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RADCLIFFE,
MARCH, 1905.

GENTLEMEN,

I have the honour to present to you my Fourth Annual Report on the Health and Sanitary condition of the District.

The estimated population is 25,500. The area 3,098 acres.

The population is divided amongst the various Wards as follows :—

Ward.	Population.
Black Lane.....	7167
Radcliffe Hall	5958
Radcliffe Bridge.....	7567
Stand Lane.....	4808
Total ..	<u>25500</u>

Appended are tables giving statistics of the numbers of Births and Deaths in each Ward :—

The Births were as follows :—

Ward.	Males.	Females.	Total.	Rate.
Black Lane	98	86	184	25·6
Radcliffe Hall	56	65	121	20·3
Radcliffe Bridge	115	73	188	24·8
Stand Lane	59	67	126	26·2
Whole District...	328	291	619	24·2

This table shows a Birth rate of 24·2 per thousand as compared with 25·2 per thousand in 1903 ; 28·7 per thousand in 1902, and 25·0 per thousand in 1901.

The Deaths registered within the District numbered 471 ; as compared with 424 in 1903 and 451 in 1902. To these must be added 31 deaths occurring in Public Institutions outside the District, of persons belonging thereto (as compared with 18 last year) making the total deaths at all ages 502. They were distributed as follows :—

Ward.	Males.	Females.	Total.	Rate.
Black Lane	55	58	113	15·7
Radcliffe Hall	72	54	126	21·1
Radcliffe Bridge	84	66	150	19·8
Stand Lane	60	53	113	23·5
Whole District...	271	231	502	19·6

This mortality is equivalent to a death rate of 19·6 per thousand, as compared with 17·3 per thousand in 1903, and 17·7 per thousand in 1902. With regard to the individual Ward mortality, the rates for the last three years is as follows :—

Ward.	1902.		1903.		1904.
Black Lane.....	18·7	...	16·6	...	15·7
Radcliffe Hall.....	14·9	...	15·2	...	21·1
Radcliffe Bridge.....	18·6	...	20·3	...	19·8
Stand Lane.....	18·1	...	16·2	...	23·5
Whole District	17·7		17·3		19·6

Infant Mortality.—The deaths of Children under one year old were 122, as compared with 97 in 1903, and 115 in 1902.

With regard to the different Wards the following is the table :—

Black Lane	24 deaths
Radcliffe Hall	29 „
Radcliffe Bridge	38 „
Stand Lane	31 „

Under the age of 5 years the deaths numbered 199, as compared with 156 in 1903, and 174 in 1902.

The Infant Mortality estimated in terms of the number of deaths under one year per thousand births gives the following results for the last six years :—

1899	1900	1901	1902	1903	1904
189	198	191	157	150	197

It is much to be regretted that the Infant Mortality is higher this year than it has been since 1900. The increase is due principally to diarrhoea, which is generally rife when the summer and autumn months are very hot as they were last year. Bronchitis also was responsible for some of the increase.

The rate, though high, has been surpassed in other districts ; still there is no reason why it should not be permanently lessened. It is a matter of common knowledge that improper feeding is a potent cause of much of the diarrhoea that is so fatal to infants and young children ; and that to exposure to cold, caused by taking children of tender age out in the early morning hours, and to their being insufficiently clothed is mainly due the mortality from chest diseases.

The habit of giving to infants "a bit of anything that is on the table" regardless of the fact that their weak digestive powers are unable to assimilate this food, is one that cannot be too sternly condemned.

When it is not possible to feed the babies with the mother's milk, the best substitute is ordinary cow's milk boiled and properly diluted. The strictest precautions should be taken to keep the bottles perfectly clean. These should be of the boat shaped pattern with a small teat, as it is very difficult to secure the cleanliness of the long india rubber tubes with which bottles of other patterns are furnished. Every effort should be made to encourage mothers to take advantage of the instruction given in the Sick Nursing Classes carried on under the Technical Instruction Committee, as it is only by the wide dissemination of knowledge on this important matter that we can hope to reduce this "slaughter of the innocents." Gross and persistent carelessness should be dealt with by the hand of the law.

Appended is a list of Tables (1) showing causes of, and ages at death, during the year 1904 ; (2) Vital Statistics of whole District during 1904 and previous years, and (3) Vital Statistics of the separate Wards in 1904 and previous years.

Causes of, and Ages at Death during year 1904.

Causes of Death.	Deaths in or belonging to whole District at subjoined ages.							Deaths in or belonging to Wards, at all ages			
	All ages.	Under 1 year.	1 and under 5.	5 and under 15	15 and under 25.	25 and under 65.	65 and upwards.	Black Lane Ward.	Radcliffe Hall Ward.	Radcliffe Bridge.	Stand Lane Ward.
1	2	3	4	5	6	7	8	9	10	11	12
Measles	16	2	14					6	4	6	
Scarlet Fever	13	1	6	6					5	7	1
Whooping Cough	5	4	1					1	2	1	1
Diphtheria and Mem- braneous Croup	4		1	2			1	1	2		1
Croup	1			1					1		
Enteric Fever	6	1		3	1	1		1	2		3
Epidemic Influenza.....	3				1	2		1	1		1
Diarrhoea	31	22	3			2	4	10	5	12	4
Enteritis	3		1			1	1		1	1	1
Puerperal Fever	1					1		1			
Erysipelas	1						1		1		
Other septic diseases ...	1	1							1		
Phthisis (Pulm Tuber- culosis)	30		3	3	9	15		7	8	9	6
Other Tubercular diseases	7	3	4					1		2	4
Cancer malignant disease	23					21	2	7	6	4	6
Bronchitis	76	17	14	1	1	15	28	21	18	21	16
Pneumonia	22	3	7	4	1	7		3	9	6	4
Pleurisy	1						1		1		
Other diseases of Res- piratory organs	4		3			1		1		3	
Alcoholism	3					3			1		2
Cirrhosis of liver .. }											
Venereal diseases	1	1								1	
Premature birth	10	10							1	5	4
Diseases and accidents of parturition	4				1	3		1		3	
Heart diseases	19			1	2	8	8	4	3	9	3
Accidents	10		2	2	2	3	1	2	1	2	5
Suicides	1					1				1	
All other causes	206	57	16	9	8	64	52	45	53	57	51
All causes	502	122	75	32	26	148	99	113	126	150	113

Vital Statistics of whole District during 1904 and previous years.

Year.	Population estimated to middle of each year.	Births.		Total Deaths Registered in the District.				Deaths of Residents registered in Public Institutions beyond the District.	Nett Deaths at all Ages belonging to the District.	
		Number	Rate*	Under 1 year of age.		At all Ages.			Number	Rate*
				Number	Rate per 1,000 Births registered.	Number	Rate*			
1	2	3	4	5	6	7	8	9	10	11
1894	25000	715	31.0	109	154	364	15.9		364	15.9
1895	25500	720	28.2	160	222	496	19.4		496	19.4
1896	26000	726	27.9	143	196	486	18.6		486	18.6
1897	26500	735	27.7	134	182	451	17.0		451	17.0
1898	26000	729	28.0	125	171	428	16.4		428	16.4
1899	26500	669	25.2	127	189	475	17.9		475	17.9
1900	27000	729	27.0	145	198	493	18.2		493	18.2
1901	25400	636	25.0	122	191	464	18.2	2	466	18.3
1902	25400	730	28.7	115	157	427	16.8	24	451	17.7
1903	25500	643	25.2	97	150	424	16.6	18	442	17.3
Averages for years 1894-1903	25880	703	27.3	127	181	450	17.5		455	17.6
1904	25500	619	24.2	122	197	471	18.4	31	502	19.6

* Rates in Columns 4, 8, and 11 calculated per 1000 of estimated population.

Area of District in acres (exclusive of area covered by water) 3,098
 Total population at all ages 25,368 } At Census of 1901.
 Number of inhabited houses 5,445 }
 Average number of persons per house 4.6 }

Institutions outside the District receiving sick and infirm persons from the District
 Bury Union Workhouse
 Bury Infirmary
 Florence Nightingale Hospital
 Ainsworth Smallpox Hospital
 Royal Infirmary, Manchester

Vital Statistics of the separate Wards in 1904 and previous years.

Names of Localities,	1—Black Lane Ward				2—Radcliffe Hall Ward				3—Radcliffe Bridge Ward				4—Stand Lane Ward			
	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year	Population esti- mated to middle of each year	Births registered	Deaths at all ages	Deaths under 1 year
1901	7123	207	133	33	5929	145	107	23	7538	192	129	42	4778	92	95	24
1902	7132	233	134	30	5936	138	89	16	7547	218	141	42	4785	141	87	27
1903	7167	197	119	24	5958	135	91	19	7567	187	154	33	4808	124	78	21
Averages of years 1901 to 1903	7174	212	128	29	5941	136	95	19	7550	199	141	39	4790	119	86	24
1904	7167	184	113	24	5958	121	126	29	7567	188	150	38	4808	126	113	31

Zymotic Diseases. The deaths from the principal zymotic diseases during the last three years were as follows :—

Disease.	1902.	1903.	1904.
Smallpox	0 ...	0 ...	0
Measles	13 ...	14 ...	16
Scarlet Fever	0 ...	5 ...	13
Whooping Cough	0 ...	1 ...	5
Diphtheria & Membranous Croup	10 ...	7 ...	4
Enteric Fever.....	7 ...	4 ...	6
Diarrhœa	5 ..	13 ...	31

The total number of deaths from these diseases was 75, as compared with 44 in 1903, 36 in 1902, and 74 in 1901.

The increase this year is principally due to diarrhœa. The rate per thousand of the population was as follows for the last seven years:—

1898	1899	1900	1901	1902	1903	1904
2·5	2·1	2·8	2·7	1·4	1·7	2·9

Cases of Infectious Disease notified during the Year 1904.

Cases notified in whole district.	Total cases notified in each ward.				No. of cases removed to Hospital.				
Notifiable Disease	At all Ages	Rad. Bridge Ward.	Rad. Hall Ward.	Black Lane Ward.	Stand Lane Ward.	Rad. Bridge Ward.	Rad. Hall Ward.	Black Lane Ward.	Stand Lane Ward.
Diphtheria	29	4	16	5	4	1	7	2	...
Membranous croup.	6	1	...	4	1	...	...	...	...
Erysipelas	47	16	9	14	8	...	...	...	...
Scarlet Fever ...	300	79	118	63	40	5	39	6	7
Enteric Fever.....	26	...	6	4	16	...	...	...	3
Puerperal Fever.....	1	...	...	1	...	..	...	...	...
Totals... ..	409	100	149	91	69	6	46	8	10

Table of Notification of Infectious Diseases for each month in each Ward in 1904.

Month.	Radcliffe Bridge Ward.						Radcliffe Hall Ward.						Black Lane Ward.						Stand Lane Ward.					
	Diphtheria and Membranous Group	Erysipelas	Scarlet Fever	Enteric Fever	Puerperal Fever	Total	Diphtheria and Membranous Group	Erysipelas	Scarlet Fever	Enteric Fever	Puerperal Fever	Total	Diphtheria and Membranous Group	Erysipelas	Scarlet Fever	Enteric Fever	Puerperal Fever	Total	Diphtheria and Membranous Group	Erysipelas	Scarlet Fever	Enteric Fever	Puerperal Fever	Total
January.....	...	1	7			8	1	1	1			3	2	4	6	1		13	...	1	5			6
February.....	1	...	10			11	7	...	17			24	1	2	15	1		19	1	2	...	1		4
March.....	1	...	15			16	1	1	21			23	...	1	1	1		3	1	...	12	1		14
April.....	...	2	21			23	...	...	14	1		15	...	...	3	...	...	3	...	...	8	...		8
May.....	2	2	8			12	2	...	10	1		13	1	2	1	1		5	...	2	7	2		11
June.....	...	...	...			...	...	1	12	...		12	...	...	11	...		11	1	...	...	1		2
July.....	...	1	2			3	...	...	18	2		21	...	...	4	...		5	1	1	2	1		5
August.....	...	4	1			5	4	...	6	...		10	2	...	2	...	1	4	...	...	3	3		3
September.....	...	1	2			3	...	2	7	1		10	...	1	5	...	...	6	...	1	4	4		9
October.....	...	2	2			4	...	2	6	1		9	1	1	3	...	...	5	1	1	1	2		5
November.....	1	2	7			10	1	2	4	...		7	2	...	8	...	...	10	...	...	1	1		2
December.....	...	1	4			5	...	...	2	...		2	...	3	4	...	...	7	...	...	...	...		...
Total.....	5	16	79			100	16	9	118	6		149	9	14	63	4	1	91	5	8	40	16		69

During the year 409 cases of Infectious Diseases were notified as compared with 243 in 1903 and 182 in 1902.

Small-pox. The District has been entirely free from this disease during the year.

Scarlet Fever. 300 cases were notified during the year, as compared with 129 in 1903, and 46 in 1902. 13 deaths occurred. As in 1903, the disease was of a mild type, and this partly accounts for the increase, as the Fever was not generally recognised by parents until others had been infected. It must be said, however, that it is difficult to convince those in charge of sufferers from this disease, that they should keep the patient properly isolated. Contrary to the instructions of their Medical attendant and to the warnings of the Sanitary Inspector, friends and relatives are too frequently allowed to visit the invalids, and that when they are in the most infectious condition. It should be stated that persons wilfully permitting contact of visitors with Scarlet Fever patients are liable to a penalty. 57 Scarlet Fever patients were admitted into the Florence Nightingale Hospital during the year.

Diphtheria and Membranous Croup. 35 cases were reported, as against 25 in 1903, and 42 in 1902. There were 4 deaths as compared with 7 in 1903, and 10 in 1902. As last year, the greatest number of cases (16) came from Radcliffe Hall Ward.

Enteric Fever. 26 cases were notified with 6 deaths, as compared with 25 cases and 4 deaths in 1903, and 47 cases and 7 deaths in 1902. 16 of the 26 cases occurred in Stand Lane Ward, while Radcliffe Bridge Ward was free from the disease. I have suggested in former reports, "that ventilating shafts be more extensively employed; that the manholes be cleaned periodically and effectively, and above all, that the Water Carriage system be substituted in all possible cases for the midden privies." To the number of midden privies in Stand Lane Ward, I attribute the fact that more cases were notified from that Ward than from all the others put together.

Diarrhœa. 31 deaths occurred from diarrhœa, as compared with 13 in 1903, and 5 in 1902. I have already referred to this disease in the paragraph relating to Infant Mortality.

Erysipelas. 47 cases were notified, as were last year also; there was one death from this cause.

Measles 16 deaths were recorded from this disease, as compared with 14 in 1903, and 13 in 1902. The Infant Schools in Radcliffe Hall Ward were closed for a short time during the year, owing to an epidemic.

Phthisis. This caused 30 deaths, as compared with 22 in 1903, and 31 in 1902. The rate being 1·17 per thousand in comparison with 0·86 in 1903, and 1·22 per thousand in 1902.

Bronchitis, Pneumonia, and Pleurisy. 99 deaths occurred from these diseases, as compared with 88 in 1903, and 93 in 1902. The death rate being 3·88 per thousand in comparison with 3·45 in 1903, and 3·60 in 1902.

Heart Diseases were responsible for 19 deaths, as compared with 28 in 1903.

Injuries caused 10 deaths, in comparison with 8 in 1903, and 11 in 1902.

Water Supply. Complaints are still being made with regard to the water. The improvements promised by the Joint Water Board have not as yet shown any practical result.

The Milk Supply continues to be of satisfactory quality.

Cemetery. My predecessor and I have repeatedly called attention to this urgent requirement. The burial places connected with the Churches are becoming a great danger to sanitation.

Factory and Workshops Act, 1901. The duties connected with this Act, as far as regards Public Health, have been satisfactorily carried out

Workshops. There are (as last year) on the register 130 workshops in the district. In only two instances were complaints made of non-compliance with the provisions of the Act of 1901, and these were promptly remedied.

All Factories have Fire Escapes connected with them. Proper attention has been given to the sanitary conveniences of these buildings

I append the report of Mr. Smith, Sanitary Inspector, in which you will see the great amount of work very satisfactorily done, that devolves upon his department.

Sanitary Inspector's Annual Report, 1904.

I have the honour to submit to you my Fifth Annual Report of the work done in the Health Department during the year 1904 ; together with particulars of nuisances abated, and improvements effected thereby.

The provisions of Section 92 of the Public Health Act, 1875, requiring Local Authorities to make systematic inspection of their District, have received attention, and a house to house visitation has been made in a number of Streets in different parts of the District.

Premises were also visited upon complaint being made, and when sickness occurred therein, the total number of inspections being 1,275.

Two hundred and forty-six preliminary Notices in respect of Nuisances discovered in the course of inspection were served upon owners or occupiers, to abate nuisances, or carry out sanitary improvements. The majority of the notices received prompt attention, but in a number of instances nuisances affecting 231 houses were reported to the Committee, and statutory notices were served, in almost every case the nuisances have been abated, or orders given to do necessary works to abate same.

Frequent re-inspections of premises were made to ensure the proper carrying out of the Work, and a large number of appointments in all parts of the District have been kept with owners, occupiers, etc., respecting complaints or works required to be carried out.

The work of Street Scavenging is more systematically attended to than formerly. A portion of the Main Roads is now scavenged daily, formerly these were weekly.

The two Sand Spreading Machines have done very good service during the winter, and the streets have been more efficiently and economically attended to during frosty weather.

There are 1166 Trapped and 1,280 Untrapped Street Gullies regularly emptied.

I have received many complaints of stench arising from the

Public Sewers through these untrapped gullies, and the open Manhole Covers, and I am of opinion that if the gullies were trapped, the Manhole Covers sealed, and ventilating shafts at regular intervals, together with a systematic cleansing of the decomposed Sewage matter from the Sewers, the cause of complaint would not be so great as at present.

The Workshops have been periodically visited. In two instances complaints were made of noncompliance with the Factory and Workshops Act, 1901, the cause for these complaints was remedied forthwith.

A number of complaints have been made by the Factory Inspector, structural defects in (and type of) Sanitary conveniences being the chief cause of complaint; those which have not already been remedied are having attention. The desire of the Inspector is that wherever possible the Water Carriage system be adopted. The Slaughterhouses have been periodically visited, two occupiers had their attention called to their premises not being in conformity with the Byelaws. these have been remedied.

The Market has been visited regularly by your Medical Officer and myself, several seizures of unsound fruit, the carcass of a cow found in the possession of a Radcliffe butcher, and the carcass of a pig, these were all destroyed, but no prosecutions instituted.

The Dairies, Cowsheds, and Milkshops have been periodically visited, these have been duly limewashed and clean.

Fifty-two samples of Milk have been taken during the year, the quality of same giving no cause for complaint.

During the year I have made 106 visits to the Canal Bank, and inspected 35 Boats, most of these on several occasions, I found four infringements of the Canal Boats Acts on four boats, viz : 2 mixing of sexes and 2 insufficient water casks. Promises were made to remedy the infringements in all cases.

As shown in the Tabulated Statement, it will be observed that the Ashpits throughout the District are scavenged oftener than was the case formerly. The difficulties in this Department of the work are gradually lessening, and will continue to do so, as the

number of Privy Middens decrease, and Water Closets with improved dry ashpits, and floors of same above ground level, with proper doors for scavenging purposes are increased.

In the year 1895 the District was scavenged less than 4 times during the year 1903 15 times, and for the year 1904 $16\frac{1}{2}$ times, or say once in three weeks. And in addition there are 210 Pail Closets scavenged weekly.

Summary of Nuisances abated and Works carried out.

Number of Loads of Street Sweepings, removed by Scavengers, 2396 @ 18 cwt =	2156 tons
Supplied to Foundries in the District, for which payment is made to the Council Quarterly.....	328 Loads
Number of Ashpits emptied	49459 „
To Number of Houses, averaging $16\frac{1}{2}$ times for year, or once every 3 weeks	103989 „
Total Number of Loads of Nightsoil removed	8586 „
Distributed as follows :—	
To Farmers, 3096 Loads, @ 25 cwt. =	4757 tons
To Destructor, 2328 „ @ 25 cwt. =	2909 „
To Tips, 2452 „ @ 25 cwt. =	4065 „
Total Loads, 8586 „ @ 25 cwt. = Total weight	11731 „

Gully Traps affixed	34
Brick Drains taken out.....	75
New Tile Drains laid.....	129
Ventilating Shafts on Drains when re-constructed	29
Defective Drains repaired and cleaned out.....	70
Defective Waste Pipes repaired	75
Defective Down and Eaves Spouts repaired.....	33
New dry or altered Ashpits, in lieu of defective Ashpits...	53
New Privies in lieu of defective Privies	52
Privies converted to Water-carriage	105
Ashpits filled in and concreted.....	12
Pails in lieu of 6 Cesspools	26
Houses disinfected.....	362
Complaints of Steam turned into Public Sewers.....	2
Back Premises cleaned after informal Notice.....	84

Nuisances abated and not classified.....	65
Smoke observations taken.....	30
Notice of blockage to 19 Street Gullies have been given to the Surveyor, these have been attended to.	
Dairies and Cowsheds periodically inspected and clean ...	33
Slaughterhouses periodically inspected and clean	17
Offensive Trade Works periodically inspected and clean ...	5
Bakehouses periodically inspected and clean	26
Workshops periodically inspected and clean	118
Common Lodging House periodically inspected and clean	1

