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COUNTY BOROUGH OF BRIGHTON.



Annual Report

OF THE

MEDICAL OFFICER OF HEALTH

AND

SCHOOL MEDICAL OFFICER

FOR THE YEAR 1911.

DUNCAN FORBES, M.D., B.Sc., D.P.H.

BRIGHTON :

THE SOUTHERN PUBLISHING Co., LTD. 130, NORTH STREET.

Sanitary Committee:

 $\label{eq:Councillor_BURBERRY} \text{ (until Nov., 1911)}. \\ \text{Mr. Councillor YATES.}$

MR.	ALDERMAN	C. THOMAS-STAN	FORD	MR.	COUNCILLOR	PARRY.
	(THE M.			,,	>>	G. PENFOLD.
		N TITCOMB.	Assess I	11	,,,	SKINNER.
MR.	COUNCILLO	OR BLACK (from Nov	.,1911)	**	.,	SONE.
22	,,,	BURBERRY.		12	91	TEASDALE.
13	17	HARDY.		22	9.5	WELLMAN.
22	2.9	HEUN.		2.9	,.	YATES.
		LINTOTT.				

Town Clerk: HUGO TALBOT, Esq.

Adedical Inspection Branch Sub-Committee:

Chairmen MR. COUNCILLOR CAMPBELL (until Nov., 1911).

MR.	COUNCILLOR	CAMPBELL.	MR. COUNCILLOR YATES.
.,	55 -	HARDY	MISS HEATHCOTE.
	,,	SOUTHALL	Mrs GERVIS.
		(from Nov., 1911)	Mr. JOHN CARDEN.
,	,,	STEVENS.	,, LETHBRIDGE.

Staff of the Public Health Department:

JOHN NORRISH (Certif.	San. Institut	e), Assistan	t Inspect	or of Nuisan	ces.
JAMES A. CUCKNEY , (Superintendent of A	battoir).	"	,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
ERNEST E. MILLS (Cert (Inspector under the			Act and	Shop Hours	Act).
FREDERICK BRAYBON	(Certif. San.	Institute),	Assistant	Inspector o	f Nuisances.
JOSEPH WEBB	33	31	33	,,	,,
FREDERICK SALVAGE	33	77	91	31	,,
JOHN SHARP					.,
HARRY NEWMAN			.,		,,
ALFRED WELLSTED	,,	,,	,,	23	,,
JOHN BAKER, Disinfector	r.				
HUBERT W. HEASMAN	, Senior Cler	k.			
CHARLES GREENFIELD	, Second Cler	rk.			
REGINALD GRUTCHFIE	ELD, Junior C	llerk.			

Matron of Sanatorium : Miss RATCLIFF.

Bouse Physician and Deputy to Medical Officer of Bealth:

R. M. COURTAULD, M.A., M.B., B.C., D.P.H. (to July, 1911). HENRY P. NEWSHOLME, M.B., B.Ch., M.R.C.P., D.P.H.

Chief Inspector of Muisances:

JAMES F. SKINNER (Certif. San. Institute).

School Medical Staff and Health Visitor:

NURSE HENSON. | NURSE RICHNELL. | NURSE BOWEN.
MISS CAMPBELL, Clerk. MISS LAWRENCE, Clerk.

School Doctor: J. LAMBERT, M.D., M.A., D.P.H.

Medical Officer of Health and School Medical Officer:

DUNCAN FORBES, M.D., B.Sc., D.P.H.

PREFACE.

TOWN HALL, BRIGHTON.

April 26th, 1912.

To the Brighton Town Council.

GENTLEMEN,-

I beg to present herewith my Report on the work of the past year.

At the end of this, my fourth year of office, I wish to acknowledge the constant and assiduous help which I have received from the members of the Sanitary Staff, of the School Medical Staff, and from the Matron and Staff at the Sanatorium. I have also to thank the members of the Sanitary Committee and the Elementary Schools Sub-Committee for the time and attention which they have devoted to the important work of my Department.

I am, Gentlemen,

Yours obediently,

DUNCAN FORBES,

Medical Officer of Health and School Medical Officer.

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VITAL STATISTICS.

POPULATION.

The estimated population of the County Borough of Brighton at the middle of 1911 was 131,444.

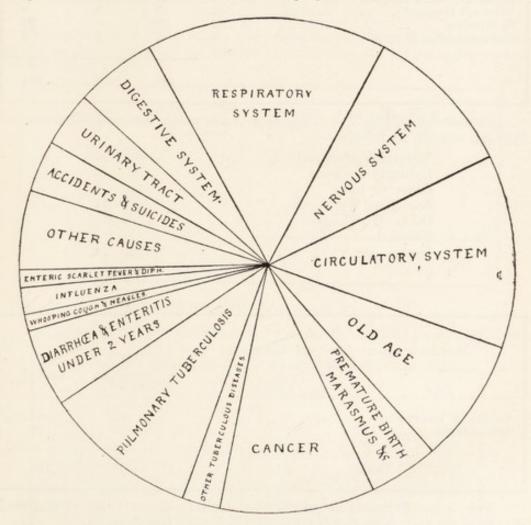
BIRTHS.

The total number of births belonging to Brighton* registered in the 52 weeks ending the 30th December, 1911, was 2,603, 1,315 of boys and 1,288 of girls. This is equivalent to a birth rate of 19.8 per 1,000 inhabitants.

Of the births, 192 were illegitimate children, forming 7.3 per cent. of the total births. Of 30 births occurring in the Workhouse, 27 were of illegitimate children.

DEATHS.

Last year, 1,835 deaths from all causes were registered as belonging to Brighton; all of these were certified. The proportion of deaths from the



^{*} The number of births registered in the Borough was 2,584, 1,309 of boys and 1,275 of girls. The inward transfers numbered 26, of whom 16 were illegitimates; the outward transfers were 7, all of whom were legitimate children. This is the first year that births have been made transferable. The change has added to our illegitimate birth-rate.

principal causes is shewn diagrammatically on page 5. Exact information can be had by consulting Table IV., page 59. On comparing the number of deaths from various causes during 1910 and 1911, it is found that in the latter year there has been an increase in the number of deaths from diarrhoa and pulmonary tuberculosis, but a marked decrease of deaths from measles. The death rate was 13.96.

Table I., page 56, shews the birth and death rates of Brighton from 1900—1910. • Table II. gives the more important causes of death for each Ward.

DEATHS IN PUBLIC INSTITUTIONS.

The following table shews the return for 1911:-

			Residents.	Non- residents.	Total.
Workhouse	 	 	278	3	281
Royal Sussex County Hospital	***	 	127	77	204
T) 1 41 1 TT 1 1	 	 	43	17	60
Women's Hospital	 	 	5	3	8
Sanatorium	 	 	27	_	8 27
Throat and Ear Hospital	 	 	-	2	2
			480	102	- 582

The number of Brighton residents dying in public institutions outside the Borough was 89, as follows:—

Brighton Cour		ugh /	Asylum			59
Hellingly Asy			***			2
Other Asylum						3
Shoreham Wo			***		***	14
Other Workh						2
Hospitals		***				5
Homes, etc.	***		***	***		4
						89

Residents absent	Transfers.				
Br	ighton.			Outwards.	Inwards.
Deaths in Institutions Other deaths		 	 	102 71	89 24
Totals		 	 . 43.4	173	113

This is the first year in which the Registrar-General has transferred deaths of all visitors to the districts in which they usually reside.

INFANTILE MORTALITY.

Once more the infantile mortality has fallen under 100 per 1,000.

The following table gives the figures over a series of years:-

1890	 164		1900		166
1891	 137		1901		162
1892	 151		1902		125
1893	 169		1903		114
1894	 137		1904	***	133
1895	 164	***	1905		102
1896	 124		1906		111
1897	 144		1907		111
1898	 179		1908		104
1899	 173		1909		95
			1910		111
			1911		98

Of the total deaths under one year, 28 were of illegitimate babies. Stated in terms of births, this implies that the infantile mortality among illegitimate babies is 146 as compared with 94 per 1,000 among babies born in wedlock. The chief causes of infant mortality are given in Table III., page 58.

STILL BIRTHS.

Owing to the courtesy of the Secretaries of the three Cemeteries, I am enabled to give a record of the number of still-births and by whom they were certified before burial.

Certified by	Brighton and Preston Cemetery.	Parochial Cemetery.	Extra Mural Cemetery.	TOTAL.
Doctors Midwives Coroner	 21 17 1	8 9 5	39 3	68 26 9
	39	22	42	103

NOTIFICATIONS OF BIRTHS.

The following table shews the number of births notified since July 1st, 1909:—

Notified by	*	July—Dec.	1910.	1911.
Doctor		226	389	416
Midwife		842	1749	1670
Parent		89	137	168
Doctor and Midwife		10	7	10
Doctor and Parent		9	4	11
Midwife and Parent		20	5	
Other relative		2	1	9
Taken from death returns		1	3	-
Total (Births		1149	2216	2223
Total Births Still-births		50	79	61

Of the number of notifications received during 1911, 69 were sent only after the issue of a circular letter pointing out that notification was required by the Act. Up to the present no one has refused to notify after they were told of their obligation to do so.

Over 80 per cent. of births are notified apart from direction from this office.

THE FEEDING OF INFANTS

Of 465 children visited when six months old, it was found that

77 per cent. were still being breast fed;

10 per cent. had both breast and bottle;

13 per cent. were entirely weaned.

That 77 per cent. of infants of the poorest families in Brighton are breast fed at six months of age is very satisfactory, as in such families the mother is at times the wage earner, and for that reason has to wean early.

REASONS FOR WEANING BEFORE THE AGE OF SIX MONTHS.

74 were weaned because the milk "went";

20 because the mother was delicate;

14 because the mother had to go to work; and

5 because the baby was not getting on well.

113

115 babies were partially breast fed;

44 because the baby was said not to be satisfied;

26 because the mother had not sufficient milk;

11 because the mother or child was delicate.

THE ADVANTAGE OF BREAST FEEDING.

Of 260 children weighed when six months old, the average weight

of 192 entirely suckled was 16.6 lbs.;

of 29 breast and bottle fed, 14.8 lbs.;

of 39 entirely weaned, 13.6 lbs.

THE LONG TUBE BOTTLE.

Of bottle-fed children,

21 had long-tube bottles; 130 had bottles with teats; and

17 were fed with a spoon.

THE EMPLOYMENT OF MOTHERS.

The employment of 1,128 mothers visited:—

968 worked at home; of these 950 did their own housework;

4 took in dressmaking;

12 minded the shop, and

2 did laundry work at home.

160 went out to work; of these 80 worked in laundries;

53 were charwomen;

9 were in service;

13 were hawkers, and

5 were in shops.

THE MOTHERS' WELCOME.

In November, 1910, at the instance of the Committee of the Crèche, a Mothers' Welcome was started at the Pelham Institute. Fourteen mothers are at present attending regularly. All the babies are weighed, and afterwards the mothers have tea. Dr. Lilian Clifton Harris kindly attends and advises the mothers as to their own and their infants' health. Several ladies during last year have kindly given short addresses to the mothers. Mrs. Hazelfoot, the Treasurer of the Crèche, has given a quantity of children's clothes, which have been sold to the mothers for a nominal sum. The Matron of the Crèche, and the Health Visitor, will welcome any ladies who are interested in this work at the Meetings, which take place on alternate Thursday afternoons, at 3.30 p.m.

THE FEEDING OF MOTHERS.

The feeding of nursing mothers was continued for four months during 1911, 789 dinners being given at the cost of 4d. each, which amounted to a total cost of £13 3s.

THE CRÈCHE

The Crèche is a charitable institution, which provides a day nursery for the children of working mothers. During 1911 the average daily attendance was twenty-seven. A few of the regulations taken from page 12 of the Annual Report are given below.

- Hours and Days of Attendance.—From 8 a.m. till 8 p.m. every day, except Saturdays, when the Nursery closes at 2, and Sundays, when it is not opened at all.
- Rules for Admission.—Forms are given at the Nursery on application, to be filled in by a Medical Man, certifying that the child is free from any infectious or contagious disease.
- PAYMENTS.—The Mothers pay 4d. a day for one child, 3d. a day each for two of the same family, and 8d. for three.
- Ages.—The children are received from three weeks to seven years old.
- REQUIREMENTS.—That the Mother shall be obliged to go out to work in order to provide for her family; that the children shall come decently clean; that they shall be fetched not later than 8 o'clock; and that they shall be brought regularly if the Mothers are in continuous employment.
- Food.—The food consists of Oatmeal, Milk, Sago, Rice, Bread and Butter (or Dripping), Treacle, Light Puddings, Broth with Vegetables, Minced Meat, and various Foods for Infants.
- Maternity Baskets.—Maternity Baskets are kept for lending. These are supplied with everything requisite for a mother and infant for the first month. Early application must be made for these, and they may be sent for a few days before required.

A new Crèche will be opened shortly in the Lewes Road.

LECTURES ON MOTHERCRAFT.

These Lectures are held at the Municipal Technical College, and all church workers and others interested would do well to attend them. The particulars are given below:—

1.—Lecturers' names	Miss Martindale, M.D., B.S. (Lond.).
2.—Duration of Course	Miss A. Palmer, M.R.San.Inst.
2.—Duration of Course	Sixteen weeks, for 14 hours per week, commencing usually in the last week in
	September.
3.—Fee	2s. 6d.

Further information can be had from Dr. W. B. Burnie, the Principal of the Technical College.

INFANT LIFE PROTECTION.

In the parishes of Brighton and Preston there are some 191 children under the age of seven years who are being boarded for reward. This part of the Children Act is administered by the Guardians, and their officers, Mr. G. Clifford and Mr. Bramwell, report that all these children are well cared for.

THE MIDWIVES' ACT, 1902.

According to the register there were 25 midwives in private practice; all of these have been visited at their homes. The particulars regarding the conduct of practice of these are given below. In obtaining this and other information 120 visits were paid.

Year.	196	09.	19	10.	19	11.
	Yes.	No.	Yes.	No.	Yes.	No.
Illiterate	6	19	8	18	8	17
Registers properly kept	19	6	21	5	21	
Bags with washable linings	19	6	25	1	25	
Washable dresses	25	_	26	-	25	
Douche cans	4		5		3	-
Higginson's syringes Same syringe* for vaginal douching	21	-	25	-	22	4
and the giving of enemata Pulse and temperature taken regu-	14	-	1	-	-	-
larly Pulse and temperature if think	9	-	13	-	16	-
necessary	7	_	8		-	*****
Temperature only taken	5	-	1	-	4	_
Pulse only taken	1	-	_	-	_	-
Neither pulse nor temperature taken	3	_	4	_	5	_

^{*} Different nozzles are always used.

As many as 1,164 deliveries of living children were attended in or from the Women's Hospital, West Street, or its branches, during 1911. Of this number 979 belonged to Brighton. The staff consists of the Matron, Miss Blott, and six midwives; five of the latter are allocated to districts in Brighton.

This hospital is one of the institutions approved as training schools under Section C of the Rules of the Central Midwives Board. During 1911, 57 midwives were trained at the Institution, and 54 of these obtained the certificate of the Central Midwives Board.

Number of cases occurring in 1911, in which the Midwife advised that a Registered Medical Practitioner should be sent for (Rule E. 18).

Medical aid called causes, a						g	Private Cases.	Outside Cases in connection with Women's Hospital West Street
Pregnancy—								
6 Al							_	1
Ante-Partum							-	7
Labour-								
	(Prola	apse o	of Cord				-	1
	Face						-	2
Presentation -	Tran						1	1
	Impa	icted	and B	reech	***		-	2 8 30
		ructe	d Labo	ur			3	8
Delay in Labo	our			***	***		2	30
Retention of	Place	enta					3 2 2 1	_
Trouble of the	Mem	bran	es					6
Rupture of P	ermeu	m					3	31
Post Partum	Hæmo	rrhag	ge	***	***		_	1
Lying-in Period-								
Rise of Temp				***			2	8
Other reasons	conne	ected	with n	nother			4	6
Condition of Infan	<i>t</i> —							
Weakly Infan	t	***		***			1	12
Still Births .				***			5	12
Premature Bi				***			5	5
Conjunctivitis	5		100	***	***		1	1
				Tota	ls		30	140
				Total	ls, 1910		24	151

PUERPERAL FEVER.

During the year 9 cases of Puerperal Fever were notified. The table given below records the more important points regarding these cases.

No. in Register.	Age.	Midwife.	Doctor.	No. of Previous Labours.	Removed to Public Institution.	Remarks.
1	35	X.S.	-	4	No.	Doctor's note, Retained Secundines.
2	22	_	C.	1	No.	Husband had Erysipelas. The Erysipelas and the Puerperal Fever de- veloped on the same day.
3	31	X.	_	2	Infirmary.	Died.
4	24	_	C.	0	No.	Illegitimate.
5	39	N.	_	5	No.	Died.
6	23	D.	_	0	Infirmary.	
7	27	N.	-	1	Infirmary.	
8	25	_	T.	0	No.	Died.
9	35	_	G.	2	Yes.	Died.

NOTIFICATION OF INFECTIOUS DISEASES.

The number of cases of infectious diseases, excluding pulmonary tuberculosis, notified during 1911 was:—Diphtheria, 155; scarlet fever, 383; enteric fever, 26; erysipelas, 92; puerperal fever, 9.

Three cases of puerperal septicæmia, 1 of diphtheria, and 3 of erysipelas were notified severally by two doctors.

The cases notified are classified according to age and ward in Table V., page 66.

The total number of notifications (including 20 notified by the Medical Officer of Health) was 672, as compared with 432 in 1910. Of the total, 150 occurred in public medical practice, while 502 occurred in private medical practice.

SCARLET FEVER.

The incidence of scarlet fever since notification came into operation is shewn in the following table:—

			Per 100,000 of population.		
	Number of cases.	Number of deaths.	Number of cases.	Number of deaths.	Number of deaths per 100 cases notified.
1892-01	378	7.6	315	6.3	2.0
(average)	146	3	117	2.4	2.1
1903	195	_	156	_	
1904	172	2	137	1.6	1.1
1905	206	1	163	0.8	0.5
1906	225	2	176	1.6	0.9
1907	230	-	179	_	-
1908	287	2	222	1.5	0.9
1909	330	2 8 5	254	6.1	2.4
1910	163		125	3.8	3.1
1911	383	9	291	6.8	2.3

Of the 383 notified cases, 340, or 88.8 per cent., were treated in the Sanatorium, as compared with 85.9 per cent. in 1910.

Schools :-

27	School	Departments	had	0 c	ases.
14	,,	,,	,,	1	,,
7	,,	,,	,,	2	> 2
11	,,	,,	,,	3	,,
8	,,,	,,	2.5	4	,,
4	,,,	,,	,,	5	,,
4 5 2 1	,,	,,	,,	6	,,
2	,,	,,	,,	7	,,
1	,,	,,	,,	9	,,
1	,,	,,		12	,,
1	11	,,		9	
1	,,	,,		20	,,

School children suffering from scarlet fever were absent from school on 8,349 school days.

In addition, contacts were absent from school 1,966 school days.

14

DIPHTHERIA.

The incidence of diphtheria in Brighton has continued low during 1911.

	Number of cases.	Number of deaths.	Number of cases per 100,000 of population.	Number of deaths per 100,000 of population.	Case-mortality. Number of deaths per 100 cases notified.
1892-01	340	35.5	283	29.5	10.5
(average) 1902	437	36	351	29.0	8.3
1903	410	32	328	25.6	7.8
1904	269	16	214	12.7	6.0
1905	223	5	176	3.9	2.2
1906	231	13	181	10.2	5.6
1907	266	14	207	11.0	5.3
1908	212	9	164	7.0	4.3
1909	240	19	185	14.6	7.9
1910	151	2	116	2.0	1.3
1911	155	11	118 .	8.4	7.1

Schools:-

39 School Departments had 0 cases.

	MARKO OF	To chest carreston	****	740	-
25	,,	,,	3.5	1	,,
11	,,	,,	,,	2	,,
2	,,	,,	,,		,,
1	,,	,,	,,	4	,,
2	,,,	,,	,,	5	,,
1	,,	,,	,,	6	,,
1				13	

School children suffering from diphtheria were absent from school on 3,295 school days. In addition, contacts were absent from school 2,155 school days.

During 1911, and the first quarter of 1912, careful examinations for the discovery of cases of fibrinous rhinitis have been made in five instances in classes or departments in schools in which diphtheria has occurred.

Infant Schools.	Number of cases of faucial diphtheria.	Approximate number of children examined.	Cases of fibrinous rhinitis discovered,	Cases of sore nose with positive swabs.	All apparently healthy.
Pelham Street (Class IV.) Pelham Street (Class V.) Hollingdean Road Crown Street Lewes Road (January, 1912)	 4 1 2 2 1	60 50 250 50 150] - 2 - 3 - 3 - 3 - 1	_ _ _	1 case of ear discharge
St. John the Baptist	 1	90	1	_	diphtheroid bacilli.

Some writers hold that fibrinous rhinitis rarely gives rise to cases of faucial diphtheria, and it is only by the accumulation of a great mass of evidence that such a theory can be proved or disproved. Personally, I regard fibrinous rhinitis as the principal individual cause of the spread of diphtheria in schools.

The virulence of the diphtheria bacilli was tested in three of the cases mentioned above, and in each instance they proved lethal to guinea pigs.

In one instance during the year a brother and sister were admitted to the Infectious Disease Hospital suffering from faucial diphtheria. The brother was admitted on the sixth day of the disease and having been a mild case received no antitoxin. Later he developed a profuse nasal discharge along with typical fibrinous rhinitis. This case goes far to prove that faucial diphtheria and fibrinous rhinitis are one and the same disease, as at the time of development of the fibrinous rhinitis there was no similar case in the same wards.

Fibrinous rhinitis is easily recognised, and cases are unlikely to be missed, even in a hurried examination, if the children are examined in a good light. Usually a white membrane is seen on the septum. The membrane is not easily detached, seeming to be incorporated with the mucous membrane. Whitish crusts can usually be separated easily as a whole, without giving rise to bleeding, but when the white membrane of fibrinous rhinitis is rubbed only tiny shreds are removed, and a bleeding raw surface is left. In short, the crust can be removed from the mucous membrane, leaving the latter, it may be, reddened but intact; whilst in trying to remove the membrane of fibrinous rhinitis we remove the altered mucous membrane of which the membrane of fibrinous rhinitis partly consists, and consequently have a raw surface left. The white membrane, the readiness with which it bleeds, the commonly associated irritating nasal discharge, all enable one to at once diagnose this condition. A class of sixty can easily be examined in ten minutes, so that if I am correct in my assertion that fibrinous rhinitis is the principal individual cause of the spread of diphtheria in schools, no medical officer should neglect to examine scholars in any class in which a case of diphtheria has occurred.

Having isolated the case of fibrinous rhinitis in hospital, great difficulty will usually be met with in effecting a cure. An autogenous vaccine in three of our cases quickly led to the disappearance of the membrane, but for some time thereafter the nasal discharge remained positive. Recently the preparation pyocyanase has been used; although not so immediately effective as the vaccine, under its influence the membrane disappeared in two cases.

ENTERIC FEVER.

The incidence of enteric fever, since notification came into operation, is shewn in the following table:—

	Number of cases.	Number of deaths.	Number of notified cases per 100,000 of population.	Number of deaths per 100,000 of population.	Number of deaths per 100 cases notified.
1892—1901 (average)	98.5	14.4	82	12	14.6
1902	65	14	52	11.3	21.5
1903	39	4	31	3.2	10.3
1904	34	7	27	5.6	20.6
1905	34	2	27	1.6	5.9
1906	22	3	17	2.4	13.6
1907	24	3	19	2.3	12.5
1908	28	5	22	3.9	17.2
1909	29	6	22	4.6	27.3
1910	38	10	29	7.7	26.3
1911	26	2	20	1.5	7.7

Of 26 cases, six proved not to be typhoid.

The probable causes of the remaining twenty are noted below :-

Direct conta	ct with kn	own o	r over	looked c	ases	3
Direct conta	ct with an	ascer	tained	carrier		1
Oysters				***		3
Mussels					***	2
Imported						3
Not traced						.8

A CARRIER CASE OF ENTERIC FEVER, AGED 69.

The household consisted of an old lady, the carrier case, a female companion, and a servant.

The first case of typhoid occurred in a servant aged 31; the date of onset was October 21st, 1909. So far as it can be ascertained, no further case occurred until this year. A grand-daughter paid a visit to this town and stayed with the carrier case from the 9th to the 20th of February. She then left for London where she sickened with enteric fever on the 3rd of March. Towards the end of June, a servant girl, aged 16, was taken ill. She did not consult a doctor before leaving for her home in the country on the 1st of July. She died from typhoid fever on the 3rd of August.

On inquiry it was found that the only person who had been in contact with all these cases of typhoid fever was the lady of the house.

To make sure that she was a carrier it was necessary to obtain a specimen of the faeces. This delicate task was accomplished by the private medical attendant. Only a small amount of faeces and urine were required, and these were obtained in diphtheria outfits. The faeces were found to contain large numbers of bacillus typhosus. Unfortunately it was impossible to obtain a specimen of blood.

The carrier case is apparently in good health. Her doctor, who has been in attendance for some ten years, reports that she suffers at times from diarrhœa, but that she has had no illness resembling typhoid fever. Her son writes that during the last thirty-five years neither his mother, father, nor any of their five children have had enteric fever; all the family remain healthy except the father, who died thirteen years ago from pneumonia.

DIARRHŒA.

In the following Table the deaths in children under 1 year of age from diarrhœa are given in terms of the births.

	From Diarrhœa.		From Diarrhea.	From Diarrhoea and Enteritis.
	Deaths per 1,000 Births.		Deaths per 1,000 Births.	Deaths per 1,000 Births.
1897	25	1903	14	21
1898	33	1904	14	22
1899	49	1905	11	18
1900	24	1906	17	23
1901	23	1907	12	21
1902	12	1908	8	13
		1909	6	10
		1910	10	16
		1911	25	30

The diarrheal death-rate in Brighton is very low when compared with that of other towns. Comparisons of the death-rate per 1,000 for the third quarter are given below.

1 .- Brighton compared with the 77 Great Towns.

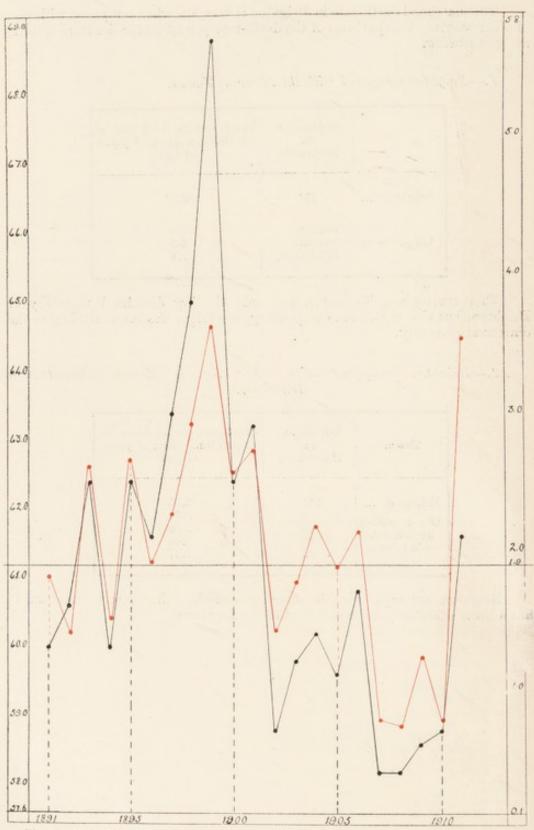
	Population in thousands.	Death-rate for third quarter of children under 2 years of age.
Brighton	131	2.35
Large towns	100-150 150-300 300 & over.	3.9 4.9 5.0

This comparison illustrates, not only the low diarrheal mortality of Brighton, but also that, broadly speaking, the larger the town, the higher the diarrheal mortality.

2.—Brighton compared with other Seaside Resorts (Registration Districts).

Town.	Population in thousands.	Death-rate for third quarter of children under 2 years of age.
Brighton	131 52	2.35 2.54
Other well- known sea- side resorts	40 63	2.59 3.04
side resorts	32	3.47

Brighton, although twice the size of any of the other resorts mentioned, has a lower diarrheal death-rate for the third quarter.



The red line = Mean Temperatures The black line = Mortality from Diarrhoea $\Big\}$ in the third quarters of each year.

MEAN TEMPERATURE FOR THIRD QUARTERS.

The following table, and also the diagram on page 18, shew the close relationship between the average temperatures for the third quarter, and the death-rate from diarrhœa.

Third Quarter of the years.	Mean Temperature.	Earth Temperature at four feet.	Diarrhea and Simple Cholera mortality. Annual rate (third quarter) per 1,000 living.
1891	61.0	_	1.3
1892	60.2		1.6
1893	62.6	61.0	2.5
1894	60.4	59.6	1.3
1895	62.7	60.2	2.5
1896	61.2	60.3	2.1
1897	61.9	60.5	3.0
1898	63.2	60.6	3.8
1899	64.6	64.0	5.8
1900	62.5	62.1	2.5
1901	62.8	62.1	2.9
1902	60.2	60.2	0.7
1903	60.9	61.5	1.2
1904	61.7	62.0	1.4
1905	61.1	62.0	1.1
1906	61.6	61.7	1.7
1907	58.9	59.7	0.4
1908	58.8	60.8	0.4
1909	59.8	60.1	0.6
1910	58.9	60.2	0.7
Mean	61.2	61.0	1.9
1911	64.4	64.6	2.35

The diarrheal death-rate for the third quarter of 1911 is very low, if one takes into consideration the hot and dry summer. The Chart on page 18 shews graphically that the diarrheal death-rate varies with the mean temperature. The mean temperature for the third quarter of 1911 was 64.4, and the death-rate 2.1; the mean temperature for the third quarter of 1899 was 64.6, and the death-rate 5.8. This shews a very marked improvement. On our present population, a death-rate for one quarter of 5.8 represents 191 deaths, whilst a death-rate of 2.1 represents 69 deaths. According to this calculation there has been a saving of 122 lives in the third quarter. This reduction of mortality is due to:—

- Improved treatment of the disease;
- 2.—Improved sanitation, both personal and municipal;
- Increased knowledge† as to how to avoid infection.

1.—Improved Treatment.—The following is an extract from a letter from Dr. Powell, a general practitioner in Brighton:—

"I am sure that during the last ten years a great advance in the treatment of Infantile Diarrhoea has taken place, which must have had a marked influence upon the mortality as compared with previous periods, and may date from the time when milk, with its toxin-forming residue, ceased to be recommended as a food in these cases, and elimination, starvation, and warmth with infusions became the rationale of treatment."

[†]An addressed circular letter on the prevention of diarrhœa was sent early in August to each house in which a birth had occurred during the previous twelve months.

The sanitary officials, the health visitors, the church workers, by their teaching and their assistance, have done much to prevent attacks of diarrhea and to render the population more resistant to attack, but the fall in the diarrheal death-rate amongst infants must also be in part attributed to the improved treatment of this disease by the medical practitioner. The particularly low death-rate in Brighton, compared with other towns, may in a measure be due to the easy access the Brighton poor have to hospitals and dispensaries. On inquiry I find that, of patients under two years of age, 364 were treated at the out-patients' departments of the Alexandra and Sussex County Hospitals, and large numbers were treated from the various Dispensaries

INSTITUTIONAL TREATMENT OF CHILDREN UNDER TWO YEARS OF AGE.

- 65 were admitted to the Sick Children's Hospital from Brighton, each patient remaining on an average for 15 days; 10 of these died.
- 5 were admitted to the Royal Sussex County Hospital from Brighton, each patient remaining on an average for 15 days; 3 of these died.
- 11 emaciated children were admitted to the Sanatorium, each patient remaining on an average some 8 weeks; one of these, an infant 3 months old, and weighing 6½lbs. on admission, died.

WHY EMACIATED INFANTS WERE ADMITTED TO THE SANATORIUM.

It is well-known that the mortality is very great amongst artificially fed delicate children during the diarrheal season; admission to the Sanatorium was therefore offered to all emaciated infants. It is impossible for a mother of the working class, however well informed and however careful, to give these children the attention required. There is much talk of the ignorance of mothers, and everyone is agreed that ignorant mothers should be taught, but there is now, for Charity or for the State, another obvious duty which is to help the overburdened mother in the actual work of rearing her infants.

The infants admitted to the Sanatorium, were admitted not chiefly because of diarrhea, but because of their emaciated condition. They were all kept until the end of the diarrhea season and until they began to shew marked improvement. It was observed that after any change from one milk food to another milk food the infants lost weight for a time, whatever the ultimate effect of the change. This seems to prove that it is dangerous to repeatedly change the food of an infant whilst it is in poor condition. It is often advisable to change the food of a child which is not thriving, but the new food should be persevered with although for the first week the child's weight continues to fall; later the child may do quite well on the new food.

RISE IN TEMPERATURE AND DIARRHEAL INCIDENCE.

From the following table it would appear that the increase in diarrhœa follows immediately on the increase of mean temperature in the shade.

							1	VE	KS	ENI	DING					
	9	y		Aug	gust			Sep	tem	ber			Oct	ober		4.7
	June	July	5	12	19	26	2	9	16	23	30	7	14	21	28	Nov.
Total of out-patients and in- patients under 2 treated at the Sussex County and Children's Hospitals for diarrhea	7	18	15	33	68	69	65	53	27	30	18	12	8	5	2	***
Mean temperature obtained from maximum and mini- mum temperatures in the shade	59	65	65	•71	69	65	64	66	63	56	58	50	54	58	51	49

^{*} The means for each day of this week were 63, 68, 67, 72, 76, 74, 78. The last half of the week was the warmer.

The reasons one would suggest for the increases not being simultaneous are:—

- 1.—That foodstuffs take time to decompose;
- 2.—That diarrhœa takes time to develop;
- 3.—That in this particular instance, the very warm weather began in the middle of the week, ending on the 12th.

After the epidemic has started, it is probable that the prime factor causing the spread of the disease is direct personal infection. Enteric fever has been proved to be spread to a considerable extent by carrier cases, and there are interesting records in which cooks have been proved to be the carriers. The infection in diarrhoea is likely to be carried in the same way as the infection in enteric fever. The food of infants is particularly liable to contamination by the cook—in this instance the mother. For instance many mothers test the temperature of the milk with their fingers. Apart from infection by food, however, foolish persons persist in putting their fingers into infants' mouths. Under such favourable conditions for the spread of infection one cannot be surprised that, during the season when many adults suffer from diarrhoea, many infants are infected. In every case of death from diarrhoea the house was visited, and in many instances it was found that other members of the family suffered from diarrhoea immediately before or after the infant; this points to the readiness with which the disease may be carried by direct personal contact.

FEEDING AND DIARRHŒA.

	I.	II. Method of	III. Children attacked	IV.	V.	VI. Figures
	Number visited.	feeding. Per- centage of total.	with	Diarrhœa attack rate (see col. III.)	Deaths from Diarrhœa.	shewing compara- tive risk of death from diarrheea.
Breast Fed	473	76	24	5	6	- 1
Breast and Cows' or Condensed	32	5	10	31	3	10
Cows'	76		23	30	25	33
Condensed	43	12 7	19	44	19	44
Total	624	100	76	_	53	_

This table refers to infants under 9 months of age who belong to the poorest families in Brighton.

Columns 1 and 2 shew how 624 children were fed during August. It is satisfactory to find that 76 per cent. of the poorest children were being entirely breast fed, and another 5 per cent. were being partially breast fed, at the time of the inspector's visit.

Columns 3 and 4 shew the number of attacks of diarrhea occurring amongst these children. The 624 children were visited during the 3rd week in August, and a note was made of recent attacks of diarrhea. As many as 5 per cent. of the entirely breast-fed children had been attacked.

Column 5 shews the number of deaths from diarrhœa during 1911 .

Column 6 shews the comparative risk of death from diarrhœa of infants fed in the various ways mentioned. Judging from these figures, it would appear that an infant fed on cows' milk is 33 times more likely to die from diarrhœa than a breast-fed infant. This is probably an over-statement of the danger of cows' milk, as many delicate children who do not thrive on breast milk are weaned and are given cows' or condensed milk; naturally this makes the comparison unfavourable to cows' and condensed milk, as there can be no balancing transfer from cows' and condensed milk to breast feeding. Although the figures in Column 6 are fallacious, there is no doubt that breast feeding lessens the number of attacks of diarrhœa, and also enables an infant attacked to more readily overcome the disease.

MEASLES.

During 1911 measles was the cause of 8 deaths. The epidemic of 1910 finished early in the year. The table given below shews the complete statistical history for 1910 and 1911. The table was commented upon in the report for 1910.

Statistics regarding 2,476 cases of Measles which occurred during 1910 11.

		Months.	ths.			1		-	Voors	2				I
		- VI							7.00	6				
	0.3	3-6	6-9	9-12	1-2	2.3	3-4	4-5	5-6	6.7	-1.00	8-8	9-10	10 and over.
Children who were attacked. (a) Primary cases in homes (b) Secondary cases	01 01	11	10 10	4 4	22	981	79	214	392	349	191	52	9.6	19
Children who were not attacked. (a) With a history of Measles (b) With no such history	1 15	35	31	10	36	80 8	88	35	. 85 g	96	132	162	154	848
Percentage of susceptible* children exposed who were attacked	4	33	53	80	65	98	88	91	88	88	28	78	29	64
Group A. School notifications and other cases occurring in the same houses	4	17	98	1 2	187	207	242	355	501	430	924	102	98	88
Deaths occurring in Group A	1	-	1	01	19	12	6	1	7	63	1	1	1	1
Death-rate per 100 in Group A		00			10	9	4		1.0	1)
				9.0	2 equals case mortality at all ages in Group A.	se moi	tality	at all a	ges in (dnose	4.			
Deaths for 9 years, 1903-11	-)	+	40	1	87	48	27	15			26	9		
		4	45											1

* Children with no history of an attack.

WHOOPING COUGH.

The number of deaths from whooping cough was 16; 55 cases were notified, chiefly from Schools. Of these 5 occurred under 1 year of age, 5 aged 1—2, 2 aged 2—3, 6 aged 3—4, 3 aged 4—5, 17 aged 5—6, 9 aged 6—7, 5 aged 7—8, and 3 aged 7—9.

Annual death-rates from Measles and Whooping Cough:-

	MEA	SLES.	WHOOPIN	IG COUGH.
Year.	Number of deaths.	Number of deaths per 100,000 of population.	Number of deaths.	Number of deaths per 100,000 of population.
1892-1901	_	34	_	24
(average) 1902	30 %	24	28	- 23
1903	5	4	15	12
1904	94	75	36	28
1905	2	2	11	9
1906	28	22	22	17
1907	13	10	31	24
1908	22	17	18	14
1909	1	1	22	17
1910	80	61	19	14
1911	8	6	16	12

TUBERCULOUS DISEASES.

In the following table the registered death-rate from pulmonary tuberculosis or phthisis and from other tuberculous diseases for a series of years is shewn:—

Mean Annual Death-rate in Brighton from Phthisis (Consumption) and other Tuberculous Diseases per 100,000 persons, in Groups of Years.

		Phthisis.	Other Tuberculous Diseases.
1861-70	 	_	98
1871-80	 	10000	78
1881-90	 		74
1891-1900	 		66
1901	 	133	59
1902	 	140	43
1903	 	145	53
1904	 	138	67
1905	 	136	54
1906	 	145	59
1907		142	57
1908	 	129	46
1909	 	139	43
1910	 	109	52
1911	 	136	36

During the last thirteen years the number of persons dying from phthisis has been 1,313 males and 942 females.

The comparatively low death-rate in females as compared with males is chiefly due to the extremely satisfactory housing conditions present in Brighton.

The gradual lowering of the death-rate from pulmonary tubercle is due in large measure to better feeding and improved housing. Education of consumptives in their homes and at the Sanatorium as to the prevention of the spread of infection, must also exercise a beneficial effect. In the past, Sanatorium treatment has been disappointing because so few cures have been effected in cases shewing tubercle bacilli in the sputum. Great hopes are entertained that in the future early diagnosis will be assisted by the application of tuberculin tests, and that by treatment with tuberculin many early cases will be cured.

A great deal of interesting information is contained in the following table, which gives the particulars of notification from 1899 onwards.

The course of notification is indicated by the following table:-

			Phthisis.			
Year.	No. of New Cases Notified.	No. of Cases Re-notified.	New Cases Notified per 100,000 of Population.	Total No. of Cases Treated in the Borough Sanatorium.	No. of Cases Re-admitted to the Sanatorium.	Annual No. of Deaths from Tuberculosis in Brighton.
1899	111	_	92		_	215
1900	105	_	85	-	-	232
1901	153	9	124	-		237
1902	224	52	180	(from May)		227
1903	316	82	252	98		248
1904	363	85	288	130		259
1905	308	102	243	135	6	241
1906	373	119	292	213	32	260
1907	299	104	233	197	36	255
1908	270	64	209	191	31	226
1909	267	152	206	175	32	236
1910	251	105	192	165	28	211
1911	258	184	196	115	21	226

During the year, 442 Notifications of Pulmonary Tubercle were received; of these, 177 were under the System of Voluntary Notification, 146 under the Public Health (Tuberculosis) Regulations, 1908; and 119 under the Public Health (Tuberculosis in Hospital) Regulations, 1911, as shewn by the following table:—

		Primary No- tification.	Re-Notifica tion.
Voluntary Notifications—			
In private practice		101	25
In public practice		21	17
By M.O.H. of adjoining district		1	
By M.O.H. and School Doctor		11	-
By M.O. Barracks	***	1	_
		135	42
Public Health (Tuberculosis) Populations			
Public Health (Tuberculosis) Regulations 1908—	,		
By Parochial Medical Officers		16	9
By Workhouse Medical Officers		42	49
By Workhouse Masters		3	20
By Relieving Officers			7
		61	82
Public Health Tuberculosis in Hospital Regulations, 1911—			
By M.Os. of—			
Royal Sussex County Hospital	***	23	18
Brighton and Hove Dispensary Other Brighton Dispensaries		27	27
Hospitals and Dispensaries out	side	10	5
Brighton	siuc	2	7
	7.00		1
		62	57
Total		258	184

RE-NOTIFICATIONS.

The 184 Re-Notifications were in respect of 129 patients; 89 cases being re-notified once, 28 twice, 10 three times, 1 four times, and 1 five times.

Of the 258 New Cases notified in 1911, 46 were subsequently re-notified on one or more occasions. Many of the cases were re-notified owing to change of address, this information enabling prompt disinfection to be done.

NOTIFIED CASES.

Of the 258 notified cases, 35 were already ill when they came to Brighton.

Proportion of Cases Notified.—Of 179 deaths, 63 (of whom 8 died in the Asylum), were those of unnotified cases. Out of the 63, 9 were visitors. This would indicate that under the present system of notification a very large majority of cases is notified.

Disinfection after admission to Sanatorium.—The amount of disinfection that is carried out at the patient's home, in addition to thorough domestic cleansing, varies according to circumstances. Special attention is paid to the patient's bedroom, which is usually sprayed with disinfectant; the bedding is disinfected by steam. In dirty homes, notices to cleanse are served, and this results in the stripping of wall-paper and whitewashing of ceilings. In very clean houses, frequently nothing is required, except domestic cleansing, which can be conveniently undertaken by the tenant. Damp dusting of articles of furniture and dough cleansing of wall-paper are advised.

After deaths from phthisis and other tuberculous diseases, disinfection was carried out as follows: in 93 cases rooms were sprayed, and in 3 cases rooms were fumigated with sulphur by the tenant. In 52 instances rooms were stripped, cleansed and whitewashed. In 6 cases the bedding or clothing was burnt, in 10 the bed-ticking was taken off and washed, and in 103 the bedding

and clothing were disinfected by steam.

The number of cases of consumption treated in the Sanatorium during 1911 was 115; of these, new cases numbered 94. Of this latter number 81 had been notified during 1911. The total cases notified during the year was 258, which means that 31 per cent. of the new cases notified during the year had the advantage of Sanatorium treatment and training. The average stay each patient was 76 days in 1911, as compared with 79 in 1910. Of the 81 new cases treated in the Sanatorium, 1 was subsequently admitted to the Infirmary, and of the 177 new cases notified during the year who did not receive Sanatorium treatment, 46 were admitted during the year to the Infirmary.

Under the new regulations regarding transference of deaths, not only deaths occurring in public institutions are transferred, but the deaths of all persons who, having a fixed or usual residence in England and Wales, die in a

district other than that in which they resided.

Apart from public institution transfers, there were 7 outward and 6 inward transfers of visitors.

On inquiry it is found that 17 persons already suffering from phthisis came to Brighton during 1910 and 1911, and died during 1911. These deaths were all credited to Brighton, although some of these persons had only been resident in Brighton for a few weeks.

Brighton residents who suffer from consumption rarely leave the town, whilst many persons come to Brighton because they suffer from that disease;

the result is that the phthisis death rate for Brighton is increased.

Deaths occurring in Public Institutions.—57 cases died in the following institutions: 33 in the Brighton Workhouse, 3 in Shoreham Workhouse, 7 in the Brighton Borough Asylum, Haywards Heath, 8 in the Sanatorium, 6 in the Royal Sussex County Hospital.

The following table gives some idea as to the stage of the disease when the patients are first admitted, and as to the length of their stay and progress

in the Sanatorium.

		Average	Bacteri Res	ologic ults.	eal	Average	
Stage of Disease. Turban- Gerhardt Classification.	Number of Cases.	Stay in Hospital in Days.	Positive.	Negative.	No Sputum.	Gain in Weight in 1bs.	Deaths.
I. { Male Female	11 15	68 89	6	3 4	2 10	10 10	=
$\mathbf{H}. \left\{ \begin{matrix} \mathbf{Male} & \dots \\ \mathbf{Female} & \dots \end{matrix} \right.$	9 2	115 47	7	2	=	10	=
III. $\begin{cases} Male & \\ Female & \end{cases}$	19	66* 75*	19 8		=	4* - ½*	3
Children Male	6	93 110	1	1	5 5	7 6	=

*Average excluding deaths (3 Males and 1 Female).

TREATMENT BY TUBERCULIN

Two preparations of tuberculin, T.R. and B.E., have been used. At first T.R. was tried, the first dose was commonly $\frac{1}{1000}$ or $\frac{1}{500}$ mgm. The weekly dose was doubled until 1 mgm. doses were reached. This preparation was well borne, even by children. During the last half of the year, the preparation B.E. was tried. The first dose was $\frac{1}{10000}$ mgr., and this was doubled at weekly or bi-weekly intervals. Unfortunately, sterile dilutions in doses containing $\frac{1}{20}$ and $\frac{1}{10}$ mgm. gave rise to abscess formation. A study of the subject leaves little doubt that the cause of abscess formation was the non-absorption of the solid matter in the preparation. This was proved by the presence of tubercle bacilli in the pus of the abscesses, and also by the presence of hard nodules persisting over long periods at the site of injection. The abscesses occurred about one period, and it may be that the bacilli were not ground sufficiently. After the worry and trouble caused by these abscesses, I have entirely discarded the preparation B.E., and would advise all persons who administer large doses of tuberculin to do likewise.

T.R., even in large doses, seems to be well absorbed, and in future 1 intend relying on this preparation or simultaneous injections of this prepara-

tion and old tuberculin.

The results of treatment are recorded in a paper, by Forbes and Newsholme, in Public Health, March, 1912. It is still too early for us to judge whether or not tuberculin treatment is to fulfil the expectations of certain of its advocates. Apart from the abscess formation following the use of B.E. no untoward results have occurred. In Brighton, as a precautionary measure, the first doses of tuberculin are always given whilst the patients are in hospital, but later, the patients are treated at the Town Hall on Friday evenings. Friday is the most suitable day, as, should a severe re-action occur, the patient loses a minimum amount of work.

TUBERCULAR JOINT DISEASE.

Since the Joint Ward was opened in April, 1910, 14 cases have been treated over prolonged periods. Of these, four were cases of spinal disease, and nine were cases of hip disease, and one suffered from disease of the knee joint. Three cases of spinal disease have been discharged cured, and with no increase of deformity, after stays of 303, 534, and 611 days. Five cases of hip disease have been discharged cured, three with perfect movement, one with fair movement, and one with ankylosed hip. The joint in the last case was extensively diseased before admission. The average stay in hospital was

497 days.

One case of hip disease developed an abscess after 2 months' stay in hospital, and one case of knee joint disease was discharged for operation after 440 days, having shewn no sign of improvement. Our object was to obtain complete cure of hip and knee cases, and a minimum of deformity in spinal cases. The general hospitals used to keep those cases for as long a time as possible, but seeing rest for a year was required, and that there were always many patients wanting beds, these cases were sent home to rest. Even careful mothers found difficulty in giving these children the attention required, especially in large families. Consequently the joints were moved, and abscess or increased deformity resulted; also in the poor hygienic conditions of many of the homes, the patients had no chance of fighting the disease successfully, and succumbed from the spread of the disease. At the Sanatorium the little patients lead practically an open-air life, and are kept at perfect rest. Being satisfied with the results obtained, the Corporation have decided to continue the treatment of tuberculous joint disease.

TUBERCULOUS MILK.

Forty-six samples of milk were collected and submitted to the Lister Institute for examination (see page 46).

Phthisis; Sanatorium and Hospital Accommodation.

				29			
-	Do the Sanitary Authority provide portable open-air Shelters or Tents?		No.				
	Do the Sanitary Authority reserve Beds in any Phthisis Sanatorium; If so, how many, and in what Sanatorium?		No.				
	Do the Sanitary Authority use— (1) their Isolation Hospital, or (2) their Small-pox Hospital, for cases of Phthisis?		Their Isolation	Hospital; it would be too expensive to use the Small-pox Hospital owing	administration and food supply.		
	What charge, if any, is made for the use of Beds.		None.				None.
	Are patients under the care of a resident Medical Officer?		Yes.				Yes.
	How are patients selected?	Brighton Corporation— Two years	residence in Brighton immediately	before admission. No persons previously	Infirmary for phthisis	are admitted.	Brighton Guardians— Any advanced cases admitted.
	Total number of Beds.			B. Cor- poration 48			4
	Where situated.		Brighton	Disease Hospital, Bear Road, Brighton.			The Infirmary Elm Grove, Brighton.
	By whom provided.	Brighton Corporation.		Brighton Corporation.		Brighton Corporation.	Brighton Guardians,
	Classes for which accommodation is provided	(a) Early cases.		(b) Intermediate diate cases.		(c) Advanced cases.	

Patients notified from Dispensaries and Hospitals after discharge from the Sanatorium, if suitable cases, are treated with tuberculin at the Town Hall.

Patients notified by private practitioners are also treated with the consent of the practitioner.

No patients, except suspicious contacts who are not having attention, are examined by the M.O.H.

BOROUGH ISOLATION HOSPITAL.

The following table shews the number of cases admitted to, treated at, and discharged from the Sanatorium.

		Nu	mber				ufferi		om t	he		Fulking Grange.
	Scarlet Fever.	Enteric Fever.	Measles.	German Measles.	Diphtheria.	Phthisis.	Tuberculous Joints.	Chicken Pox.	Emaciated Infants.	Other Diseases.	Total in- Sanatorium.	Small Pox.
Remaining in the Sanatorium Dec. 31st, 1910 Admitted to Sanatorium	21	4	4	_	12	26	9	3	_	_	79	-
during 1911	354	17			154	115	5	2	15	9	671	1
Total number treated in 1911 Number discharged during	375	21	4	-	166	141	14	5	15	9	750	1
1911	281	17	3	-	152	116	8	5	14	7	603	-
Died in Sanatorium in 1911	9	-	1	-	6	8		-	1	2	27	-
Remaining in Sanatorium Dec. 31st, 1911	85	4		-	8	17	6	-	-	-	120	-

Of the above cases, 2 of scarlet fever, and 7 of other diseases, belonged to the Sanatorium staff; one case of scarlet fever and two of diphtheria were admitted from Newhaven Rural District, two cases of scarlet fever were admitted from a School outside the Borough, and 23 cases of diphtheria were admitted from the Warren Farm. No charge is made for Brighton residents treated in the General Wards. Private patients and non-residents last year were charged £132 2s. 8d. for maintenance and treatment; £303 1s. 6d. was paid for Poor Law patients; £22 6s. 3d. was paid for special disinfection done in the town, etc. The Newhaven Rural District Council has paid £57 17s. In addition to the above amounts, £763 4s. 6d. was received for the maintenance of Hedgcock patients who received treatment during 1911.

The table on page 35, prepared by the Borough Accountant, shews the expenditure for the year on the two hospitals. The total number of weeks spent by all the patients in the Sanatorium was 5,394, as compared with 3,985 in 1910. Of the total in 1911, scarlet fever patients spent 2,133 weeks, diphtheria patients 803 weeks, and phthisis patients 1,639 weeks, and patients suffering from tuberculous joints, 3,561 weeks.

RETURN CASES OF SCARLET FEVER.

After the return of 17 scarlet fever cases from hospital, 24 cases of scarlet fever occurred in their homes. The children from two homes attended a school where there was a sudden large outbreak of scarlet fever, 20 children being affected, and during this outbreak contracted the disease. This fact, taken along with the intervals of 50 and 150 days between the return home of the primary cases and the sickening of the subsequent cases, allows these cases to be excluded from our tables of return cases; this leaves 15 cases which are presumed to have given rise to infection after their return from hospital. See table inserted opposite page 32.

In 4 of the 15 cases, the intervals between the discharge of the primary case and the onset in the return cases was 59, 84, 139 and 142 days. In most returns these would not have been classed as return cases, although there is every reason to believe that return cases do occur after even longer intervals. Taking the three years 1909, 1910, 1911, the percentage of hospital cases is 4.7; excluding cases in which the interval between discharge of primary case and onset in return case was six weeks or over, the percentage 4.7 is reduced

to 3.8.

During the same 3 years, 139 cases of scarlet fever have been nursed at home, and 6, or 4.3 per cent., gave rise to return cases after they had been certified as free from infection.

The following table gives information regarding the intervals of time elapsing between the discharge from hospital of the primary case, and the onset in the return case, etc.

1911.								D	ays	÷.					
Intervals between (1) discharge from Hospital and onset return case (2) onsets in primary and		6	6	7	8	9	9	10	12	15	17	59	84	139	142
return cases The day of disease on which primary case discharged		52	53	105	44	61	55	69	95	57	58	114	130	207	197
from Hospital	34	47	48	89	37	53	47	60	84	43	42	56	47	69	5

That great length of stay in hospital does not prevent return cases is shewn by the following table, which gives the week of illness during which the patients were discharged; it was thought better to give the dates of discharge according to length of illness, and not length of stay in the Sanatorium, as some cases are admitted later in the illness than others.

Before end of	3rd week.	4th week.	5th week.	6th week.	7th week.	8th week.	9th week.	10th week.	10th and over
For 1909, 1910 & 1911.				From o	nset of	illness			
Number discharged Primary cases giving rise to return cases	8	25	106	230	157	69	33	42	69
were discharged	-	-	3	9	10	6	1	3	3

The table on page 32 shews that 173 out of 738 cases had no desquamation on hands or feet during their stay in hospital.

Twelve per cent. of the septic cases (including nasal discharge, sore nose, otorrhœa, and vaginal discharge) gave rise to return cases, whilst only 3.5 per cent. of the remaining cases did so. It is remarkable that no return cases have arisen from the 15 cases of otorrhœa discharged.

C1 Vaginal Dischg. 18 Cracks and Sores. 18 00 Adenitis. 10 00 Cough. 10 Q1 Ciliary Blepharitis. 00 Otorrhea. Chronie. Acute. 17 7 Moist. 9 Picked. Nose. 19 Crusts. 01 Ξ Sore, 1-01 Undefined. Nasal Discharge. 539 10 Thin. 00 27 Thick. Enlarged Tonsils. 256 Ξ 195 = Pale. Throat. 31 Red. 513 24 Janrao V. Yone on hands or feet during stay in Hospital. 173 9 Desquamation. 233 12 Absent. 333 Present. giving 35 cases rise to cases ... (1) Of 738 cases Of 3

Condition on Discharge of Scarlet Ferer Cases during 1909, 1910 and 1911.

This table views full normalises reparding and only return once of Societ Fever, but porticulars of all multipole once arising after the return have of patients discharged from the infection-disease happital.

											4			Condi	tion on	Discharge.								Return	Cases.				
				Date of		stay.	33	8	8	i i	dis.	Other					Any	Sweeptshie							Interval	botween			
legistered Number	Sex.	Age	Ouset	Admir- sion.	Dos charge.	Longth of the Sanat	Rad	Duratio	Otombi	Historia	Late Alban Nephri	Complications.	Despress	Enhuged Tonoib.	Condition of Therest.	Other Remarks.	Illness after Discharge.	omfacts at home under ten.		Remark	ik.		Registered Number.	Date of Onset.	Onsets of 1st and 2nd cases.	Discharge of 1st ones and onset of 2nd case.	Sex and Age.		
	sc	DARLE	T FEVE	R HOSP	ITAL R	ETUR	N CA	ASES.																					
23/1910	М.	3	Oct. 9	Oct. 11	Nov. 24	43	×	3					Fort		N			2					22 23 25 49	Feb. 16 Mar. 7	130	84	M. 20 F. 23 F. 33		
33/1910	M.	2	Nov. 24	Nov. 24	Jan. 18	78		6					Feet -		N	Watery N.D.		0					(111	June 9 June 10	197	142	F. 8 36. 4		
6	31.	8	Jan. 19	Jan. 20	Feb. 24	36	×	9					Hands		N-P			2	Re-examined M	arch 5th, red. N	Throat o N.D.	pale, sep-	36 37 45	Mar. 4 Mar. 5 Mar. 8	44	8	F. 1 F. 10 M. 3		
2	M.	8	Jan. 20	Jan. 23	Mar. 3	40	×	6				Watery N.D. on	Fret		P			3					61	Mar. 18	57	15	M. 6		
13	F.	9	Jan. 29	Jan. 31	Mar. 17	46	*	4				N.D. 30th day	Feet	8+	N	Thin N.D.		1					64	Mar. 23	58	6	F. 14		
16	F.	-11	Feb. 12	Feb. 13	April 8	33		3					0	8 +	p	Septem red		1					100	June 6	114	39	M. 11		
igg htheria	M.		Mar. 24	May 28	June 15	50						Thick N.D. 37th day	0	8 -	P	Mneopus pharynx. Thock N.D. on syringing		1	M. 8. Admitto contracted Sc.F	April 11 octod by o	and wa	March 10, is probably	116	June 27	9.5	12	F. 3		
41	M.	10	Mar. 4	Mar. 8	May 2	56	×	10					Feet		N			1.					99.	May 12	69	10	M. 5		
39	31.	3	Mar. 14	Mar. 15	Jame 10	88	*	*	E2th day				Never		N			1	Admitted from cleft pulate gone	S.C.H. septic.	Operatio Operation	n hare lip. m. Mar. 10	117	June 27	105	7	М. 8		
63	31.	3	Mar. 17	Mar. 19	May 2	45	*	3 .	19th 36th day				Never		P			3					97	May 8	32	- 6	F. 3		
62	31.	4	Mar. 23	Mar. 25	Nay 30	67	¥		18th day		lth lay	Thick N.D. on admission	Feet		N-R	Watery N.D.		3					251 252	Oct. 16 Oct. 25	317	139	F. 9 F. 1	Numed at	hom
*84	r.	3	Mar. 17	April 18	April 27 In	10			1		- ×	Mitral valvalur disease	Feet		N	Mucopus phirynx		1	Scarlet fe	ver outlie	esk in se	hool	*139	Sept. 24	192	150	F. 4		
114	M.	8	June 18	June 20	ambidance	.31	×	3				Mumps 24th day, thick N.D. 10th day	0.	+	N	Moist nose		3	Cases 1	59 and 17	6 attende	ı	1 176	Sept. 28	103	50	F. 4		
146	31.	6	Sept. 10	Sept 12	Oct. 21	40	×	3					Feet		N			3					278	Nov. 7	58	17	F. 8		
174	31.	-11	Sept. 26	Sept. 30	Nov. 17	49	×	6					0	8+	N			2					318	Nov. 26	63	9	F. 13		
267	F.	12	Oct. 14	Nov. 3	Dec. 1	29	desq						0		N			2					345	Dec. 19	55	9	F. 9		
297	34.	0	Nov. 17	Nov. 20	Doc. 21	32									N			2					372	Dec. 23	36	2	F. 4		
	AN	OUT	SIDE IN	FECTIO	S DISE	ASE I	HOSP	TAL																					
	34.	11	June 4	Jane 26	Aug. 8	44												- 1					136	Aug. 16	53		Mi 17		
	но	ME	RETURN	CASE.																									
107	35.	7	May 21	Disinfect July	ion done 12				Note	enplica	tions							1					375	Nov. 27	190		M. 11		

† There is no doubt that case 20 was a case of Scorlet Fever throughout.

This is an example of a case of Scorlet Fever which came into contact with no other case of Scorlet Fever during a stay of 80 days in hospital. He might threefore be classed as a home curred case, as he had never been in a Scorlet Fever ward.



The following table shews the complications from which the patients suffered during their stay in hospital during 1908, 1909, 1910, and 1911. During 1909, 1910 and 1911, the scarlet fever patients were kept in bed for at last four weeks. Previously they were allowed up at the end of ten to four-teen days. I am of opinion that cases should not be allowed to mix with each other until after the end of the fourth week of their illness; if they do so they are more apt to suffer from complications, and to remain in an infectious condition for a longer period.

		. 1908	1909	1910	1911	Patier vari develo	ous Co	ffering mplica ter adn	tions
	4	275 patients.	284 patients.	149 patients.	330 patients.	1908	1909	1910	1911
Otorrhœa		30	22	8	35	10.9	7.7	5.4	10.6
Nephritis .		5	5	1	10	1.8	1.7	.7	3.0
Endocarditis		2	4	1	1	.7	1.4	.7	.3
Pericarditis Harbouring D.B.	on		-	-	1	.4	-	-	.3
admission Harbouring D.B. d		9	2	6	9	3.3	.7	4.1	2.2
ing stay			1	_	2	1.8	.3	/	.6

In addition the following complications were noted:-

On admission 54 suffered from nasal discharge, 11 from ringworm of the head, 4 from septic sores, 2 from chronic ear discharge, 3 from endocarditis, 2 from whooping cough, one from each of the following: albuminuria, chicken pox, vaginal discharge, chronic eczema.

Whilst in hospital the following additional complications were first observed: six abscesses of neck, two mastoid abscesses, three cases of mumps, six from labial discharge, and one from each of the following: chorea, jaundice, rectal discharge, chicken pox, pleurisy, bronchitis, bronchial pneumonia. In addition to the above nasal discharge commenced in 53 cases on the following weeks of disease:—

1st week, 12; 2nd, 8; 3rd, 7; 4th, 9; 5th, 4; 6th, 11; 7th, 2.

DIPHTHERIA.

During the year 163 persons, notified as suffering from diphtheria, or harbouring diphtheria bacilli, were admitted to the Sanatorium. Of these 42 did not give D.B. either on admission or during their stay in hospital.

Condition on discharge.	Throat.	Nose
143	_	
11 3	+	-
6 died		+
Total, 163		

Two cases notified as diphtheria required tracheotomy; the particulars are as follows:—

				Days of	Disease.	
No.	Sex.	Age.	Date of onset.	Doctor called in.	Removed to Sanatorium.	Termination.
119	Female	4	Oct. 8th	Oct. 10th	Oct. 20th	Death Oct. 22nd.
138	Female	14	Nov. 17th	Nov. 22nd	Nov. 22nd	Death same night.

$Deaths\ from\ diphtheria.$

			Doctor	Day of d	isease.	
Sex	ι.	Age.	called in.	On Admission.	At Death.	Remarks.
	F. F. F. F.	5 4 9 5 4	4th 4th 3rd 1st 3rd	4th 4th 3rd 3rd 13th	8th 9th 13th 3rd 15th	Throat and nose affected. """ Died & hr. after admission. Laryngeal Diphtheria. Trached tomy. Two weeks afte operation for adenoids.
138.	F.	14:	6th	6th	6th	Laryngeal Diphtheria. Trache tomy. Death same night.

FIGURES FOR 1911, COMPARED WITH 1910.

COUNTY BOROUGH OF BRIGHTON HOSPITALS.

Expenditure-Sanatorium, Bear Road.

	19	10.		19	11.	
Salaries and Wages—	£	s.	d.	£	s.	d.
Medical Officer	100	0	0	100	0	0
Matron	90	5	5	90	0	1
Nurses and Servants	1144	14	7	1157	1	8
Labour (gardens)	124	-	0	125	9	6
Repairs	299		8	150		11
Fuel	722	10	1	739		11
Electricity	198		0	204	6	7
Gas	45	4	9	1007	15	0
Water	64	2	11	64	5	0
and repairs	315	11	10	405	19	1
Provisions	2050	16	4	2210	15	11
Drugs and medical sundries Surgeons' Fees (special cases) and	178	8	8	180	10	9
hire of extra nurses	22	7	6	62	17	3
Dresses for Matron, uniforms for nurses and servants, hospital gar-		,	0	02		
ments, linen, flannel and drapery goods	179	7	5	181	19	6
Printing, advertising, stationery and				-		
stamps	29	6	4		18	4
Rates, taxes and insurance Travelling expenses, cab hire,	462	18	4	445		4
carriage, telegrams and sundries	17	2	7	-	3	6
Garden seeds, manure, &c		10		1	19	0
Telephone rent	6	13	3	6	13	3
		The	Gran	ge, Fulki	ng.	
Wages	73	0	0	72	16	0
Repairs	19	2	8	1	13	6
Fuel	8	9	0	10	6	6
Sundry household goods	5	4	0	6	19	0
Travelling and miscellaneous ex-						
penses	2	0	6	1	19	8
Rates, taxes and insurance	11	1		11		2
Telephone rental	35	0	0	35	0	0
	£6212	1	4	£6381	10	_

LABORATORY REPORT, 1911.

ores Malw day	Positive.	Negative.	Doubtful.	No Growth.	Total.
Swabs from Borough	117	932	7	53	1109
Sanatorium Swabs— Admissions Diphtheria Convalescent Diphtheria Admissions Scarlet Fever Convalescent Scarlet Fever Other Patients	255 24 8	222 954 610 79 8	- 3 2	27 95 21 5	362 1304 658 94 8
Sputa from Borough Sputa from Sanatorium		312 57	= -	Total	2426 404 162
Blood Specimens, Widal's Reaction— From Borough From Sanatorium	-	(2)*	(3)* 4 2	(4)* 27 10	45 17
Hairs examined for Tinea— From the Borough From Sanatorium	1.4	112 25	_	_	280 39

 $\begin{array}{l} 3 \,=\, \mathrm{incomplete} \,\, \mathrm{reaction}. \\ 4 \,=\, \mathrm{no} \,\, \mathrm{clumping}. \end{array}$

 $\begin{array}{c} {}^{\star} \ \, \text{In blood specimens--} \\ {}^{1} = \text{complete reaction.} \\ {}^{2} = \text{almost complete reaction.} \end{array}$

Miscellaneous Specimens.

72			т.	m ı				Positive.		Negative.
	examined	for	B.	Typhosus			***	2	***	7
Urine	,,	22		_ ''			***			1
Urine	,,			Tuberculo				_	***	2
Cerebo	-spinal flui	id e:	kan	nined for I	3. Tu	berculosis		1		

Number of Water Examinations.

Patcham	 	Chemical.	Bacteriological.
Falmer	 	11	12
Goldstone	 	10	13
Shoreham	 	10	21
Mile Oak	 	10	12
			person
		52	70

SANITARY WORK OF THE YEAR.

SANITARY INSPECTION.

In the following Tables, prepared by Mr. Skinner, the Chief Sanitary Inspector, the work of the Sanitary Department is stated, so far as it can be given in tabular form:—

Inspections during 1911.

	Totals for 1911
Number of Streets Inspected	260
,, Houses and other Premises Inspected	14604
,, Complaints attended to	868
,, Visits to Slaughter Houses	3227
,, ,, Cowsheds	57
,, ,, Bakehouses	295
,, ,, Dairies and Milk Shops	585
,, ,, Provision Shops	3429
,, Day Visits to Common Lodging Houses	113
,, Night Visits to ditto	96
,, Visits in respect of Sickness	6178
,, Visits to Disinfect Rooms	745
,, Visits for Removal of Bedding	281
,, Drains Tested by Volatile Test	36
,, Drains Opened for Examination	341
,, Visits for Sundry Purposes	9536
,, Visits to look up Notices served	4475
,, Attendances at Police Court	15
,, Samples Collected for Analysis	550
Samples for Bacteriological Examination—	
Milk for Tubercule Bacilli	48
Number of Inspections of Stables	1186
,, Wastes of Water Reported	115
,, Letters sent to Schools and Public	1409
Library	1463
Meteorological Observations taken	1282
,, Reports issued Visits to Schools	2663
Number of Visits under Factory and Workshops	226
and Chan House Acts	3745
Drains Flushed	13
Markets Committee One Inspector	10 days
Visits to Houses Let in Lodgings (Day)	10 days
Offensive Trades	47
Smoke Observations	120
Contagious Diseases (Animals) Act	106
Visits to Lee Cream Vandore	120
Housing, Town Planning, &c., Act—	120
Visits by Medical Officer of Health	111
,, Chief Inspector	1212
Customs and Inland Revenue Act—	
Visits by Medical Officer of Health	8
,, Chief Inspector	8

It will be seen by the above table that 3,429 visits have been made to provision shops during the year.

The primary object of these is to prevent the sale of unsound food, but frequent visits are also necessary to ensure the removal of refuse, more particularly during the summer months. Fish shops especially require constant supervision.

No complaint of a nuisance from any provision shop has been received during the year; this is very satisfactory considering the excessively hot summer.

All stables have been regularly inspected and the frequent removal of manure insisted on. Complaints of offensive smells from stables are now very rare.

Premises in which offensive trades are carried on have been regularly visited, and the frequent removal of matters likely to cause a nuisance insisted on.

By an arrangement between the Chief Inspector and the proprietors, all bones and fat were removed daily from the marine stores during the summer months. In consequence of this no complaint was received respecting them during the whole year.

120 visits were made during the hot weather to premises where ice cream is manufactured, to see that proper precautions were taken to prevent its contamination.

The visits for sundry purposes include the testing of house drains after repairs and alterations, but not the testing of new drains. The latter is done by the Borough Surveyor's department. Visits to premises with builders and owners, to arrange details for carrying out the work ordered, inspections of common passages at the rear of houses, waste land, areas of unoccupied houses, and visits to dirty houses are also included under this head. Houses occupied by dirty tenants are kept under observation until an improvement in their condition is made.

Many of the complaints received were due to the keeping of fowls, rabbits, pigeons, &c., in the back yards of houses. This practice is most objectionable and sometimes causes serious nuisance.

The sanitary inspections enumerated in the preceding table have been followed by the serving of the notices given in the next table. A large proportion of the work is done on the strength of verbal recommendations or preliminary notices.

Notices served during 1911.

		Warı	ning : Not	and 'ices.	Verb	al	F	inal :	Notic	es.	Jo.	with.
Nature of Notice.	Number	Number served. Number complied with before service of final notice. Number reported for final notice.				Number	served.	Number com.	plied with.	Total number of	notices complied with	
	Owners.	Occupiers.	Owners.	Occupiers.	Owners.	Occupiers.	Owners.	Occupiers.	Owners.	Occupiers.	Owners.	Occupiers.
To drain into sewer and fill up cesspools To relay drain To repair drain and soil pipe To trap drain	11 224 98 49	_ _ _ _	8 156 62 36		3 68 36 13	-	3 60 28 14	-	3 59 28 14		11 215 90 50	1
To cleanse and whitewash rooms To clear drain or soil pipe To clear, repair or cleanse closet, or repair flushing	266 87	84 17	160 20	56 8	106 67	28 9	107 82	31	106 82	31	266 102	
apparatus or pan To repave yard or scullery To abate other nuisances To provide covered dustbins	380 369 1154 486	144 2 . 66	262 232 800 309	56 2 38	118 137 354 177	88 28	200 127 338 191	98 26	200 123 333 186	98 	462 355 1133 495	154 2 64
To provide premises with a proper water supply To cleanse premises and re- move foul accumulations	15 67	221	9	- 42	6 55	- 179	6	-	6	-	15	_
To provide manure receptacles To provide w.c. accommo-	8	-	3		5	-	48	170	48	170	60	212
dation To render damp walls with	4	-	1	-	3		-	1	-	1	1	1
To lay on water to closets To abate overcrowding To discontinue keeping	182	75	108	10	74 2 —	65	74 5 —	65	71 5 —	65	179 5 —	75
animals so as to be a nuisance To abate smoke nuisance To cleanse and whitewash		110 24	=	13 22	=	97 2	Ξ	94 2	=	94 2	=	107 24
bakehouses To cleanse and whitewash	-	38	-	38	-	-	-	-	-	-	-	38
workrooms To pave and drain stables To pave yard adjoining	3	8	=	7	3	1	1	-	1	-	1	7
house wall To take up brick floor of living rooms and lay board floor with vent	54	-	37		17		18	-	17	-	54	-
under same	29	-	19	-	10	-	6	-	4	-	23	-
Totals	3488	790 2	234	293	254	497	1311	488 1	289	488 3	3523	781

No summonses were necessary to enforce compliance with notices during the year.

COMMON LODGING HOUSES.

Ten of these are at present registered, having accommodation for 339 lodgers. The bye-laws have been properly carried out in these houses during the past year.

HOUSES LET IN LODGINGS.

Houses in which the landlord resides, at a rateable value not exceeding £26, and having four families in them, and houses of the same rateable value which are let in separate lodgings to two or more families, when the landlord does not reside on the premises, come under the above heading. Byelaws for these were confirmed by the Local Government Board, on July 13th, 1893. Sixty-five such houses are now on the register.

These has been no breach of the bye-laws respecting these houses during

1910.

REMOVAL OF HOUSE REFUSE.

In accordance with the arrangement made with the Borough Surveyor's department, the following information has been supplied, and the necessary notices served in each instance.

No dust bins, defective bins, &c. 111

During the greater part of the year, the refuse from ordinary dwellinghouses is collected weekly, but during the hot weather, in July and August, it is collected twice a week, and, by special arrangement, the collection is made from hotels and large boarding-houses twice or three times a week during the whole year.

It would be beneficial to the health of the inhabitants of the town if the collection was made from every house at least twice a week during the winter

months and thrice weekly during the summer.

NEW HOUSES.

The Borough Surveyor reports that plans for the erection of 49 new dwelling houses were passed by the Town Council during 1911, compared with 70 in 1910 and 101 in 1909. These were situate in the following Wards: St. Nicholas, 9; Montpelier, 3; Preston Park, 3; Preston, 13; Lewes Road, 1; St. John's, 4; Queen's Park, 13; Kemp Town, 3.

HOUSING, TOWN PLANNING, ETC., ACT, 1909.

This Act has now been in operation for two years, and much useful work

has been done in Brighton under the powers conferred by it.

It will be seen on reference to Table on page 41, that since the passing of the Act, 43 houses have been dealt with, 41 Closing Orders have been made (the consideration of the other two was adjourned as plans were submitted to the Town Council for re-building them, and the work is now in hand), 17 Demolition Orders have been made, and six others are pending; 16 Closing Orders have been determined, 14 houses have been demolished, and one has been converted into stores.

Of the houses which have been demolished only one has at present been re-built; in most instances the sites have been used to provide open space for the adjoining houses.

During the year 1911 an appeal was made to the Local Government

Board against Demolition Orders in respect of seven houses.

After a Local Enquiry had been held this was decided in favour of the Corporation, with costs against the appellant.

This result, together with the fact that no appeal has been made in any other instance, shows that the Act has been judiciously applied in Brighton.

In addition to the houses already mentioned, 32 others, which were in an unsanitary condition, have, by mutual arrangement between the Chief Inspector and the owners, been put into thorough and substantial repair

during the year, without Closing Orders being made. The total number of houses dealt with in this manner since the passing of the Act is 79.

During the year, 111 visits have been made by me and 1,212 by the

During the year, 111 visits have been made by me and 1,212 by the Chief Inspector to condemned houses to see that the repairs were properly carried out.

Action taken under Section 17 of the Housing, Town Planning, etc., Act, 1909, during the years 1910 and 1911:—

1909, during the						
Name of Street,	No. of houses dealt with.	No. of Closing Orders made.	No. of Closing Orders determined.	No. of Demolition Orders made.	No. of houses demolished.	Result.
Steine Gardens	2	2	1	-	2	Houses demolished by the owner; one has been re- built, but the site of the
Cannon Street	1	1	-	1	1	other is left vacant. House demolished by the owner and site left vacant.
High Street	2	2	-	2	2	Houses demolished by the owner; site at present
Marine Gardens	10	10	2	7	5	vacant. 5 houses demolished by the owner and the sites left vacant; 4 houses put into thorough repair and made fit for habitation, and 1
Frederick Street	11	11	7	6	1	house converted into stores of the houses in respect of which Demolition Orders were made, have, by arrangement with the Local Government Board, been made fit for habita- tion, and the Closing Orders
						determined; the other has been demolished by the Town Council; 2 others have been made fit for habitation and the Closing Orders determined; 3 others have been repaired, but as the work is not quite finished the Closing Orders have not yet been
Glo'ster Road	1	1	-	1	1	determined. House demolished by owner
Oxford Place	2	2	2	-	-	and site left vacant. Houses made fit for habita-
Arnold Street Henry Street Milner Road High Street	1 3 6 2	1 3 6 2	1 3 —		_ _ _ 2	tion. House made fit for habitation. Ditto. Demolition Orders pending. Houses demolished by the owner and site at present
Church Street	2	-	-	_	-	vacant. Houses sold and plans passed for re-building; work now in hand.
	43	41	16	17	14	

The following summonses were issued during the year to enforce compliance with the Housing Acts.

Offence.	Result of Summons.
Failing to comply with notice to vacate the house after Closing	Order to quit the house in 7 days.
Order had become operative Failing to comply with Magistrate's order to vacate the house.	Ejectment Order made, and tenant afterwards ejected.
Failing to comply with notice to vacate the house after Closing Order had become operative.	Order to quit the house in 7 days
Ditto.	Summons withdrawn as defendant had left the house.
Ditto.	Order to quit the house in 7 days.

N.B.—The costs of the above summonses were afterwards recovered from the owner of the houses,

FISH MARKET.

Very few complaints of bad smells from the Fish Market have been received during the year.

Every possible care is taken to prevent this, but, owing to defective ventilation of the Market, it is impossible to avoid some smell during the hot weather, especially when, as sometimes happens, the ventilation is obstructed by fishing nets being hung over the rails of the parade to dry. These nets reach downwards from the rails, and practically shut out all light and ventilation from the Market.

Another source of nuisance in the vicinity of the Market is the dipping of nets and sails. The material in which these are dipped is heated in tanks on the beach by wood fires, old fish boxes and all kinds of rubbish being used for fuel; the smell of the smoke and the dipping material combined is very objectionable.

During the year the following unsound fish have been surrendered in the Fish Market and destroyed by arrangement with the owners.

			We	t Fis	sh.							Shrimps,			Shell Fish.					
Fla	t Fis	sh.	1	rring and cker			ther et Fi		Dried Fish			Pink and Brown.			Whelks and Winkles.		Other Shell Fish.			
ewts.	qrs.	1bs.	ewts.	qrs.	1bs.	cwts.	qrs.	1bs.	ewts, qrs.		1bs.			1bs.	ewts.		lbs.	ewts.	qrs.	

Total weight, 8 tons 4 cwt. 1 qr. 2 lbs.

PUBLIC ABATTOIR.

The Public Abattoir has been open 17 complete years. The number of animals slaughtered each year is shewn in the following table:—

Year.	No. of Animals Slaughtered.				
1894	433				
1895	6,991				
1896	11,184				
1897	12,054				
1898	12,650				
1899	16,384				
1900	18,304				
1901	17,645				
1902	20,318				
1903	22,962				
1904	25,804				
1905	26,978				
1906	26,875				
1907	24,889				
1908	24,769				
1909	23,143				
1910	21,840				
1911	25,098				

The number of animals killed in 1911 was 25,098, viz. :--

```
1,577 beasts
2,176 calves,
1,016 lambs,
7,260 sheep,
8,473 pigs,

and

8 beasts,
27 calves,
384 lambs,
1,195 sheep,
2,982 pigs,

in the public slaughter-houses.

in the private slaughter-houses.
```

The amount received in tolls since the opening of the Abattoir has been as follows:—November and December, 1894, £7 13s. 4d.; 1895, £102 15s. 4d.; 1896, £122 4s.; 1897, £115 7s. 7d.; 1898, £185 10s. 3d.; 1899, £243 9s. 4d.; 1900, £279 17s.; 1901, £271 13s. 10d.; 1902, £352 14s. 10d.; 1903, £402 11s. 10d.; 1904, £433 4s. 3d.; 1905, £451 9s.; 1906, £467 5s. 2d.; 1907, £515 2s. 3d.; 1908, £436 11s. 7d.; 1909, £461 0s. 4d.; 1910, £468 3s.; 1911, £516 16s. 3d. One butcher was fined 20s. and costs for two offences against the Abattoir bye-laws.

PRIVATE SLAUGHTER-HOUSES.

In various parts of the town 33 private slaughter-houses are in use. The bye-laws for slaughter-houses have been fairly well carried out.

Each slaughter-house is visited several times a week by Inspector Cuckney, Superintendent of the Abattoir.

Unsound meat seized or surrendered during 1911:-

Description.	Number of Animals.	Number condemned by Magistrate.	Number condemned by arrangement with owner.	Total weight in lbs.
A.—At the Abattoir— Bullocks (whole carcase) ,, (part of carcase) Calves (whole carcase) ,, (part of carcase) Sheep (whole carcase) ,, (part of carcase) Pigs (whole carcase) ,, (part of carcase)	11 153 6 8 12 121 121 757		11 153 6 8 12 121 121 757	7266 4857 342 126 918 542 11785 7242
	1189	-	1189	33078
B.—In the Private Slaughter Houses and Shops— Bullocks (whole carcase) ,, (part of carcase) Calves (whole carcase) ,, (part of carcase) Sheep (whole carcase) ,, (part of carcase) Pigs (whole carcase) ,, (part of carcase) ,, (part of carcase)	13 440 3 4 36 242 14 26		13 440 3 4 36 242 14 26	9467 20632 63 46 2471 2060 1530 489
	778	_	778	36758

TUBERCULOSIS.

Of the beasts, I bull, 6 steers, 2 heifers, and 14 cows were found to be diseased to such an extent that the whole carcases were destroyed. 105 parts of beasts were also found to be tuberculous. 2 parts of calves, 96 pigs, and 252 parts of pigs, were also found to be tuberculous.

OTHER FOODS SEIZED OR SURRENDERED IN 1911.

72lbs. tins of beef, 247 rabbits, 106lbs. of wet fish, 14 turkeys, 1 fowl and 3½ gallons of prawns (the prawns were condemned by a Justice of the Peace), 2 boxes of kippers, 3 boxes of apples, 5cwt. of potatoes, 1 case of Spanish onions, 4 bushels of pears, 20 gallons of plums, and 12 small boxes of greengages.

One fish hawker was fined £3 10s, and costs for exposing for sale $3\frac{1}{2}$ gallons of unsound prawns.

SALE OF FOOD AND DRUGS ACTS.

Number of samples	collec	eted			. !	502
Number of samples						22
Number of prosecut						6
Number of conviction						3

Number withdrawn	***		***			2
Number dismissed		1000	***			1
Aggregate amount	in fin	es		£6	10	0
Analyst's fees recov				1	9	6
				£7	19	6
Cost of samples				£2	14	$6\frac{3}{4}$
Cost of assistance, p	ostage	e, and r	ail-			
way fares				6	11	5
Cost of analyses				176	13	0
Analyst's salary				50	0	0
				£235	18	113
Fines and Analyst's	fees r	ecovere			19	6
Net cost of working	the A	Acts		£228	19	$\frac{-}{5\frac{3}{4}}$

Two milk sellers were fined 20s. and 10s. and costs; one farmer was fined £5 and costs; two summonses were withdrawn on payment of costs, including analyst's fees, 5s.; and one summons was dismissed.

SALE OF FOOD AND DRUGS ACTS.

Statement of prosecutions and other actions taken in the County Borough of Brighton during the year 1911.

Name of Article.	No. of Sample.	Result of Analysis.	Proce unde Sale o and l Ac	alt of gal edings or the of Food Drugs ets.	Other action taken.	Remarks.
I. Milk I. Milk O. Milk	28 31 69 71 91 110 117 149 157 163 180 219 220 224 320 333 350 376 379 380 381 464	13.34% fat deficient 16.67% 6.67% 13.34% 10% 10% 10% 10% 10% 10% 10% 10% 10% 13.34% 8.0% 6.7% 6.7% 6.7% 13.3% 2.6% added water 16.6% fat deficient 22.35% added water 16.6% fat deficient 22.88% added water 16.6% fat deficient 23.29% added water 13% fat deficient 6.6%	dismi Sum	5/	Vendor cautioned '' '' '' '' Vendor cautioned '' '' '' '' '' '' Vendor cautioned	Withdrawn on payment of 10/6 towards costs.

I.—Informal Samples.

O.—Official Samples.

OTHER SAMPLES COLLECTED DURING 1911.

TUBERCULOUS MILK.

Forty-six samples of milk were collected and examined at the Lister Institute of Preventive Medicine, for the presence of tubercle bacilli.

In seven of the samples tubercle bacilli were found.

In consequence of the above results, eight farms were visited outside the County Borough, and 261 cows were examined by the Corporation Veterinary Inspector.

In one herd of 43 cows, two extremely emaciated cows were found, both of which suffered from extensive tuberculosis of the udder. The milk from these cows had been mixed with that of the whole herd until shortly before the date of our visit.

The animals were subsequently slaughtered at the Public Abattoir. On post mortem, each cow was found to have suffered from extensive tubercular disease of the udder.

On six of the farms, 23 other cows were found to be affected with induration of the udder. In each case a sample of milk was taken from the quarter affected, and submitted to the Lister Institute for examination, for the presence of tubercle bacilli; in none of these were tubercle bacilli found.

PUBLIC ANALYST'S REPORT.

By MEREDITH WYNTER BLYTH, B.A., B.Sc., F.I.C.

Table shewing the results of the analysis of samples taken under the Sale of Food and Drugs Act during the year 1911.

Samples of	Number of Samples.	Adulterated.	Percentage of Adulteration.	Nature of Adulteration.
Milk	316	22	6.96	Abstraction of fat. Addition of water.
Butter	82		-	
Milk Blended			_	
Butter	4		-	
Lard	9	****	_	
Cheese Condensed Milk	10		-	
Bread and Butter	6	_		
Margarine	16		_	
Sausages	8	1	12.5	Excess of boric acid.
Suet	1			
Condiments	11	-	_	
Tinned and	22		-	
Bottled Foods	10	-	-	0
Lemonade	1 26	-	-	Contained a trace of lead.
Drugs, &c	20			
1911 Total	502	23	4.58	
1910 ,,	535	23	4.30	
1909 ,,	554	12	2.16	
1908 ,,	501	53	10.57	
1907 ,,	506	- 50	9.88	
1906 ,,	501	61	12.17	
1905 ,,	503	60	11.92	
1904 ,,	501	47	9.38	
1903 ,,	507	92	18.14	
1902 ,,	502	114	22.70	
1901 ,,	490	93	18.97	

MILK.

The following table shews the amount of adulteration of milk, and the percentage of fat during 1911 and the four previous years.

Year.		Total Milk Samples.		Adulterated.	Percentage of Adulteration.	Average percentage of Fat.
1907		326		30	 9.20	 3.47
1908		375		48	 12.80	 3.51
1909		342	***	7	 2.04	 3.51
1910		320		14	 4.37	 3.56
1911	***	316	***	22	 6.96	 _

Table shewing total samples of milk analysed and proportion watered or deficient in fat from 1900 to 1911.

			Total Samples.		Below Standard.	Per cent. below Standard.	Average per cent. of Fat.
	(Wholesale,	1900-1910	872		36	 4.12	 3.57
Week day	,,	1911	96	***	8	 8.33	 3.44
Samples	Retail,	1900-1910	2120		216	 10.18	 3.53
	.,	1911	208		13	 6.25	 3.54
		1900-1910	36			 	 3.83
Sunday	,,	1911	_			 	 -
Samples	Retail,	1900 1910	386		33	 8.54	 3.54
	(,,	1911	12		1	 8.33	 3.91

REMARKS.

The year has been remarkably uneventful as regards the adulteration of foods. It is a satisfactory fact that in spite of very careful sampling of a variety of foods, very little adulteration has been detected. It must not, however, be forgotten that this does not imply that all food is pure—for example, the addition of colouring matter to milk; borax to cream, sausages and potted meats; chemical essences to sweetmeats; 'fruit juice' to jams; starches to infant foods, to say nothing of bleached flour and patent foods, still goes unchecked because either there is no legislation to deal with the matter or else the trader is protected by a label which to the uninitiated is often misleading. It seems probable that before long legislation will be introduced to meet these more subtle forms of adulteration.

M. WYNTER BLYTH.

THE LOCAL ADMINISTRATION OF ACTS RELATING TO FACTORIES, WORKSHOPS, WORKPLACES, BAKEHOUSES, OUTWORKERS, SHOP HOURS, SHOP SEATS, REGISTRY OFFICES, AND THE EMPLOYMENT OF CHILDREN.

The inspections are made by Inspector Mills, the Inspector appointed under the various acts.

There are at present on the Registers:-

262 Factories.

2,254 Workshops.

153 Workplaces.

4,291 Shops.

32 Registry Offices.

Total 6,992

The visits made during the year were to:-

Factories							85
Workshops	110			***		***	286
Workplaces		***					87
Bakehouses							295
Outworkers							66
Shops						2,	378
Employment	of Cl	hildren	Act		***		374
Cruelty to C							84
Registry Off	ices						58
Seats for Sh			Act				32
				Total .		3	745
				rotar .		3,	110

280 Inspections were made after nine o'clock at night.

Four summonses were taken out under the Shop Hours Act, 1892, and four under the Shop Hours Act, 1904.

- 21 Notices of occupation of new workshops have been sent in by H.M. Inspector.
- 14 Notices of workshops in which no Abstract of the Factory and Workshop Act was shewn have been forwarded to H.M. Inspector.

For the purpose of inspection and reference the Register of Workshops has been grouped as follows:—

Tailors				 98
Ditto, Outworkers				 303
Dressmaking and Ur	derel	othing		 338
Ditto, Outworkers				 168
Bootmakers and Rep	airer	8		 146
Ditto, Outworkers				 91
Laundries				 172
Bakehouses				 136
Building Trades				 176
Furnishing Trade			***	 139
Ditto, Outworkers			4.4.5	 36
Miscellaneous Trades				 451

The following alterations have been made in the Register of Factories and Workshops:—

				Closed.	Added.
Factories	 			4	0
Workshops	111	***	100	64	159

The following complaints have been received from H.M. Inspector respecting nuisances and defects in factories and workshops:—

Defective w.c.'s			5
Workrooms requiring whitewashing			
Infringement of Bakehouse Regulat	tions		
Overcrowded workrooms			
Insufficient w.c. accommodation			
Ventilation	1.11		
Means of escape in case of fire	***		1
Total		2	0

The premises complained of in respect of means of escape in case of fire were inspected by the Borough Surveyor, the Fire Superintendent, and Inspector Mills, who issued a joint report recommending an outside iron staircase and various internal and external alterations, which have since been carried out. The case was an important one, as the safety of nearly 200 employees was involved.

OUTWORKERS.

Lists have been sent in, and 100 letters were sent to the employers reminding them of their duty in this respect. 66 homes were visited, and there are at present 598 outworkers' homes on the register.

BAKEHOUSES.

295 inspections were made of bakehouses, and 58 breaches of the special regulations were dealt with.

SHOP HOURS ACTS, 1892-5.

Four summonses were taken in respect of a restaurant in which young persons were employed for more than 74 hours in one week.

One girl aged 14 years worked 99 hours. One girl aged 17 years worked 97 hours. One girl aged 17 years worked 95½ hours. One boy aged 15 years worked 90¾ hours.

The Magistrates inflicted the maximum penalty in the first case, and the remainder were withdrawn on the payment of costs.

SHOP HOURS ACT, 1904.

Only one Closing Order, "relating to hairdressers," is in force.

Four summonses were taken out during the year, one for failing to put the prescribed notice outside the door indicating that the shop was closed for the purpose of hairdressing, and three were for keeping open the week preceding Christmas Day. As these were the first cases under the Act they were withdrawn on the payment of costs.

SEATS FOR SHOP ASSISTANTS ACT, 1899.

Thirty-two shops in which more than three female assistants were employed were visited during the year. With two exceptions these were all provided with seats.

FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES AND HOMEWORK.

Including Inspections made by Sanitary Inspectors or 1.—Inspection. Inspectors of Nuisances.

	Number of						
Premises.	Inspections.	Written Notices.	Prosecutions.				
(1)	(2)	(3)	(4)				
Factories (Including Factory Laundries).	85	14	_				
Workshops (Including Workshop Laundries).	547	26	-				
Workplaces	87	3	_				
Total	719	43					

2.—Defects found.

	Nu	Number		
Particulars.	Found	Remedied.	Referred to H.M. Inspector.	of Prosecu- tions.
(1)	(2)	(3)	(4)	(5)
Want of cleanliness	23 16 1 9 18 2 21	23 15 1 9 16 1 22		
Act:— Illegal occupation of underground bakehouse (S. 101)	_		_	
Breach of special sanitary requirements for bakehouses (SS. 97 to 100) Other offences (Excluding offences relating to outwork which are included in Part III. of this Report).	58 —	54	Ξ	=
Total	151	144	_	

^{*} Including those specified in sections 2, 3, 7 and 8 of the Factory and Workshop Act as remediable under the Public Health Acts
+ Sec. 22 of the Public Health Acts Amendment Act is in force in Brighton.

4.—Registered Workshops.

		(1)			(2)
Making of wearing	apparel		 	 	1144
Bakehouses			 ***	 	136
Laundries			 	 	172
Furnishing Trades			 	 	175
Building Trades			 	 	176
Other Trades			 	 	451

5.—Other matters.

Class.					Number						
(1)											
Matters notified to H.M. Inspector of Fa Failure to affix Abstract of the I (S. 133)	Notif	erts (of Heart to H	.M. Inspe action tal .M. Inspe	ctor ken)	14 20 20 3						
Other Underground Bakehouses (S. 101) :—		***		***	3						
Certificates granted during the year In use at the end of the year					90						

3.—Home Work,

ted Pre- 09, 110.		Prose- cutions (S. 109,	110).	(16)	1 11	1
Outwork in Infected Premises, Sections 109, 110.		Orders made (S.110)		(15)	1-11-	
Outwork mises, S		In- stances.		(14)	1 11	1
olesome on 108.		Prose- cutions.		(13)	1 11	
Outwork in Unwholesome Premises, Section 108.		Notices served.		(12)	1 11	1
Outwork		In- stances.		(11)	1 11	1
,	emises.	er of Insper Forkers, Pr	odmuN wtuO	(10)	29 4	99
	zions.		Failing sil	(6)	111	1
	Prosecutions	norteetion	gailis Jimrəq ro if lo	(8)	1 11	
on 107.	babu	sorbbA to rkers formi er Council	owduO to	(7)	9 11	40
Lists, Section 107.	pani	of Address orkers rece her Counci	owtuO to	(9)	001	100
Outworkers' Li	m _o	Once in the year.	Out- workers.	(2)	∞	∞
Outw	s received fre Employers.	Once	Lists.	(4)	60	00
	Lists received from Employers.	Twice in the year.	Lists. Out-	(3)	790	807
		Twic	Lists.	(2)	98 +	100
		Nature of work. *		(1)	Wearing Apparel— (1) Making, &c. Furniture and Upholstery Other Trades	Total

* Where an occupier gives out work of more than one class, each class is separately enumerated,

TABLE I. - (Vital Statistics of Brighton during 1911 and previous years).

							96								L
TO	At all Ages.	Rate.	13	16.37	15.87	14.13	16.36	13.38	14.60	14.77	15.12	15.38	14.43		13.96
BELONGING STRICT.	At all	Number.	12	2025	1975	1769	2060	1696	1861	1895	1921	1997	1885		1835
NETT DEATHS BELONGING TO THE DISTRICT.	Under 1 year of Age.	Rate per 1,000 Nett	Births.	162	125	114	133	102	111	1111	104	95	- 111/		86
NE	Under 1 ye	Number	10	483	387	348	395	297	317	301	293	255	289	-	200
TRANSFERABLE DEATHS.	of Resi-	dents not registered in the District.	6											0.5	113
Transfera Deaths.	of Non-	residents registered in the District.	œ											0 10	113
DEATHS ID IN THE SICT.		Rate	1	16.86	16.49	14.64	17.12	13.72	14.80	14.77	15.16	15.50	14.72		14.42
TOTAL DEATHS REGISTERED IN THE DISTRICT.		Number.	9	2085	2025	1833	2156	1739	1887	1895	1956	2013	1923	2007	1830
	Nett.	Rate	5	24.12	24.68	24.33	23.52	22.89	22.38	21.13	21.76	20.60	19.99	90.04	19.80
Віктнѕ.	N	Number.	4											90000	2003
	III	corrected Number.	65	2984	3072	3046	2963	2901	2853	2710	5809	2675	2612	1040	5095
Population	estimated to Middle	oteach Year.	63	123,667	124,424	125,185	125,952	126,723	127,499	128,280	129,065	129,855	130,650	777	151,444
	ed.			-	:			:	.:	1	:	6	0		
	YEAR.			1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	101	181

Area of District in acres (exclusive of area covered by water) \(\)

Total Population at all ages 131,250Number of families or separate occupiers ... 30,720Average number of persons per family ... 4.3

TABLE II.

				1		Nu	mb	er	of D		as o	dur	ing	1911.			1 16	
Name of Ward.	Births in 1911	All causes.	Under one year.	Scarlet Fever.	Influenza.	Diphtheria.	Enteric Fever.	Measles.	Whooping Sough.	Diarrhea & Enteritis	Puerperal Fever.	Erysipelas.	Phthisis.	Other Tubercular Diseases	Cancer.	Bronchitis and Pneumonia.	All other Respiratory Diseases	Premature Birth.
King's Cliff	71	97 (41)	5	H	8	-	2	1	-	3		-	8 (4)	1 (1)	11 (5)	9 (7)	3 (1)	1
Queen's Park* Pier	161 199	148 163	13 32	-	3	1 2	-	-	1	12 13	1	2	9	5	12 14	23 26	3	1
Pavilion	73	54	7	1	3			_	2	1	1	_	7	1	8	7	5 2 1 1 1 1 2 2 1 2 6	
Regency	84	95	10	-	1	1	-	2	-	2	-	-	6	5	8	7	2	1
West	35 84	50 71	8	1	2 2	1		-	-	1 4	-	-	3 6		9	6 8	1	1
Montpelier St. Nicholas'	192	125	24		2	1			3	12	2		11		18	16	1	
St. John's	314	191	32		2	_		-	2	13	_	1	24	7 3	9	30	1	
Hanover	284	163	33	1	2 2 2 2	3	-	2	1	19	-	1	19	1	12	22	2	1
Lewes Road	389	202	29	4	2	-	-	1	1	9	-	-	24	7	22	28	2	
St. Peter's Preston Park	168 215	.161	12 18	1	2	-3		1	2 2	3 7	_		9	5 4	10 23	17 22	0	
Preston	315	204	28	1	4	-0		1	2	6			17	5	24	34	6	
Home addresses			1					-	5									
not known (ex-																		П
cluding Work- house deaths)		12	1							1			1	3				
house deaths)		12	1							1			1	3		-	_	T
Total	2584	1005	054	9	35	11	2	8	10	106	4	4	179	48	100	255	32	3

*The Queen's Park Ward contains the Workhouse. Where the information was obtainable, deaths in this Institution have been distributed to the Wards from which the patients were removed to the Workhouse. Of the 148 deaths in the Queen's Park Ward, 41 were of deaths of inmates belonging to the Workhouse, and whose home addresses were unknown. In the above Table these numbers are in italic.

The 71 deaths in the Montpelier Ward do not include the deaths of the number of children occurring in the Children's Hospital, whose home addresses were known, these being stated in the Wards to which they belong.

TABLE III.

INFANTILE MORTALITY-Nett Deaths from stated Causes under One Year of age.

Total Deaths under One Year.	255	848500000-580088-00+5	255
Months.	10	-4 -	10
10.11 Months.	o	- & - - -	6
9.10 Months.	=		=
8-9. Months.	=		=
7.8 Months.	∞	1-41-111-111-111	∞
6.7 Months.	4		14
Months.	15		15
Months.	21		24
3.4 Months.	16	43 - - - 4	16
2.3 Months.	83	0 -0 4 -0	65
I.2 Months.	1 29	- 2 - 401-01-0 - 01	59
Total under 1 month.	122	1 - 01014-0881-010 0	100
3.4 Weeks.	10	- - 01 10 -	10
2.3 Weeks.	± 1	-	7
I.2 Weeks.	51		12
Under 1 week.	64		65
	111		1
	11		:
			:
Causes of Death]	111	Measles Whooping Cough Diarrhea Enteritis Syphilis Meningitis (not Tuberculous) Infantile Convulsions Bronchitis Congenital Defects Atrophy, Debility and Marasmus Atelectasis Marian at Birth Atelectasis Coverlaying Overlaying Teething	1
or D	11		Te la
1888		gritis bercu ns as) und N	Total
CAI	(Certified Uncertified	Measles Whooping Cough Diarrhea Enteritis Tuberculous Meningitis Syphilis Meningitis (not Tuberculous) Infantile Convulsions Bronchitis Pneumonia (all forms) Gastritis Congenital Defects Premature Birth Atrophy, Debility and Marasi Atelectasis Injury at Birth Overlaying Teething Teething	
	(Cer	g Con ous A ous A ous A li Birt Birt is Birt is eases	
	l ses.	Measles Whooping Cough Diarrhea Tuberculous Menic Syphilis Meningitis (not Tu Infantile Convulsio Bronchtis Pneumonia (all for Gastritis Congenital Defects Premature Birth Atrophy, Debility Atelectasis Injury at Birth Overlaying Teething Other Discases	
	All Causes.	Measles Whoopi Diarrho Diarrho Enteriti Tubercu Syphilis Meningi Infantih Bronchi Preumo Gastriti Congeni Prematr Atrophy Atelecta Injury a Overlay Teethin	
1			

Nett Births in the year (Legitimate 2411. [Hegitimate 192.]

Nett Deaths in the year (Hegitimate infants......227.

TABLE IV.

							•	59															
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		AFFECTIONS PRODUCED BY EXTERNAL CAUSES— anging	Manslaughter—Fracture of Skull Other Violence		:
Causes of Death.		lace of the second	to y	L	70
		-AFFECTIONS PRODUC EXTERNAL CAUSES— Poisoning Browning Cutting Throat Jumping from high pl Other Acute Poisoning Conflagration Burns Drowning Drowning Injury by Fall Run Over Exposure to Weather	ure 	Dropsy Marasmus over I year Teething Found Dead	Total
		AFFECTIONS PRODUCES ISONING	act C	-	-
		NS I L CA	-Fr	over 1	
	83	NAI S S S S S S S S S S S S S S S S S S S	ole	ead ead	
	AUS	ECT ERE ing wing and a Acc Acc Acc Acc Acc Acc Acc Acc Acc A	Vii Vi	ing L	
	C	-AFFECTIONS EXTERNAL C Poisoning Hanging Drowning Fire Arms Cutting Throa Jumping from Other Acute P Conflagration Burns Overlaying Drowning Drowning Exposure to W	nslaughter—Fr Other Violence —Irr Deersen	Dropsy Marasmus ove Teething Found Dead	
		-AFFECTIONS PRODUCED B EXTERNAL CAUSES— Poisoning Browning Fire Arms Cutting Throat Jumping from high place Other Acute Poisoning Burns Overlaying Drowning Brand Over Exposure to Weather	Oti	Feer	
		H -	Manslaughter—Fracture o Other Violence XIV — Itt Deerven Carses		
		Accidental. Suicide.	>	1	

TABLE V.—(Local Government Board Table).

Cases of Infectious Disease Notified during the Year 1912.

	TOTAL CASES REMOVED	Hospital.	1 123	340	18	6	115 cases of Phthisis were	admitted to Sanatorium.
	Address	Опклочи д	111		TT		-	TT
	Preston 14.		1 12	999	03		-	10 83
	Preston Park 13.		81	27 10		111	61	10
IEI	St. Peter's 12.		00	1-8	0.1		4	31.0
E G	Lewes Road 11.		1 63	14	-	-	0.1	12
No	Hanover 10.		1 ∞	61	01	2	00	9 19
88	<u>'6</u>	St. John's	0.	9 2 4 4 4 9	1 5	00	4	9 7
TOTAL CASES NOTIFIED IN EACH WARD.		Montpelier St. Nichola	1 1-	- 83	-	-	-	-1-
O S	.9	West	1 -	01 01	-		1	-4
TAI	.6	Regency	11=	03	14	111		- 00
E .	**	Pavilion	00	014	1-	TIT	4	- 10
	.8	Pier	13	29.0	14	11-	6	
	.2 A1	Queen's Par	1 12	16	1 03		22	- 10
	T.	King's Cliff	10	16	50	-		44
		Unknown Age.	111	111	11	111	1 -	11
	At Ages—Years.	65 and upwards.	111	13	-	111	-	
H.		.68 of 66	111	0 -	-	111	1 41	60 60
ROUG		45 to 55.	11-	1 28 1	10	111	1 9	22 23
E Bo		.64 of 68	4	8 23	1,0	03	%	35
Уног.		.58 of 52	1 9	15 01	9	4	=	12
IN V		.62 of 02	1 9	4.0	0.1	00	03	14
FIED		15 to 20.	1 2	271	00	111	03	9
NOTIFIED IN WHOLE BOROUGH.		10 to 15.	1 1 8	5.9	-	111	0.3	6 3
CASES		5 to 10.	118	189	11	111		9 6
0		1 to 5.	118	8 68	0.1	HI	1 1	07
		Under J.	111	1 9	11	111	1 1	- 1
		At all Ages	155	383	1 26	116	1 19	135
NOTIFIABLE DISEASE.						Under Tuberculosis Regulations, 1908	Under Tuberculosis Regulations, 1911 Voluntary Notifications	
		x ::i:	Membranous Croup Erysipelas Scarlet Fever		Relapsing Fever Continued Fever Puerperal Fever	Under Tubercul	Under Tubercul lations, 1911 Voluntary Notii	
			Small Pox Cholera Diphtheria	Membranous Erysipelas Scarlet Fever	Typhus Fever Enteric Fever	Relapsing Fever Continued Fever Puerperal Fever	Plague .	Phthisis

Of 46 cases of Scarlet Fever occurring in Queen's Park
23 ... , , Montpelier
16 ... , English Cliff
15 ... Diphtheria , , Queen's Park
27 ,, Phthisis , , , , , , , , , , , , ,

Annual Report

ON THE

MEDICAL INSPECTION, &c.,

OF

SCHOOL CHILDREN

OF THE

COUNTY BOROUGH OF BRIGHTON

FOR THE YEAR 1911.

BY

DUNCAN FORBES, M.D., B.Sc., D.P.H., School Medical Officer,

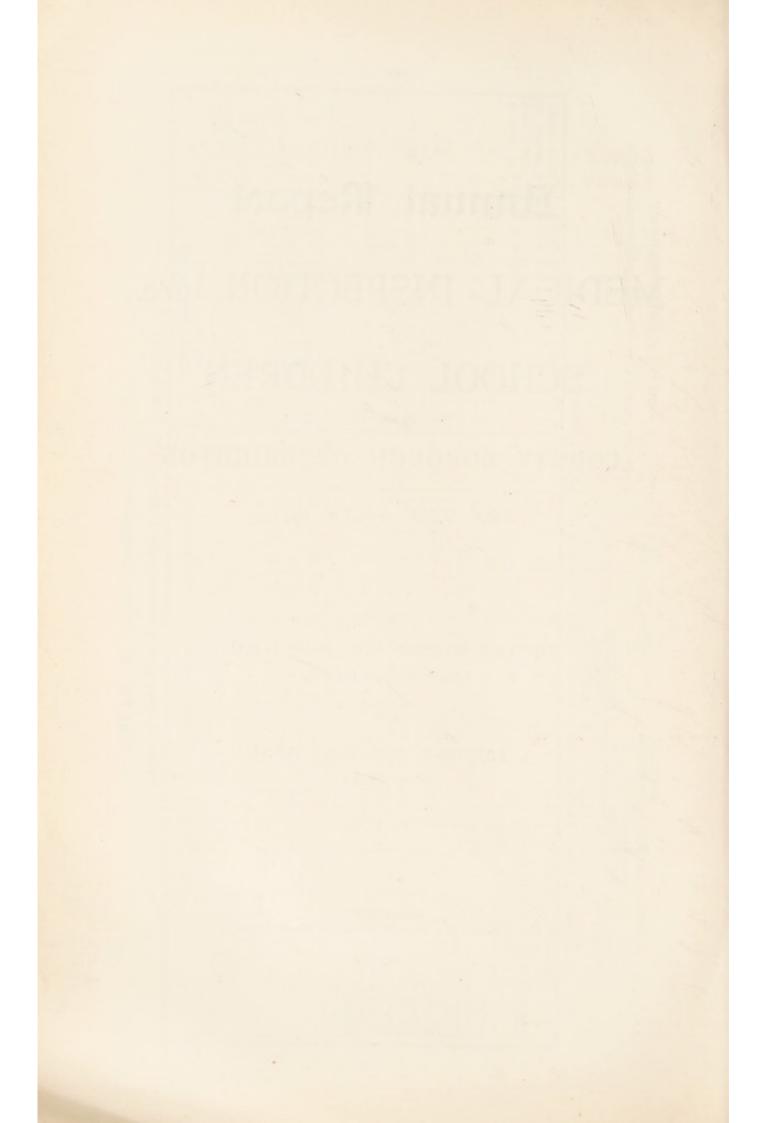
AND

J. LAMBERT, M.D., M.A., D.P.H., School Doctor.

BRIGHTON:

THE SOUTHERN PUBLISHING CO., LTD., 130, NORTH STREET.

1912.



GENERAL REVIEW OF THE PRINCIPAL DETAILS IN CONNECTION WITH ELEMENTARY EDUCATION IN THE DISTRICT.

The Borough of Brighton has an estimated population for 1911 of 131,444.

The area of the district is 2,620 acres.

There are 18 provided schools, including one for mentally defective children, and 15 unprovided schools.

In the 32 schools there are 80 departments. The following table shews the chief factors in regard to attendance during 1911:—

Accommodation	 	19,278
No. on Registers	 	18,276
Average Attendance	 	16,369
% Attendance	 	89.6

Percentage of the average number of children in attendance to population = 12.5.

The number of children in the elementary schools, arranged according to age grouping, was, in 1910-1911:—

	"Provided" and "Non- Provided" Schools.					
Ages	3-4	4-5	5-14	over 14	Totals	
Boys' Departments	_		5081	62	5143	
Girls' Departments	1	_	4948	54	5002	
Mixed Departments	22	69	1679	20	1790	
Infants' Departments	270	984	5219	_	6473	
Totals	292	1053	16927	136	18408	
Previous Year	371	1234	16538	154	18297	

Percentage of children under 5 years of age ... 7.3 { Provided Schools 6.3, Non-Provided Schools 9.7. Previous year ... 8.7.

It will be noticed that the percentage of children under 5 years of age has fallen by 1.4.

The rateable value of the Borough, £891,268: the Education Rate for 1911-1912 is 1s. 3½d. in the £.

The following table shews the cost of medical inspection and treatment based on the annual estimates for elementary school children in the year 1911-1912:—

Cost per child in average attendance ... 1/3 Cost as decimal of 1d. rate3, *i.e.*, $\frac{1}{3}$ d.

This includes practically all expenses incurred by the Medical Inspection Department of the Education Office. The increase over that of last year is due to extension of treatment and to provision of new offices for the Medical Department and Clinic.

The Annual Report has been written in accordance with the form prescribed in Circular No. 596 (1908) of the Board of Education. The lettering and numbers at the head of each section are those adopted in the schedule of the Board.

A full description of the routine adopted in medical inspection was given in the Annual Report for 1908, hence, except in special instances where there has been some change or where the Board require definite information, no detailed account has been given in this Report.

(a) Hygienic Conditions in the Schools.

In the earlier part of 1911 the Sanitary Inspectors visited all Elementary Schools, and from their notes the Table on the opposite page has been compiled.

General repairs, re-painting, etc., have been carried out in 17 schools.

Heating.—An improved system of low pressure hot water radiators has been installed at Park Street School. Attention has been drawn to the low temperature obtaining in the class rooms of all departments at Pelham Street School. A more efficient system should be installed.

To at 9 o'clock. Pelham Street Girls' Department.

							Class 1	Rooms.	
					Open Air.	1	2	3	4
Nov.	21st,	1910			32.4	36°	36*	39°	52°
	29th,				34.0	41°	40°	42°	47°
Jan.					36.2	38°	38°	38	45°
	31st,				29 4	40°	40°	46°	47°
	2nd,		(2 p.m	.)	36.8	56°	52°	50°	58°
					(max.)				

^{*} On the day previous to this date, fires were lighted at 10 p.m. and kept up during the night; the temperature at 9 p.m. was 38° F., i.e., 6° above freezing point. The fires are usually lit at 6 a.m.

Galleries have been removed at Pelham Street Boys' School.

The re-construction of St. John's School, condemned in February, 1910, is still under consideration.

The new School (Coombe Road), of the Staffordshire type, with through ventilation for each class room, is completed and is now open. A Medical Inspection Room and a system of shower baths have been provided. Each class room accommodates 50 children only.

New dual desks have been supplied in partial replacement of old ones in eight schools, at a cost of £200 during 1911.

SCHOOL ROOMS AND CLASS ROOMS.

		Remarks.	Secondary & Cookery Schools not included.						ldren n the	i s		[D .	ni9	q ₃		
	ns lery.	No. of root having a gall	: : : :	::		ing		No Covered Sheds.	24	: :	: :	:	:	: :	:	: :
	No. in which Oil Preparation is used on the floor.		: 8 : :	1 ::	OUNDS.			Covered Sheds in Playground.		: :	::		:	: :	:	: :
	nsed.	Chairs and Tables.	;# ; ;	::	PLAYGROUNDS.	Ground.		Paved.	.00	: :						: :
	Kind of Desk used.	Land	251	- :	I	Mumbon	amne	30N					_	: :	:	
	Kind	Long.	:12 ::	::	4	2		Paved.	57	::	: :	:	:		:	: :
	10 (SEC) 11 F	Electric Light.	118	∞ ;		Tol	w.e.	No Separate Teachers	10	: :	::	:	:	: :	:	::
MOOMS	Artificial Lighting.	Incandescent Gas Burner.	: : : : : : : : : : : : : : : : : : : :	1.18.		in use.	Teachers.	Separate w.c.'s.	65	: :	: :		:	: :	:	::
7.1	rtificia	Gas Burner.	97	HALLES.	- 1	w.c. ii		Trough.		: :	: :	:	:		:	: :
CHASS	A	.vlno vranibrO				Kind of	Children's	Separate w.c.'s.	49	: :	: :	:	:	: :	:	: :
AND	ting.	From Back	177	- : :			_	Trough.	: 12	: :	: :	:	:	: :	:	: :
-01	Natural Lighting.	From Front only.	:0 ::	::	::		Lavatory Basins.	Defective.	:00	: :	: :	;	:	: :	:	: :
TACOMS	tura	Bad.	:9 ::	11	OMS.	Rooms.		Good.	81	: :	: :	- 22		: :		: :
DOUGH I	N	. Good.	304	21 ::				Distance between Tiers.	1= 7	3=10 15=12	1 = 13 12 = 14	10 = 15	01-01	20=18	2 = 19	7 = 20 2 = 24
DOG!		aý.	 1 t water,	1	OF CLOAK			Largest Number of Tiers.	29=2 42=3	# :	: :			: :		::
	ting.	Other Systems.	Hot air, 31 Hot air and open fire, 14 Hot air and hot water, 11 Open fire, hot air and hot	Hot air, 7 Hot ater,	INSPECTION			Distance Apart.	1 = 5" 3 = 6"	6= 8"	$7 = 9^{\circ}$ $25 = 10^{\circ}$	13=11"	1-12	$3 = 14^{\circ}$:	1 :
	of Heal	Oth	ir, 31 ir and c ir and l fire, bo	ir, 7	IN	Number	Opening to	Corridor or Staircase.	80	: :	: :	:	::	: :	:	::
	Method of Heating.		Hot a Hot a Open	Hot a Hot ai		Nun	Open	School Room.	:9	: :	: :	:	:	: :	:	: :
	W	Radiators .vlno		O1 :		Natural	Lighting	Not Good.	: ∞	: :	: :	:	:	: :	:	: :
		Radiators.	otaibaH :- : - :			-		Good.	78:	: :	1 1		-	1 1		: :
		Open Fire &		- :		-	Numoer	Not Heated.	7 59	: :				: :		1 1
		Inspected			2	eq.	Inspect Heated.	6 27	::	: :	H		: :			
	Number		310	12		1		quinN	:98		11		•	: :		: :

Cleansing of Schools-The Use of Dust-allaying Preparations.

Attention has been drawn in the Reports for 1909 and 1910 to the use of certain preparations for the prevention of dust in the schools. The liquid preparations for use on the floors have been applied in 25 departments of 13 schools, and the results have been quite satisfactory. Experiments in regard to sweeping powders have shewn that, as regards dust laying, they have not the same efficiency as the oil preparations, but they do not disfigure the floor as these latter do. They possess a certain cleansing action on the floor owing to the sand they contain, but one could not recommend that where they are used the routine scrubbing of the floor should be dispensed with. It does not appear that they will prove economical in use as compared with the common method of using sawdust damped with a disinfectant solution.

(b) The Arrangements for the Co-Relation of the School Medical Service with the Public Health Service.

The Medical Officer of Health is also the School Medical Officer. By the guidance of both services by one individual all friction and duplication of work are avoided, and the experience and time of the Sanitary Staff is available for school work. The time given by the staff of the Public Health Office is occupied (1) in the making of inquiries and in the taking of action to prevent the spread of the exanthemata, (2) in the inspection of school buildings, and (3) in the carrying out of the provisions of the Employment of Children Act, 1903, and the Children Act, 1908.

The great bulk of the work falls to the School Doctor, two School Nurses, and two lady clerks; these devote their whole time to school work.

SUPERVISION OF CHILDREN ABSENT FROM SCHOOL ON THE GROUND OF ILL-HEALTH.

A full account of the methods adopted in respect of the above was given in the Annual Report for 1910, in which the following points were dealt with: Reserve Sickness Register, exclusion of individual scholars under Art. 53 (b) Code, School Attendance Branch Sub-Committee, Attendance Slips. The following table gives particulars of official exclusions by the School Medical Officer for 1911:—

		at Ins	ons (in weeks) pection and nent Clinic; t Medical pection.	Exclusions (in weeks) issued by the Public Health Office.
Non-notifiable Infecti	ous Disea	ses	3071	-
Notifiable Infectious	Diseases:	_	-	
Scarlet fever		***	15	1669 4
Contacts .				393 1
Diphtheria .				659
Contacts .				431
Phthisis			1391	_
Other tubercular dise			1141	_
Tonsillitis and enlarg	ed glands	neck	-	
(non-tubercular)			863	
Rheumatism and cho	rea		851	
House Missesses			38	_
T 1!		444	64	
37 .			159	_
T2 11			71	_
Anæmia, dyspepsia,			1551	-
Eye diseases and erro	rs of refr		300	_

		at Ins Treatn and a	ons (in weeks) spection and sent Clinic; tt Medical spection.	Exclusions (in weeks) issued by the Public Health Office.
Ear diseases	 		171	_
Ringworm	 		23165	-
Impetigo or eczema	 		330£	-
Other skin diseases			00"	_
Other conditions	 		$293\frac{1}{2}$	
			$4592\frac{1}{4}$	3153
		-		

The total certified absences by the School Medical Officer and School Doctor, therefore, amounted to 7,745 weeks exclusion. The schools met for 44 weeks in the year, and thus one may calculate this in the terms of children away for a whole year, e.g., $\frac{7745}{44} = 176$, i.e., the total exclusions were equivalent to 176 children away for a whole year or (the number of children on the rolls being 18,227) a loss of attendance equal to *9%.

The absence due to illness and disease is certainly much greater: the above results were arrived at without including the big group of exclusions due to non-notifiable infectious diseases, e.g., chicken pox, measles, whooping cough, etc., which did account for a large number of absences, nor has any allowance been made for many minor ailments, such as colds, etc., nor for children receiving private medical advice.

We hope shortly to be able, by means of a duplicate register and a weekly return of exclusions, classified according to disease, from each Department, to get a more accurate record of the loss of attendance from certified medical causes.

THE ROUTINE OF MEDICAL INSPECTION.

A full and detailed account of this has been given in all previous reports; as no difference has been made during 1911 an account is omitted here.

THE PROCEDURE OF "FOLLOWING UP."

After the inspection, the parents of children found to be defective in any way are notified of the defect or disease, and advised to seek treatment from their usual Medical Attendant (Form 5 M.I.).

If any condition requiring further examination has been found, the parents are requested to attend at the Public Health Office with their child. After such re-examination, advice is given as to the precautions to be taken, and the necessity or otherwise of obtaining treatment. The re-examinations usually made are in cases of heart and lung diseases, diseases of the nervous system, and errors of refraction.

After notification, the home is visited by a School Nurse, who advises the parent what steps should be taken to cure the child. The advice given depends on the nature of the defect, and on the social circumstances of the family. In order to facilitate the visitation of such cases a card-index system is used, streets being grouped in alphabetical order; the names of cases in each street are entered upon the card from a list furnished to the School Nurse. The work of visitation has thus been rendered much easier.

Visits are made on at least three occasions if no treatment is obtained. In cases of difficulty the parent is referred to the School Doctor, and the child is re-examined at the Medical Inspection Offices, and the mode of obtaining treatment is shewn; generally this resolves itself into the provision of Hospital Letters, or the arrangement for the child to attend Hospital on certain days, when the mother is at liberty. The provision of spectacles at cheap rates also belongs to this branch of the work.

When a child has failed to obtain treatment, pressure is often brought upon parents by the Head Teacher, the child being sent up to the Medical Inspection Offices for re-examination. As each Head Teacher is furnished with a list of names of defective children, divided up into three groups, according to the nature of the treatment (e.g., Hospital or Private Doctor,—Advice only,—Exercises), it is easy for them to note whether treatment is obtained or not, and hence to be of material assistance in "following up" cases.

Many cases, in which attention has not been given to the child, are brought up at the following medical inspection at the school, and the parents are again notified and followed up, often with good results.

The provision of Care Committees has already been mentioned; this would be of great assistance in the work.

The schedule of inspection.—No alteration has been made in this during 1911. The official schedule has been followed with slight alterations only.

b (iii.) Presence of Parent at the Inspection.

A card inviting the parent to be present is given to each child due for examination (Form 3, M.I.). Information is asked for in regard to the previous illness of the child; the card is then returned, and the entries copied on the schedule by the Nurse.

In no case was a child examined if a note of protest had been sent. In some of those cases in which no evidence was forthcoming of an objection (except non-attendance at school on the date in question), the children were subsequently examined after a further notice to the parent.

In cases in which the parent raised objection to the examination, it was usually on the ground that the child was already under medical treatment at the time. In these cases the doctor has been specially called in to treat certain symptoms, e.g., those of anemia, of dyspepsia, etc. He does not proceed to an examination of eyesight, or hearing, unless specially requested to do so. Hence, although already under medical attention, it may quite easily happen that some defect, seriously interfering with the child's education, is present, and this would rapidly be revealed in the routine inspection of the School Doctor. For this reason it is advisable that teachers should bring this view of the situation before all parents objecting on these grounds.

In all cases in which the child is already under medical supervision the parent is requested to continue until the Medical Attendant is satisfied that recovery is complete.

The percentage of actual refusals was 2.2 per cent. on the total examined. The number of children absent on the day of inspection (chiefly owing to illness) and not subsequently inspected, was 227, i.e., 2.9 per cent.

Thus 95 per cent. of children receiving notices were examined.

Altogether 3,416 parents or guardians (43 per cent.) attended out of 7,862 invited.

The attendance of parents was always highest in the infants' departments (56 per cent.), next in the girls' (39 per cent), and lowest in the boys' departments (26 per cent.).

The percentage of parents attending the inspection has risen continuously since 1908, the year in which routine inspection was commenced:—

Year.				% of	parents i	n attendance.
1908	 	***	***	 		22
1909	 	***		 		38
1910	 			 		39
1911	 			 		43

The co-operation of parents in the subsequent treatment was always asked for. Notification of the defect or disease, personal interviews, advice as to the necessity and means of obtaining treatment, periodical visits paid to the homes by the School Nurse were the chief means employed to this end. The results of these efforts are discussed later under the heading of treatment.

b (iv.) DISTURBANCE OF SCHOOL ARRANGEMENTS.

Inspection was carried out in a class room in 60 departments, school hall in 11, head teacher's room 2, and rooms adjoining the school premises (club rooms) 6. (See also Annual Report, 1910, page 84).

c. General Statement of the Extent and Scope of Medical Inspection during 1909.

c (i.) Visits to Schools and Departments.

Inspection has been carried out in all the departments of the 32 schools.

For the purpose of the routine inspection 185 visits have been made to the various departments. In 1910, 151 visits were made. The infants' departments require considerably more visits than the boys' and girls' departments, owing to the larger number of children to be inspected.

In the examination of children for free meals, 93 visits were made to schools.

In the course of special enquiries at schools, 182 vists were made by the School Doctor. This includes a weekly visit made to the special school for the examination of mentally defective children.

The total number of visits made to the 32 schools was 460, as compared with 417 in 1910.

c (ii.) The Selection of Children for Inspection.

The following is the grouping of children inspected during 1911:-

- 1. New entrants since the 1910 inspection (s. 13, Education Act, 1907). 2. Children born in 1898, i.e., in their 13th or 14th years; no child
- leaves school at an earlier age in Brighton (s. 12, Circular 576). 3. Children born in 1901, i.e., in their 10th or 11th years.
- 4. Children born in 1904, i.e., in their 7th or 8th years.
- Children selected as defective by the teaching staff.

In the first year of medical inspection (1908), only entrants and leavers were examined; in 1909 the 7-year-old group was added, and in 1910 the 10year-old group. Thus each child will now be examined four times during the school career, viz., on entrance, and at the ages of 7, 10, and 13. These four examinations should be adequate to prevent any defect or disease escaping notice while the child is at school. It follows, also, that by the end of 1913 every child attending the elementary schools in Brighton will have been medically inspected at least once.

The selection of children born in definite years, e.g., 1898 and 1904, facilitates the clerical work in connection with the grouping of cases. Such a selection brings children of two separate age periods into each group, e g., children born in 1898 are either 12 or 13 when examined in 1911. If selection be made by the year of age it may well happen, even with good organisation, that certain children are inadvertently missed out of the examination; in any case the work of selection is much increased; whereas the procedure of selection, according to year of birth, is very simple. From the physical point of view it makes little difference whether a child be examined at 12 or 13 years of age, and if inspection be carried out regularly throughout the year, statistics at these ages are not vitiated.

c (iii) The Number of Children Inspected.

The following table shews the number of children seen at routine inspection in 1911, classified according to age and sex.

Age.	Male.	Female.	Total
Age.	90	67	157
4	329	267	596
5	412	439	851
6	585	531	1116
7	614	576	1190
8	95	87	182
9	457	447	904
10	505	515	1020
11	61	65	126
12	398	395	793
13	449	470	919
14	2	6	8
Totals	3997	3865	7862

From this table it will be seen that the majority of children were examined at ages 5, 6, 7, 9, 10, 12 and 13; the variable age at entry causes the number of examinations made at 3 and 4 years of age to be fewer.

The children examined in intermediate years are chiefly those selected for special reasons (e.g., defects) or are those entering the schools after having completed part of their education in other districts. It is essential that this be borne in mind in estimating the value of any statistics subsequently given; the statistics relating to years 3, 4, 5, 6, 7, 9, 10, 12 and 13 give results for the average child, but at other age periods they may, in view of special selection for defects, be inaccurate.

Apart from the routine inspection, cases are specially examined or re-examined at the Medical Inspection Offices and Clinic; many are also examined for the Canteen Sub-Committee.

c (iv.) Children referred for subsequent or further Examination.

At the routine inspection certain children are thus referred for a more detailed examination. The chief defects necessitating this are diseases of the heart and lungs, of the nervous system, deformities and eye defects. These children, if necessary, are periodically re-examined.

37 children were referred for subsequent examination, i.e., *5 per cent. of the total inspected (7,862).

Many children are referred by School Nurses, Head Teachers or Attendance Officers to the Inspection Clinic held on Monday, Wednesday and Friday at 5 p.m., at 7, Gloucester Place. Many of these have already been seen at the routine inspection, hence the number actually re-inspected is much larger

than that given above. Thus the number of attendances made in the reexamination of old cases was 1,389, while 727 children were also specially examined at the Inspection Clinic.

At the schools, 414 children were examined in addition to the children down for routine inspection. In these cases the teacher or parent required advice on some special point.

c (v.) Statement of the Chief Defects Revealed by Inspection.

A summary is given in the following table of the defective conditions in which advice or treatment was necessary.

The table is based upon statistics derived from 7,862 children.

Defect or Disease.		No. of Defects.	Percentage of Total Examined, 1911.	% 1910.
Defective vision and squint		424	5.4	5.2
Eye diseases (c.b.)		136	1.8	1.7
Enlarged tonsils		19	.2)	.7)
Adenoids		793	10.1 12.9	6.3 8.6
Adenoids and tonsils		199	2.6	1.6
Deafness and otorrhœa		249	3.2	2.9
Mouth breathers		369	4.7	7.1
Defective teeth (requiring in	nme-			
diate treatment)		223	2.9	4.3
Skin diseases		368	4.7	2.8
Tubercular diseases		42	.5	.7
Lung diseases		63	.8	1.2
Heart diseases		51	.6	.7
Central nervous system	***	136	1.8	2.3
Deformities		104	1.4	1.7
Other conditions		204	2.7	2.4
Mental deficiency		72	.9	1.0
Verminous condition		313	4.0	3.2
Total defects		3765	47.9	46.4

The total number of physical defects, excluding mental defects and verminous children, found in 7,862 children was 3,380, average, .43 defects per child. Excluding mouth breathers, the figure is .38 defects per child.

It should be clearly undrestood that several defects may be present in one child, e.g., a child may have adenoids and deafness with defective vision. The number of defective children has, therefore, been calculated and found to be 2,970 or 37.7 per cent.; exclusive of mouth-breathers it is 2,681 or 34.1 per cent.

From these figures it will be seen that approximately 35-40 per cent. of the children in the Elementary Schools require advice or treatment for physical defects.

This is a large percentage, and unsupported by further analysis might convey a false impression. It will be noticed that the figure drops to 34.1 per cent. if one excludes simple mouth-breathers, curable by exercises.

The following table has been drawn up to shew the proportions of defective children requiring definite medical treatment, physical exercises, or advice:—

The results are tabulated for sex, and according to the department of the School.

Department.			Total examined.	Adv	rice.	Exer	cises.		dical ment.
		Cauminet.	No.	%	No.	%	No.	%	
Boys			2129	115	5.4	172	8.0	485	22.3
Girls	***		2109	186	8.8	151	7.1	546	25.8
Infants	$\left\{ \begin{matrix} \text{Boys} \\ \text{Girls} \end{matrix} \right.$		1868 1756	100 163	5.3 9.2	163 106	8.7 6.0	389 394	20.8 22.4
Totals	∫ Boys (Girls		3997 3865	215 349	5.4 9.0	335 257	8.4 6.6	874 940	21.8 24.3
Grand T	otals		7862	564	7.1	592	7.5	1814	23.0

From this table it may be seen that:-

- Defects are rather more than numerous in girls (39.9%) than in boys (35.6 %).
- Defects requiring exercises for their correction (more especially mouthbreathers) are more common among boys than girls.
- 3. Defects which require advice or exercises are proportionately more numerous in the infants' departments, while more serious defects, necessitating medical treatment, are proportionately and actually more numerous in the boys' and girls' departments. There is, thus, a tendency towards an increase of defects or deterioration as the child passes into the higher portion of the school.

This deterioration is probably most marked in the increase of visual defects and adenoids. That this is so will be shewn in later tables.

Increased selection of defective children in the higher departments may be responsible for some of this apparent increase of deterioration.

- 4. Of 37.6% of defective children, 23% require medical treatment, while 14.6% can be dealt with by advice or simple exercises.
- Medical treatment (as contrasted with simple advice and exercises) is required for girls rather more frequently than for boys.

The results given above, as contrasted with those of previous years, shew some increase of the number of defects, if mouth-breathers be excluded:—

Year.		(Vermi and	nous cases mental omitted.)	Excluding mouth- breathers.	Per cent. defective children.	Excluding mouth- breathers,
*1908			39	28	36	26
1909			47	31	39	26
1910			42	34.9	36.8	31.9
1911	***		43	38	37.7	34.1

*In 1908 the standard for defects was not so strict as in later years.

There is an increase in the total number of defects and defective children as compared with the 1910 records.

"Mouth-Breathing" forms a much smaller proportion of the defects than in 1910; hence, when this is excluded, the residue is higher than in 1910. The increase is due to the placing in this group of slight adenoids, many previously classed as simple mouth-breathers; after several examinations it has been found necessary in many cases to do this.

c (vi.) The Time occupied for Inspection.

The average time per head for inspection has been given in a preceding paragraph as from 3-5 minutes. This is the time actually occupied in inspection, as apart from such time as is taken for dressing, etc. The weighing and measuring takes from ½-1 minute, the medical inspection 3-5 minutes, and the testing of vision about 1 minute.

This allowance means that about 80 children can be inspected daily, if the organisation is good.

The factors on which this depends have already been discussed.

The actual time occupied by medical inspection may seem very short, but it is to be noted that many of the entries on the schedule card can be made from simple and accurate observation alone, and if these entries are made by a clerk, the time necessary for recording them is very short. Again, accurate observation eliminates many of the defects or diseases to which children are liable before any physical examination is made to confirm this, and as soon as the eye has been trained to observe in a routine manner such details as are necessary, still further economy of time results.

d. General Review of the Facts Disclosed by Medical Inspection.

Mental Capacity.—The entries under this heading were filled up by Head Teachers, who are, generally speaking, better able to form a correct judgment than the Medical Inspector, unless a considerable amount of time be spent by the latter. Cases in which there is any doubt are investigated by the School Doctor.

The following table shews the number and percentage of children inspected in 1911, mental capacity being classified as suggested by the Board. It is based on statistics from 6,258 children between the ages of 6 and 14, and includes the statistics from the special school with 46 mentally defective children:—

	Bog	/8.	8.		irls.	
Mental Capacity.	No. of Children.	Per-		o. of hildren.	Per- centage	Total centage.
Bright	 1671	52.5		1748	56.5	 54.6
Fair	 1038	32.8		1000	32.3	 32.6
Dull	 322	10.2		247	7.9	 9.1
Backward	 88	2.8		63	2.0	 2.4
Mentally Deficient	 47	1.5		34	1.1	 1.3
Imbecile	 0	0.0		0 -	0.0	 0.0
Totals	 . 3166			3092		

From this table it will be seen that 87% of the children are of normal intelligence, and about 13% are considerably below normal. Girls are, on the whole, found to be rather more intelligent than boys. The figures for mental deficiency here given include 46 children in attendance at the special school.

The actual number of mentally deficient children known to be in attendance in the elementary schools, or of such an age as to be educated in elementary schools, is 120, i.e., .73% on the average attendance (16,000). For the special education of these defective children there is, at present, one special school in Brighton, with accommodation for 40 children—about 47 children are on the roll at present; the remaining 73 are in attendance in the elementary schools, or have been excluded from such schools as ineducable.

In the Annual Report for 1909 an account of a special investigation as to mentally deficient, dull, and backward children was given, and certain recommendations were made in regard to the provision of additional accommodation and training. These were as follows:—

- Special (or practical) classes to be established, in various schools, for 250 children, intermediate between backward and mentally defective.
- A special school to be provided to accommodate from 100 to 120children who are mentally defective.
- 3. A school of the same size for the education of physically defective children.

EXPERIMENTAL CLASSES OF THE INTERMEDIATE TYPE.

A full and detailed description of the experimental classes for childrenbetween the mentally deficient and the merely dull (the so-called "intermediate" group) was given in the Annual Report for 1910.

Two of such classes have been established—one in April, 1910, at Richmond Street Boys' School, and one in November, 1910, at Hanover Terrace-Girls' School.

The chief object of these classes is to give much more manual instruction, and to adapt as freely as possible educational handwork to the usual subjects of the school curriculum. Indirectly it is hoped to foster originality and develop initiative in a group of children, who, previously, have certainly not had opportunity or facilities for development of these characteristics. Thereis, in these classes, scope, not only for the acquisition of "learning," but also for the development of character.

The work of these classes has been very satisfactory during 1911, and there can be little doubt that the formation of the classes has been justified by the results obtained. An extension of such classes to other districts would beadvisable.

Summary of the General Conditions of Scholars in Intermediate Class,
Richmond Street Boys, 1910-1911.

Age on admission:		10	11	12	13	Total
Number:		1	13	11	2	27
Standard:	II.		III.	1	V.	
	8		11	1	3	27

Some of the boys were above the standard given in certain subjects, but were so backward in other branches that they had been kept back.

Two cases were subsequently classified, after observation, as mentally defective.

Physique-	-Good	***		 	8
	Moderate			 	11
	Poor			 	8
Nutrition-	-Good or n	ormal		 	12
	Sub-norm	al or I	000r	 	15

It will be noted that, compared with average children, these are deficient in physique and nutrition.

Physical Defects.—Adenoids of some grade in 4; otorrhœa in 2; 5 were mouth-breathers.

Lack of nerve control as seen in twitching of muscles, habit spasm, etc., in 4 cases.

Subsequent History of the Class-

Number on roll, April, 1910 ... 27 Admitted since then, up to December, 1911 ... 13

Three of these were transferred from the Mentally Defective School.

Left up to December, 1911 13

The records of those who have left are given :-

1. Emigrated to New Zealand.

2. Went to Hove; now in an elementary school there.

3. Sent back to original school owing to frequent truancy.

4. Went to Workhouse.

5. Boot repairing.

6. Tailoring.

7. Paper-seller (there are 12 children at home).

8 Hawker-working with father.

In regular 9. Station engineering works.

In regular work.

10. Stable boy.

11 Plasterer-working with father.

12. Shop assistant—with father.

 Gordon Boy messenger; owing to small stature and poor physique could not take up an apprenticeship offered him.

In three cases the parents allowed the boys, after the age of 14, to remain at school in this particular class until they had obtained regular work. This is practically an unheard-of incident in this particular School.

HANOVER TERRACE GIRLS' INTERMEDIATE CLASS.

Formed in November	, 1910		
Number on roll		 	 21
Left up to December,	1911	 	 8
(all at		.).	
Admitted up to Decer	100		 10

This is a class for intermediate and very backward girls, selected after medical examination as suitable for the special course.

Two have since been sent to the special school as mentally defective.

The children in the 5th standard were really of standard III.-IV. intelligence.

Physical Defects.—Five shewed some defect of vision and three slight deafness. The majority were children of sub-normal nutrition and physique.

Mental Defects.—In all, the reasoning faculties were very poorly developed; this was especially noticeable in regard to number. 50% were far below the standard for their age, and not a single child was even up to the average in this respect.

Training.—This has been largely manual, handwork of various kinds being used in connection with most of the subjects. Domestic work, hygiene, and care of children and infants has been well taught, and the Head Mistress reports that the children take a keen interest in this part of the work.

Speech.—The entries under this heading are also filled in by Head Teachers.

The following table gives the results obtained from the records of 6,258 children between the ages of 6 and 14.

		Boy	8.	Gi	rls.
Stammering Other defects		o. defective. 17 22		 5 14	Per cent. .2 .5
Total examined	l	3166		3092	

The results shew that there has probably been defective filling in of these details, as the amount of speech defect is undoubtedly higher than this.

It will be seen that speech defect is commoner among boys, that of stammering especially. A recent enquiry made at 12 of the largest boys' departments in Brighton revealed the fact that there were 57 boys who stammered or stuttered; of these, 25 were very bad cases.

In the last three Annual Reports the special tuition of such cases was mentioned, and a recommendation was made to that effect. An experimental class is now being held at the Evening Schools from 7-8 p.m. on three nights a week. In this class 12 boys of 12-13 years of age are being trained by an ex-teacher of the Education Authority. The selection of the cases and the supervision of the training is carried out by the School Doctor, and should, as seems probable, such a class be beneficial, it will probably be made permanent.

Anthropometric Measurements.—The following tables relate principally to school entrants and children born during the years 1898, 1901, and 1904. The method of examining groups of children born in certain years makes the work of picking out the children easier for the teacher, and also prevents any children being missed. The latter point may be illustrated as follows:—If 7-year-olds in a certain school were examined in January, 1910, and December, 1911, it is evident that in the interval between the examinations many children would live through their 7th year without being examined.

One of the advantages of examining children at a given age, say 7, is that the average age of the children examined is $7\frac{1}{2}$ years. The average height and weight of such children are, therefore, the averages for 7-year-olds. On the contrary, if children born in 1904 are examined in 1911, groups of 6-year-olds and 7-year-olds are examined whose average age is not 6 years 6 months, and 7 years 6 months, but 6 years 8 months and 7 years 4 months. This assumes that an equal number of births have occurred, and that equal numbers of children are examined on each day of the year.

A table shewing the method by which these results were arrived at was inserted in the Annual Report for 1910.

The following table shews the average height and weight of children, classified according to age and sex:—

- 70	m				
- 4	ĸ	0	Э.	ts	۶.
-	×	30	53	15	re.
			97		

A	Corrected	No.	Total Weight.	Ave Wei	rage ght.	Total	Ave Hei	rage ght.
Age. C	Age.	Examined.	kils.	kils.	lbs.	Height. cm.	em.	ins.
3- 4	$3\frac{s}{12}$	90	1298.1	14.4	31.7	7426.5	82.5	32.5
4-5	4 6	314	4935.6	15.7	34.6	31093.5	99.0	39.0
5- 6	$\frac{4\frac{6}{12}}{5\frac{5}{12}}$	403	6883.1	17.1	37.7	42348.2	105.1	41.4
6- 7	$6\frac{7}{12}$	566	10589.5	18.7	41.2	62722.5	110.8	43.6
7-8	$7\frac{3}{12}$	612	12416.5	20.3	44.8	70503.0	115.2	45.4
8- 9	8 6	94	2098.8	22.3	49.1	11337.0	120.6	47.5
9-10	$9\frac{8}{12}$	454	11241.6	24.8	54.7	57286.5	126.2	49.7
10-11	$10\frac{3}{12}$	501	13033.0	26.0	57.3	64980.6	129.7	51.1
11-12	11 6	61	1780.3	29.2	64 4	8199.0	134.4	52.9
12-13	$12\frac{8}{12}$	399	12718.9	31.9	70.3	55902.7	140.1	55.2
13-14	13 3	449	15081.3	33.6	74.1	64445.0	143.5	56.5
14-15	14 8 12	2	* 76.6	38.3	84.4	309.0	154.5	60,8

Total .. 3945

Girls.

A	C	N.	Total	Aver		Total	Ave. Hei	rage ght.
Age. (Corrected Age.	No. Examined.	Weight. kils.	kils.	lbs.	Height. cm.	em.	ins.
3-4	3.7	67	939.1	14.0	30.9	6158.0	91.9	36.2
4-5	$\begin{array}{c} 3\frac{7}{12} \\ 4\frac{7}{12} \end{array}$	275	4130.3	15.0	33.1	26034.9	94.7	37.3
5- 6	$5\frac{5}{12}$	435	7343.8	16.9	37.3	45533.0	104.7	41.2
6- 7	$6\frac{8}{12}$	526	9838.3	18.7	41.2	58649.5	111.5	43.9
7-8	$7\frac{3}{12}$	571	11511.8	20.2	44.5	65401.0	114.5	45.1
8- 9	8 4 1 2	87	1999.3	23.0	50.7	10887.0	125.1	49.3
9-10	9 8	419	10373.1	24.8	54.7	52887.0	126.2	49.7
10-11	$10\frac{3}{12}$	515	13454.6	26.1	57.6	66454.5	129.0	50.8
11-12	11/5	66	1874.6	28.4	62.6	8834.0	133.8	52.6
12-13	$12\frac{1}{12}$	393	13137.3	33.4	73.6	55780.0	141.9	55.9
13-14	$13\frac{3}{12}$	478	16776.8	35.3	77.8	69118.0	144.6	56.9
14-15	$14\frac{14}{12}$	6	240.2	40.0	88.2	885.5	147.6	58.1
Total	al	3838						

As a means of estimating "nutrition" apart from "physique," the relation of weight to height has been employed. In order to do this a table must be constructed shewing the average weight at a definite series of height

measurements. This has been done for 38,557 records of Brighton children. The measurements are taken from the records of 1908, 1909, 1910 and 1911 collectively. The next table shews these measurements at certain heights—the complete table being too long for publication. Such a table is of great assistance in determining if a child is poorly nourished; and this provides a quick method of distinguishing whether or not it requires free meals. A child which is not up to the proper weight for a certain height is more in need of feeding than is the child below both weight and height standard for its age, but of an average height-weight ratio; the latter child is well nourished, and its deficiency in general physique is often due to other causes than improper or insufficient food.

 isumcient	1000.		G	irls.			Be	oys.
Height in	ı em.	No. exa	nined.	Weight (aver		No. exam	ined.	Weight in kilo (average)
80		28		11.9		11		11.6
85		133		12.5		107		13.3
90		450		14.0		473		13.9
95		942		14.9		926		14.7
160		1967		16.1		1451		16.0
105		1832		17.4		1876		17.5
110		2147		18.6		2168		18.7
115		1964		21.1		1951		19.7
120		1383		24.9		1640		22.2
125	***	1375		24.3		1408		24.8
130		1467		26.9		1592		26.6
135		1479		29.9		1657		28.0
140		1421		32.7		1628		33.7
*145		1313		35.3		1331		33.4
150		933		39.1		805		36.3
155		558		40.9		365		40.1
160		181		45.4		103		44.2
165		35		48.7	***	48		47.0
		19017				19540		

^{*}At this point the influence of puberty on the weight of the girl begins to be prominent, the increase in weight continues to the end of the table.

CLEANLINESS, &C.

(4) Clothing.—The condition of the clothing is an index primarily of the social status, and secondarily of the economic conditions under which the child is living. It is of interest from the medical point of view inasmuch as neglect of cleanliness, &c., goes hand in hand with neglect of the body.

The following table shews the results of examination in regard to clothing and footgear of 3,997 boys and 3,865 girls.

		Boys. Per cent.	Girls. Per cent.	Total. Per cent.
Clothing—Good		72	78.8	75.8
Moderate		25	20	22
Bad		3	1.2	2.2
Footgear—Good	100	75.5	80.9	78.0
Moderate		20.5	15.3	18.0
Bad		4	3.8	4.0

Each height number and the corresponding weight represents the average of the five numbers of which it is the centre, e.g., the totals for 100 are those of 98, 99, 100, 101, 102 cm.

From this it will be seen that girls are better clothed and have better footgear than boys. In view of the rougher usage to which the latter subject their boots, etc., this is to be expected.

There are at present several voluntary agencies by which children with inadequate clothing and footgear are provided with a suitable outfit. The Education Committee controls the "Tindal Robertson Boot Fund" for the provision of boots for poor children, while the Fund originated by the Brighton Police for providing complete outfits of clothing and footgear is in every way a great help to parents of the poorer classes. From the latter Fund, 803 children have been thus equipped during this last season; the scheme however extends further than this, since deserving children on leaving school are given suitable outfits for the position which they intend to take up This is of especial value with regard to girls, many of whom cannot go out to service because of the ragged condition of their clothes.

The Children's New Year Boot Fund, a voluntary association, provides a great number of children with boots. During 1911, 3,438 pairs of boots have been provided for children attending elementary schools; moreover, all cripple children in the district receive a special pair of boots suited to their requirements. A certain number of children are provided with clothing by the Salvation Army Officers and certain charitable associations.

(8). Body.—The following table shews the results of examination of 3,997 boys and 3,865 girls (7,862 children).

State of body.	B	oys per c	ent. Gi	rls per ce	ent.	Total
Clean		67.7		65.3		66.0
Slightly bitten		28.3		30.7		29.9
Badly bitten		2.2		1.9		2.1
Body lice		1.2		1.6		1.4
Very dirty		.6		.5		.6

(8) Hair.—The condition of the hair was investigated in all cases. The results of this examination have been classified under various headings, and are shewn in the next table.

Comparative tables for previous years have been given also.

	Boys.				Girls.				
	Per cent.			Per cent.					
	1908.	1909.	1910.	1911.	1908.	1909.	1910.	1911.	
Clean (free from nits) Nits (moderate) Nits (excessive or lice)	 82.8 17.0 .2	90.6 9.0 .4	94.1 5.7 .2	94.3 5.3 .4	48.6 50.0 1.4	53.5 42.4 4.1	55.8 39.0 5.2	58.2 36.4 5.4	
Seborrhœa Ringworm Impetigo	 2.0 1.2 .1	4.5 1.7 .1	4.6 1.5	7.0 2.2 .4	1.0 .3 .3	3.3 1.1 .2	3.4 .9 .3	3.1 4.4 .7	

It will be noticed, from the above table, that the percentage of children with clean heads has risen, in the case of boys 12%, and in girls 10%, during the last three years, and this although a more searching examination has been made during 1911; this improvement is therefore greater than is apparent from the above records.

There is a large increase in the number of cases of ringworm, especially among girls. This is probably due to the admission of many cases which, although practically free from contagious material, cannot be said to be completely cured; these are mostly under periodical examination at the School Clinic.

It is regrettable to notice that the number of children shewing living vermin is rather higher than during last year.

CLEANLINESS OF SCALP.

The invariable rejoinder of parents to the question, "How often is your child's head washed?" is "Once a week." Among the poorer classes the scalps of the children frequently shew an accumulation of scales and dirt which can only have been brought about by a consistent neglect of washing of the head—in some cases, probably for months.

Weekly washing of the head and a daily routine combing would enormously diminish the number of verminous conditions, and would probably bring down the cases of ringworm by at least 50%. Undoubtedly many parents deliberately ignore ringworm in their children's heads; this leads to a spread of the disease in the child and to infection of other children. The moral conscience of many parents requires a good deal of education in this matter.

WORK OF THE SCHOOL NURSE (ATTENDANCE DEPARTMENT).

The following table, prepared from the School Nurse's fortnightly reports, gives some idea of the amount of work which these conditions entail. The figures refer to the number of examinations made, and not to the number of cases, which was, of course, much less.

es, which was, of course,	much le	38.	No. o	f Ex	aminati	ons.	
	1908		1909		1910		1911
Verminous condition of	10000		70704				10.155
head and body			13734		15154		10475
Ringworm	218		942		256		484
Scabies	36		89		12		29
Eczema and Impetigo	610		417	4.1.1	216		489
Other conditions	2049		_	111	141		781
	13742		15182		15779		12258

The number of examinations made for verminous condition shews a considerable fall, justifying the belief that some impression is being made upon this condition. This is corroborated by experience during medical inspection, but the actual number of badly verminous children shews no decrease.

The number of visits to School Departments for the purpose of securing cleanliness was 1,086, and the number of visits made to homes, in order to instruct the parents as to their responsibilities and as to how to carry out cleaning processes was 763.

During the routine inspection by the School Doctor, 313 badly verminous cases, i.e., 4 per cent. of the total inspected, were found.

Co-operation with the Sanitary Authority in Dealing with Verminous Cases.

After an experience of four years supervision of the work done by the School Nurse, it is possible to say that a great deal of the trouble caused by verminous conditions may be attributed to quite a limited number of families. The members of these families are continually under supervision and are regularly receiving cards of instruction as to cleanliness from the School Nurse, or at the School Clinic. They periodically attend the Clinic for impetigo of the scalp, caused by neglect of ordinary cleanliness. It is more especially to this group that our attention has been directed during 1910 and 1911. Cleansing was undertaken at the Sanatorium. The School Nurse was instructed to select certain families, and to give the parents instructions to send the whole of the family to be cleansed. The parents and those not of school age were also invited to attend, and notice was given that the Sanitary Authority would be prepared, free of expense, to disinfect all bedding, etc.

The total number of families dealt with at the Cleansing Station at the Sanatorium in 1912 was 55; three parents were cleansed and 122 children. 57 of these children were seized under Section 122 of the Children Act, 1908, the parents having failed to cleanse after repeated warnings.

Under the present conditions, cleansing of school children by Local Authorities is of temporary service only; as a means of rendering them permanently clean it is futile. Education of the parents may be enforced by prosecution, but generally it is a failure. The older girls must, by suitable teaching in the domestic economy and home management courses, be made to realize the disgrace of neglecting the care of the hair and skin. If such teaching be adequately and sympathetically carried out, and especially if it be combined with frequent examinations by the class teacher, then one may begin to look for some marked advance in the solution of this problem. Until then, however, it will be necessary for the Public Health and Education Authorities to work together for the suppression of this form of uncleanliness. attention is now being paid by the Head Teachers of departments to this problem, and the results obtained where careful supervision is exercised well repay the trouble taken. Children applying for admission and found to be verminous, should be referred to the School Doctor for examination—much trouble arising from exclusion for uncleanliness will be thus obviated, if the parent is, at the outset, given distinctly to understand that neglect of this kind is a perfectly reasonable ground for non-admission.

The custom of allowing children to attend without hats or caps is becoming more noticeable, especially in summer, and may certainly be encouraged, as it is not improbable that some cases of accidental pediculosis have their origin in the cloak room. The Education Authority have notified the teaching staff in the Boys' and Girls' Departments of the necessity of providing a separate numbered peg for each child, and it should be one of the monitor's duties to see that children use the proper pegs.

(7) Nutrition.—In accordance with the suggestion of the Chief Medical Officer to the Board of Education, nutrition has been classified in four grades:—

Number examined: 7,862.

State of Nutrition	1.		Girls. er cent			1910.
Good		 37.1	 45.0	 41.0	+++	40.4
Normal		 44.6	 40.9	 42.8		37.4
Subnormal			13.3			
Bad		 .9	 .8	 .8		1.1

Girls shew a higher grade of nutrition than boys; this has been frequently noticed in making examinations of children requiring free meals.

It will be noted that 16% of the children shew well marked signs of malnutrition.

(10) Defects and Diseases of the Nose and Throat.

Mouth Breathers.—In the examination of 7,862 children, this defect was noticed in 369, i.e., 4.7%. In 1910 the percentage of mouth-breathers was 13%, hence there is a large fall in the number for 1911. This is probably due to the much greater attention now being paid by the teaching staff to the correction of this defect, by drawing the children's attention to it, by insisting on the proper use of handkerchiefs, and by the routine use of breathing exercises. The operative treatment of many adenoid cases has undoubtedly assisted also. From the next table, shewing incidence according to age and sex, it will be seen that this condition is more common among males than females, and that it diminishes in the later years of school life, probably owing to the better control of older children over the habit and to the treatment of adenoid cases in the earlier years. The irregular and rather high incidence in intervening years is due to the selection by teachers of children to be examined for adenoids and nasal obstruction.

The numbers and percentages given are inclusive of adenoid cases.

		Boys.		Girls.
Age.	Number examined.	Per cent. Mouth-breathers, including adenoid cases.	Number examined.	Per cent. Mouth-breathers, including adenoid cases.
3	90	8.0	67	3.0
4	329	14.6	 267	11.6
5	412	18.2	 439	13.4
6	585	20.4	 531	19.6
7	614	15.8	 576	18.6
8	95	19.0	 87	21.9
9	457	20.1	 447	9.0
10	505	14.7	 515	8.7
11	61	31.1	 65	12.3
12	398	14.3	 395	16.5
13	449	15.1	 470	13.6
14	2	_	 6	_
Total	3997	17.0	 3865	14.3

Adenoids, with or without enlarged tonsils, were responsible for 59 per cent. of mouth-breathers among boys, and 86 per cent. among girls, or 71 per cent. for all children examined. The remaining 29 per cent. of cases were due to temporary colds, or very much more frequently to the formation of a "habit," often associated with the neglect of the handkerchief.

Many of the cases, examined in previous years, and classed as simple mouth-breathers, have, on subsequent examinations in 1910 and 1911, been found to have developed some nasal obstruction due to adenoids. It is probable that these cases, when first seen, had slight adenoids causing no obstruction. The teachers may assist greatly in the prevention of this trouble:—

1. By the careful and routine carrying out of breathing exercises: this is now done in all schools.

- 2. By teaching the proper use of the handkerchief; this is a point to which attention has been drawn in reports for 1910 and 1911. The neglect of this is probably responsible for the development of adenoids in many young children.
- That children, even in the schools in poor districts, can be encouraged to bring and use handkerchiefs properly was conclusively shewn in our last Report; and if the Head Teachers take up the matter systematically, they will find that the majority of their pupils will bring handkerchiefs regularly to school.
- The routine use of handkerchiefs before breathing exercises should be borne in mind.
- 3. By arranging for the Medical Inspection of all mouth-breathers at the routine inspection.
- A special circular (Form 8, M.I.) is now given to all such children, urging the importance of breathing exercises at home, especially after operations for adenoids and enlarged tonsils.

Nasal Obstruction.—Partial obstruction was found in 703 boys, i.e., 18 per cent., and in 726 girls, i.e., 18 per cent.

A high degree of obstruction was present in 3.9 per cent. of children.

Deviation of the septum nasi was found in 115 children, i.e., 1.4 per cent.

Nasal or nasopharyngeal catarrh was present frequently.

Adenoids and Enlarged Tonsils.—7,862 children examined; the following were found to have adenoids or enlarged tonsils or both:—

			ids with n			77 -7	77 . 1
	Adenoids.	Enta	rgea Tons	118.	Entarged	Tonsus.	Total.
Boys	398		66		114		578
Girls	476	944	98		155	***	729
Total	874		164		269		1307
Per cent.	11.1	·	2.1		3.4		16.6
		-	-			_	

This table may be re-arranged as follows:-

		Boys.			Girls.		
		No.	Per cent.		No.	Per cent.	
Adenoids		464	11.6		574	14.8	
Enlarged tonsils	***	180	4.6		253	6.5	

The following table shews the age and sex incidence:-

		Boy	s.	Girls.					
			Tonsils	Tonsils per cent.			Tonsils	per cent.	
	No.	Adenoids	Slight enlarge-	Much enlarge-	No.	Adenoids	Slight enlarge-	Much enlarge-	
Age.	examined.	per cent.	ment.	ment.	examined.	per cent.	ment.	ment.	
3	90	6.0	22.2	1.1	67	5.0	16.4	1.5	
4	329	10.9	25.5	2.0	267	11.6	20.0	5.2	
5	412	13.1	21.6	7.3	439	11.2	21.2	4.6	
6	585	15.4	19.0	7.0	531	17.5	24.7	6.2	
7	614	11.0	18.2	3.6	576	15.5	18.6	6.4	
8	95	12.6	17.0	3.2	87	19.5	21.8	5.7	
9	457	13.8	19.0	4.6	447	19.2	20.1	6.7	
10	505	9.1	17.2	4. 2	515	17.3	18.8	6.8	
11	61	18.0	19.7	1.6	65	15.4	18.5	13.9	
12	398	9.6	16.6	4.5	395	13.2	23.8	10.1	
13	449	8.7	15.0	4.0	470	11.5	19.0	6.2	
14	2	_	_		6	17.0		_	
Totals	3997	11.6	18.8	4.5	3865	14.9	20.5	6.5	
				100000000000000000000000000000000000000					

The percentage incidence for both adenoids and enlarged tonsils is rather higher at most ages among girls than among boys.

There is noticeable in this table a gradual diminution of the defect with increasing age; this is to be ascribed more to operative measures than to a passage being provided by growth of surrounding parts.

Remarks on Treatment.—Operative treatment was necessary in many of these cases. The cases may be grouped as follows:—

	Operation	Exercises,	Advice	
	necessary.	&c.	only.	Total.
Adenoids, Enlarged Tonsils, or	both 811 .	300	. 296 .	1307

The number of cases in which operation has been performed (up to March, 1912) is 312, i.e., 38 per cent. of those requiring operation. This subject is mentioned further in Section (F), p.

Year.	Recommended or Treatment.	%	Operated upon.
1908	 330		45
1909	 594		48
1910	 389		- 55
1911	 811		38

OTHER CONDITIONS.

Goitre was found in 4 boys and in 12 girls; in 13 out of the 16 cases the child was aged 12 or 13, and the goitre was of the simple parenchymatous type associated with puberty.

Glands.—In the anterior group are included the submaxillary, superficial and deep cervical and tensillar glands; in the posterior group the suboccipital and posterior cervical.

		Boys, per cent.	0	Girls, per cent.
	(Slight enlargement	 51		56
Anterior group	Marked enlargement	 1.3		1.1
	Tuberculesis		.2	
Posterior group	Hard and Palpable	 29		32
rosterior group	Enlarged	 .1		.1

The anterior gland enlargement is due chiefly to dental caries and tonsillar enlargement; the posterior to pediculosis.

Tuberculosis of the anterior glands was found in 16 children. Scars of tubercular glands were met with in 29 boys and 23 girls, i.e., .7 per cent. of cases.

Scars, probably due to septic abscess of the neck, were found in 55 cases, i.e., .7 per cent.

(9) TEETH.

The enumeration of carious teeth requires instrumental investigation, and if carefully done, almost doubles the length of time for inspection. In the inspection during 1911, a classification of the following groups has been used.

- X. Teeth good or fair; no marked loss of masticating power; caries not more than 6 teeth.
- Considerable loss of masticating power; more than six teeth shew caries.
- Z. Teeth very carious; suppuration; and sinuses.

The following table shews the percentages in these groups at all ages :--

		Boys.	Girls.
X.	 	 76.1	 76.6
Y.	 	 23.3	 23.1
Z.		 .6	 .3

i.e., the teeth in 76 per cent. are in fair or good condition; in 24 per cent. they are bad.

In 239 cases (3 per cent.) there was periostitis associated with carious teeth; generally a sinus was present; severe stomatitis was present in 6 cases, alveolar abscess in 10 cases, other conditions, 10 cases.

(13) EAR DISEASE.

Otorrhæa was present, at the time of inspection, in 85 cases out of 7,862 children, i.e., 1.1 per cent.

A definite history of previous otorrhœa was obtained in 519 cases, i.e., 6.5 per cent. of children examined, and this is probably an underestimation of the true number who had suffered previously with this trouble.

Deafness was due to impaction of wax in 138 cases, i.e., 1.8 per cent.

(14) Hearing

was tested with a watch for each ear separately; the watch was easily audible to a normal ear at 36 inches.

The following table shews the results of these tests for children between 6 and 14 years of age (6258).

Very deaf ... 2.1 (watch inaudible at 6 inches from each ear).

Deaf ... 4.7 ,, ,, 12 ,, ,, ,, ,,

Slightly deaf 14.3 ,, ,, ,, ,, ,, ,,

The common causes of deafness were:-

- 1. Cerumen.
- Perforation of the tympanic membrane, with or without otorrhœa.
- 3. Adenoids, or throat deafness.

Of these, the last (in the absence of previous inflammation and destruction of the middle ear) is curable by removal of the adenoids. As a very considerable number of children with deafness have adenoids, it is probable that, with operative measures, the amount of deafness among school children will decrease markedly in succeeding years.

Re-examination of many cases, examined at previous inspections, and recommended to have operations for adenoids and deafness, have shewn that there has, almost universally, been great improvement in the power of hearing, and in many cases the parents have personally expressed their gratitude for the advice given.

(11) DISEASES OF THE EYE.

7,862 children were examined.

Ciliary blepharitis (sore lids).—228 cases, i.e., 2.9 per cent.; neglected cases are treated at the Skin Clinic. Styes were present in 12 children, i.e., .2 per cent.

Conjunctivitis.—57 cases, i.e., .7 per cent. In 10 of these cases phlyctenules were present. Corneal ulcers were found in 2 cases.

Opacities.—Nebulæ, 45 cases; leucoma, 7 cases; cataract, 4; scar of perforating wound, 8. Total 63, i.e., .8 per cent.

Other Conditions.—Nystagmus, 7 cases; synechiæ, 3; blepharospasm, 3; ptosis, 9; heterochromidia iridis, 7; keratitis, 5; coloboma iridis, 1; exophthalmos, 2; xerosis conjunctivæ, 1; various cysts, 8; ectropion, 1; foreign body in eye, 1; hemeralopia, 1. Total 48.

Total eye defects and diseases (excluding errors of refraction) 396 cases, i.e., 5.0 per cent.

(12) Vision.

All children of six and over, who were able to read, were tested as previously described.

The number of children tested was 6,141, a percentage of 78 on the total inspected at all ages.

The next table shews a summary of the results thus obtained; statistics from all ages are included.

The numbers in each square shew the total cases with vision corresponding with degree marked on the vertical line (L. eye) and top line (R. eye), e.g., there were 3,456 children with equal vision of $\frac{e}{6}$ in R. and L. eyes, and 127 children with vision of $\frac{e}{9}$ in R. eye and $\frac{e}{6}$ in the L. eye, and so on.

The record of visual power with spectacles is taken when the child is wearing these.

Total	Examined	.—Bovs.	3,111:	girls.	3,030.

								L	ess than
		8	6	6 12	18	8 24	86	<u>6</u>	6 0
	8	3456	127	13	23	3	8	8	10
	6 9	68	1271	60	33	9	14	4	7
	6 12	24	52	305	39	13	2	3	7
	6 18	24	35	33	152	24	13	3	3
	$\frac{6}{24}$	10	16	12	15	41	13	5	_
	6 3 6	12	15	7	11	5	30	2	1
	60	8	2	7	1	3	2	11	2
Less than	60	23	14	5	4	4	1	-	13

109 children were unable to read, i.e., 1.7 % (out of a total of 6,250 children of six years and over).

From this table the following facts may be obtained:-

- The number of children with equal vision in each eye is 5,279, i.e., 86.0 per cent. of the total examined.
- 2. The number with better vision in the right eye than the left is 413 (6.7 per cent.); with better vision in the left eye is 449 (7.3 per cent.); or 14 per cent. of the children have unequal vision in the two eyes.

The next table shews, in a more popular manner, the approximate degree of visual power.

or mount b		Boys, p	Girls, per cent.					
	No.	Good or			No.	Good or		
Age.	Examined.	Fair.	Moderate.	Bad.	Examined.	Fair.	Moderate.	Bad.
6	555	90.5	6.8	2.7	490	86.7	6.3	7.0
7	597	89 5	6.0	4.5	563	87.7	7.3	5.0
8	94	79.8	6.4	13.8	87	78.2	11.5	10.3
9	454	89.6	6.0	4.4	445	83.1	9.9	7.0
10	504	89.1	5.8	5.1	515	84.5	8.9	6.6
11	61	73.8	14.7	11.5	65	69.2	9.2	21.6
12	397	88.1	5.6	6.3	395	86.6	7.6	5.8
13	449	89.3	4.7	6.0	470	86.6	7.9	5.5
Totals, 191	1 3,111	88.8	6.0	5.1	3,030	85.3	8.1	6.6
Totals, 191	0 2,685	91.7	3.5	4.8	2,561	88.3	5.6	6.0
Totals, 190	9 3,121	90.8	3.2	6.0	3,118	89.1	4.1	6.8
		-					-	

"In this table "good or fair" vision = $\frac{6}{6}$ or $\frac{6}{2}$, "moderate" = $\frac{6}{12}$, "bad" = $\frac{6}{18}$ and over.

The high percentages of bad cases at 8 and 11 are probably due to selection of defective children of these ages by the Head Teacher for special examination, thus "overloading" the statistics for these ages. As usual, it will be noted that girls have worse vision than boys; the percentages are distinctly higher.

The number of boys wearing spectacles when examined was 111 (3.6 cent.); of girls, 150 (5 per cent.); thus, although a higher percentage of girls already have their vision corrected, yet the statistics shew vision to be worse practically at all ages among girls. It is probably that the cause is environmental largely, the factors being strain produced by sewing, reading, and the diminished amount of outdoor exercises as compared with boys.

Errors of Refraction, &c.—Taking the capability to read a line with the naked eye and then with a + 1 lens in front of the eye, to indicate hypermetropia, one may summarise the results obtained thus:—

				Male (3,111) Per cent.)	Female (3,030). Per cent.
*Hypermetro astigm Myopia wi	atis	m	 	35.5		39.7
matism	1	***	 astig-	3.8 2.5		4.9 2.1
Squint Eye strain			 ***	.3		.5
Opacities			 	.5		.6

*A considerable percentage of the cases in this group read $\frac{6}{6}$ with and without a + 1 lens; for all practical purposes they have normal vision. Most of these cases occur in young children whose power of accommodation is always high.

Table shewing nature of Refraction Error.—Out of 429 cases in which notes were made of the prescription, the following table was obtained:—

1 1 ,	No.	%
Hypermetropia	. 122	$\frac{28.4}{37.1}$ 65.5
Hypermetropic astigmatis	m 159	37.1
Myopia	47	$10.9 \atop 13.3$ 24.2
Myopic astigmatism .	57	13.3 / 24.2
Mixed astigmatism	41	9.5
Odd eyes	3	.8
Total	429	100.0

For the particulars from which this table was constructed we are chiefly indebted to the ophthalmic staff of the Sussex County Hospital and the Eye Hospital.

Strabismus (Squint).—Convergent squint was found in 142 cases; divergent in 2. A considerable degree of partial blindness in the squinting eye was common. The necessity for early treatment is not yet recognised by parents.

Opacities.—In 32 cases there was defect of vision from opacities of the cornea or lens. The degree of interference with vision was less than might have been expected. This is shewn in the following table:—

Opacity.		 or under.		6 or over.
Unilateral Bilateral	***	 3		6
271111111111111111111111111111111111111		 _		_
Tetal		 12		20
				_

Eye strain was met with in considerable degree in 23 cases, all of which were recommended for treatment. This condition is one of the common causes of "school headaches."

The Education of the Visually Defective or Partially Blind Child.—
We have, in the Reports for 1909-10, urged the necessity for the provision of special classes for the systematic education of this group of children. No class has yet been started, however, chiefly owing to the difficulty of obtaining a suitable central set of class rooms. In the near future such a class should be commenced. At present it is necessary to exclude these children altogether or to modify the work they do in the ordinary class so much that they lose a considerable amount of their education. A reference to the Report for 1910 will shew the nature of the educational scheme required for such children.

During the year 1910, notes were made of all such cases coming under the observation of the School Doctor. The following table shews the number and grouping of these cases:—

(a) R	ecurrent	ulceration	of o	cornea	and	corneal	opacities	 31
(b) H	igh myop	ia						 41
		metropia						 13
		seases of						 7
(e) N	ystagmus							 6
(f) D	iseases of	nervous	origi	n with	eye	defects		 2
(g) C	ataract							 10
								-
								110

Recommendation for Treatment.—Children with vision of $\frac{e}{18}$ or less, with strabismus without great amblyopia, and with signs or symptoms of eye strain were recommended to seek treatment, or were given advice. The number of cases thus recommended was 424 (5.2 per cent.), of which 17 were advised only, leaving 407 to get medical treatment.

The number of children who have spectacles (up to March, 1912) is 343, i.e., 84 per cent.

Year.	Recommended for treatment.	% obtaining spectacles.
1908	 392	 55
1909	 505	 58
1910	 321	 61
1911	 407	 84

(17) DISEASES OF THE HEART.

In 432 cases, i.e., 5.5 per cent., a haemic murmur was present over the heart area. In most cases this has very little significance, especially in young children with thin chest walls.

In 47 cases (.6 per cent.) non-valvular disease of the heart was diagnosed, while in 45 (.6 per cent.) organic valvular heart disease was present. The following were the lesions:—

Mitral regurgitation			36
Mitral stenosis and regurgitatio	n		2
Mitral stenosis			1
Mitral and aortic disease		***	1
Congenital morbus cordis			5

In almost all cases of acquired heart disease, a history of previous rheumatism, rheumatic fever, chorea or other rheumatic manifestations was obtained. Exclusion from drill or a modified drill was suggested where organic disease was present; most of these children were allowed to continue at games with certain restrictions. The parents were seen in every case and were instructed as to general management of the child's health, especial stress being laid on the early and thorough treatment of rheumatic manifestations in certain cases.

A considerable degree of anæmia was found in 423 children, i.e., 5.5 per cent. It is moderately common in a slight degree among school children of the poorer classes, generally owing to social conditions, over crowding, closed windows, and lack of proper nourishment.

(18) DISEASES OF THE LUNGS.

A sub-acute bronchial catarrh is the condition most frequently met with. It was present in 132 children, *i.e.*, 1.7 per cent. It is generally associated with adenoids or "mouth-breathing," especially in rickety children during the winter months, and is chiefly met with in children of 6 years and under.

Bronchitis was found in 18 cases, i.e., .2 per cent.

Other lung diseases, 5.

Phthisis is discussed under Tuberculosis, p. 98.

(19) Diseases of the Nervous System.

Chorea.—8 cases were found, of which 4 occurred among girls. Exclusion is generally necessary, and a subsequent examination is made for other rheumatic lesions.

Neurosis.—106 children (1.4 per cent.) were found to have some form of neurosis in a considerable degree; generally night terrors, sleep talking or walking, or habit spasm. In many of these cases temporary exclusion or limitation of lessons is necessary; the open air school would be the ideal place for the education of this group.

Enuresis was present in 18 cases; migraine in 1.

Epilepsy.—14 children, i.e., .2 per cent., were found to have some form of this disease. At present there are 6 children in Institutions for the Epileptic; most of those seen this year are not suitable cases for residential institutions.

Mental Deficiency.—The following were the types among 40 children in the special school.

Microcephalic, 1; Mongolian, 3; Epileptic, 3; Associated with cerebral paralysis, etc., 3; Genetous, 30.

Paralyses.—The following were the lesions observed:—

Infantile paralysis: 12.

Paralysis of arm, 7.

Paralysis of face (seventh nerve): 6 cases.

Hemiplegia, 2; diplegia, 6; paraplegia, 1.

DISEASES OF THE SKIN.

Pityriasis alba or patchy desquamation on the face and neck is far the commonest condition. It occurred in 509 children, i.e., 6.5 per cent.

Impetigo of the face was found in 85 cases (1.1 per cent.); of the scalp in 42 (.5 per cent.). Eczema in 45 cases (.6 per cent.); seborrhea capitis was present in 5 per cent. of children.

Ringworm of the scalp was found in 89 boys (2.2 per cent.) and 172 girls (4.4 per cent.); a total of 261 cases actually found during the routine inspection. Many of these cases were already under supervision and treatment at the School Clinic; cases almost cured are included.

Many of these children have a very chronic form of the disease, the head being very "scurfy" with numerous broken diseased hairs; these cases are undoubtedly the chief means by which infection is spread, and must be excluded definitely for months under any form of drug treatment. The disease is invariably due, in this form, to the resistant small spored fungus, and it is difficult to cure. It was found that some of these children had been treated for "scurf" or "ringworm," and admitted back to school without any medical certificate.

In order to prevent this early return of infective cases into the schools. the Education Committee passed, in 1909, the following resolution:—" That instructions be issued to the School Medical Officer to examine all children returning to school after being absent on account of ringworm."

In this way we have now a satisfactory check on the re-admission of these cases; no child should now return to the schools without a certificate from the School Medical Officer or School Doctor.

A careful investigation before re-admission is made as to the presence of the fungus.

Ringworm of the body (tinea circinata) was found in 11 cases.

The following were the other conditions found:—multiple papillomata, 40; herpes, 13; acne, 20; lichen urticatus, 12; chronic onychia, 6; scabies, 5; psoriasis, 7; xeroderma, 29; septic sores, 11; naevi, 9; lupus, 1; other diseases and conditions, 25.

A recommendation was made that the Education Authority should establish X-ray treatment for such cases as the Medical Officer deemed necessary. A sum of £140 was set aside for this purpose in the estimates for 1911-12.

DEFORMITIES.

(a) Acquired Deformities.

Upper Limb and Neck.—Cubitus varus and vulgus, 2.

Lower Limb.—Secondary talipes equino-varus was found in 2 cases; flat feet, 2.

Spine.—Lateral curvature was found in 39 children, i.e., .5 per cent, kyphosis to a well-marked extent in 37 (.5 per cent.); while in 16 cases both these conditions were present in the same child.

Amputations.—Fingers, 4; excision of eye, 3.

Chest .- The following deformities were found, apart from rickets:-

Flat chest	***	63	 .8%
Pigeon chest	***	95	 1.2
Funnel chest		26	 .3
Barrel chest	***	4	 _

These deformities are usually associated with the presence of adenoids or mouth breathing, or are the result of previous lung diseases. A great improvement might be effected by suitable exercise.

Rickety Deformities.—The following were found: chest, 144 cases (1.8 per cent.); frontal bossing, 209 (2.6 per cent.); curved tibiæ, 144 (1.8 per cent.); genu valgum, 119 (1.5 per cent.); genu varum, 29 (.4 per cent.). The deformity in most of the above was slight and needed no special treatment. The percentage of visible deformities is much less at 13 than at 6 or 7 years of age.

(b) Congenital Deformities.

Head.—Bifid uvula, 59 cases (.7 per cent.); cleft palate, 6 cases; hare lip, 2 cases.

Upper Limb and Chest.—Syndactyly, 2; macrodactyly, 2.

Lower Limb.—Talipes, 13; congenital dislocation of hip, 2.

Other Congenital Faults.—Mongolian eye folds, 115; accessory auricle, 14; remains of branchial cartilages, 1; supernumary nipple, 4; bifid finger, 1; incurved little finger, 16.

Remedial Exercises Scheme in the Treatment of Deformities.

Attention has been drawn in our Reports as to the necessity for special exercises in such deformities as scoliosis, kyphosis, etc.

A scheme has now been formulated, and is partly in operation, to deal with physical defects by special exercises.

 Slighter defects, such as defective physique, anæmia, slight kyphosis, mouth breathing, slight degrees of adenoids, etc. To deal with this group a qualified lady instructor has been appointed to give a daily lesson for 30 minutes at Circus Street Girls' School. The exercises are of the Swedish type, and no apparatus is used.

The class comprises 20 girls with one or more of the defects enumerated, and was commenced on March 6th, 1912. Special measurements and notes of each case have been made by the School Doctor, and all will be submitted to re-examination at the end of a three months' course.

 Marked defects, more especially kyphosis and scoliosis (curvatures of the spine), requiring special individual attention. Arrangements for this class, which needs special apparatus, are now being made.

It is proposed, in this group, to take six cases. Each case will be dealt with for half-an-hour three days a week.

The classes are being instructed by Miss Dent, assisted by Miss Roe.

(20) Tuberculosis.

The following cases were discovered during the routine inspections:-

Tuberculosis of lungs	***	 Active.	Quiescent. 15	Per cent.
Tuberculosis of joints		 4	10	.2
Tuberculosis of glands		 15	1	.2
Tuberculosis of skin	***	 1	-	.01
Total		 28	26	.7

Tubercular abscess scars in the neck were also found in 52 children (.7 per cent.).

Tubercular lesions were present in 105 cases, i.e., 1.3 per cent. (this includes scars of past lesions and active cases).

All children shewing signs of active tuberculosis of the lungs are excluded from school attendance; this explains the small number discovered during routine inspection.

Cases in which a diagnosis of phthisis is doubtful are admitted into the Sanatorium, and watched over a period of a month or six weeks.

Most of the cases seen in the routine inspection have undergone Sanatorium treatment during the year.

A considerable number of children, apart from those discovered in routine inspection, now report themselves regularly for examination and weighing at the Medical Department Offices; by these means we are enabled to watch the cases and re-admit for Sanatorium treatment when necessary.

The number of notified cases of tuberculosis of the lungs in children still under observation of this age group (3-14) is 105. The next table shews the number notified in each of the last 9 years and still remaining in the group (in the earlier years children have been notified who have now passed the age of 14, and who thus fall out of the group).

			No	tificat	ions.			Number who have been in the			
Year.		Boys	Boys.			Total.					
	1903		1		_		1		1		
	1904		_		1	***	1		_		
	1905		3		1		4		1		
	1906		5		3		8		6		
	1907		5		5		1.0		6		
	1908		12		5		17		12		
	1909		10		7		17		10		
	1910		12		12		24		17	-	
	1911		16		7		23		15		
			-		_		_		_		
	Total		64		41		105		68		
			-		_				-		
	Per cent. of 16, children in regu										
	attendance		.40		.25		.65				
					_		-				

Visits are now made by the School Doctor to the homes of tuberculous children attending the elementary schools. In the course of these visits the cards, previously mentioned, are filled up; advice is given to the parent regarding dietetic and general hygienic treatment.

A special investigation was carried out in order to ascertain the after history of all children of school age and under (i.e., from 14 years of age downwards) notified as tuberculous in the years 1904-1910 inclusive. As many of the cases thus notified have now left school or have left the district, exact particulars as to present condition were available only for 172 out of the total 280 notified.

The following table summarizes the results of this investigation:-

						When last heard of or examined.						
Year of Notification. Tota	Total.	Number.		Dead.			arrested ased.	Disease probably still active.				
		Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.			
1904 1905 1906 1907 1908 1909 1910	16 17 28 23 27 33 28	6 10 13 13 15 17 12	10 7 15 10 12 16 16	2 3 - 4 1 1 2	8 1 4 2 3 3 3 2	4 7 11 6 11 10 3	2 6 11 6 8 8 7	- 2 3 3 6 7	- - 2 1 5 7			
Seven Years	172	86	86	13	23	52	48	21	15			
Percentage	_	_	-	15.1	26.7	60.4	55.8	24.4	17.4			
Percentage Boys & Girls	_	_	_	20).9	58	.2	20	0.9			

From this table it will be seen that during the last seven years, of the total number notified as tuberculous under the age of 14, 20.9 per cent. are dead; 20.9 per cent. still shew active signs of the disease; and 58.2 per cent. may be reckoned as cured in the general sense of the word. In some of the last group, signs of the disease may again become manifest under certain circumstances, leading to depression in the general condition of the child, e.g., attacks of other acute diseases, underfeeding, neglect, etc.

Cause of Death.

Thirty-six deaths occurred out of 172 cases in which definite information is obtainable, i.e., 20.9 per cent. Probably this is an over-estimate of the fatality rate, as a larger percentage of the indefinite group probably survived.

The cause of death in two cases was unknown, in five cases was due to other disease than tuberculosis, and in the remaining 29 cases was definitely due to some form of tuberculosis, *i.e.*, of those who have died 84 per cent. have died from tuberculosis and 16 per cent. from some other cause.

TUBERCULAR BONE AND JOINT DISEASE IN CHILDREN.

Arrangements have been made during 1910 at the Borough Sanatorium for the admission and treatment of early cases of these varieties of tuberculosis. The marked deformities which have previously arisen from the neglect of early suitable treatment should henceforth become rarer. The medical staff of the hospitals have been asked to notify all such cases to the Medical Officer of Health, and, if suitable, they are taken into the special ward for prolonged treatment.

For particulars of this scheme reference should be made to the Annual Report of the Medical Officer of Health, see pp. 24-28.

(23) Infectious or Contagious Diseases.

Apart from ringworm, scabies, impetigo, and some forms of conjunctivitis very few cases were seen: Mumps, 10; whooping cough, 2; varicella, 3; diphtheria, 2; scarlet fever, 4; tonsillitis, 6.

(24) Other Diseases or Defects-

• The following were found: Herniæ, 13; innocent tumours, 14; mucous dyspepsia, 23; intestinal parasites, 13; catarrhal jaundice. 2; chronic appendiceal colic, 4; prolapsus recti, 3; mastitis, 2; others, 6.

VACCINATION.

The number and approximate size of vaccination scars was noted in each child examined. Out of 7,854 children, 25 per cent. shewed no vaccination marks.

The following table shews the results of this examination. It will be noticed that the percentage of children with vaccination scars of one inch and over progressively increases with the age. If, as is generally believed, the efficiency of vaccination as a protection against small pox is directly dependent upon the size of the vaccinated area and the number of marks, then it is obvious from this table that efficient vaccination has decreased enormously during the last 10 years. Thus the percentage of children of school age shewing a well-vaccinated area 10 years ago was 27.0—now it is 1.9.

Age. Total Examined. Percentage with no Visible Marks.		Number of Marks.					Total Area of Marks.					Total Vaccinated.		
			Percentage.			Percentage.						of ver.		
	0	1	2	3	4	0	½ in.	⅓ in.	½ in.	l in.	Per cent. under 1 in.	Per cent. of lin. and over.		
3 4	157 596	31.8 26.5	50 158	26.8 22.3	10.8 15.1	8.9 10.4	21.9 25.7	31.8 26.5	56.0 54.4	11.4 17.3	1.5	.6	98.1 96.6	1.9 3.4
5	851 1116	30.2 28.8	257 321	16.7 19.1	16.8 18.3	10.8	25.5	30.2 28.8	51.1 46.5	15.4	2.6 5.5	.7	92.4 93.2	7.6 6.8
7 8	1190 182	24.6 18.7	293	19.9	20.3	10.7	31.3	24.6 18.7	44.5	23.6	6.6 7.7	3.8	90.3 82.4	9.7
9 10 11	904 1020 126	20.6 19.4 21.4	186 198 27	21.2 22.7 15.9	22.5 24.4 27.0	12.5 10.5 9.5	23.2 22.9 26.2	20.6 19.4 21.4	39.0 39.8 33.3	29.4 26.8 31.7	8.4 12.4 12.7	2.7 1.6 .8	84.0 82.6 74.7	16.0
12	793 919	26.7 25.0	212 229	21.2	22.8 25.6	10.4 8.9	19.0 20.7	26.7 25.0	31.0 28.0	24.7	14.2	3.3	74.4 73.0	25.3 25.6 27.0

(F) REVIEW OF METHODS AVAILABLE FOR THE TREATMENT OF DEFECTS.

During 1910 the Brighton Education Committee proposed that, if possible, an arrangement should be come to with the various hospitals for the treatment of defects discovered by the School Doctor. The Boards of the various hospitals, however, did not see their way to enter into any special arrangement for the treatment of school children.

As a consequence, during 1911 the Education Committee became ordinary subscribers to the hospitals, and thus obtained letters of recommendation. Before the subscriptions were paid the Clerk to the Education Committee communicated with the Secretaries of the various hospitals, as some doubt had arisen as to whether or not the hospitals would continue to undertake the treatment. The hospitals, with one exception, agreed to continue treatment until the 31st December, 1911. It was stated that "after that date the hospitals, with one exception, except in special cases, will decline to treat school children attending the primary schools of the Brighton and Hove Education Authorities, and found on medical inspection by the Medical Officers of the said authorities to be suffering from otorrhea, enlarged tonsils, adenoids, errors of refraction, skin diseases, or defective teeth."

Seeing that they had failed in their endeavour to take advantage of the benefits of existing institutions, as recommended by the Board of Education, the Education Committee resolved to provide treatment by one of two schemes which were recommended to them (1) by the local practitioners, and (2) by the school medical officer.

The local practitioners had modified their 1910 scheme which they presented, to the form given below.

SCHEME A.

treatmen	t 200 per annum 350 per annum 300 per annum.	. 1	£50 £50 £50 £50 £50
			£250

An increase of these numbers to more than 15 per cent. to be paid for in proportion.

The Medical Profession will undertake to obtain applications for these posts from medical practitioners of acknowledged standing and special experience, and will undertake to nominate to the Educational Authority suitable candidates for each post, from amongst whom the Authority may directly appoint those whom they think most suitable. The appointments should be made for a period of one year, renewable or otherwise as the Authority may determine, fresh appointments to be made on the same principle.

The hours of work to be such as shall be appointed by the Education Authority, but should not exceed an average of two hours per week for each post. Under the second scheme it was proposed to appoint two whole-time officers to undertake both the inspection and treatment of school children, and also to undertake special work for the Sanitary Committee.

SCHEME B.

Salary of Senior School Doctor Salary for two-thirds of time of Junior School	
Salary of Surgeon for tonsils and adenoids	200 50
	£650

The advantages claimed under Scheme A. were that the Education Committee would obtain at very low rates the services of experts in eye, throat, and X-ray work. Under Scheme A., too great attention was paid to treatment, and too little to medical inspection.

SCHEME FOR THE EMPLOYMENT OF WHOLE-TIME MEN TO UNDER-TAKE BOTH INSPECTION AND TREATMENT.

Experts required.—Many persons unacquainted with medical inspection believe that it can be done satisfactorily by a tyro. The contrary is really the case. Routine inspection, which provides the foundation for all the other branches of the work, requires an expert. But even apart from routine inspection, this field of work requires years of patient study by any doctor who hopes to become thoroughly efficient. The problems connected with the backward and mentally defective, the tuberculous, the deformed, in relation to elementary school life, can only be solved by an experienced worker.

The Medical Inspector should have experience in treatment.—Not only has the School Doctor to advise his Committee, he has also to give advice to the parents of children requiring treatment, and he has to re-inspect the children after treatment. It seems almost absurd to ask the question as to whether a doctor who personally treats a proportion of the children or a doctor who does no treatment at all will be in the better position to advise the parents as to treatment and repetitions of treatment. To be an efficient inspector it is necessary to be expert in the diagnosis and treatment of common defects regarding which it is the duty of the inspector to report and advise.

Long Service Essential.—For an efficient school medical service, what is required is the creation of a class of men prepared to devote their lives to this line of work. Such a class of experts cannot be obtained under the present system.

INCREASED SALARIES REQUIRED.

A. Salary.—Up to the present, with few exceptions, the salaries paid to medical inspectors of school children have been so small that no medical man of average ability has been content to remain for any great length of time in the service. Very wrongly the service is by many regarded as a stepping stone to public health appointments.

THE MONOTONY OF THE ROUTINE MEDICAL INSPECTION.

B. The Strain of Monotony.—Apart from monetary considerations, there is no hope of large numbers devoting themselves entirely to school work so long as they have to examine four or five thousand children annually at the routine medical examination. A routine examination of such a large number is too great a strain, because of its monotony. If, however, the service is put on a broad basis, there is no need for such a strain to be put upon medical inspectors.

If, instead of having the care of 18,000 school children with a routine examination of four to five thousand, the whole-time inspector had 10,000 children with a routine examination of two thousand five hundred, medical inspection would no longer be drudgery, but fascinating work.

Too large a field for any one man? It has been urged that one individual cannot be an expert school inspector, public health worker, and operator.

1. Public Health.—Although the public health and school services overlap to a considerable extent, that does not mean that the school inspector has

to have any knowledge of sanitary work as a whole.

The only questions likely to arise would relate to new buildings, structural alterations, heating, lighting and ventilation, and, if difficulties arose, all those questions could be referred to the Medical Officer of Health. Infectious disease, apart from skin disease, should be controlled entirely from the public health office.

2. Eye and Throat Work.—The school doctor should be able to prescribe spectacles and have a working knowledge of diagnosis and treatment; he does not require to be able to perform operations upon the eye or its muscles. Similarly, although he should be able to remove tonsils and adenoids, the numerous operations performed by the throat specialist would be outside his sphere. With care he can apply X-rays safely in cases of ringworm, although not pretending to be a specialist in X-ray work. The scope of his work is no greater than the scope of work of a specialist in any one of the branches mentioned.

In short, there is no reason why, if a man devotes his life to the work, he should not obtain a thorough knowledge of everything required of him; of treatment he will start with a sufficient knowledge; in medical inspection he will become expert only after some years.

Unfortunately, the importance of retaining the services of medical inspectors over a long series of years is not fully recognised by the public because they do not recognise the importance of inspection, whilst, on the contrary, treatment bulks largely in the mind of the layman. It is, therefore, only by undertaking treatment that the medical inspector can increase his salary sufficiently to allow of his continuing in the school service, and, secondly, can have assistance in his work, thereby halving the monotonous routine inspection.

Advantageous as his undertaking of treatment is from the medical inspector's point of view, it is no less so from the standpoint of the parents and the local authority; for, with his salary increased and monotony gone, the medical inspector will be content to continue for many years to perfect himself in this branch of work. Whilst doing so he will become more and more valuable to the local authority. Under such circumstances more efficient services can be established than by any system of part-time service.

With these arguments in our minds, we felt it our duty, in face of considerable opposition, to urge the local authority to adopt the whole-time scheme.

SUBSCRIPTIONS TO HOSPITALS FROM THE BRIGHTON, HOVE AND DISTRICT
TEACHERS ASSOCIATION.

This Association has, for the past seven years, organized an annual collection in the elementary schools for the Hospitals. The total collected in 1911 was £157 5s. 8\frac{1}{4}d., of which Brighton contributed £81 16s. 8\frac{1}{2}d. Subscriptions were given to the following:—

				£	S.	d.	
Sussex County Hospit	al			 25	0	0	
Children's Hospital				 25	0	0	
Throat and Ear Hospi	ital			 25	0	0	
Eye Hospital		V		 25	5	0	
Brighton Dispensary			1.11	 22	1	0	
Dispensary (Lewes Ro	ad)			 3	3	0	
Surgical Aid Society				 5	5	0	
Dental Hospital				 5	5	0	
Women's Hospital				 5	5	0	
Queen's Nurses				 10	10	0	
Medical Mission (Edwa	rd Str	eet)		 1	11	0	

The letters obtained are distributed to Head Teachers in those departments taking part in the collection. The letters in excess of the requirements of last year were forwarded to the Education Authority, to be used in connection with medical inspection. Letters were also forwarded as a result of a surplus balance of the Brighton Elementary Schools Athletic Association.

It has been decided that this annual collection for the Hospitals shall be suspended during 1912, as many of the letters thus obtained were used for securing treatment of defects among elementary school children, and now this special treatment is refused by the Hospital Authorities.

Scheme for the Provision of Spectacles.

An agreement has been entered into with a Brighton firm for the supply of spectacles at the following rates:

				S.	d.
Spherical		 		0	9
Plano-Cylindrical		 		1	4
Spherical Cylindr	ical	 		2	0
Over 8 dioptres		 ***	6d.	extra.	
Tinted lenses		 	6d.	extra.	

The procedure is as follows:-

Parents attend at the Medical Inspection Offices with the prescription. A note is made of this, and an order is given to the Education Office.

Parents able to pay sign Form A*, and receive an order at the Education Office for spectacles. The parents pay the whole sum at once or pay by instalments at the Education Offices.

*FORM A.

"I agree to the arrangements which have been made for the provision of Spectacles by the Education Committee to my child at a cost of

Parents unable to pay sign Form B.

FORM B.

"I agree to the arrangements which have been made for the provision of Spectacles by the Education Committee for my child , at a cost of . I understand that unless I can satisfy the Education Committee that I am unable to pay this sum , I shall be required to pay the whole or such part of the cost as the Committee may determine."

They also receive an order for spectacles at the Education Office and an investigation ticket for the Charity Organisation Society. Later the Medical Sub-Committee consider a report as to their income, etc., from the Charity Organisation Society, and decide what the parents should be asked to pay. This payment is collected by the Charity Organisation Society.

In the estimates, £25 has been set aside for this purpose.

Arrangements have lately been made to co-operate with the Guardians. Children whose parents are in receipt of parish relief receive spectacles without any further investigation, the cost being refunded to the Education Authority by the Guardians.

The working of this scheme has been very successful. From December 6th, 1910, when it was re-organized, to December 31st, 1911, 434 applications were made to the School Doctor. Of these 317 have obtained spectacles, and have paid the full cost; 41 have obtained spectacles and have partly paid the cost; 25 have been granted spectacles free of cost; 7 withdrawn; 44 made no application to the offices.

Of these cases, 46 have been dealt with by investigations through the Charity Organization Society, and 3 through the Guardians.

The following table shews that such a scheme can be worked economically, the deficit being £4 7s. 4d. only; this will subsequently be somewhat reduced by further contributions from parents.

		pa	nour yabl	e.	An	mou tain	
	No.	£	S.	d.	£	s.	d.
Parent paid full cost	 317	21	12	9	21	12	9
Parent not yet paid in full	 	1	10	3	0	6	6
	 25	2	0	4	.0	0	0
C.O.S. cases: { Free To pay	 24	2	0	5	0	17	2
	383	27	3	9	22	16	5
	-	-					

The average price of a pair of spectacles worked out at 1s. 5d.

Defective Teeth.—During 1911 reports have been submitted to the Education Committee urging the appointment of a part or whole time dentist, in order that a beginning may be made in the treatment of dental caries. At present no conservative work is being done.

During the year extractions and some conservative work have been done at the various hospitals, but treatment has been refused for the year 1912. Under these circumstances, it is very necessary to start a Dental Clinic. The Education Authority has decided that it will take steps in this direction if a grant for medical treatment is received for the ensuing financial year.

Treatment by School Nurses.—Treatment is carried out by the two School Nurses only at the Clinic on Saturdays. Advice as to how treatment may be obtained, and as to the practical methods of carrying it out in the home is, however, given.

The work of each nurse is distinct; Nurse Henson assists in the routine school inspection, in the measurement and weighing of canteen cases, and in the visitation of the homes of parents notified after medical inspection. During 1911, 2,464 home visits have been made by Nurse Henson to such cases, many requiring to be visited on several occasions.

The work of Nurse Richnell has been that of supervision of the cleanliness of children in the schools, the detection of cases of impetigo and ringworm. She also visits the homes of parents who have neglected to carry out instructions, and advises them as to the best means of so doing. During 1911, 1,086 visits were made to schools, and 763 to homes for this purpose.

The work of both Nurses has been carried out thoroughly and with tact, and has been of great assistance in persuading parents to make provision for the necessary treatment. The influence of their visits upon the home conditions is of great value.

THE SCHOOL CLINIC.

This is now in the 6th year of its existence. During the past year, owing to more suitable premises having been obtained, it has been possible to reorganise and extend the work.

The Clinic may be divided into two main sections :-

- 1. Inspection Clinic.
- 2. Treatment Clinic Skin diseases.

 Minor diseases of eyes and appendages.

 Errors of refraction.

The work in both sections is carried on at the new Medical Inspection Offices at 7, Gloucester Place. The lower floor has a large waiting hall capable of accommodating 50 patients, and a smaller room for treatment of diseases of the skin and minor eye troubles. This latter room will be available for the treatment of dental caries when arrangements have been made for this Clinic.

On the second floor is a large consulting room for the School Doctor, and a room for School Nurses and Health Visitor.

On the third floor there is a room for two clerks and a store room.

The premises are central, and are conveniently arranged.

 Inspection Clinic.—This is held every Monday, Wednesday and Friday evening from 5 p.m. till 7 p.m.

The cases seen here are those :-

- Requiring frequent re-examination and supervison, e.g., tuberculosis, heart disease, neurosis, etc.
- Requiring medical certificate on the grounds of ill-health. These
 are sent chiefly by attendance officers, school teachers and school
 nurses.
- Special examinations for limitation or alteration of certain portions of the school curriculum, e.g., deformities, semi-blind, semi-deaf, etc.

- Children requiring special education at a school for mental defectives, blind or deaf.
- Children absent from school for long periods or children not yet on the school roll.
- Re-examinations of children referred from the routine medical inspections.
- Examination of underfed children; children requiring help in the provision of spectacles, etc.

This section of the work has been dealt with ever since the institution of inspection in May, 1908, but up to this year it has not been dignified by the name of a Clinic.

The purpose of such a Clinic is the organisation of the agencies used in following up, and it has been very successful in this direction. It is the centre of co-ordination between school doctor, nurses, teachers, attendance officers, members of the After-Care Committee, and children in the schools.

During 1911, at this Clinic, 2,116 attendances were made. As the Clinic was held on 132 occasions, the average attendance was 16 each evening.

Inspection Clinic.	Year.	No. of Attendances.
•	1908	259
	1909	576
	1910	1106
	1911	2116

This table shews the rapid increase in the amount of work produced by such a Clinic.

2. Treatment Clinic.

(a) For skin diseases and minor eye ailments.—This Clinic is held twice weekly—on Tuesdays from 2.30 p.m. to 5 p.m., and on Saturdays, from 9 a.m. to 10 a.m.

The diseases treated are chiefly contagious diseases of the skin or scalp, verminous conditions, and eczema; in addition, blepharitis, conjunctivitis and certain other eye conditions are dealt with. Cases of other diseases are sent down for examination by teachers, but these are more frequently dealt with at the Inspection Clinic.

Impetigo.—Instead of giving instructions to have the scabs softened by poultices and thereafter removed, it is now the practice to at once remove the scabs at the Clinic and rub in ointment there and then. This can be done in all excepting nervous children, even in the worst cases of impetigo of the scalp. Mild cases are allowed to resume school attendance at once, and severe cases treated as above return to school after being seen once, and found cured, at the end of a week.

Ringworm of the Scalp.—Removal of the hair by a preparation of barium sulphide, followed by painting with tincture of iodine has been tried in a number of cases. A special point is now made of keeping all cases of ringworm of the scalp under observation for months after apparent cure; the child is told to report every two months, and a careful examination is made for any relapse.

In regard to school attendance, the policy of partial exclusion is followed, if the diseased area is practically free from loose hairs or scurf, the child is allowed to attend while wearing a cap.

A considerable increase is noticeable in the number of children attending:—

Est of		No. of		Average
Year.	No. of Cases.	Attendances.	Times held.	Attendance.
1907	123	_	_	_
1908	356	1302	41	32
1909	792	2973	45	66
1910	1306	4652	44	101
*1911	1831	5811	60	97

*From September, 1911, the Skin Clinic was held on Tuesdays and Saturdays; the latter day being used for the special epilation treatment of a few cases—this naturally lowers the average attendance for both days together. The actual average attendance on each day was as follows:—

	No. of Attendances.	Times held.	Average Attendance.
Tuesday	 5612	44	128
Saturday	 199	16	12

The following table shews the conditions treated and number of cases and attendances:—

	BOYS.		GIRLS.		INF	ANTS.	Total	Total
DISEASE.	No.	Attend- ances.	No.	Attendances.	No.	Attend- ances.	No.	Attend- ances.
Verminous conditions	5	5	31	68	17	32	53	105
Ringworm of head Ringworm of head +	104	718	80	534	77	1804	261	3056
body Ringworm of head +	2	7	3	13	11	86	16	106
other diseases	4	31	2	4	9	63	15	98
Ringworm of body	16	35	19	41	31	66	66	142
Impetigo and eczema	100	179	191	416	231	259	522	854
Scabies	9	36	30	149	10	40	49	225
Ciliary blepharitis	18	45	31	74	32	59	81	178
Corneal ulcers	4	5	8	16	6	10	18	. 31
Conjunctivitis	24	60	27	67	19	30	70	157
Alopecia	7	24	8	14	9	26	24	64
Septic sores, &c	23	41	23	39	18	26	64	106
Other skin diseases	11	21	26	69	25	48	62	138
Other diseases {	62	70	94	100	93	100	249	270
Other diseases (71	71	105	105	105	105	281	281
Totals	460	1348	678	1709	693	2754	1831	5811

(January 26th, 1912).

The number and nature of cases at present under treatment is :-

Verminous heads	 		 24
Ringworm of head	 		 387
,, ,, body	 		 3
Impetigo, etc	 		 40
Scabies	 	0.61	 19
Blepharitis	 		 34

Other conditions	 ***	 ***	25
	Total	 	556

The Clinic is almost self-supporting as regards the drug bill (1d. is charged for each box of ointment, etc., where payment is possible).

The expenditure on drugs for 1911 was £10 5s. 2d.; contributions by parents, £9 9s. 2d.

B. Clinic for Errors of Refraction.—In certain cases in which the provision of spectacles was urgently required, the parents refused to obtain treatment at the Hospital or pleaded that they were unable to spare the time to take their children for treatment. In order to meet this difficulty, and to provide a basis for the commencement of a Refraction Clinic (the Hospital Authorities having refused to treat cases after 1911), such cases were asked to attend at the Medical Department of the Education Offices for treatment.

The Clinic is at present held on Saturday morning from 10. a.m. till 12.30 p.m. The following is the record of work done since the commencement on September 30th, 1911, to December 31st, 1911:—

		Total	Average
New cases.	Old cases.	Attendances.	Attendance.
36	24	60	5.4
			New cases. Old cases. Attendances.

Money available for treatment during 1911-12.—The Education Committee in their estimates for the financial year, 1911-12, have allocated the following amounts towards medical treatment of elementary school children.

Upkeep of Clinic	(drugs,	etc.)			£20
Spectacle Fund			***		25
X-ray apparatus,	etc.				140
Increased cost of		neme fo	or Med	lical	
Treatment					290

TREATMENT APART FROM THE SCHOOL CLINIC.

This is obtained from the hospitals and dispensaries and from the private practitioner.

Other agencies such as the branches of the Guild of Brave Poor Things and of the Invalids' Children's Aid Association (formed in 1910) are available for help in certain cases.

It has been previously mentioned that 2,970 (37.7 per cent. of those examined) children were found to be in need of advice or treatment for defects. Of this number 1,156, i.e., 39 per cent., simply required advice as to home life and general hygienic conduct. In this group are included such cases as compensated heart disease, mouth breathers, cases of adenoids not requiring surgical treatment, quiescent tuberculosis, minor skin diseases, and mentally defective children. The remaining 61 per cent., 1,814 in number (a percentage of 23 on the 7,862 children examined), were advised to seek treatment from a private practitioner, or in default, from hospital. The majority of these children suffered from defective vision or enlarged tonsils and adenoids.

The following table shews the number with these defects recommended for medical treatment:—

			Per cent. treated.
Enlarged tonsils and adenoids	 811	 312	 38
Defective vision	 407	 343	 84

The increase in the number of these cases treated is 23 per cent. in the vision group, and the decrease is 17 per cent. in the adenoid group, over the results of last year.

The reasons for the remarkable increase in treatment of vision cases are:—

- 1.—Provision of spectacles scheme.
- 2.-Eye clinic.

In the above, operations were performed in all cases of enlarged tonsils and adenoids, and spectacles procured in the eye cases. The number treated for defective vision is probably 5 per cent. higher than that stated above, since in a certain number of cases (especially in high astigmatism of one eye only) it was not found advisable for the child to get spectacles; moreover, quite a number of children had prescriptions for spectacles given by the hospital authorities, and it was found that the parents were unable or unwilling to pay for these. This latter group is now being dealt with under the spectacles scheme. A further group of children whose throats require attention, and who are to be operated upon for adenoids when a bed is vacant at the hospital, are at present in attendance at the hospitals. It should be mentioned that a certain number of children have been recommended to obtain spectacles after special examination, apart from medical inspection; these are not included in the returns for routine inspection.

The following table shews the number of children obtaining treatment for various conditions at the different hospitals, so far as we have been able to ascertain:—

			rs of T		& Adeno	ids.			
			Spectacles		No Operation	n			
Hospital, &c.	8	pectacles btained.	not yet obtained.	Opera-	up to	Diseases	Dent	al Other con- ditions.	Total.
Eye		175	11	_	_	_	_	8	194
Sussex County		121	8	115	19	4	4	82	353
Throat and Ear		_	_	144	15		_	17	176
Children's		_	1	46	29	6	42	55	179
Dispensary		_	_	2	6	1	4	34	47
Dental Hospital		_	_		_	_	34	_	34
Clinic		34	11		_	213	_	_	258
Private Practition	ers	7	5	4	58	27	6	71	178
Optician		5	_		_	_		_	5
Sanatorium				_				2	2
Dentist		-	_	_		_	41		41
Other Sources		1	_	1	-	3	-	5	10
Totals		343	36	312	127	254	131	274	1477
								-	

Thus, 1,477 out of 1,814 children obtained treatment, i.e., 81.6 per cent. Of the remainder 272 (14.7 per cent.) took no action at all, 36 (2.0 per cent.) had left school without obtaining treatment, and 20 (1.1 per cent.) refused treatment altogether. Three children died before treatment, and six were, on re-examination, not recommended to obtain treatment (.6 per cent.). In 17 of the refusal group the defect was enlargement of tonsils or adenoid growths. The number obtaining treatment from charitable institutions (including Clinic and Dispensary) was 1,262, i.e., 85 per cent.; from a private practitioner or dentist 219, i.e., 15 per cent. (an increase of 4 per cent. on last year). The above statistics do not aim at giving the precise number of school children applying for treatment at the several hospitals, etc.; undoubtedly that number is much larger than stated; these figures represent the numbers attending because of advice given at the routine medical inspection.

The following table shews the results of the last three years:-

		I	er cent.
Year.		obtain	ing treatment.
1908	 	 	68.2
1909	 	 	74.5
1910	 	 	80.9
1911	 	 	81.6

(g) Review of Action Taken to Detect and Prevent the Spread of Infectious Diseases.

For full particulars regarding infectious disease the Annual Report of the Medical Officer of Health should be consulted.

In order to impress upon all Head Teachers the necessity of early notification of infectious diseases, the following paragraphs have been inserted on pp. 150-153 of the Year Book, 1912, of the Education Committee, a copy of which is sent to each Head Teacher.

Without early notification of the non-notifiable infectious diseases (measles, whooping cough), the early check of an epidemic is impossible.

NOTIFICATION OF CASES OF INFECTIOUS DISEASES BY HEAD TEACHERS.

Children suffering from the following diseases: Diphtheria, scarlet fever, measles, German measles, whooping cough, should be notified to the Medical Officer of Health as soon as the Head Teacher learns that they are so suffering.

If mumps or chicken pox seriously interfere with the school attendance they should also be notified.

SCARLET FEVER AND DIPHTHERIA.

Exclusion of the Patient.—Children suffering from scarlet fever are usually absent for at least nine weeks; children affected by diphtheria for at least seven weeks. Four weeks before the return of the patient to school, notice of the date of his return is sent to the Head Teacher.

Contacts.—Contact with scarlet fever or diphtheria necessitates exclusion for one clear week.

OTHER INFECTIOUS DISEASES.

Exclusion of the Patient .-

Measles	Three weeks.
German Measles	Three weeks.
Mumps	Three weeks.
Whooping Cough	
Chicken Pox	
or until all scabs have disappea	red.

Contacts.

Measles, German measles, and whooping cough:—Contacts from Infants' Departments are excluded for the same length of time as the patient. Older children are not excluded.

Mumps and chicken pox:-Contacts are not excluded.

CARRIERS OF INFECTION.

Infection is commonly spread by means of children who carry the infection, but shew no very definite signs of disease.

- In diphtheria, these carriers frequently have "sore noses" which bleed readily; nasal discharge may or may not be present.
- (2) In scarlet fever, the disease is often mild, and the rash overlooked; frequently, however, the child, although complaining of sore throat and headache, continues to attend school.

Under those circumstances, teachers should remember that in the presence of diphtheria, children suffering from "sore nose" and, similarly, in the presence of scarlet fever, all cases of sore throat should be notified to the Medical Officer of Health.

SKIN DISEASES.

Ringworm, Infectious Sores (Impetigo), Scabies and Skin Eruptions of Doubtful Nature.

Head Teachers should make arrangements for children suffering from any of the above to see the School Doctor at the Clinic on Tuesday afternoons. The children should not be allowed to resume attendance until the Teacher receives the School Doctor's certificate.

MEDICAL EXAMINATION OF SCHOOL CHILDREN.

Children sent by Teachers and Attendance Officers to the School Medical Officer or School Doctor for medical examination, should attend as follows:—

- Diseases of Skin and Scalp: Clinic, 7, Gloucester Place, Tuesdays, 2.30.
- 2. Other Diseases and Defects:
 - 7, Gloucester Place, Mondays, Wednesdays, Fridays, 5 p.m. No patient will be seen who arrives later than 5.30 p.m.
- 3. Children whose parents cannot afford to pay for spectacles:
 - 7, Gloucester Place, Mondays, Wednesdays, and Fridays, 5 p.m.

In these cases the parent must attend with the *child*, and in cases of group 3, with the *prescription* obtained from the Hospital, or Clinic.

(h) THE EDUCATION OF DEFECTIVE CHILDREN.

Mentally Defective.—The special school for the education of mentally defective children was opened in 1898, and has accommodation for 40 children.

The following are the chief facts relating to attendance.

Accommodation, 40. Number on roll, 47. Number awaiting admission, 80.

Attending January, 1	911	 	 44
Admitted during 1911		 	 19
Left during 1911		 44.0	 17
Attending December,	1911	 	 48

The necessity for the enlargement of this school was pointed out in 1908, and a special investigation was made during 1909; the conclusions were then reported upon.

In order to provide for the proper education of mentally defective children in this area, a school with accommodation for at least 100 children should be erected. The building at present in use is not suitable for the manual education of children, and has no school hall.

During 1910-11 there has been established within the school a class for boot repairing and cobbling. The results so far obtained are encouraging; instruction is given to selected boys during the last four years of their school life. There has been an increase in the amount of time devoted to occupations and domestic work since last year.

There is in connection with the school an "After-care" Committee. From the social point of view, after care of the mentally deficient is even more important than special education, as it deals with the child at a more critical period of life from the moral standpoint. It is advisable that all cases should be followed up, and that careful records be kept of the after school life, and that the visitor be asked to advise on all questions affecting the welfare of the child. Arrangements have now been made for this to be done.

Physically Defective.—No special arrangements at present exist for the special education of this group. A few children have been accommodated in the ordinary elementary schools. The necessity for the provision of a special school was dealt with in a report made in 1910.

Epileptics.—There are at present 6 children in residential institutions, approved by the Board.

Deaf and Dumb.—Two children at present receive instruction in the local institutions for the Deaf and Dumb.

Blind.—Twelve children are receiving education in the Barclay Home or the Blind Asylum in Brighton.

Moral Defectives.—The Education Authority, in conjunction with the London County Council, have a residential industrial school at Portslade, to which such cases are sent.

The following table gives statistics relating to the after care and after school life of children educated by the authority at various schools and institutions for the defective. As far as possible the records have been brought up to date by particulars obtained by the Head Mistress of the special school and the School Doctor.

The results of the education given are not encouraging; they point to the absolute necessity of further supervision after school age for fully 50 per cent, of the cases.

After Care Statistics (Children left).

	Mentally Deficient		Blind.		Deaf.		Epileptic.	
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls
Number under observation Transferred to other	48	27	6	7	8	2	2	1
Schools	14	5	***					
Discharged through illness								
or unteachable	10	2						
Deaths	3	1						
Lost trace of	5	6	3	3	1		1	
Institutions—			70		100			***
Colony	1	***						
Workhouse	2	3						
Prison	1							
Epileptic	1							1
Blind			2	1				
Asylum						1		
Useful at home	2	5	***		1	1		
Not useful at home	. 1	5			1		1	
Earning regular wages	8 (average wage, 3/6)		1 (4/-)	3 (3/-)	2 (4/-)			
${\bf Period\ under\ supervision}$	May, 1906	Oct., 1911.	1899.	July, 1910.	1897.	July, 1910.	1907.	July 1910

(i) Instruction in Personal Hygiene and Temperance.

Definite instruction in Hygiene and Temperance, on the lines of the Official Syllabus issued by the Board of Education, is given in all of the 52 departments for senior children. In accordance with Circular 758 on the training of girls in infant care and home management, this branch of instruction has been correlated as far as possible with other school work, and in many departments a practical and systematic training is given, based on the scheme described in "Home Management" (Chambers & Co.: Wilena Hitching). This has been energetically taken up by the Head Teachers in many Girls' Departments, and is looked upon as a most important branch of the older girls' education.

MUNICIPAL SCHOOL FOR HOME TRAINING AND MODEL HOME.

This school, which was opened in September, 1910, provides a thorough training in domestic work for girls who have just left elementary schools, with practical work in a Model Home; a full account of the method of working and curriculum was given in the Report for 1910. It has proved very successful, and is now well attended by girls leaving the elementary schools at the age of 14.

Instruction in Cookery.—All girls of 11 in Standard IV. and upwards receive two courses of instruction in cookery during the last three years of school life; each course represents 100 hours instruction, half of which is spent in practical work. There are six centres, which are admirably equipped and managed, for such instruction.

Physical Exercises.—These are carried out according to the course suggested in the new code (1909), i.e., on a modified Swedish system.

The drill in some of the schools was well done, and the children were well disciplined; in others, the number of children at drill was too great to enable adequate supervision to be exercised, the consequence being that many of the children benefitted little by it.

The exercises should be thoroughly enjoyed by the children. Care must be taken to prevent the children becoming "bored," as they do if the lesson be taken slackly. Lack of freedom, from improper dress, is also objectionable. While one cannot expect to obtain for all children a rational costume, yet in summer, for boys, it should be quite practicable to get all vests and coats removed before the drill commences.

General Arrangements for Boys.—Physical drill on 2 days during week, ½ hour lesson; or on 1 day, 1 hour lesson. Swimming, 1 day in week, lesson of ¼ to ¾ hour. Organized games, 1 day in week, 1 to 2 hours.

Girls.—Physical drill in one or two schools for short periods only of 15 minutes, 4 times a week, instead of 1 hour once weekly.

Infants.—Physical drill and organized games daily in most schools. As a rule physical drill only with older children, and organized games chiefly for younger children. Times given vary greatly, 1 hour to 6 per week.

Breathing Exercises are in most schools carried out systematically; it would be of great advantage if this was so in all schools, as by such means the teachers would immediately detect all cases of pronounced nasal obstruction, and would be able to bring these children out for the medical inspection. There has been a marked drop in the number of mouth breathers during the last year, and this is probably a direct result of medical inspection (adenoid cases being advised to secure treatment) and of the increased attention paid to this condition by teachers.

Organized Games.—During summer, classes of children are taken out to various parks and open spaces and there take part in organized games. This is admirably carried out in some schools, but naturally the success or otherwise of organized games depends upon the teachers; where sympathy is not felt with this movement it is generally a failure. In cases in which any considerable distance has to be traversed before arriving at the park, it would be advisable to limit the amount of exercise for the more delicate children.

Suggestions for organized games in elementary schools were drawn up and circulated among Head Teachers in 1909—a copy of these suggestions was included in the Report for that year.

Where the organized games are carried on at a distance from the school, arrangements have now been made to allow the session to be completed by open-air instruction, instead of the class having to return to the school.

Swimming.—Instruction is now given from May to October to selected pupils of 11 to 13 years of age (boys and girls). The tuition is carried out at the Corporation Baths, the Swimming Bath at St. Luke's Terrace, and Brill's Baths. One instructor takes a class of 20 children. Scholarships giving free admission to the Public Baths are awarded by the Baths Committee to one scholar from each of the 25 boys' and 22 girls' departments affiliated to the Elementary Schools Athletic Association. Certificates are awarded to all

children who have learnt to swim. The Education Committee give 12 free tickets, for use in the Public Baths, to each holder of a certificate. Lessons last 45 minutes; there are three male and two female instructors—one male being engaged for full time. Baths cleaned and refilled twice weekly.

During 1911, 658 boys and 262 girls were taught to swim out of a total of 1,309 boys and 817 girls attending for instruction.

ORGANIZATION AND ADMINISTRATION OF THE BRIGHTON ELEMENTARY SCHOOLS
ATHLETIC ASSOCIATION.

For many years past the teachers of Brighton have taken a very active part in the organization of school games and sports among elementary school children. The following are the chief points of interest in this work:—

- Swimming.—Annual sports are held for boys and girls separately.
 Water polo matches are arranged between the schools—the semi-final and final rounds being fought during the sports. These sports aid greatly in encouraging children to learn to swim.
- Athletic Sports (since 1887).—Annual sports are held in July. The
 races are graduated carefully; the entrants being approximately of similar
 ages, and from similar types of schools. Races are for both girls and boys.

Elementary Schools Football Association (since 1892).—There are senior and junior leagues for schools in Brighton and Hove; also the Barlow Challenge Cup for competition on the knock out system. A County Shield is given for competition among clubs belonging to the Sussex Schools Association. The administration of this branch is chiefly carried on by assistant teachers. Last year the Shield was won by a combined team from the Brighton and Hove Schools.

Open Air Schools, etc.—No special arrangements were made for open air schools or holiday camps. In schools in which a suitable playground is available it is found possible to conduct some lessons in the playground; this should certainly be taken advantage of more by teachers who have suitable schools.

WORK IN CONNECTION WITH THE EDUCATION (PROVISION OF MEALS ACT), 1906.

In the Report for 1908 a short history of the movement and the administration and organization were discussed.

All children for whom an application form is received are weighed and measured, and in special cases thoroughly examined by the School Medical Officer or School Doctor. During 1910-11 the total number of examinations made was 1,643 (1908 = 2,006; 1909 = 2,392; 1910 = 1,654).

The children recommended for free meals were those of deficient physique, deficient weight in relation to height, tuberculous and anæmic children, etc. Of the applications received, 46 per cent. were recommended for free meals on medical grounds.

General Arrangements.—The cooking is carried out at one centre (Richmond Street), from which the food is distributed to other centres.

During the winter, 1910-11, two other centres have been open, viz., Elm Grove and Queen's Park.

Children in attendance at the special school are, as formerly, supplied with food provided by the Secondary School Cooking Centre.

Feeding on Saturdays was stopped in 1909.

The superintendence of meals is undertaken by voluntary lady helpers.

Canteen tickets are collected, and the registers are marked at each centre by School Attendance Officers.

Periodical visits were made to the chief centres; the materials used for meals were always found to be of good quality, and the cooking good. For menus, see last Annual Report.

An appeal was again made this last Christmas by a Voluntary Committee for funds to feed the children during the Christmas Vacation, and a sufficient sum was realized to enable all the children on the Free Meal List at that time to be provided with breakfasts.

For statistical purposes the records of the financial year, 1910-1911, are available, and those of the summer session for 1911.

available, and those of the sumin						
1	907-8	1908-9]	1909-10	1	910-11
Approximate number of nomina-		9900		1710		9100
tions	_	 2300		1713		2100
Actual number of children who						
have received any free						
meals during the year	1213	 1427		902		1050
Total number of meals						76701
Penny tickets sold						3679
Average number of free meals						
granted per day:—						
Summer session	98	 257				219
Winter session	620	 844		450		491
Highest number of meals						
granted per day	805	 1097		700		_
Lowest number of meals granted						
per day	82	 187		221		-
Total net cost of fo						
Average cost per r	neal			$\frac{3}{4}$ d.		

Children from 22 of the 32 schools have received meals; the percentage of children thus fed to the number of children on the books of the elementary schools is 5.9 per cent. (1908-9 = 8 per cent.; 1909-10 = 5 per cent.).

The following table shews the percentage of children granted meals to the number on the books for groups of schools:—

							No. of	Scho	ools.	
Per cent. of C	Per cent. of Children granted Meals.					1908-9.		10.	1910-11.	
30 per	cent.	and over			1	***	_		1	
20	11	,,			4		1		1	
10	,,	**			7		6		7	
Under	10 per	cent.			15		15		13	

Of the 1,050 children who received any Free Meals, 550 were recommended by the School Doctor on medical grounds; 446 were not recommended by the School Doctor, but were fed on economic grounds; 54, for various reasons, were not examined.

The following table shews the records of the summer session, 1911 (April—July):—

The chief centre alone was opened.

				1
	1908	1909	1910	1911.
Approximate number of nomina-				
tions	_	 450	 400	 375
Number of children who re-				
ceived any free meals	437	 357	 321	 235
Per cent. of children fed to				
number of children on the				
rolls	2.4	 1.9	 1.7	 1.2
Highest weekly number fed	320	 289	 253	 191
Average daily number of meals	257	 250	 220	 149
	14577	 14259	 *14288	 †8485

*The increase in this column is due to the earlier opening of the centres in 1910.

†The diminution is partly accounted for by a shorter term and the Coronation holidays.

The figures in each space shew a decrease during 1909, 1910, and 1911.

A special report was made on the examination and re-examination of children receiving free meals during the Winter Session, 1910-11. The report gave every encouragement to the Canteen Committee to continue the feeding of underfed school children.

THE FEEDING OF CHILDREN UNDER SCHOOL AGE.

In connection with the system of registering Canteen-fed children in the elementary schools, it was noticed that a small proportion of children under school age belonged to the same families. Obviously the same conditions in the promotion of malnourishment and underfeeding are operating in these cases also. Arrangements were therefore made by a Voluntary Committee for the use of the School Canteens for the feeding of such children. The Canteen Sub-Committee expressed their willingness to co-operate and, as an experiment, decided to allow the use of the Richmond Street Centre for the feeding of a limited number (12) of such children (aged 3-5) at a cost to the voluntary committee of 1d. per meal. A small group was, therefore, selected by the School Doctor, and these children have been fed during the latter half of the winter session. A fuller account of the results of this feeding scheme will be given in the Report for 1912.

PREVENTION OF CRUELTY TO CHILDREN ACT, 1904.

The duties under this Act (formerly carried out by H.M. Inspector of Factories) are to see that all restrictions and conditions endorsed upon the licences granted by the Magistrates to permit children to perform in places of public entertainment are properly complied with.

79 children were licensed during 1910, 66 girls and 13 boys.

53 were employed as singers and dancers.
16 ,, ,, actors and actresses.
4 ,, ,, acrobats.
1 ,, ,, musician.

The children were all between the ages of 10 and 14 years.

3 were licensed till 9.30 p.m.
6 ,, ,, 10.0 p.m.
13 ,, ,, 10.15 p.m.
51 ,, ,, 10.30 p.m.
4 ,, ,, 10.45 p.m.
2 ,, ,, 11.0 p.m.

Only two irregularities have occurred throughout the year. One manager was cautioned for exceeding the time allowed, and one for irregularity in regard to school attendance.

36 night visits and 48 day visits were made in the carrying out of this work.

EMPLOYMENT OF CHILDREN ACT.

Lists of children employed in shops, etc., have been regularly supplied by the Education Authorities. Some of these are very full and accurate in their information, and have been of great assistance to the Inspector.

The following table gives the total number of names submitted on the three lists sent in during 1910:—

E	loys.		Girls.
All Souls'	. 23	All Souls'	. 3
Central	107	Central	
Christ Church	2	Christ Church	
Circus Street	28	Circus Street	. 9
Ditchling Road	108	Ditchling Road	. 4
Elm Grove	96	Elm Grove	
Finsbury Road	94	Finsbury Road	45
Hanover Terrace	108	Hanover Terrace	6
Lewes Road	106	Lewes Road	19
Loder Road	81	Loder Road	-
Middle Street	68	Middle Street	. 2
Pelham Street	110	Pelham Street	15
Preston Road	130	Preston Road	
Park Street	60	Park Street	
Richmond Street	68	Richmond Street	
St. Mary's	44	St. Mary's	
St. Paul's	41	St. Paul's	
St. Martin's	33	St. Martin's	
St. Joseph's	24	St. Joseph's	2
St. Luke's Terrace	95	St. Luke's Terrace	
St. Mark's	53	St. Mark's	
St. John's	95	St. John's	17
St. John the Baptist's	22	St. John the Baptist's	
St. Bartholomew's	55	St. Bartholomew's	16
St. Stephen's	86	St. Stephen's	
Stanford Road	97	Stanford Road	
St. Mary Magdalene	3	St. Margaret's	2
1,	837		234
-			

The following table gives the total number of children employed for the past 3 years, and the number of contraventions of the bye-laws.

1909		1,917	children	employed,	429	offences	(22	per	cent.).	
1910		1,948	,,		332	,,	7 m mm		cent.).	
1911	·	2,069	,,	,,	271	,,	(13	per	cent).	

In 1910, 168 Warning Notices and copies of the bye-laws were sent to employers.

In 1911, 81 Notices were sent. These notices have an excellent effect, those written to at once complying with the bye-laws.

290 Day and 84 Night Inspections were made. The bye-laws were generally well complied with. During exceptional weeks, such as Christmas week, etc., some irregularities occurred, but the employers invariably sent the children home as soon as their attention was drawn to the fact that they were being employed beyond the time allowed.

MEDICAL INSPECTION IN THE SECONDARY SCHOOLS, 1911.

A. Boys' Department.

No. on roll 640.

Average Attendance ... 580.

Total examined ... 506.

(1). HEIGHT AND WEIGHT STATISTICS.

A column has been added shewing the deficiency or excess (in kilograms and centimetres) below or above the measurements of the Secondary Boys' School.

The following tables give a comparison of the heights and weights of Secondary School boys, contrasted with those of the Elementary School, Public School and general average for the country.

WEIGHT (Kilograms.)

Age.	Total Ex. Secondary School.	Secondary School.	Elemen- tary School.	Deficiency or Excess.	*Public School.	Deficiency or Excess.	General Population	Deficiency or Excess.
9	14	26.8	24.8	-2.0			27.4	+ .6
10	64	30.6	26.0	-4.6	30.6	0	30.6	0
11	32	31.9	29.2	-27	33.1	+1.2	32.7	+ .9
12	52	35.0	31.9	- 3.1	36.4	+1.4	34.8	2
13	- 78	38.8	33.6	-5.2	40.2	+1.4	37.4	-1.4
14	100	42.8	38.3	-45	45.0	+ 2.2	41.8	-1.0
15	88	48.1	_	_	50.2	+2.1	46.6	-1.5
16	37	54.8	-	_	58.2	+3.4	54.0	8
17	19	55.4		_	64.2	+8.8	59.4	+4.0
			HE	EIGHT (Cer	timetres.	.)		
9	14	130.6	126.2	-4.4		_	126 2	-4.4
10	64	137.9	129.7	-82	135.6	- 2.3	131.6	-6.3
11	32	141.0	134.4	- 6.6	139.4	-1.6	135 8	-5.2
12	52	146.3	140.1	- 5.2	144.6	-1.7	139.6	- 6.7
13	78	149.6	143.5	- 6.1	149.4	2	144 5	- 5.1
14	100	155.4	154.5	9	154.8	6	150.6	-4.8
15	88	161.6	-	-	160.8	8	158 0	- 3.6
16	37	166 0	-	_	168.8	+28	163.4	- 2.6
17	19	167.2	_		172.0	+4.8	168.2	+1.0

*Rugby, &c.

Note.-1 Kilogram, 2! lbs. 1 Centimetre, † ins.

The following points are of interest:

1.—In regard to weight secondary boys are much in advance of elementary boys; they are slightly in advance of the general population at school ages, and are slightly inferior to public school boys, but the inferiority between the secondary school boy and public school boy is very slight, while between the secondary school boy and the elementary school boy it is very marked. It should be noticed that the weights of the public school boy include clothing of 7 lbs. average, while the secondary school boys have their coats, waistcoats, and boots removed before weighing. This would mean that about 4 lbs. (or 1.8 kilogram) should be subtracted from the public school boy column to bring the weight to one which could be compared equally with the other columns.

2.—In regard to height, secondary school boys are greatly superior to elementary school boys and the general population of corresponding ages, and are slightly superior to public school boys.

The general conclusions are the same as those derived from 1910 records.

(2). VISION STATISTICS.

The visual power with spectacles is given in those cases where boys were already wearing spectacles; this raises the proportion of children with good vision.

The following is a table giving a comparison between secondary and elementary school boys for 1911:—

	Elementary School (1911).	Secondary School (1911).
Vision good or fair (g or g)	88.8 per cent.	91.7 per cent.
Vision moderate (%)	6.0 per cent.	5.0 per cent.
Vision bad (48)	5.1 per cent.	3.2 per cent.
Per cent. of Boys wearing spectacles	3.6 per cent.	4.3 per cent.
Per cent. who require spectacles now or re- quire them changing	5.1 p r cent.	4.0 per cent.

It will be noticed that the percentages favour secondary school boys; this is partly due to the fact that many of those with bad vision are already wearing spectacles, and have raised the standard accordingly.

The next table shews the percentage of visual power and myopia in the various forms. A considerable number of boys show slight myopia in Class I., but the general tendency is for myopia to increase with school age.

17		Number		Myopia		
Form.		Examined.	Good.	Moderate.	Bad.	per cent
1		34	97.0	2.9	_	23.5
2 3		45	90.0	6.6	2.2	-
3		104	92.3	4.8	2.8	14.4
4		96	92.7	6.2	1.0	11.4
5		150	90.6	5.3	4.0	12.0
6		77	90.9	2.6	6.5	18.1

B. Girls' Department.

No. on roll	 403.
Average attendance	 382.
Total examined	 378.

(A.). Height and Weight Statistics.

A column has been added shewing the deficiency or excess (in kilograms and centimetres) below or above the measurements of secondary girls' school.

WEIGHT (Kilograms).

Age.	Total Ex. Secondary School.	Secondary School.	Elemen- tary Schools.	Deficiency or Excess.	*Public School.	Deficiency or Excess.	General Population	Deficiency or Excess.
8	1	19.3	23.0	+3.7				
9	3	28.7	24.8	-3.9			-	
10	12	28.5	26.1	-2.4	31 3	+2.8	28.1	4
11	41	33.3	28.4	- 4.9	36.0	+2.7	30 9	-2.4
12	59	36.7	33.4	-3.3	39.1	+2.4	34.7	-2.0
13	80	40.7	35,3	- 5.4	43.0	+2.3	39.5	-1.2
14	71	45.4	40.0	-5.4	47.8	+2.4	43.8	-16
15	53	48.9	-	-	50.5	+1.6	47.6	-1.3
16	28	52.6		-	52.8	+ .2	51.2	-14
17	15	53.0	-	-	_		52.2	8
18	1	45.4		-	-	_	53.4	+8.0
			HE	IGHT (Cer	ntimetres).		
8	1	118.7	125.1	+6.4	_		_	_
9	3	133.6	126.2	-7.4			_	_
10	12	133.4	129.0	-4.4	135.6	+2.2	129.8	-3.6
11	41	141.7	133.8	-7.9	141.5	2	134.8	-6.9
12	59	147.3	141.9	-54	147.3	0	141.5	-58
13	80	153.4	144.6	-8.8	151.3	-2.1	146.8	-6.6
14	71	156.8	147.6	-9.2	154.4	-2.4	151.8	-5.0
15	53	159.6	-	_	158.9	7	154.8	-4.8
16	28	162.0	-	-	159.9	-2.1	156.8	-5.2
17	15	163.0		-	-	-	158.8	-4.2
18	1	162 6	-	-	-	-	160.0	-2.6

* North London Collegiate School. Note.—1 Kilogram, 2 lbs. 1 Centimetre, lins.

1.—In regard to weight, the secondary school girl shews marked superiority over the elementary school girl, and a moderate increase over the average general population of corresponding ages. She is considerably inferior to the public school girl, but the inferiority is so consistent at each age that one is inclined to suspect that much of it is apparent rather than real, and that a considerable portion of it may be attributed to dress rather than to body weight. Many of the secondary school girls were weighed in gymnastic costumes, weighing considerably less than the usual dress of girls.

2.—In regard to *height*, the secondary school girl is much better developed than the corresponding elementary school girl and the average girl, and shews slight superiority generally over the public school girl.

(B.). VISION STATISTICS.

The visual power with spectacles is taken in those children already wearing spectacles. This raises the proportion of children with good vision.

	Elementary School (1911).	Secondary School (1911).
Vision good or fair (# or #)	85.3 per cent.	88.4 per cent.
Vision moderate (12)	8.1 per cent.	5.8 per cent.
Vision bad (is)	6.6 per cent.	5.8 per cent.
Per cent. of Girls wearing spectacles	5.0 per cent.	10.0 per cent.
Per cent. who require spectacles now or re- quire them changing	6.6 per cent.	7.1 per cent.

As in the case of the boys, it will be noticed that the vision is apparently rather better in the secondary girls' school than in the elementary schools: this is due to the fact that many of the cases of defective vision have already been corrected by spectacles, and now rank as cases with good vision.

Actually the vision is considerably worse, as may be seen by noticing the percentage of children already wearing glasses or requiring them in the two classes of schools.

The next table shews generally the visual power of the various forms and shews the increase of myopia during school life. It is much more marked than in the boys' department.

V		Number		Myopia		
Form.		Examined.	Good.	Moderate.	Bad.	per cent.
1		9	89.0	11.1		
2 3		18	88.9	5.6	5.6	5.6
3		136	86.0	7.3	6.6	12.5
4		88	89.8	3.4	6.8	13.7
5		69	91.3	5.8	29	23.2
6		58	87.9	5.2	6.9	18.9