clinic, and enter on a card provided the time of leaving. On the child returning to school the nurse enters on the same card the time of its leaving the Clinic, and thus as little school time as possible is lost. Teachers also pick out children whom they suspect of defects and refer them to the School Clinic for special medical examination and treatment.

#### CO-OPERATION OF SCHOOL ATTENDANCE OFFICERS.

The School Attendance Officers give help in discovering and referring to the School Clinic such children as are absent from school on account of illness yet are not receiving medical attention, and I appreciate their efforts in persuading parents to carry out the treatment recommended.

#### CO-OPERATION OF VOLUNTARY BODIES.

I desire to acknowledge the help given by the Carlisle Council of Social Service, through the Secretary, Miss Henderson. By this means 54 delicate children, viz., 37 girls and 17 boys, were sent to the Silloth Convalescent Institution, of whom the majority stayed for one month and the remainder for six or eight weeks.

The special arrangements existing between the Council of Social Service and the Silloth Institution allow of a larger number of children being sent away for a change than was possible when the Council of Social Service Cottage Home was in existence, but as to the comparative merits of the two places it is perhaps too early to say. The one advantage of the Waverton Home was that the children appeared to have a good deal more individual attention.

Three children too young for the Institution were sent into the country for several weeks, and benefitted considerably.

Outfits were supplied by the Council of Social Service to three children, two of whom were going to the Sanatorium, and clogs, boots, spectacles, and clothing of various kinds provided for a number.

Five children were sent away to a Home, two of the children being orphans, one motherless, and two from a bad home.

One boy suffering from a tubercular hip has been sent to the Heswall Country Hospital for special treatment.

I have also to acknowledge the valuable help given by the local officer of the NATIONAL SOCIETY FOR THE PREVENTION OF CRUELTY TO CHILDREN. The following is a list of particulars of cases dealt with :—

Cases recorded on the books of the Society ...	...	7
Homes visited ...	...	7
Subsequent visits ...	...	56
Cases improved ...	...	7

#### BLIND, DEAF, DEFECTIVE, AND EPILEPTIC CHILDREN.

The arrangements with regard to the ascertainment and supervision of Blind, Deaf, Defective, and Epileptic Children have continued to be the same as outlined in

my report for the year 1920. No new cases were scheduled during the year, and there are at present 2 boys and 3 girls attending Certified Schools for the Blind, 4 boys and 3 girls attending Certified Schools for the Deaf and Dumb, and 1 boy attending a Certified School for Epileptics. 1 epileptic girl is not attending school, and is under the supervision of the Senior School Attendance Officer.

The Local Education Authority have no provision in the nature of a special school or class for Dull and Backward or Feeble-minded Children.

## SECONDARY SCHOOLS.

The Inspection of pupils at Secondary Schools was extended during 1921, as described fully in the report for 1920, so that the following groups are now inspected:—

- (1) Entrants.
- (2) Children who have attained the age of 9 years who have been inspected as entrants, are re-inspected.
- (3) Children attaining the age of 12 during the current year.
- (4) Children attaining the age of 15 during the current year.
- (5) Leavers.

Children found defective at a previous visit are also re-examined, and a brief review of children over 12 is henceforth to be held each year.

Particular care is taken not to disturb important lessons, and to this end the medical inspection has to be held on certain afternoons only, which necessitates visits during several successive weeks.

The total number inspected at the two Secondary Schools was 231, viz., 128 at the Girls' High School and 103 at the Grammar School, the findings of the inspection at the specified age groups being shown in the tables on pages 36 and 37.

Age	under 9	9	10 & 11	12	13	14	15	Over 15	Total
High School ...	27	10	23	22	22		8	16	128
Grammar School ...	6	4	9	13	27		21	23	103
Totals ...	33	14	32	35	49		29	39	231

At the Girls' High School 38 per cent. of the children examined were referred for dental treatment, 9 per cent. for medical advice upon defects of vision, and 12 per cent. for treatment for enlarged tonsils or adenoids. The attention of the instructress in physical training was directed to 5 girls who suffered from curvature of the spine and required special exercises. Altogether 69 children, or 54 per cent., were referred for treatment, 29, or 23 per cent., for further observation, and 30, or over 23 per cent. were satisfactory.

At the Grammar School the incidence of both dental disease and visual defects, 6 and 5 per cent. respectively, was less than that at the Girls' High School. In six instances a child required treatment for enlarged tonsils. Apart from these, few defects of a serious nature were observed. Six cases of heart trouble were noted for observation, and 1 case of heart trouble was referred for treatment. Altogether 14 children, or 14 per cent., were referred for treatment, 57, or 55 per cent., for further observation, and 32, or 31 per cent., were satisfactory.

### EMPLOYMENT OF CHILDREN AND YOUNG PERSONS.

Thirty-four children were referred to the Assistant School Medical Officer concerned in this work for certificates under Section IV. (B) (a) of the Education Act, 1918. Certificates were granted in the case of 30 children. In 1 instance a certificate was not granted on account of the child suffering from skin disease; 3 of the children referred did not attend for examination.

## DEATHS OCCURRING IN SCHOOL CHILDREN.

Ages (5 to 14) for the year ending 1921.

Diphtheria	...	...	...	3
Tuberculous Meningitis	...	...	...	3
Pulmonary Tuberculosis	...	...	...	3
Appendicitis	...	...	...	2
Mouth Disease	...	...	...	2
Pneumonia	...	...	...	1
Valvular Disease of Heart	...	...	...	1
Scarlet Fever	...	...	...	1
Diarrhœa	...	...	...	1
Tuberculous Hip Disease	...	...	...	1
Tuberculous Peritonitis	...	...	...	1
Peritonitis	...	...	...	1
Enteritis	...	...	...	1
Tumour of Brain	...	...	...	1
Skin Disease	...	...	...	1
Epilepsy	...	...	...	1
Rhinitis	...	...	...	1
Accidentally knocked down by motor	...	...	...	1

—  
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—

## EXAMINATION OF TEACHERS.

During the year 35 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	Defec- tive Teeth.	Defec- tive Vision	Defec- tive Teeth and En- larged Tonsils.
Assistant Masters	3	3	...	...	...
Assistant Mistresses	9	8	1	...	...
Science Mistress	1	1	...	...	...
Supplementary Teachers	3	2	1	...	...
Pupil Teachers	7	3	2	1	1
Bursars	5	3	2	...	...
Student Teachers	7	7	...	...	...
Totals	35	27	6	1	1

**Table showing Verminous Conditions of the Head and Body (including Clothing), found at "Routine" inspections, 1912—1921.**

**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.
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	...	...
1920	929	107	11.5	28	3.0	1	0.1
1921	909	69	7.6	7	0.8	1	0.1

**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	...	...
1919	898	152	16.9	41	4.6	1	0.1
1920	980	140	14.3	29	3.0	1	0.1
1921	959	112	11.7	26	2.7	...	...

**LEAVERS.**

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	830	62	7.0	14	1.6	3	0.3
1919	837	68	8.1	18	2.2	4	0.5
1920	850	102	12.0	14	1.6	2	0.2
1921	881	100	11.4	14	1.6	2	0.2

**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 ...	430	34	7.9	7	1.6	2	0.5
Bishop Goodwin ..	355	4	1.1	1	0.3	...	...
Botcherby ...	54	...	...	1	1.9	...	...
Brook Street ...	398	21	5.3	3	0.8	...	...
Caldewgate ...	350	24	6.9	4	1.1	2	0.6
Christ Church ...	100	6	6.0	...	...	...	...
Creighton ...	148	2	1.4	...	...	...	...
Denton Holme ...	146	10	6.8	1	0.7	...	...
Fawcett ...	75	4	5.3	3	4.0	...	...
Lowther Street ...	213	19	8.9	9	4.2	1	0.5
Newtown ...	68	2	2.9	...	...	...	...
Norman Street ...	117	8	6.8	...	...	...	...
Robert Ferguson ...	303	11	3.6	6	2.0	...	...
St. Bede's ...	158	15	9.5	2	1.3	3	1.9
St. Cuthbert's ...	57	7	12.3	...	...	1	1.8
St. John's ...	266	17	6.4	7	2.6	1	0.4
St. Patrick's ...	179	17	9.5	2	1.1	5	2.8
S. Stephen's ...	146	3	2.1	5	3.4	...	...
Stanwix ...	184	11	6.0	1	0.5	1	0.5
Upperby ...	68	2	2.9	...	...	...	...
<b>Totals ...</b>	<b>3815</b>	<b>217</b>	<b>5.7</b>	<b>52</b>	<b>1.4</b>	<b>16</b>	<b>0.4</b>
<b>Second Surprise Visit—</b>							
Ashley Street ...	427	27	6.3	5	1.2	...	...
Bishop Goodwin ...	367	15	4.1	3	0.8	...	...
Botcherby ...	53	2	3.8	...	...	...	...
Brook Street ...	409	16	3.9	6	1.5	...	...
Caldewgate ...	348	39	11.2	4	1.1	4	1.1
Christ Church ...	96	1	1.0	...	...	...	...
Creighton ...	205	2	1.0	...	...	...	...
Denton Holme ...	155	15	9.7	2	1.3	...	...
Fawcett ...	81	2	2.5	...	...	...	...
Lowther Street ...	226	17	7.5	1	0.4	1	0.4
Newtown ...	89	5	5.6	1	5.6	...	...
Norman Street ...	115	4	3.5	...	...	...	...
Robert Ferguson ...	320	23	7.2	4	1.3	...	...
St. Bede's ...	161	14	8.7	5	3.1	...	...
St. Cuthbert's ...	57	4	7.0	...	...	...	...
St. John's ...	275	18	6.5	2	0.7	...	...
St. Patrick's ...	179	18	10.1	2	1.1	...	...
St. Stephen's ...	138	20	14.5	3	2.2	...	...
Stanwix ...	208	11	5.3	1	0.5	...	...
Upperby ...	66	3	4.5	...	...	...	...
<b>Totals ...</b>	<b>3975</b>	<b>256</b>	<b>6.4</b>	<b>39</b>	<b>1.0</b>	<b>5</b>	<b>0.1</b>

**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 ...	400	147	36.8	16	4.0	...	...
Bishop Goodwin ...	368	97	26.4	11	3.0	...	...
Botcherby ...	53	22	41.5	4	7.5	...	...
Brook Street ...	463	108	23.3	12	2.6	...	...
Caldewgate ...	350	159	45.4	9	2.6	1	0.3
Christ Church ...	241	105	43.6	7	2.9	1	0.4
Denton Holme ...	158	72	45.6	3	1.9	...	...
Fawcett ...	57	29	50.9	4	7.0	...	...
Lowther Street ...	249	98	39.4	11	7.4	1	0.4
Margaret Sewell ...	192	34	17.7	...	...	...	...
Newtown ...	71	19	26.8	...	...	...	...
Norman Street ...	100	20	20.0	1	1.0	...	...
Robert Ferguson ...	298	90	30.2	14	4.7	...	...
St. Bede's ...	158	83	52.5	8	5.1	1	0.6
St. Cuthbert's ...	199	80	40.2	17	8.5	2	1.0
St. John's ...	105	25	23.8	3	2.9	...	...
St. Stephen's ...	126	57	45.2	17	13.5	1	0.8
Stanwix ...	142	39	27.5	5	3.5	...	...
Upperby ...	72	21	29.2	4	5.6	...	...
Totals ...	3802	1305	34.3	146	3.8	7	0.2
Second Surprise Visit—							
Ashley Street ...	396	147	37.1	11	2.8	...	...
Bishop Goodwin ...	393	82	20.9	6	1.5	...	...
Botcherby ...	51	23	45.1	...	...	...	...
Brook Street ...	478	111	23.2	6	1.3	...	...
Caldewgate ...	297	133	44.8	8	2.7	2	0.7
Christ Church ...	255	100	39.2	13	5.1	2	0.8
Denton Holme ...	174	59	33.9	8	4.6	...	...
Fawcett ...	46	22	47.8	...	...	...	...
Lowther Street ...	229	84	36.7	16	7.0	...	...
Margaret Sewell ...	221	39	17.6	2	0.9	...	...
Newtown ...	78	21	26.9	2	2.6	...	...
Norman Street ...	100	22	22.0	4	4.0	...	...
Robert Ferguson ...	291	85	29.2	10	3.4	...	...
St. Bede's ...	150	70	46.7	5	3.3	1	0.7
St. Cuthbert's ...	223	89	39.9	4	1.8	1	0.4
St. John's ...	96	29	30.2	1	1.0	...	...
St. Stephen's ...	138	62	44.9	10	7.2	1	0.7
Stanwix ...	157	50	31.8	...	...	...	...
Upperby ...	67	28	41.8	...	...	...	...
Totals ...	3840	1256	32.7	106	2.8	7	0.2

**Summary of Children excluded for Verminous Conditions  
from one to three or more occasions during 1921.**

School Department.	Vermin on Head.			Vermin on Body or Clothing.			TOTAL
	Once.	Twice.	Three times or more.	Once.	Twice.	Three times or more.	
Ashley Street Infants ...	17	1	...	...	...	...	18
"    Boys ...	6	...	...	1	...	1	8
"    Girls ...	20	...	...	...	...	...	20
Bishop Goodwin Infants ...	5	...	...	...	...	...	5
"    Boys ...	3	...	...	...	...	...	3
"    Girls ...	17	3	3	...	...	...	23
Botcherby ...	6	...	...	...	...	...	6
Brook Street Infants ...	25	3	...	...	...	...	28
"    Boys ...	2	...	...	...	...	...	2
"    Girls ...	12	...	2	...	...	...	14
Caldewgate Infants ...	10	3	...	3	...	...	16
"    Boys ...	6	...	...	4	1	...	11
"    Girls ...	17	4	2	1	...	...	24
Christ Church Infants ...	6	4	3	2	...	...	15
"    Girls ...	17	3	2	2	...	...	24
Creighton ...	...	1	...	...	...	...	1
Denton Holme ...	19	4	...	...	...	...	23
Fawcett ...	6	3	...	1	...	...	10
Lowther Street Infants ...	20	4	1	2	...	...	27
"    Mixed ...	13	5	2	1	1	1	23
Margaret Sewell ...	2	...	...	...	...	...	2
Newtown ...	2	1	...	...	...	...	3
Norman Street ...	6	1	...	...	...	...	7
Robert Ferguson Infants ..	13	...	1	...	...	...	14
"    Mixed ...	12	1	...	...	...	...	13
Stanwix Infants ..	10	...	1	...	1	...	12
"    Mixed ...	4	1	...	...	...	...	5
St. Bede's Infants ...	8	1	...	1	...	...	10
"    Mixed ...	15	3	1	4	...	1	24
St. Cuthbert's Infants ...	4	...	1	1	...	...	6
"    Girls ...	24	4	...	1	1	1	31
St. John's Boys ..	9	1	...	1	...	...	11
"    Girls ...	2	1	1	...	...	...	4
St. Patrick's ...	5	...	...	1	5	1	12
St. Stephen's Infants ...	3	1	...	...	1	1	6
"    Mixed ...	24	4	2	1	...	1	32
Upperby ..	5	2	...	...	...	...	7
Totals ...	375	59	22	27	10	7	500

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

Department.	No. examined.	Nits on hair.		Vermin on head.		Vermin on body.	
		No.	Per cent.	No.	Per cent.	No.	Per cent.
Boys—							
Infants ...	2541	161	6.3	38	1.5	5	0.2
Senior ...	5249	312	5.9	53	1.0	17	0.3
Girls—							
Infants ...	2431	705	29.0	72	3.0	4	0.2
Senior ...	5211	1856	35.6	180	3.5	10	0.2
Totals	15432	3034	19.7	343	2.2	36	0.2

**Re-examination of Verminous Children.**

	Number examined	Improved	Unchanged	Worse
Nits on Hair ... ..	2565	1355	913	297
Vermin on Head ... ..	304	258	46	...
Vermin on Body ... ..	29	20	9	...
Dirty Scalp, Body, and Clothing ... ..	301	240	61	...

Table showing the incidence of notifiable infectious diseases for the year 1921 in Scholars attending the Schools within the City.

School.	Scarlet Fever.	Diphtheria.
Ashley Street... ..	7	6
Bishop Goodwin ... ..	4	2
Botcherby ... ..	—	—
Brook Street ... ..	15	—
Caldewgate ... ..	4	—
Christ Church ... ..	1	—
Creighton ... ..	1	1
Denton Holme ... ..	1	—
Fawcett ... ..	—	—
Lowther Street ... ..	5	4
Margaret Sewell ... ..	—	—
Newtown ... ..	3	2
Norman Street ... ..	2	4
Robert Ferguson ... ..	1	1
St. Bede's ... ..	—	1
St. Cuthbert's ... ..	4	2
St. John's ... ..	4	1
St. Patrick's ... ..	2	3
St. Stephen's ... ..	3	—
Stanwix ... ..	1	—
Upperby ... ..	—	3
Private Schools ... ..	1	1
Totals ... ..	59	31

# 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 Attend- ance.	School Accom- modation	Measles	Chick- enpox.	Whoop- ing Cough.	Mumps.	Totals.
<i>Western District.</i>	Ashley Street	853.51	1161	—	4	20	36	60
	St. Bede's	304.86	311	—	4	3	2	9
	Caldewgate	708.79	887	4	10	13	13	40
	Denton Holme	306.72	652	—	7	2	5	14
	Rbt. Ferguson	558.72	720	—	19	7	7	33
	Newtown	148.81	400	—	2	12	11	25
	Creighton	150.05	242	1	—	—	—	1
	Totals	3031.46	4373	5	46	57	74	182
<i>Northern District.</i>	Fawcett	127.18	474	1	—	—	1	2
	St. Stephen's	287.88	300	—	2	11	—	13
	Christ Church	363.79	381	—	7	8	3	18
	St. Cuthbert's	270.05	372	—	3	6	6	15
	St. Patrick's	169.8	272	—	1	—	—	1
	Lowther St.	421.46	524	3	5	14	6	28
	Margt. Sewell	166.23	190	—	2	3	1	6
	Stanwix	336.57	517	—	12	23	—	35
	Totals	2142.96	3030	4	32	65	17	118
<i>Southern District.</i>	Botcherby	109.4	198	—	7	—	—	7
	Norman Street	221.95	400	—	13	40	8	61
	Brook Street	867.77	1132	—	—	15	45	60
	St. John's	370.64	604	—	—	—	1	1
	Bp. Goodwin	702.96	955	—	—	9	9	18
	Upperby	138.11	300	—	8	2	—	10
	Totals	2410.83	3589	—	28	66	63	157
	Grand Totals	7585.25	10992	9	106	188	154	457

**Attendances at Treatment Clinic.**

Month.	No. of days Clinic open.	Total Attendance.	Average daily Attendance.	Maximum daily Attendance.
January ...	20	1904	95	147
February ...	24	2834	118	171
March ...	23	1892	74	156
April ...	26	2729	105	165
May ...	23	2535	110	162
June ...	27	2206	82	131
July (schools closed) ...	...	...	...	...
August ...	26	2020	78	118
September ...	26	1804	69	123
October ...	26	3454	133	190
November ...	26	2648	102	153
December ...	20	1861	93	128
Totals ...	267	25887	97	190

Particulars regarding the attendance of Individual Children at the Treatment Clinics.

Number of Individual Children.	Boys.	Girls.	Total.
Attending at beginning of 1921 ...	96	43	139
Commenced and completed treatment in 1921 ...	487	386	873
Attending at end of 1921 ...	81	48	129
Number of Individual Children treated ...	664	477	1141

## Results of Treatment at Clinic.

Defect or Disease.	No. of Cases.			Cured.	Im- proved.	Un- changed.	Ceased Attend- ing.	In- complete
	Boys.	Girls.	Total.					
<i>Eye Diseases—</i>								
Conjunctivitis ...	52	45	97	73	2	...	3	19
Blepharitis ...	48	46	94	76	4	...	4	10
Phlyctenules ...	11	15	26	24	...	...	1	1
Corneal Ulcers ...	7	5	12	9	1	...	2	...
Keratitis ...	9	3	12	11	...	...	...	1
Hordeolum ...	13	9	22	21	...	...	1	...
Other Diseases ...	7	4	11	9	...	...	...	2
<i>Ear Diseases—</i>								
Otorrhœa ...	95	45	140	71	3	...	14	52
Wax in Ears ...	75	77	152	143	1	...	6	2
Other Diseases ...	2	5	7	7	...	...	...	...
<i>Nose and Throat—</i>								
Enlarged Tonsils	76	73	149	8	60	71	2	8
<i>Skin Diseases—</i>								
Impetigo, Head ...	45	23	68	64	1	...	...	3
Impetigo, Body ...	116	78	194	168	...	1	6	19
Ringworm, Head	13	11	24	22	...	...	...	2
Ringworm, Head, after X-ray ...	27	26	53	46	...	...	1	6
Ringworm, Body	13	11	24	23	...	...	...	1
Eczema ...	47	16	63	55	...	...	3	5
Seborrhœa ...	8	8	16	13	...	...	2	1
Septic Sores ...	78	32	110	99	...	...	2	9
Minor Injuries ...	30	5	35	34	...	...	...	1
Miscellaneous ...	63	40	103	85	5	1	8	4
Totals ...	835	577	1412	1061	77	73	55	146

**Particulars relating to Children attending Newtown Delicate Class.**

No. in Register.	Sex.	Date of Birth.	Defects.	Period of Attendance Weeks	Gain in Weight Pounds.	Reason for Leaving.	Remarks.
1	M	9/11/08	Abdominal Tuberculosis, Malnutrition	58	7 $\frac{3}{4}$	Irregular Attendance	Some Improvement
3	F	4/12/08	Bronchiectasis	86	12 $\frac{3}{4}$	Returned to Ord. School	Much Improved
5	F	21/9/11	Anæmia	81	15 $\frac{1}{4}$	Still Attending ..	Improving
8	F	19/7/07	Anæmia	65	7	Leaving Age ..	Some Improvement
9	F	19/2/08	Early Pulmonary Tuberculosis..	60	11 $\frac{1}{4}$	Irregular Attendance	Improved
16	M	11/4/11	Early Pulmonary Tuberculosis..	85	15	Returned to Ord. School	Much Improved
17	F	13/7/11	Early Pulmonary Tuberculosis..	67	8 $\frac{1}{4}$	Returned to Ord. School	Improved
18	M	13/4/11	Early Pulmonary Tuberculosis..	42	9	Returned to Ord. School	Much Improved
19	M	19/10/11	Early Pulmonary Tuberculosis..	84	14 $\frac{1}{2}$	Returned to Ord. School	Much Improved
20	M	19/6/08	Early Pulmonary Tuberculosis..	78	15	Still Attending ..	Improving
21	F	5/10/08	Interstitial Keratitis, Early Tuberculosis..	84	12 $\frac{1}{4}$	Still Attending ..	Improving
25	F	27/1/10	Early Tuberculosis, Paralysis	52	9 $\frac{3}{4}$	Unsatisfactory ..	Improved
26	F	21/6/08	Anæmia	80	15	Still Attending ..	Improving
27	F	10/2/08	Bronchiectasis	70	14 $\frac{1}{2}$	Still Attending ..	Improving
28	F	22/3/08	Early Pulmonary Tuberculosis	50	17 $\frac{1}{4}$	Returned to Ord. School	Much Improved
29	M	7/6/16	Bronchiectasis	52	6 $\frac{3}{4}$	Returned to Ord. School	Improved
31	F	14/3/09	Early Pulmonary Tuberculosis	60	23 $\frac{3}{4}$	Still Attending ..	Improving
33	F	13/7/09	Early Pulmonary Tuberculosis	54	9 $\frac{1}{4}$	Still Attending ..	Improving
34	F	28/5/07	Abdominal Tuberculosis	16	6 $\frac{1}{4}$	Returned to Ord. School	Much Improved
35	F	25/2/13	Early Pulmonary Tuberculosis	33	4 $\frac{1}{4}$	Sent to Sanatorium	Not Progressing
36	F	9/12/07	Early Pulmonary Tuberculosis	36	7 $\frac{1}{4}$	Leaving Age ..	Improved
37	M	7/5/12	Congenital Syphilis	35	5 $\frac{3}{4}$	Still Attending ..	Improving
38	M	13/4/13	Early Pulmonary Tuberculosis	40	4	Still Attending ..	Improving
39	F	11/2/12	Pulmonary Tuberculosis	10	..	Sent to Sanatorium	Not Progressing

40	M	22/11/12	Pretubercular Contact ..	..	9	1½	Left City	..	Some Improvement
41	F	18/11/14	Pretubercular Contact ..	..	4	1½	Left City	..	Some Improvement
42	M	15/10/12	Early Pulmonary Tuberculosis	..	36	6	Still Attending	..	Improving
43	M	26/12/11	Early Pulmonary Tuberculosis	..	32	4½	Still Attending	..	Improving
44	M	1/12/07	Early Pulmonary Tuberculosis	..	12	2½	Admitted to Infirmary	..	Some Improvement
45	M	16/12/07	Suspected Tubercular Knee	..	12	2	Irregular Attendance	..	Some Improvement
46	M	11/1/08	Early Pulmonary Tuberculosis	..	26	4½	Still Attending	..	Improving
47	M	16/7/09	Old Spinal Caries (Tubercular)	..	26	5	Still Attending	..	Improving
48	M	21/10/10	Asthma and Bronchitis	..	26	..	Still Attending	..	Unchanged
49	F	15/7/09	Early Pulmonary Tuberculosis	..	20	5½	Still Attending	..	Improving
50	F	28/1/10	Anæmia	..	20	7½	Still Attending	..	Improving
51	F	29/6/11	Early Pulmonary Tuberculosis	..	18	4½	Still Attending	..	Improving
52	F	5/1/08	Pretubercular Contact	..	18	7½	Leaving Age	..	Much Improved
53	F	30/9/08	Anæmia and Malnutrition	..	15	5	Still Attending	..	Improving
54	M	14/6/08	Early Pulmonary Tuberculosis	..	15	7½	Still Attending	..	Improving
55	F	21/5/11	Anæmia, Pretubercular	..	15	4½	Still Attending	..	Improving
56	F	2/6/14	Early Pulmonary Tuberculosis	..	7	3	Still Attending	..	Improving
57	F	9/4/10	Anæmia and Keratitis ..	..	11	9	Still Attending	..	Improving
58	F	7/7/08	Anæmia, Pretubercular	..	14	6	Still Attending	..	Improving
59	M	28/9/11	Bronchiectasis	..	8	2	Still Attending	..	Improving
60	M	23/1/13	Early Pulmonary Tuberculosis	..	4	3	Still Attending	..	Improving

**Return of Defects found in the Course of Medical  
Inspection at the Carlisle and County High School  
for Girls in 1921.**

Defect or Disease.	Group 1. Under 9.		Group 2. 12 years.		Group 3. 15 years.		Group 4. Leavers over 15.		Total.	
	Referred for Treatment.	Referred for Observation.	Referred for Treatment.	Referred for Observation.	Referred for Treatment.	Referred for Observation.	Referred for Treatment.	Referred for Observation.	Referred for Treatment.	Referred for Observation.
Malnutrition ...	...	4	...	6	...	3	...	1	...	14
Dental Disease ...	10	7	16	2	14	7	9	1	49	17
Defective Vision ...	1	5	2	3	7	7	1	2	11	17
External Eye Disease ...	...	...	...	1	1	...	...	...	1	1
Tonsils and Adenoids ...	5	2	5	3	4	4	2	1	16	10
Hearing ...	...	...	...	1	...	1	...	...	...	2
Heart & Circulation :—										
Functional Heart Disease ...	...	...	...	...	...	1	...	...	...	1
Anæmia ...	...	1	1	...	1	2	...	1	2	4
Lungs :—										
Suspected Phthisis ...	...	...	...	1	...	1	...	...	...	2
Deformities ...	...	...	...	2	...	2	...	1	...	5
Skin Disease ...	...	...	...	1	...	2	...	...	...	3
Enlarged Glands ...	...	3	...	3	...	2	...	1	...	9
Nasal Obstruction ...	...	1	...	1	...	...	...	...	...	2
Wax in Ears ...	...	1	4	1	1	...	...	...	5	2
Goitre ...	...	...	...	1	...	...	...	...	...	1
Catamenia ...	...	...	...	...	...	1	...	2	...	3
Amenorrhœa ...	...	...	...	...	...	4	...	1	...	5
Totals ...	16	24	28	26	28	37	12	11	84	98

**Classification of Individual Children Examined.**

	No defects.	Observation.	Treatment.	Total.
Group 1 ...	4	9	14	27
" 2 ...	9	4	20	33
" 3 ...	14	12	26	52
" 4 ...	3	4	9	16
Totals ...	30	29	69	128

**Return of Defects found in the Course of Medical  
Inspection at the Carlisle Grammar School for  
Boys in 1921.**

Defect or Disease.	Group 1. Under 9.		Group 2. 12 years.		Group 3. 15 years.		Group 4. Leavers over 15.		Total.	
	Referred for Treatment.	Referred for Observation.	Referred for Treatment.	Referred for Observation.	Referred for Treatment.	Referred for Observation.	Referred for Treatment.	Referred for Observation.	Referred for Treatment.	Referred for Observation.
Malnutrition ...	...	...	...	...	...	2	...	2	...	4
Dental Disease ...	4	5	...	9	1	35	1	9	6	58
Defective Vision ...	...	3	...	2	5	7	...	4	5	16
Tonsils and Adenoids ...	1	1	...	3	4	6	1	1	6	11
Hearing ...	...	...	...	...	...	...	...	1	...	1
Heart & Circulation, Heart Disease :—										
Organic ...	...	...	...	...	...	...	...	3	...	3
Functional ...	...	...	...	1	1	2	...	...	1	3
Anæmia ...	...	1	...	...	...	...	...	...	...	1
Lungs :—										
Suspected Phthisis ...	...	...	...	...	...	1	...	...	...	1
Other Disease ...	...	...	...	...	...	3	...	...	...	3
Deformities ...	...	1	...	...	...	1	...	...	...	2
Scabies ...	...	...	...	1	...	...	...	...	...	1
Enlarged Glands ...	...	1	...	...	...	...	...	...	...	1
Nasal Catarrh ...	...	...	...	1	...	1	...	...	...	2
Asthma ...	...	...	...	1	...	...	...	...	...	1
Chilblains ...	...	...	...	...	...	1	...	...	...	1
External Eye Disease ...	...	...	...	...	...	1	...	...	...	1
Totals ...	5	12	...	18	11	60	2	20	18	110

**Classification of Individual Children Examined.**

	No Defect.	Observation.	Treatment.	Total.
Group 1 ...	1	4	1	6
" 2 ...	3	9	1	13
" 3 ...	19	32	10	61
" 4 ...	9	12	2	23
Totals ...	32	57	14	103

**Table I.—Number of Children Inspected 1st January, 1921, to 31st December, 1921.**

**A. "Routine" Medical Inspection.**

Age.	Entrants.					
	3.	4.	5.	6.	Other Ages.	Total.
Boys ...	...	78	296	70	7	451
Girls ...	...	61	305	76	16	458
Totals ...	...	139	601	146	23	909

Age.	Inter- mediate Group.	Leavers.				Other Ages.	Grand Total.
	8.	12.	13.	14.	Total.	Inter- mediate.	
Boys ...	269	315	87	6	408	230	1358
Girls ...	257	363	105	5	473	203	1391
Totals ...	526	678	192	11	881	433	2749

**B. "Special" Inspections.**

Age.			Special Cases.	Re-examinations (i.e., No. of Children Re-examined).
Boys ...	...	...	473	498
Girls ...	...	...	358	553
Totals ...	...	...	831	1051

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

Number of Individual Children Inspected.
4631

**Table II.—Return of Defects found in the course of  
Medical Inspection, 1921.**

Defect or Disease.				Routine Inspections.		Specials.	
				Number referred for Treatment.	Number requiring to be kept under observation, but not referred for Treatment.	Number referred for Treatment.	Number requiring to be kept under observation, but not referred for Treatment.
(1)				(2)	(3)	(4)	(5)
Malnutrition	...	...	...	...	247	...	...
Uncleanliness :							
Head	...	...	...	328	...	8	...
Body	...	...	...	3	42	...	1
Ringworm :							
Head...	...	...	...	9	...	41	1
Body	...	...	...	1	...	22	...
Skin { Scabies	...	...	...	23	3	71	...
Impetigo	...	...	...	14	7	139	11
Other Diseases (non-Tubercular)				28	31	129	33
Eye { Blepharitis	...	...	...	15	15	31	3
Conjunctivitis	...	...	...	10	3	55	3
Keratitis	...	...	...	2	3	5	...
Corneal Ulcer	...	...	...	...	...	4	...
Corneal Opacities	...	...	...	2	15	...	2
Defective Vision	...	...	...	234	198	16	10
Squint	...	...	...	29	30	3	2
Other Conditions	...	...	...	3	4	17	3
Ear { Defective Hearing	..	...	...	11	38	...	4
Otitis Media	...	...	...	27	6	43	1
Other Ear Diseases	...	...	...	152	18	12	...
Nose and Throat { Enlarged Tonsils	...	...	...	284	304	27	3
Adenoids	...	...	...	8	32	3	1
Enlarged Tonsils and Adenoids	...	...	...	29	2	1	...
Other Conditions	...	..	...	13	19	9	2
Enlarged Cervical Glands (non-Tubercular)			...	...	249	5	11
Defective Speech	...	...	...	3	19	3	1
Teeth—Dental Diseases	..	...	...	28	812	5	1
Heart and Circulation { Heart Disease :							
Organic	...	...	...	9	50	3	...
Functional	...	...	...	..	32	...	1
Anæmia	...	...	...	41	116	16	10
Lungs { Bronchitis	...	...	...	18	41	11	5
Other (non-Tubercular) Disease	...	...	...	5	56	4	6

Table II.—continued.

Defect or Disease.		Routine Inspections.		Specials.	
		Number referred for Treatment.	Number requiring to be kept under observation, but not referred for Treatment.	Number referred for Treatment.	Number requiring to be kept under observation, but not referred for Treatment.
(1)		(2)	(3)	(4)	(5)
Tuber- culosis	Pulmonary :				
	Definite ... ..	4	23	3	2
	Suspected ... ..	43	45	8	13
	Non-pulmonary :				
	Glands ... ..	...	1	2	...
	Spine ... ..	...	1	...	...
	Hip ... ..	...	1	...	...
	Other Bones and Joints ... ..	...	...	...	...
	Skin ... ..	...	...	1	...
	Other Forms ... ..	...	..	...	1
Nervous System	Epilepsy ... ..	...	1	1	...
	Chorea ... ..	...	4	1	...
	Other Conditions ... ..	...	1	...	...
Defor- mities	(Rickets ... ..	...	40	...	...
	Spinal Curvature ... ..	2	...	...	...
	Other Forms ... ..	3	13	1	2
Other Defects and Diseases ... ..		15	36	76	26

Number of individual children having defects which required treatment or to be kept under observation—2,812.

Table III.—Numerical Return of all Exceptional Children in the Area in 1921.

BLIND (including partially blind), within the meaning of the Elementary Education (Blind and Deaf Children) Act, 1893.		Boys.	Girls.	Total.
	Attending Public Elementary Schools	...	...	...
	Attending Certificated Schools for the Blind	2	3	5
	Not at School	...	...	...
DEAF AND DUMB (including partially deaf), within the meaning of the Elementary Education (Blind and Deaf Children) Act, 1893.	Attending Public Elementary Schools	...	...	...
	Attending Certificated Schools for the Deaf	4	3	7
	Not at School	...	...	...

Table III.—continued.

MENTALLY DEFICIENT.	Feeble-minded	Attending Public Elementary Schools	Boys	Girls	Total
		Attending Certified Schools for Mentally Defective Children	16	7	23
		Notified to the Local Control Authority by Local Education Authority during the year	..	..	..
		Not at School	1	2	3
MENTALLY DEFICIENT.	Imbeciles	At School	..	..	..
		Not at School	9	3	12
		Notified to the Local Control Authority by Local Education Authority during the year.	..	..	..
MENTALLY DEFICIENT.	Idiots	...	1	1	2
		Attending Public Elementary Schools	..	..	..
		Attending Certified Schools for Epileptics	1	..	1
EPILEPTICS		In Institutions other than Certified Schools	..	..	..
		Not at School	..	1	1
PHYSICALLY DEFECTIVE.	Pulmonary Tuberculosis	Attending Public Elementary Schools	75	111	186
		Attending Certified Schools for Physically Defective Children	..	..	..
		In Institutions other than Certified Schools	..	..	..
		Not at School	9	15	24
	Crippling due to Tuberculosis	Attending Public Elementary Schools	9	5	14
		Attending Certified Schools for Physically Defective Children	..	..	..
		In Institutions other than Certified Schools	..	..	..
		Not at School	3	2	5
	Crippling due to causes other than Tuberculosis, i.e., Paralysis, Rickets, Traumatism	Attending Public Elementary Schools	19	13	32
		Attending Certified Schools for Physically Defective Children	..	..	..
		In Institutions other than Certified Schools	..	..	..
		Not at School	..	..	..
Dull or Backward		Retarded 2 years	284	211	495
		Retarded 3 years	75	57	132

**Table IV.—Treatment of Defects of Children during 1921.**

**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) ..	83	68	14	82
Ringworm (Body) ..	37	26	11	37
Scabies .. ..	125	..	124	124
Impetigo .. ..	278	218	59	277
Minor Injuries ..	42	40	2	42
Other Skin Disease ..	255	184	69	253
Ear Disease .. ..	314	257	48	305
Eye Disease (external and other) .. ..	238	204	28	232
Miscellaneous .. ..	36	29	6	35

**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.					
537	276	10	38	324	273	148	9	5	43

**C. Treatment of Defects of Nose and Throat.**

Referred for Treatment.	Number of Children.			
	Received Operative Treatment.			Received other Forms of Treatment
	Under Local Education Authority's Scheme Clinic or Hospital	By Private Practitioner or Hospital.	Total.	
690	..	75	75	354

# 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 ..	—	—	797	192	295	300	207	158	146	46	105	2246
(b) Referred for Treatment ..	—	—	402	140	221	237	150	124	109	43	105	1531
(c) Actually Treated ..	—	—	224	55	78	101	53	44	41	10	105	711
*(d) Re-treated (result of period- ical re-examination) ..	—	—	—	13	27	51	33	37	32	9	19	222
* Cases under this head are also included in (c) ..												

## 2. Particulars of time given and of Operations undertaken.

1 Number of half- days devoted to Inspection	2 Number of half- days devoted to Treatment.	3 Total number of Attendances made by Children at the Clinic.	4	5	6	7	8	9	10	11
			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.
19	61	737	315	979	2189	—	1005	319	7	—



**Table VI.—Summary relating to Children Medically Inspected at the Routine Inspections during the year 1921.**

(1) The total number of children medically inspected at the Routine Inspections ...	2749
(2) The number of children in (1) suffering from defects (other than uncleanliness or defective clothing or footgear) who require to be kept under observation (but not referred for treatment) ... ..	1136
(3) The number of children in (1) suffering from—	
Malnutrition ... ..	247
Skin Disease ... ..	116
Defective Vision (including Squint) ...	491
Eye Disease ... ..	72
Defective Hearing ... ..	49
Ear Disease ... ..	203
Nose and Throat Disease ... ..	691
Enlarged Cervical Glands (non-tubercular)	249
Defective Speech ... ..	22
Dental Disease ... ..	840
Heart Disease—	
Organic ... ..	59
Functional ... ..	32
Anæmia ... ..	157
Lung Disease (non-tubercular) ... ..	120
Tuberculosis—	
Pulmonary { Definite ... ..	27
Suspected ... ..	88
Non-Pulmonary ... ..	3
Disease of the Nervous System ... ..	6
Deformities ... ..	58
Other Defects and Diseases ... ..	51
(4) The number of children in (1) who were referred for treatment (excluding uncleanliness, defective clothing, &c.) ... ..	887
(5) The number of children in (4) who received treatment for one or more defects (excluding uncleanliness, defective clothing, &c.)	854

