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COUNTY BOROUGH OF WEST BROMWICH.



EDUCATION COMMITTEE.

Annual Report

FOR THE YEAR 1930,

ON THE

MEDICAL INSPECTION

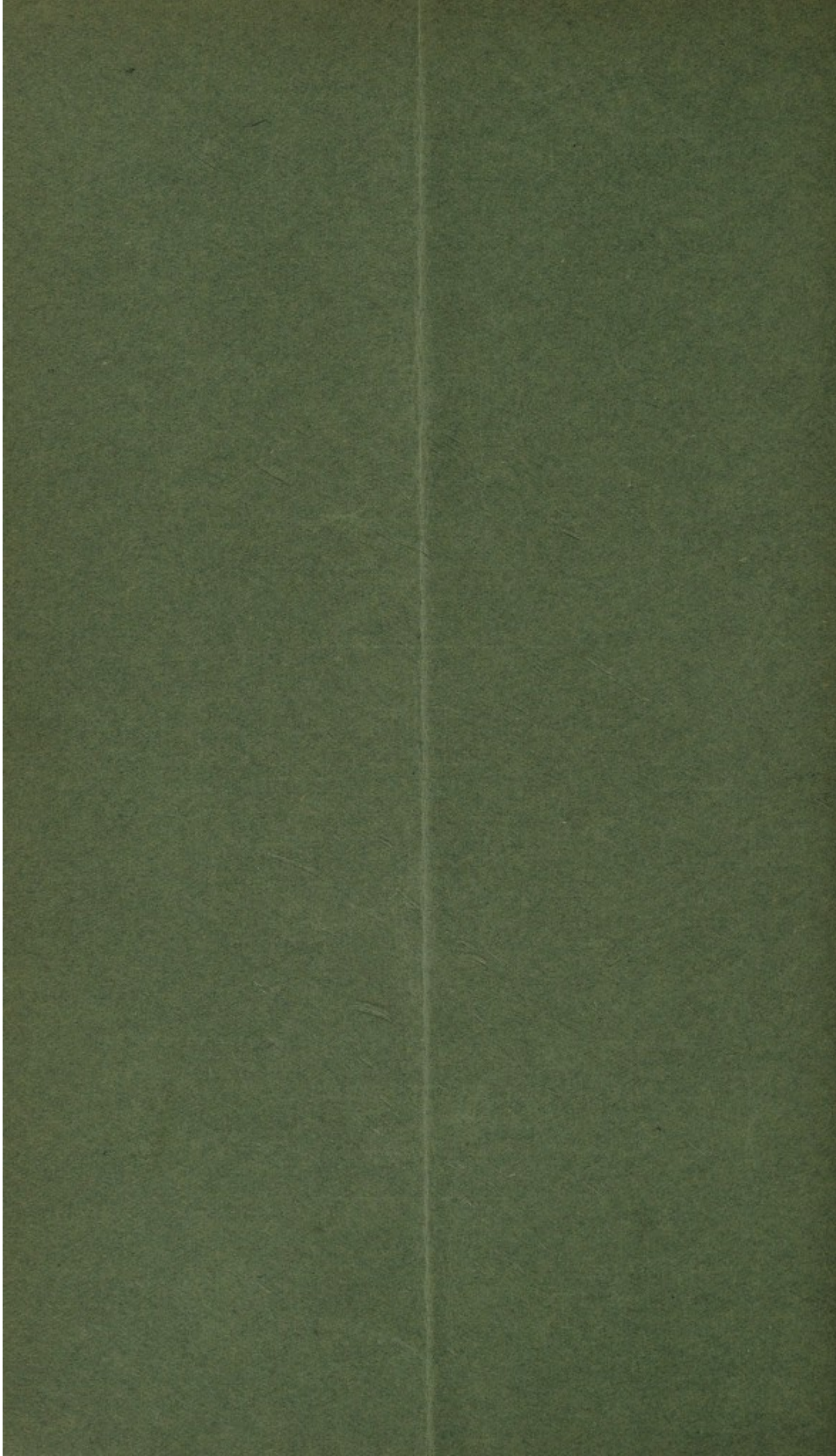
AND

TREATMENT OF SCHOOL CHILDREN

(23rd OF THE SERIES).



West Bromwich,
March, 1931.



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West Bromwich,
March, 1931.

ATTENDANCE AND MEDICAL SERVICES SUB-COMMITTEE.

The Mayor (Councillor W. T. Poultney)	Councillor S. Crump, J.P.
Mr. J. P. Millward, Chairman	„ T. Mercer
Alderman J. Bell, J.P.	„ E. Mynett
„ J. E. Cox, J.P.	„ H. H. Prince
„ J. A. Kenrick, J.P.	„ A. D. James
Councillor Mrs. Grace E. Cottrell, J.P.	Mr. J. Lawley
„ „ E. A. Smallman	

Director of Education: ARTHUR LEWIS, B.A. (Barrister-at-Law).

STAFF OF SCHOOL MEDICAL DEPARTMENT.

School Medical Officer	... ..	W. Stott, M.B., B.S., D.P.H.
Deputy „	„	R. N. Curnow, M.B., B.S., D.P.H.
Assistant „	„	A. Anderson, M.B., Ch.B., D.P.H.
Consulting Ophthalmic Surgeon		Charles Rudd, M.B., Ch.B.
Dental Surgeon	... ..	Mrs. E. R. Hadley, L.D.S. (Edin.).
School Nurses	... ..	Miss C. Twist
		Miss M. W. Pole
		„ A. Clegg
		„ S. A. Smith
		„ W. K. Brazier
		Mrs. L. A. Bryan
		„ L. A. Powell
		Miss M. M. Byard
		„ B. Wearing
Clinic Nurses	... ..	„ B. E. Fisher
		„ H. M. Hayes
		(Appointed 1/4/30).

Supervisors of Physical Instruction	{	... ..	Mr. Albert F. Probst
	{	... ..	Miss W. V. Steel
Masseuse (for Remedial Exercises)		... ..	Miss E. Fisher
Chief Clerk	... ..	... ..	Miss D. Bromley
			(Appointed 1/5/30).
Clerk and Dental Attendant	... ..	... ..	Miss G. M. Lupton
„	... ..	... ..	Miss R. I. Turner
„	... ..	... ..	Miss D. Matthews
			(Appointed 1/4/30)

*To the Chairman and Members of the Education
Committee.*

MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have pleasure in presenting you with the Report on the School Medical Services for the year 1930.

Throughout the year this work has progressed smoothly, and there has been an increase in the work generally.

Special efforts were made to ascertain as many as possible of the crippled, mentally deficient and delicate children in attendance at the schools; this accounts for the apparent enormous increase of the exceptional children, as found in the exceptional tables at the back of the Report. Once again I bring to your notice the necessity for open-air classes and would urge that such be given serious consideration: such classes would solve to some degree the problem of the delicate child.

I desire to express my appreciation of the goodwill shown to me by the Chairman and Members of the School Medical Committee; the invaluable assistance given to me by the Director of Education and Teachers, and of the loyalty and high quality of the work of the Assistant Medical Officers, Dentist, Nursing and Clerical Staffs.

I am, Ladies and Gentlemen,

Yours obediently,

W. STOTT,

School Medical Officer.

March, 1931.

**LIST OF ELEMENTARY SCHOOLS AND
ACCOMMODATION.**

Official

<i>No.</i>	<i>Name of School.</i>	B.	G.	M.	I.	Total
1	Beeches Road Council ...	351	422	—	315	1088
2	Black Lake Council ...	330	341	—	308	979
2a	Bratt Street Council ...	—	—	470	161	631
3	Bull Lane Council ...	—	—	—	270	270
24	Charlemont Council ...	—	—	400	350	750
14	Christ Church Council ...	—	—	369	178	547
22	Cronehills Central Council ...	400	400	—	—	800
15	Fisher Street Council ...	—	—	270	190	460
4	Golds Hill Council ...	—	—	291	183	474
5	Greets Green Council ...	323	403	—	262	988
	,, ,, Temporary ...	160	—	—	—	160
6	Guns Village Council ...	356	361	—	327	1044
27	Harvills Hawthorn Council	300	—	—	—	300
		S.374				
16	Hill Top Council ...	374	J.374	—	380	1502
28	“ Joseph Edward Cox ” (Friar Park) Council	—	—	—	200	200
7	Lodge Estate Council ...	435	435	—	350	1220
8	Lyng Council ...	400	307	—	265	972
11	Spon Lane Council ...	426	400	—	468	1294
20	St. Peter's Council ...	—	—	197	161	358
13	All Saints' C.E. Non-provided	360	280	—	300	940
17	Holy Trinity C.E. Non-provided	—	—	319	146	465
19	St. Michael's R.C. Non-provided	—	—	112	—	112
25	St. Paul's C.E. Non-provided	—	—	225	120	345
		4215	4097	2653	4934	15899

Average number of Children on the Registers 1930 :—

Upper Departments—Boys	...	5080
Girls	...	4867
Infants	...	3899
Total	...	13846

CO-ORDINATION.

The School Medical Officer continued to direct the work of the School Medical Service in close co-operation with the Public Health and Education Departments, also with other local agencies, voluntary or otherwise, for the treatment and supervision of children.

As your Medical Officer is also Medical Officer of Health, Administrative Tuberculosis Officer and Medical Officer for Maternity and Child Welfare, the whole of the Public Health Service is co-ordinated in and directed from my office.

SCHOOL HYGIENE.

The Hygiene of the Schools was described fully in my Report for the year 1929, and as I intend only to give the Hygiene of the Schools in detail every five years it is not my intention to repeat this year.

The Authority have already taken steps to deal with some of the defects, particularly at Beeches Road, where the galleries have been removed in the classrooms, and

CHRIST CHURCH SCHOOL.

This School, which last year was described as crowded, dark and dismal, has been almost completely reconstructed, and those responsible for the alterations are to be congratulated on its conversion into what it is now, a bright and airy building.

The classrooms have been completely rebuilt. In the cloak-rooms sufficient pegs have been provided, and there is now a drying apparatus for wet clothes. The washing accommodation has been considerably improved; four wash-bowls each have been provided for boys and girls, and six for the Infants. A new corridor has been made into which each classroom opens, thus preventing the movement of one class interfering with the rest of the school, and giving easy egress in case of fire. The light and ventilation has been greatly improved by the introduction of this corridor with its large windows, and by extensive alterations involving the substitution of steel frame windows capable of opening in each section; a great advantage over the old small heavily framed ones. In the classrooms several entirely new windows have been inserted. A new sky-light in the Infants' room, and the increased size of Standard 3 classroom have all contributed to the general improvement. The playground is new and has a hard well-drained surface. The artificial light has been brought up to date by the introduction of electric light. The floors have been re-laid throughout the whole school, and every room has been repainted with fresh bright colours.

The Headmaster and the Staff have each been provided with private rooms and separate sanitary accommodation.

I trust that similar improvements will gradually take place in all schools which were adversely reported upon last year.

INSPECTIONS.

Routine medical examination of children at the elementary schools in accordance with the requirements of the Board of Education. The number of individual children so examined was 3,942. 661 children were found to require treatment. Of these, 596 children found to be suffering from 759 defects were re-examined at the School Clinic.

Special inspections and re-inspections made at the Central Clinic numbered 7,697.

The number of individual children examined by the School Dentist at routine inspections was 7,594.

The number of examinations of children in Schools for uncleanliness by nurses was 47,076.

FINDINGS AT ROUTINE MEDICAL INSPECTION.

The details of defects ascertained will be found in Table II. of the statistical appendix.

It is satisfactory to note that the percentage of children found to require treatment is considerably lower than ever previously recorded:—13% Entrants, as against 19%; 15% Intermediates, as against 27% the previous year. The only unsatisfactory findings are those of the Leavers—22.5% as against 22.2% were found to require treatment. This is much too high a percentage for children who are supposed to have had at least two previous medical examinations during their school life. On referring to the Routine Inspection tables, under the heading of Leavers Group, one finds that 165 of these children were found to be suffering from Defective Vision, defects which should have been discovered years previously.

The number of children found, as the result of routine medical inspection, to require treatment (apart from uncleanliness and dental defects) was 661. The chief defects for which treatment was found necessary were Defective Vision, Enlarged Tonsils and Adenoids and Chest complaints.

MUNICIPAL SECONDARY SCHOOL.

Routine Inspections were carried out at the above School; a total of 135 children being examined: 55 boys, 80 girls. Only 12 defects, all minor ones, were discovered among the

boys, but amongst the girls 50 defects were found to require treatment, 7 of which were defective vision, 8 enlarged tonsils and adenoids, and 16 postural defects.

KENRICK JUNIOR TECHNICAL COLLEGE.

The School was inspected for the first time this year. Thirty-nine boys were examined, and 17 defects discovered, 4 of which were defective vision and 12 defective teeth.

FOLLOWING-UP.

The work of "following-up" was the combined efforts of the Medical Staff, School Nurses, Head Teachers and Attendance Officers, supplemented by the co-operation of the General Practitioners and Hospital Staffs. There can be no reason or excuse for any child failing to receive adequate medical attention by reason of the ignorance or poverty of his parents or inability, through any other reason, to provide for his needs. When a child was discovered to have a defect the parent was notified of the fact and requested to attend at the School Clinic or take such other action as lay within his power to obtain suitable treatment. In cases where the child was not brought to the Clinic a School Nurse visited the home to obtain evidence that the requisite treatment had been obtained; repeated visits were paid when necessary. This also applied in cases where the child was not brought to the Clinic at stated periods for re-examination.

The number of visits paid by Nurses during the year is as follows:—

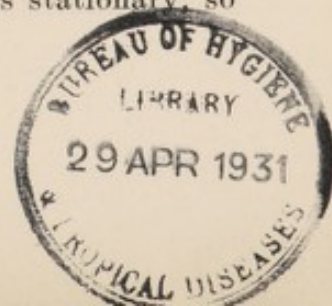
To Schools	...	...	...	345
To Homes	...	...	...	1,921

CLEANLINESS SURVEYS.

Number of examinations of children	...	40,091
Number of re-examinations of children	6,985	
	—————	47,076
Number of individual children found unclean	2,810	
Number of visits to Schools	...	349
Number of visits to Homes	...	908

During the year it has been satisfactory to note an improvement in the quality of uncleanliness, if one may so term it.

The efforts of the Nurses and School Teachers are having their desired effect but progress is, naturally, slow. The quantity of uncleanliness remains more or less stationary, so



far as the actual number of unclean children is concerned. I would here like to record my thanks to all Teachers for the efforts which they have made to assist in this rather unpleasant task.

My thanks are also due to Inspector Pine, of the N.S.P.C.C., to whom several of the worst cases were referred to avoid, if possible, prosecutions under the Children Act for neglect. Although every effort was made to avoid court proceedings, it was necessary to prosecute parents in the following cases:—

(a) Under the Education Act	...	...	2
(b) Under School Attendance Bye-Laws			6

EXCEPTIONAL CHILDREN.

Particulars of ascertained defects of blind, deaf, tubercular, epileptic, crippled and rheumatic children will be found in Table III. at the back of the Report.

It will be noted that there is a great increase in the findings, particularly of the delicate children. This is due to the fact that your Medical Staff have increased their efforts during the year to ascertain as many as possible of these children in the schools. It must be realised that these children are not a sudden acquisition of the Authority, but have existed all along. The numbers have grown from 167 to 522. The crippled children group has also increased from 142 to 224. The mentally defective group is rapidly increasing. It is chiefly the exceptional children who cause the lowering of the percentage attendance; many of them are absent for weeks, or even months, at a time. The only means of dealing with them satisfactorily is by way of a Special School worked on open-air principles, and where the education is based upon the physical and mental capacity rather than on the age of the pupils.

INFECTIOUS DISEASES.

Every possible measure was taken to restrict the spread of infectious diseases. There was no closure of schools for epidemic disease, and it was not found necessary to issue any certificates for low attendance under the special provision of Article 23 (b) of the Code. In the early part of the year there was a mild outbreak of Measles and Chickenpox, and from September onwards there was a fairly extensive, but mild, outbreak of Scarlet Fever. Apart from these the health of the school children has been particularly good during the year.

Infectious Diseases Notified from Schools.

Measles	...	...	...	965
Whooping Cough	...	...	...	73
Chicken Pox	...	...	...	554
Mumps	...	...	...	47
Scarlet Fever	...	...	...	222
				<hr/>
			Total	1,861
				<hr/>

Deaths of School Children from Infectious Diseases, etc.

T.B. Pulmonary	...	...	...	2
Other T.B. Diseases	...	...	...	2
Heart Disease	...	...	...	1
Pneumonia	...	...	...	6
Accidents	...	...	...	2
Appendicitis	...	...	...	1
Others	...	...	...	5
				<hr/>
			Total	19
				<hr/>

BACTERIOLOGICAL EXAMINATIONS.

Two hundred and two swabs taken from school children were examined during the year.

MEDICAL TREATMENT.

The Local Authority has provided facilities for the treatment of various minor ailments at:—

The Central Clinic,

Lombard Street West. Open daily.

Sub-Clinics,

Hill Top. Open Monday morning and Friday afternoon.

Boulton Road. Open Tuesday & Thursday morning.

Greets Green. Open Tuesday morning and Thursday afternoon.

Charlemont. Open Monday afternoon and Friday morning.

Hamstead. Open Friday morning.

The following Special Clinics are held at the Central Clinic:—

- (1) **General Clinic.** Tuesday and Friday afternoons, at which the following groups of cases are seen and examined and the necessary advice given:—
 - (a) Cases found to require treatment or observation at Routine School Medical Inspection.
 - (b) Cases referred by the School Nurses.
 - (c) Cases referred by the School Teachers.
 - (d) Cases referred by the School Attendance Officers.
 - (e) Cases brought for advice by parents.
- (2) **Ear Clinic.** Mondays at 10 a.m.
- (3) **Ophthalmic Clinic.** Thursday morning at 9-30 a.m., at which cases of defective vision and special eye diseases are dealt with.
- (4) **Heart and Rheumatic Clinic.** Wednesdays at 10 a.m.
- (5) **Remedial Exercises Clinic.** Monday and Friday afternoons and Wednesday mornings.
- (6) **Dental Clinic.** Each morning of the week and Monday and Thursday afternoons.

Other arrangements are as follows:—

- (1) **Operative Treatment for Diseases of Nose and Throat.** West Bromwich and District Hospital, Hallam Hospital.
- (2) **Orthopædic Treatment.** Royal Cripples Hospital, Birmingham, and West Bromwich and District Hospital.
- (3) **X-Ray Treatment for Ringworm.** Dr. Black, 22, Newhall Street, Birmingham.
- (4) **Ultra Violet Light Treatment.** Health Department, Lodge Road.

Owing to the increase in work at the Clinics, it was found necessary, early in the year, to increase the Nursing Staff, and accordingly the Committee appointed two School Nurses to be entirely responsible for the minor ailments, dressings, and routine treatment.

As will have been noted from the Statistical Tables, 661 children were found to be suffering from defects which required treatment. Each one was, in turn, called to the Central Clinic to obtain the necessary treatment or to be referred to one of the local hospitals for operative treatment where such was found to be necessary. 596 children, presenting 759 defects, were thus dealt with. Other children, whose parents refused to bring them to the Clinic, received treatment

at the hands of their own Private Practitioner; 200 defects were thus treated. 63 cases remained over to be treated this year; these were 63 cases of Defective Vision. This is highly satisfactory when it is remembered that practically 200 Vision cases remained over from the year 1929 to be dealt with during 1930.

Minor Ailments.

Under this heading are included a variety of defects and diseases which are generally capable of remedy by treatment which can be administered by School Nurses under medical supervision. Some of these conditions—contagious skin diseases, external eye defects, etc.—are responsible for much loss of school attendance, and the minor eye and ear conditions may do irreparable injury if neglected. The number of such cases treated during the year was 3,207, an increase of 732 compared with the previous year.

Tonsils and Adenoids.

556 children received treatment for defects of Nose and Throat, 231 had operations, and 325 other forms of treatment. This is an increase of 215 compared with the previous year.

Vision.

The number of children refracted at the School Clinic was 512 and spectacles were prescribed for 397. Although these figures exceed our past attainments the work is still somewhat in arrears. The following figures show the number of children refracted at the Clinic in each of the past five years, and clearly indicate an attempt to cope with the requirements in this sphere of our work as far as available time has permitted:—

1926.	1927.	1928.	1929.	1930.
190	184	170	383	512

Ear Disease.

There was no change in the method of treatment. The Special Ear Clinic on Monday mornings was continued; 167 children attended, of whom 48 were cured. The total number of children treated for ear defects at the Clinics was 363.

Dental Defects.

Details of inspection and treatment carried out during the year will be found in Table IV., Group IV., of the Statistical Appendix.

On account of the distance from the Central Clinic all the children at Hamstead St. Paul's School were examined and the requisite sessions set apart for their treatment. The journeys to and fro were made by Corporation omnibus.

The percentage of children found to require treatment at the Dentist's routine inspections was 57.4, as compared with 55.8 for 1929.

The Dentist is now working to her full capacity and each year in the future will mean an accumulation of cases awaiting treatment. I drew the attention of the Authority to this a few months ago and they have decided to make additional arrangements for the forthcoming year.

Crippling Defects and Orthopædics.

It is to be hoped that an Orthopædic Clinic will be commenced this year, although up to the present time it has not been found practicable to make the necessary arrangements.

The following table shows the work done at the Remedial Exercises Clinic:—

Remedial Clinic, 1930.

Number of Sessions	...	...	...	...	126
Number of Attendances	...	...	...	...	1941
Number of Patients (Girls 29, Boys 24)	...	...	...	...	53
Discharged	...	...	...	...	30
Left School or District	...	...	...	...	5
Remaining on Books	...	...	...	...	18

Disabilities Treated.

SPINAL.

Kyphosis	...	...	...	...	12
Torticollis	...	...	...	...	2
Lateral Curves	...	...	...	...	14
				—	28
Mouth Breathers	...	...	...	...	15
Old Infantile Paralysis	...	...	...	...	3
Flat Feet and Sprained Ankles	...	...	...	...	6
Fractured Forearm	...	...	...	...	1

Tuberculosis.

All cases of definite or suspected Tuberculosis were referred to the Dispensary, except those already receiving hospital treatment.

The following table shows the number of children of school age having tubercular disease at the end of the year:—

	Boys.	Girls	Total.
Lungs	1	5	6
Glands	44	22	66
Bones and Joints	12	8	20
Other forms ...	7	7	14
	—	—	—
	64	42	106
	—	—	—

Ultra Violet Light.

The Ultra Violet Ray Clinic again proved of much value to the School Medical Service during the year. In all, 44 children, apart from the Tuberculous school children, were given treatment at this Clinic. 740 attendances were made. Of the 44, 35 children were discharged during the year; the remainder continue treatment.

The following table indicates the conditions for which treatment was given and the improvement made.

	Cured.	Much Imp.	Impd.	No Imp.	Un- suit- able.	Failed to attd.	Refd. Hsptl.
Alopecia	1	1	3	2	—	—	—
Anæmia	1	—	1	—	—	—	—
Debility	1	1	1	—	—	—	—
Fragilitas ossium ...	—	—	—	—	1	—	—
Glands of Neck (non-T.B.)	4	4	3	—	—	4	—
Goitre	—	—	—	1	—	—	—
Photophobia	—	—	—	—	1	—	—
Psoriasis	—	—	—	—	—	—	1
Rheumatism	—	—	—	1	—	—	—
Septic Rash	1	—	—	—	—	—	—
	—	—	—	—	—	—	—
	8	6	8	4	2	4	1
	—	—	—	—	—	—	—

MENTAL DEFICIENCY.

Last year I drew the attention of the Authority to the principal recommendation of the Mental Deficiency Committee as drawn up in the "Wood" Report, and indicated the lines on which these cases could be dealt with in West Bromwich. I do not intend to repeat this, but refer you to last year's report.

Ascertainment has proceeded apace. Mentally Defective children have been graded, and recommendations made regarding each, but the efforts of the Education Authority and of your Medical Staff are rendered more or less valueless by lack of machinery—I refer particularly to the lack of machinery on the part of the Local Control Authority whose duty it is to supervise the Mentally Defective children who have not been placed in institutions on attaining the age of sixteen years.

The Education Authority realises full well that they are responsible for all educable Mentally Defectives until they become sixteen years of age, and a beginning has been made in opening a small Special Day School. This is the beginning but certainly not the end. To be of any value, this Special School must grow into a School at which the educable deficients can remain until they attain the age of sixteen years, and where they can be taught Domestic Work, Tailoring, Boot-making and the like, in order to equip them, so far as possible, with the means to support themselves.

At the age of sixteen years—what then? The majority of these children will be referred to the Local Control Authority for supervision, and unless there is an officer, whose duty it is to supervise them continually, they will be forgotten and eventually lost, and, what is probably worse, they will marry; drift to the slums; propagate their species and thus throw additional burdens on the Education Authority and the Town generally. This is, broadly speaking, the lack of machinery referred to above.

The position at the end of the year was as follows:—

	Boys.	Girls.	Total.
Feeble-minded Children under the supervision of the Education Authority:—			
Attending Certified Schools ...	1	1	2
Attending P.E. Schools ...	48	58	106
At no School or Institution ...	2	1	3
Cases notified to Local Control Authority during the year:—			
Idiots	1	—	1
Imbeciles	4	4	8
Feeble-minded	1	1	2
Totals	57	65	122

PHYSICAL TRAINING.

I have received the following report for inclusion in the Annual Report from the Organisers of Physical Training:—

A. Physical Education.

Notwithstanding the variable weather conditions, we beg to report that the programme of work in the playgrounds and

playing fields has gone on more or less regularly throughout the year.

The Organisers feel that the majority of Teachers have co-operated with them in trying to inculcate in the scholars under their care, a love of out-door exercise and healthful activity. It is felt, however, that there are cases where the advantage of the time allotted for Physical Education is not used to the maximum value.

This is, without doubt, a very short-sighted policy. In all cases, when and where possible, children should have their physical exercises in the fresh air. Assuming that the Physical Training lessons are adapted in accordance with weather conditions, we think that it is a mistaken idea to "coddle" children suffering from minor colds and ailments. Fresh air is Nature's most powerful antidote against ill-health.

Playground surfaces, in some cases, are not all that could be desired. Children shod in worn footwear need consideration, and it is only these children who should be allowed to remain in classrooms, other than those excused by the School Medical Staff and private practitioners. The importance of developing and fostering the habit of outdoor recreations and wholesome activities for leisure time cannot be over emphasised. If we can produce "active" players by providing games and athletics for all, in order that all may receive benefits, we are thereby developing some of the essential factors which go to make good citizens.

As a general principle, the aim of all teachers responsible for the teaching of games is the maximum good of the greatest number, which implies that all and not the selected few pupils must receive benefits from the special training.

Games showing a wider training of activity and skill have been used as the necessary introduction to the major and national games. The work of the Teachers responsible for this early training is reflected in the higher standard of efficiency of play on the net-ball, football and cricket pitches.

B. Fire Drill.

A very careful investigation was carried out in the early part of the year to ascertain the length of time for the quick and safe exit of children from school buildings in case of emergency. The Organisers are satisfied that responsible teachers have taken extreme care to encourage practice in fire drill.

We ascertained that all school premises were evacuated in a rapid and orderly manner.

A full and detailed report dealing with this matter was submitted to the Education Committee in April, 1930.

C. Swimming.

The swimming groups made good progress during the summer term.

The usual "Breast Stroke" method of teaching was adopted in all cases, because we have yet to be convinced that the "Crawl" stroke should be generally taught to beginners, and we prefer to await the result of further experiments.

The "Breast Stroke Method" is undoubtedly the ideal one for developing important structural muscles, and is, in our opinion, the best method for exercising the thorax and respiratory organs. It is gratifying to find the number learning to swim each year is on the increase. It is to be regretted that larger numbers cannot be sent from the schools. While the number of swimming baths available is so limited, we think that every advantage should be taken of present facilities. Land drill should be practised a great deal more as part of the physical training lesson with every class from which the swimming groups are drawn. The movements are developmental and educative to the non-swimmer as well as to the hopeful member of the swimming section. It is a pleasure to record that teachers responsible for swimming groups in nearly all cases have worked with enthusiasm and genuine keenness.

Swimming forms an important part in the scheme of Physical Education. We desire to state very emphatically that swimming is introduced into the school curriculum not to find possible speed champions, but to give opportunities to every child in the swimming group to learn to swim with a degree of efficiency and style.

D. Swimming Results.

The Lodge Estate Girls' School was successful once again in coming top of the list for the "Helen Caddick" Swimming Shield, and is to be congratulated on its achievement.

Greets Green Boys finished first, and are, therefore, the winners of the "Kenrick" Swimming Shield.

The general standard of efficiency on the boys' side has shown a marked improvement.

The Organisers hope that many of the swimmers from the swimming groups will enter the 1931 competition for the Grade Certificates for distance swimming; but it should be pointed out that all pupils attending the Public Elementary Schools are eligible for these tests for Grade Certificates.

E. Conclusion.

In summing up the year's work, the Organisers would again emphasise the special recommendation mentioned in

Section A, namely, that physical education should be done in the open-air. The Head Teachers' judgment must be exercised as to when weather conditions are suitable. Indoor physical education is, at the best, a poor substitute in crowded and heated classrooms for movement in the fresh air. A few selected exercises can be valuable in correcting postural defects and troubles.

Care must be taken to ensure that children are not exposed to extremes of temperature. Careful use of the classroom ventilators and windows can help to eliminate this danger.

We should like to take this opportunity of expressing our appreciation of the goodwill shown to us by the Director of Education and the Education Committee, and the loyalty and co-operation of the Head Teachers and their Staffs.

WINIFRED V. STEEL.

ALBERT F. PROBST.

(Organisers of Physical Education).

PROVISION OF MEALS.

Seven children resident in West Bromwich attending school in the Birmingham area were fed by the Birmingham Authority continuously throughout the year, your Committee refunding the cost of the meals. No other meals were provided.

CO-OPERATION OF PARENTS.

It is quite apparent that there is an increasing appreciation of the efforts of the School Medical Service for the welfare of the children. The number of parents attending Routine School Medical Inspection and at the Central Clinic is increasing each year. 2,639 parents attended at Routine Medical Inspections. 2,951 attended at the School Clinic without official invitation.

CO-OPERATION OF TEACHERS.

I have again to express my thanks for the co-operation and assistance of the Head Teachers in the work of the School Medical Service. They have helped very materially, devoting much time and taking considerable pains to ensure that all children requiring examination or supervision were brought to our notice, and in supplying information with commendable promptitude relative to cases of Infectious Diseases, Contacts and Suspected Cases. The success of the School Medical Service depends, to a large extent, on the keenness of the Teachers and the encouragement which they give to parents to submit their children for examination, particularly at the School Clinics.

Last year special efforts were made to secure a higher standard of cleanliness amongst children attending the schools, the attainment of which largely depends on the encouragement and efforts on the part of the Teachers, and there is no doubt that the pleasing results obtained in this direction were largely due to the time and efforts devoted to this cause by the teachers themselves.

In the last Annual Report I referred the Head Teachers to the handbook of suggestions on Health Education issued by the Board of Education in 1928. This year I would refer them to the remarks on this subject by Sir George Newman in his Annual Report for the Year 1929, on the Health of the School Child.

CO-OPERATION OF VOLUNTARY BODIES.

Our best thanks are due to Inspector Pine, of the N.S.P.C.C., who has assisted us materially during the year with cases of neglect. Also to the Cinderella Club and the Poor Children's Welfare Society for another year's valuable work. The services rendered by all these Societies calls for admiration of all who participate in the Elementary Education work of the Borough.

CO-OPERATION OF ATTENDANCE OFFICERS.

The Attendance Officers co-operated with the School Medical Officer in the fullest possible manner during the year. Their work of ascertaining and submitting to us cases of long absence from school has helped us to determine a large number of delicate children.

SPECIAL SCHOOLS.

There are no Special Schools belonging to the Authority but a Special Day School for Mentally Defective Children will be commenced in the near future.

Under this heading one might remind the Authority of Open-Air Schools. Certain classrooms at the new school, which is now in course of erection at Charlemont, to some extent have the facility of being converted into open-air classrooms, but this, unfortunately, is limited to one school. The Town possesses many excellent school buildings with good playground accommodation, and it would be a great help, not only to the children, but to the School Medical Service, if open-air classes could be organised—particularly for some of the delicate children attending these schools—whenever weather conditions permit. Such classes do not entail a great deal of expense; simple wooden shelters protected from prevailing winds and erected on the "sun-trap" principle,

would serve the purpose admirably. I draw the Authority's attention to these facts because they are worth their consideration as soon as ever the present financial difficulties improve.

NURSERY SCHOOLS.

There are no Nursery Schools in the area, but the Authority, realising the importance of this work, have decided to commence Nursery Classes in connection with their Infants Departments as soon as possible.

EMPLOYMENT OF CHILDREN AND YOUNG PERSONS.

The following table gives particulars of licences and registrations for the year 1930:—

A.—EMPLOYED CHILDREN (12-14 years).

No. of Registrations :	Boys.	Girls.	Total.
Delivery of Newspapers or Milk ...	79	1	80
Errands and Light Duties ...	39	1	40
Child Performers ...	—	3	3
No. of Licences surrendered :			
Newspapers or Milk Delivery ...	61	1	62
Errands, etc. ...	16	—	16

B.—STREET TRADING BY YOUNG PERSONS.

No. of Licences issued ...	4	—	4
No. of Licences surrendered ...	2	—	2

C.—INVESTIGATING PATROLS.

No. of Patrols undertaken ...	...	...	67
No. of Offences reported ...	...	...	25
No. of Letters (Warning Notices) ...	...	...	19
No. of Offenders interviewed ...	...	...	11

D.—CHILD-PERFORMERS.

The Investigating Officer reported two (2) cases in which the Managers of touring Theatrical Companies had failed to notify the Local Education Authority regarding the employment of child-performers.

At the request of the Director of Education the one child was withdrawn from employment. In the second case, the technical omission was rectified, and afterwards the Medical Officer declared the child fit to perform.

RHEUMATISM.

The Rheumatic Clinic has continued to function every Wednesday morning, and the work undertaken has increased considerably.

Last year I gave an outline of the methods adopted at this Clinic, and will content myself this year in saying that exactly the same procedure has been carried out during 1930.

Owing to the considerable amount of work thrown upon the Health Staff, as a result of the coming into force of the Local Government Act, it was not possible to continue any special investigations into the rheumatic problem, as was our intention; instead, we contented ourselves by making a special effort to discover, as far as possible, all the rheumatic children in the area. It was while making this investigation that your Medical Officers discovered the large number of delicate children which have already been discussed under the proper heading. Although we have discovered many more rheumatics I cannot say that we have yet found all; we are still finding a few cases.

At the end of December the number of cases on the register were grouped as follows:—

A.—RHEUMATISM (includes 2 or more of the following—sore throat, growing pains, nodules, abdominal pains, together with recurrent feverish attacks).	M.	71	
	F.	103	
		—	174
B.—RHEUMATISM AND HEART DISEASE	M.	60	
	F.	63	
		—	123
C.—CHOREA OR ST. VITUS' DANCE	M.	15	
	F.	30	
		—	45
D.—CHOREA AND HEART DISEASE	M.	3	
	F.	4	
		—	7
TOTAL OF RHEUMATIC CASES			349
TOTAL CASES OF HEART DISEASE			127

The incidence of Rheumatism amongst the elementary school children according to these figures is therefore 23.5 per thousand.

STATISTICAL TABLES.

TABLE I.

RETURN OF MEDICAL INSPECTIONS.

A. ROUTINE MEDICAL INSPECTIONS.

Number of Code Group Inspections :—

Entrants	...	...	...	1311
Intermediates	...	...	...	1462
Leavers	...	...	...	1169
				—
TOTAL			...	3942
				—

Number of other Routine Inspections :—

Re-examination of Defects	...			959
				—

B. OTHER INSPECTIONS.

Number of Special Inspections				3037
Number of Re-inspections	...			4660
				—
TOTAL			...	7697
				—

TABLE II.

RETURN OF DEFECTS FOUND IN THE COURSE OF MEDICAL INSPECTION, 1930.

Defect or Disease	Routine Inspections						Specials	
	Entrants		Intermediates		Leavers		For Treatment	For Observation
	For Treatment	For Observation	For Treatment	For Observation	For Treatment	For Observation		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Malnutrition	—	6	—	4	—	1	—	—
Uncleanliness :—								
Head	142	1	171	1	158	—	189	—
Body	—	—	2	—	3	—	1	—
<i>Skin :—</i>								
Ringworm—Head ...	5	—	4	1	2	—	56	—
Body	2	—	1	—	—	—	19	—
Scabies	2	—	1	—	—	—	27	—
Impetigo	7	—	10	—	5	—	109	—
Other Conditions ...	7	1	3	2	10	—	132	5
<i>Eyes :—</i>								
Blepharitis	12	—	10	—	15	—	91	—
Conjunctivitis	2	—	2	—	—	—	101	—
Keratitis	—	—	—	—	—	—	1	—
Corneal Ulceration ...	—	—	1	—	—	—	5	—
Corneal Opacities ...	—	—	—	—	1	—	—	1
Defective Vision	4	—	108	—	165	—	287	—
Squint	26	—	6	—	9	—	56	—
Other Conditions ...	10	1	10	—	2	—	41	2
<i>Ears :—</i>								
Defective Hearing	4	—	4	1	1	1	10	—
Otitis Media	22	—	17	—	14	5	176	2
Other Diseases	14	—	3	—	6	—	92	2
<i>Nose and Throat :—</i>								
Enlarged Tonsils	36	93	27	115	9	124	63	31
Adenoids	—	7	5	7	1	—	5	—
Enlarged Tonsils and Adenoids	4	6	6	9	5	6	79	2
Other Conditions ...	1	5	1	7	3	20	161	14
<i>Enlarged Cervical Glands</i>	2	12	3	27	2	15	30	16
<i>Defective Speech</i>	—	—	—	1	—	—	—	3
<i>Teeth</i>	99	—	94	—	143	—	85	—
Carried forward	401	132	489	175	554	172	1816	78

TABLE II —continued.

Defect or Disease.	Routine Inspections						Specials	
	Entrants		Intermediates		Leavers		For Treatment	For Observation
	For Treatment	For Observation	For Treatment	For Observation	For Treatment	For Observation		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Brought forward ...	401	132	489	175	554	172	1816	78
<i>Heart and Circulation :—</i>								
<i>Heart Disease—</i>								
Organic ...	—	4	1	19	1	15	29	19
Functional ...	1	4	—	13	—	2	—	2
Anaemia ...	—	5	1	2	1	15	15	2
<i>Lungs :—</i>								
Bronchitis ...	12	55	3	24	3	14	45	10
Other Non-tubercular Diseases ...	—	—	—	—	—	—	36	12
<i>Tuberculosis :—</i>								
Pulmonary—Definite ...	1	—	—	—	—	—	—	—
Suspected	—	3	—	—	3	—	—	1
<i>Non-Pulmonary—</i>								
Glands ...	—	—	1	—	—	1	10	1
Spine ...	—	—	—	—	—	—	—	—
Hip ...	—	—	—	—	—	—	2	—
Other Bones ...	—	—	—	—	—	1	—	—
Skin ...	—	—	—	—	—	—	1	—
Other forms ...	—	—	—	—	—	—	—	—
<i>Nervous System :—</i>								
Epilepsy ...	—	1	1	—	—	1	5	5
Chorea ...	—	—	2	—	3	—	19	10
Other Conditions ...	1	—	—	—	—	1	11	6
<i>Deformities :—</i>								
Rickets ...	—	—	—	—	—	4	—	—
Spinal Curvature ...	4	2	9	2	9	3	4	—
Other forms ...	2	3	3	3	1	5	22	2
M.D. ...	—	1	3	5	—	5	—	4
Other Conditions ...	16	12	20	1	21	28	603	162
Totals ...	438	222	533	244	596	267	2618	314

TABLE II—*continued*

B. Number of individual children found at Routine Medical Inspection to require treatment (excluding uncleanness and Dental Diseases).

Group (1)	Number of Children		Percentage of Children found to require treatment (4)
	Inspected (2)	Found to require treatment (3)	
Entrants	1311	173	13.2
Intermediates	1462	224	15.3
Leavers	1169	264	22.5
TOTAL	3942	661	17.1

TABLE III.

NUMERICAL RETURN OF ALL EXCEPTIONAL CHILDREN
IN THE AREA.

			Boys	Girls	Total
Blind (including partially blind)	(1) Suitable for training in a School or Class for the totally Blind	Attending Certified Schools or Classes for the Blind	2	—	2
		Attending Public Elementary Schools	—	—	—
		At other Institutions	—	—	—
		At no School or Institution	—	—	—
	(2) Suitable for training in a School or Class for the partially Blind	Attending Certified Schools or Classes for the Blind	—	—	—
		Attending Public Elementary Schools	3	6	9
		At other Institutions	—	—	—
		At no School or Institution	—	—	—

TABLE III—*continued.*

			Boys	Girls	Total
Deaf (including deaf & dumb and partially deaf)	(1) Suitable for training in a School or Class for the totally Deaf & Dumb	Attending Certified Schools or Classes for the Deaf ...	4	6	10
		Attending Public Elementary Schools	—	—	—
		At other Institutions	—	—	—
		At no School or Institution	—	—	—
	(2) Suitable for training in a School or Class for the partially Deaf	Attending Certified Schools or Classes for the Deaf ...	—	—	—
		Attending Public Elementary Schools	9	5	14
		At other Institutions	—	—	—
		At no School or Institution ...	—	—	—
Mentally Defective	Feeble-minded (cases not notifiable to the Local Con- trol Authority)	Attending Certified Schools for Mentally Defective Children	1	1	2
		Attending Public Elementary Schools	48	58	106
		At other Institutions	—	—	—
		At no School or Institution ...	2	1	3
	Notified to the Local Control Author- ity during the year	Feeble-minded	1	1	2
		Imbeciles	4	4	8
		Idiots	1	—	1
Epileptics	(1) Suffering from severe Epilepsy	Attending Certified Special Schools for Epileptics ...	1	—	1
		In Institutions other than Certi- fied Special Schools ...	—	2	2
		Attending Public Elementary Schools	—	—	—
		At no School or Institution ...	—	1	1
	(2) Suffering from Epilepsy which is not severe	Attending Public Elementary Schools	11	10	21
		At no School or Institution ...	—	—	—

TABLE III.—*continued.*

			Boys	Girls	Total
Physically Defective	(1) Infectious Pulmonary and Glandular Tuberculosis	At Sanatoria or Sanatorium Schools approved by the Ministry of Health or by the Board	—	—	—
		At other Institutions	—	—	—
		At Public Elementary Schools	—	—	—
		At no School or Institution	—	—	—
	(2) Non-Infectious but active Pulmonary and Glandular Tuberculosis	At Sanatoria or Sanatorium Schools approved by the Ministry of Health or the Board	1	—	1
		At Certified Residential Open-Air Schools	—	—	—
		At Certified Day Open-Air Schools	—	—	—
		At Public Elementary Schools	1	5	6
		At other Institutions	—	—	—
		At no School or Institution	—	—	—
	(3) Active Non-Pulmonary Tuberculosis	At Sanatoria or Hospital Schools, approved by the Ministry of Health or by the Board	5	3	8
		At Public Elementary Schools	49	35	84
		At other Institutions	4	2	6
		At no School or Institution	—	1	1
	(4) Delicate Children (<i>e.g.</i> Pre or Latent Tuberculosis, Malnutrition, Debility, Rheumatism, Chorea, Goitre, etc.)	At Certified Residential Open-Air Schools	—	—	—
		At Certified Day Open-Air Schools	—	—	—
		At Public Elementary Schools	234	288	522
		At other Institutions	—	—	—
		At no School or Institution	—	—	—
	(5) Crippled Children (other than those with active Tuberculous disease) children suffering from Paralysis, &c., and including those with severe Heart Disease	At Certified Hospital Schools	—	1	1
At Certified Residential Cripple Schools		—	—	—	
At Certified Day Cripple Schools		—	—	—	
At Public Elementary Schools		120	104	224	
At other Institutions		—	—	—	
	At no School or Institution	6	2	8	
	Rheumatic Children with no apparent Heart involvement (including Chorea and Goitre)	86	171	257	

TABLE IV.

RETURN OF DEFECTS TREATED DURING THE YEAR ENDED 31st DECEMBER, 1930.

TREATMENT TABLE.

GROUP I. Minor Ailments (excluding Uncleanliness).

Defect or Disease (1)	Number of Defects treated, or under treatment during the year.		
	Under the Authority's Scheme (2)	Otherwise (3)	Total. (4)
<i>Skin :—</i>			
Ringworm—Scalp	67	1	68
Ringworm—Body	22	—	22
Scabies	29	—	29
Impetigo	397	1	398
Other Skin Diseases... ..	767	5	772
<i>Minor Eye Defects :—</i>			
External and other, but excluding cases falling in Group II	348	1	349
<i>Minor Ear Defects :—</i>			
	363	4	367
<i>Miscellaneous :—</i>			
Minor injuries, bruises, sores, chilblains, etc.	1196	6	1202
TOTAL	3189	18	3207

GROUP II. Defective Vision and Squint (excluding Minor Eye Defects treated as Minor Ailments, Group I.)

Defect or Disease (1)	Number of Defects dealt with			
	Under the Authority's Scheme (2)	Submitted to refraction by private practitioner or at hospital, apart from the Authority's Scheme (3)	Otherwise (4)	Total (5)
Errors of refraction (including squint). (Operations for Squint should be recorded separately in the body of the Report.)	493	5	—	498
Other Defect or Disease of the eyes (excluding those recorded in Group I) ...	19	—	—	19
TOTAL	512	5	—	517

TABLE IV—*continued.*

Total number of children for whom Spectacles were prescribed.

(a) Under the Authority's Scheme	...	...	397
(b) Otherwise	...	...	5

Total number of children who obtained or received Spectacles.

(a) Under the Authority's Scheme	...	...	388
(b) Otherwise	...	...	5
New frames, repairs, etc.	...	...	113

GROUP III. TREATMENT OF DEFECTS OF NOSE AND THROAT.

Number of Defects

Received Operative Treatment		Total (3)	Received other forms of treatment (4)	Total number treated (5)
Under the Authority's Scheme in Clinic or Hospital (1)	By private Practitioner or Hospital, apart from the Authority's Scheme (2)			
219	12	231	325	556

GROUP IV. TREATMENT OF DENTAL DEFECTS.

(1) Number of children who were:—

(a) Inspected by Dentist	Aged	
	5	—
	6	1078
	7	1362
	8	1380
	9	492
	10	489
Routine Inspections	11	1297
	12	1123
	13	373
	14	—
	TOTAL	7594
	Special Inspections	Nil

(b) Found to require treatment—		
Dentist's Routine Inspections	4362	} 4783
Medical Officers' Routine „	336	
Specials	85	
(c) Actually treated	...	3895
(d) Re-treated during the year as the result of periodical examination	...	367

TABLE IV.—*continued.*

(2)	Half days devoted to—	Inspection	...	122		
		Treatment	...	330	Total	452
(3)	Attendances made by children for treatment					4307
(4)	Fillings	Permanent Teeth	499			
		Temporary Teeth	589	Total	1088	
(5)	Extractions	Permanent Teeth	630			
		Temporary Teeth	5836	Total	6466	
(6)	Administrations of general anaesthetics for extractions					249
(7)	Other operations					941

GROUP V. UNCLEANLINESS AND VERMINOUS CONDITIONS.

(1)	Average number of visits per School made during the year by the School Nurses					3
(2)	Total number of examinations of children in the Schools by School Nurses					47076
(3)	Number of individual children found unclean					2810
(4)	Number of children cleansed under arrangements made by the Local Education Authority					260
(5)	Number of cases in which legal proceedings were taken—					
	(a)	Under the Education Act, 1921	...	...	...	2
	(b)	Under School Attendance Bye-laws	...	...	...	6
	(c)	Under the Children Act, 1908	...	...	...	—

MUNICIPAL SECONDARY SCHOOL.

TABLE V.
RETURN OF DEFECTS FOUND IN THE COURSE OF MEDICAL
INSPECTION, 1930.

Defect or Disease.	Routine Inspections.			
	Boys		Girls	
	Requiring Treatment	For Observation	Requiring Treatment	For Observation
1	2	3	4	5
Malnutrition	—	1	—	—
<i>Uncleanliness</i> :—Head	—	—	—	—
Body	—	—	—	—
<i>Skin</i> :—				
Ringworm—				
Head	—	—	—	—
Body	—	—	—	—
Scabies	—	—	—	—
Impetigo	—	—	—	—
Other Conditions	—	—	—	—
<i>Eyes</i> :—				
Blepharitis	1	—	—	—
Conjunctivitis	—	—	—	—
Corneal Ulceration	—	—	—	—
<i>Defective Vision</i> :—				
6/9	—	—	—	—
6/12—6/24	—	—	7	—
6/36 or over	—	—	1	—
6/36 or over (both eyes)	—	—	—	—
Squint	—	—	—	—
<i>Ears</i> :—				
Defective Hearing	—	—	—	—
O.M.S.	1	—	—	—
Other Diseases	—	—	2	—
<i>Nose and Throat</i> :—				
Enlarged Tonsils	1	3	8	5
Adenoids	—	—	—	—
Enlarged Tonsils & Adenoids	1	—	1	—
Other Conditions	—	1	1	—
<i>Glands</i> —Enlarged Cervical & Submax.	—	—	—	—
<i>Defective Speech</i>	—	—	—	—
<i>Teeth</i>	4	—	6	—
Carried forward	8	5	26	5

TABLE V.—Continued.

Defect or Disease.	Routine Inspections.			
	Boys		Girls	
	Requiring Treatment	For Observation	Requiring Treatment	For Observation
(1)	(2)	(3)	(4)	(5)
Brought forward ...	8	5	26	5
<i>Heart and Circulation :—</i>				
Heart—Organic ...	—	—	—	6
Functional ...	—	—	—	1
Anaemia ...	—	—	—	—
<i>Lungs</i> —Bronchitis ...	1	—	1	1
Other Non-tubercular Diseases ...	—	—	—	—
<i>Tuberculosis :—</i>				
Pulmonary—Definite ...	—	—	—	—
Suspected ...	—	—	—	—
Non-Pulmonary—Glands ...	—	—	—	—
Spine ...	—	—	—	—
Hip ...	—	—	—	—
Other Bones and Joints ...	—	—	—	—
Other ...	—	—	—	—
<i>Nervous System :—</i>				
Subnormal Intelligence ...	—	—	—	—
Epilepsy ...	—	—	—	—
Chorea ...	—	—	—	—
Other Diseases ...	—	—	—	—
Signs of Overstrain ...	—	—	—	—
<i>Deformities :—</i>				
Rickets ...	—	—	—	—
Spinal Curvature ...	—	—	4	—
Other forms ...	1	—	16	2
<i>Other Diseases and Defects :—</i>				
Goitre ...	—	—	1	—
Digestion ...	—	—	—	—
Constipation ...	—	—	—	—
Rheumatism ...	—	—	2	—
Other conditions ...	2	1	—	—
Totals ...	12	6	50	15

Number of Individual Children Examined—Boys 55
Girls 80

KENRICK TECHNICAL COLLEGE.

TABLE VI.

RETURN OF DEFECTS FOUND IN THE COURSE OF
MEDICAL INSPECTION, 1930.

ROUTINE INSPECTION.

Defect or Disease.	Boys (only).	
	Requiring Treatment	For Observation
(1)	(2)	(3)
<i>Malnutrition</i>	—	—
<i>Uncleanliness</i> —Head	—	—
Body	—	—
<i>Skin</i> —	—	—
Ringworm—Head	—	—
Body	—	—
Scabies	—	—
Impetigo	—	—
Other conditions	—	—
<i>Eyes</i> —	—	—
Blepharitis	—	—
Conjunctivitis	—	—
Corneal Ulceration	—	—
<i>Defective Vision</i> —	—	—
6/9	—	—
6/12—6/24	4	—
6/36 or over	—	—
6/36 (both eyes)	—	—
Squint	—	—
<i>Ears</i> —	—	—
Defective Hearing	—	—
O.M.S.	—	—
Other Diseases	—	—
<i>Nose and Throat</i> —	—	—
Enlarged Tonsils	1	—
Adenoids	—	—
Enlarged Tonsils and Adenoids	—	—
Other conditions	—	—
<i>Enlarged Submax. and Cervical Glands</i>	—	—
<i>Defective Speech</i>	—	—
<i>Teeth</i>	12	—
Carried forward	17	Nil

TABLE VI.—*continued.*

ROUTINE INSPECTION.

Defect or Disease.	Boys (only).	
	Requiring Treatment	For Observation
(1)	(2)	(3)
Brought forward	17	Nil
<i>Heart and Circulation—</i>		
Heart—Organic	—	1
Functional	—	—
Anæmia	—	—
<i>Lungs—</i>		
Bronchitis	—	—
Other Non T.B. Disease	—	—
<i>Tuberculosis—</i>		
Pulmonary—		
Definite	—	—
Suspected	—	—
Non-Pulmonary—		
Glands	—	—
Spine	—	—
Hip	—	—
Other Bones and Joints	—	—
Other	—	—
<i>Nervous System—</i>		
Sub-normal Intelligence	—	—
Epilepsy	—	—
Chorea	—	—
Other Disease	—	—
Signs of over-strain	—	—
<i>Deformities—</i>		
Rickets	—	—
Spinal Curvature	—	—
Other Forms	—	—
<i>Other Diseases and Defects—</i>		
Goitre	—	—
Digestion	—	—
Constipation	—	—
Rheumatism	—	—
Other conditions	—	—
Total	17	1

Number of individual children examined—Boys 39.

AC 444 44

THE UNIVERSITY OF CHICAGO

Department of Chemistry

Boyd Hall

Chicago, Illinois

June 10, 1944

Dear Sir:

I have your letter of June 7, 1944, regarding the

loan of the book "The Chemistry of the Carbonium Ion"

to the University of Chicago. The book is on hand

and will be loaned to you as soon as possible.

Very truly yours,

Robert M. Waymouth

Director

Department of Chemistry

Boyd Hall

Chicago, Illinois

Enclosed for you are two copies of the book "The Chemistry of the Carbonium Ion" by R. D. C. Brinkman and J. H. Goldstein, published by Interscience, Inc., New York, N. Y., 1943. The book is on hand and will be loaned to you as soon as possible.

The book is on hand and will be loaned to you as soon as possible.

Very truly yours,

Robert M. Waymouth

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