[Report 1926] / Medical Officer of Health, Middlesbrough County Borough.

Contributors

Middlesbrough (England). County Borough Council.

Publication/Creation

1926

Persistent URL

https://wellcomecollection.org/works/xz69hjqz

License and attribution

You have permission to make copies of this work under a Creative Commons, Attribution license.

This licence permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



64469

County Borough



of Middlesbrough.

HEALTH DEPARTMENT.

Annual Report

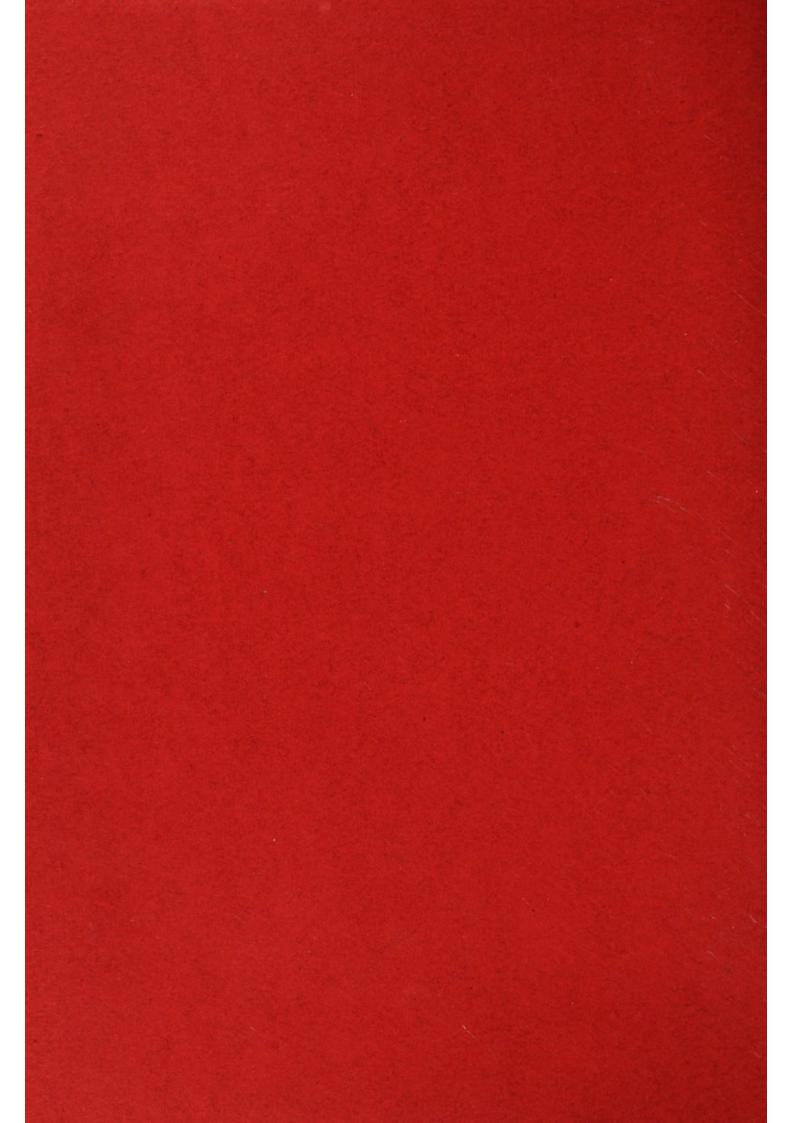
AND

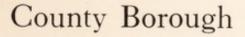
VITAL AND MORTALITY STATISTICS

For the Year 1926.

Middlesbrough:

JORDISON & Co., Ltp., PRINTERS, LITHOGRAPHERS, &c.







of Middlesbrough.

HEALTH DEPARTMENT.

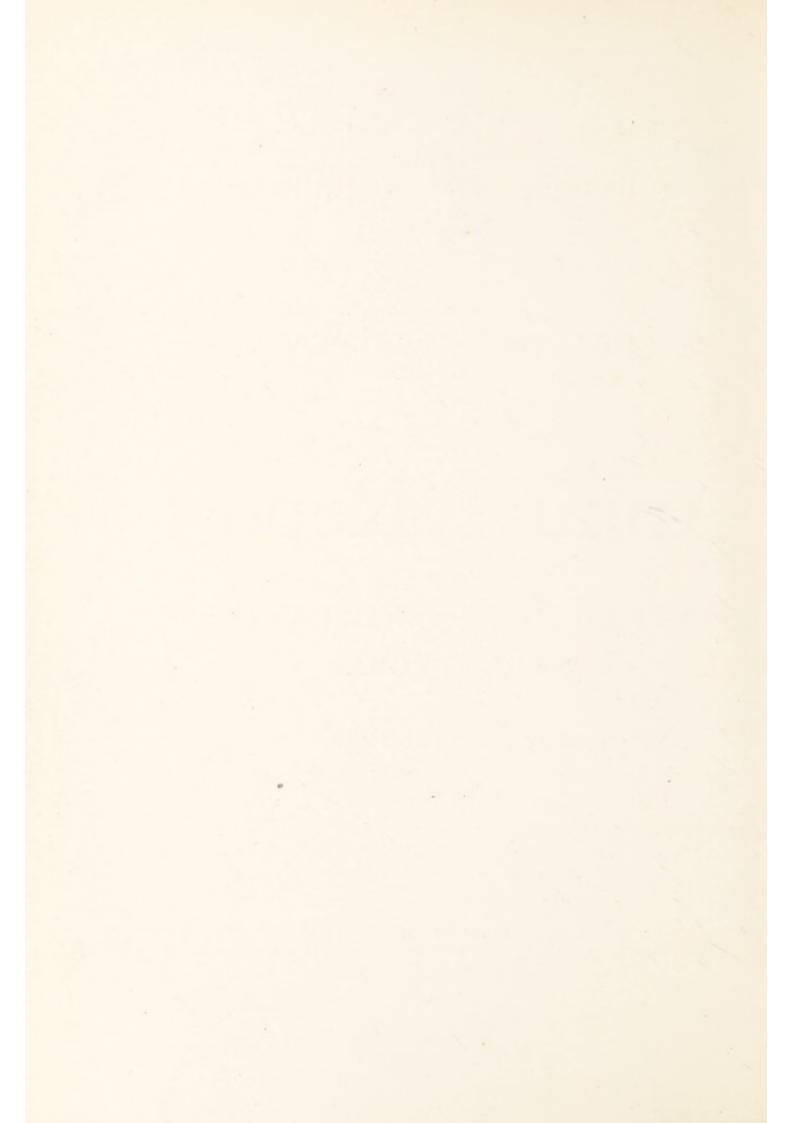
Annual Report

AND

VITAL AND MORTALITY STATISTICS

For the Year 1926.

JORDISON & Co. LTD., PRINTERS, LITHOGRAPHERS, &c.



COUNTY BOROUGH OF MIDDLESBROUGH.

Members of the Sanitary Committee, 1926-7.

Chairman—Alderman A. Mattison.

Vice-Chairman—Alderman W. Trevelyan Thomson, M.P.

HIS WORSHIP THE MAYOR (COUNCILLOR A. WEATHERHEAD, M.B.E.).

ALDERMEN W. J. BRUCE, O.B.E., J.P., G. A. CAREY, J. FORBES, J.P., J. RODDY.

Councillors Mrs. Marion Coates-Hansen, A. Elstrop, Mrs. H. Guthrie, H. D. Levick, M.B., J.P., H. M. Levick, M.D., S. Levy, A. Marshall, T. Meehan, J. G. Pallister, J. Pickering, P. Sullivan, A. Todd, E. Turner, J. G. Waddington, C. B. Wood.

Members of the Sanatorium Committee, 1926-7.

Chairman—Councillor J. G. Pallister.

HIS WORSHIP THE MAYOR (COUNCILLOR A. WEATHERHEAD, M.B.E.)

ALDERMEN W. J. BRUCE, O.B.E., J.P., J. FORBES, J.P., A. MATTISON, T. G. POOLE, J.P., W. TREVELYAN THOMSON, M.P.

Councillors F. Carey, Mrs. Marion Coates-Hansen, A. Cooper, H. D. Levick, M.B., J.P., H. M. Levick, M.D., A. Marshall, T. Meehan, S. A. Sadler, J.P., P. Sullivan, C. B. Wood.

Members of the Maternity and Child Welfare Committee, 1926-7.

Chairman-Lady Calvert, J.P.

· HIS WORSHIP THE MAYOR (COUNCILLOR A. WEATHERHEAD, M.B.E.)

Mrs. M. E. Hewitson, Miss Purvis, Mrs. Kedward, Mrs. Bruce, Mrs. Stanley A. Sadler, Mrs. Truran, Dr. Harold Lowe.

ALDERMEN A. CAREY, J. FORBES, J.P., T. J. KEDWARD, A. MATTISON, J. RODDY.

Councillors G. Alexander, J. Wesley Brown, Mrs. Marion Coates-Hansen, T. Curran, J. Graham, Mrs. H. Guthrie, J. Hamill, H. D. Levick, M.B., J.P., H. M. Levick, M.D., T. D. Stewart, P. Sullivan, C. B. Wood.

STAFF.

MEDICAL OFFICER OF HEALTH AND SUPERINTENDENT OF HOSPITALS: ‡CHAS. V. DINGLE, M.D., B. Hy., D.P.H.

Assistant Medical Officer of Health: WILLIAM L. TULLIS, M.D., Ch. B., D.P.H.

TUBERCULOSIS OFFICER:

‡F. J. HENRY, M.B., F.R.C.S., D.P.H. (BARRISTER-AT-LAW).

MATERNITY AND CHILD WELFARE MEDICAL OFFICER: †MRS. GRACE H. GIFFEN DUNDAS, F.R.C.S., D.P.H.

VENEREAL DISEASES MEDICAL OFFICER (PART TIME): ‡ARTHUR BRYANS, L.R.C.P. & S. (Ed.), L.R.F.P.S. (Glas.):

CHIEF SANITARY INSPECTOR:

*††THOMAS P. DIXON, MEM. S.I.A., MEM. R.S.I.

Assistant Sanitary Inspectors:

†A .W. LUCAS (Factories, Workshops, &c.)

*†J. N. MARTIN.

†M. GUTHRIE (Appointed April, 1926). *†R. LEGGETT (Appointed Dec. 1926).

*†S. E. ELLIS (Food and Drugs).

*†H. WHITFIELD.

*†A. C. WALKER.

†F. FRANKS (Resigned Dec. 1926).

†H. WATSON.

P. B. STAMP (Probationer).

HEALTH VISITORS:

† MISS L. BELL (Supervisor)

† MISS M. A. BLAKE.

†‡§||MISS M. VEITCH.

दMISS M. NESBITT. दMISS R. SPITTEL.

İŞ MISS A. G. TODD.

NURSES:

‡MISS M. OWEN (Tuberculosis). ¶‡MISS D. E. HALL (Tuberculosis)

(Appointed 19/4/26).

†MISS STOCKTON (TUBERCULOSIS). †MISS G. VAUGHAN (MEASLES).

MATRONS:

MRS. B. GARDNER: FEVER AND SMALLPOX HOSPITALS.

§‡¶MISS ANNIE DAVIES: MUNICIPAL MATERNITY HOME & CHILDREN'S HOSPITAL.

CLERKS:

†JOHN W. RAWDON. P. E. TAGGART. ‡Miss ANDERTON. J. E. DODSWORTH.

G. DANNELL.

R. JAMES.

‡Mrs. C. WALLER.

‡Miss H. DANBY.

FOREMEN SCAVENGERS:

G. STEVENSON.

T. WILSON.

^{*}Meat Inspector's Certificate of R.S.I.

[†]Sanitary Inspector's Certificate of R.S.I.

[‡]Salaries rank for Exchequer Grant.

[§]Certificate of Central Midwives' Board.

^{||}Health Visitor's Diploma, Board of Education.

[¶]State Registered Nurse.

THE HEALTH DEPARTMENT, MUNICIPAL BUILDINGS, MIDDLESBROUGH,

July, 1927.

To The Chairman (Alderman A. Mattison) and Members of the Sanitary Committee.

LADIES AND GENTLEMEN,

I have the honour to present for your consideration my Twenty-Eighth Annual Report on the Health of the County Borough of Middlesbrough.

During the year 1926, the Health of the population of Middlesbrough was very satisfactory, both the Death Rate and the Infantile Mortality Rate were the second lowest rates during the past twenty-eight years. The Zymotic Death Rate was also a very low one.

The steady improvement in the Health of the town is very encouraging, but must not lead to any relaxing of efforts for further improvement. The one most unsatisfactory fact in relation to the health of this town at present is the high mortality from Respiratory Diseases due to the number of fatal cases of Pneumonia which are approximately twice as many per 1,000 of the population as they are in other towns in the North East Coast Area.

Pneumonia is a germ disease and is infectious, and can be spread very much in the same manner as Pulmonary Tubercular Disease, *i.e.*, by healthy persons inhaling the disease germs which are present in the air.

In the body of this report you will find certain suggestions of the Chief Medical Officer of the Ministry of Health relating to Respiratory Diseases and their treatment, and I recommend them to you for your careful consideration.

I have the honour to be,

Ladies and Gentlemen,

Your obedient servant,

Medical Officer of Health.

Colades V. Dringle,

Digitized by the Internet Archive in 2017 with funding from Wellcome Library

ANNUAL REPORT of the Medical Officer of Health for 1926.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

Area (in acres): 4,323 acres, including 173 acres of tidal land.

Population: Census 1921: 131,103. Estimated 1926: 133,600.

Number of Inhabited Houses (1921): 25,541.

Number of Families or Separate Occupiers (1921): 27,891.

Rateable Value 1926: £667,377 15s. 0d. Sum represented by a penny rate: £2,248.

EXTRACTS FROM VITAL STATISTICS OF THE YEAR.

		Male.	Female.		Total.		Birth	rate:	
BIRTHS: Legitimate		1,662	1,569		3,231	25.3	5 per	1,000	
Illegitimate		76	80		156			per ani	num.
DEATHS: 1,759.	Deathra	ate: 13.1	6 per 1,00	0 per	annum				
Number of Deaths of	women	dying of	, or in con	nseque	ence of,	Child	birth	:	
			From Sep	sis					5
			,, oth	er Cai	uses				13
Deaths of Infants un	der one	year of a	ge per 1,0	000 bir	rths:				
			Legitima	te.	Illegi	timate	Э.	Total	
			95		1	86		99	
Deaths from Measles	(all age	es)						4	
,, Whoopi	ing Cou	gh (all ag	es)					54	
,, Diarrho	ea (und	ler 2 year	s of age)		••			49	

VITAL STATISTICS.

Population.—At the Census 1921, the population enumerated was 131,103, consisting of 66,201 males and 64,893 females. In 1925 the Registrar-General estimated the population of the County Borough of Middlesbrough to be 136,200, in 1926 his estimate was 133,600, a reduction of 2,600 based upon an estimate of the births, deaths and migration which occurred between the Census date and June 30 last. It is probable, owing to trade depression, that many have left this town during the past five years, but from local knowledge the Registrar-General's estimate would appear to be in excess of the actual number. For the purpose of estimating the statistics of 1926, the Registrar-General's figure of 133,600 has been used.

Births.—The number of births registered during 1926 was 3,401, the nett births being 3,387, males 1,738, females 1,649, giving a birth rate of 25.35 per 1,000 of the estimated population. Since the big jump in the birth rate in 1920, following the very low rates during the war years 1917-1918-1919, there has been a steady decline in the birth rate of Middlesbrough.

Year.	N	ett Births.	Rate	per 1,000 pop.	Eng	land and Wales.
_		-		_		-
1917		3,062		23.03		17.8
1918		3,327		25.64		17.7
1919		3,531		26.66		18.5
1920		4,431		33.51		25.5
1921		4,218		31.62		22.4
1922		3,774		27.99		20.4
1923		3,728		27.53		19.7
1924		3,589		26.33		18.8
1925		3,501		25.70		18.3
1926		3,387		25.35		17.8

The notified births totalled 3,244, being only 143 below the registered deaths—of these 1,658 were males and 1,586 females.

Illegitimate births numbered 156. Males 76; females 80.

The birth rate varied very considerably in different areas of the town :-

Wards.	Mea	n birth rate 1921	-25.	Rate 1926.
Ayresome		17.48		 16.22
Acklam		20.13		 18.25
Cannon		36.13		 36.10
Cleveland		28.22		 24.69
Exchange		17.90		 16.99
Grove Hill		21.88		 23.50
Linthorpe		21.49		 15.49
Newport		36.34		 31.44
Ormesby		28.45		 25.31
St. Hilda's		34.99		 37.56
Vulcan		25.82		 27.05

the decline in the birth rate is not marked in the Cannon, Newport and St. Hilda's Wards.

Deaths.—The number of deaths registered in Middlesbrough during 1926, was 1915, giving a crude death rate of 14.33 per 1,000 of the estimated population. The nett deaths of persons belonging to the district numbered 1,759, the death rate corrected by the factor for standardizing is 13.16 per 1,000 population.

Taking into account the decrease in the estimated population for 1926, the death rate is very satisfactory and is much nearer the average death rate of the large towns of the country than it has ever been.

The following have been the mean death rates in Middlesbrough during the past 25 years:—

Years.		MIDDLESBROUGH. Mean death rate per 1,000 population	England and Wales Mean death rate per 1,000 population.			
1901-1905		21.01				
1906-1910		19.59				
1911-1915		19.65				
1916-1920		19.45			14.5	
1921-1925		15.16			12.2	
1926		13.16			11.6	

The number of deaths in Public Institutions was 642, of which 315 took place in the Union Infirmary. The Hospitals in Middlesbrough are increasingly made use of by the surrounding districts, this is one of the causes of the large number of transferable deaths.

Percentage of deaths at various age periods to total deaths in Middlesbrough:

		1	2	5	15	25	45	65
Year	Under	& under	& under	& under	& under	& under	& under	years
	1 year	2 yrs.	5 yrs.	15 yrs.	$25~{ m yrs}$	45 yrs.	65 yrs.	& over
1921	26.4	8.0	4.0	3.3	4.7	12.5	20.5	20.4
1922	21.4	8.6	5.2	2.9	4.7	12.6	23.0	21.3
1923	18.1	7.7	6.5	3.7	4.4	12.7	23.3	23.1
1924	21.2	10.6	6.9	3.5	4.3	12.2	21.1	19.9
1925	17.2	6.8	6.4	5.0	4.8	12.4	23.8	23.1
Mean of								
5 years	20.9	8.4	5.8	3.7	4.5	12.5	22.3	21.5
1926	19.1	6.1	4.1	4.1	5.1	11.9	23.0	26.2
County Boroughs England and Wales 1925	12.7	4.0	3.4	3.0	4.3	11.4	25.7	35.2

Death rates per 1,000 estimated population in the various districts of the town:

Ward.	Me	ean of 5 yrs. 1921-	5.	1926
_				-
Ayresome	 	9.56		 11.27
Acklam	 	12.04		 8.50
Cannon	 	17.59		 16.94
Cleveland	 	16.86		 13.01
Exchange	 	12.91		 9.74
Grove Hill	 	9.88		 9.00
Linthorpe	 	10.89		 11.91
Newport	 	19.61		 14.56
Ormesby	 	12.18		 11.10
St. Hildas	 	24.67		 21.26
Vulcan	 	15.14		 14.30

The whole of the scheduled insanitary areas are situated in the St. Hildas Ward.

Deaths from Principal Causes.

	Proportion per 1,000 deaths from all causes.						
Disease.	England & Wales	Middlesbrough		St. Hildas Ward			
	1925	1925	1926	1925	1926		
Measles	11	26	2	30	Nil		
Whooping Cough	13	9	31	13	51		
Influenza	27	19	19	17	11		
Tuberculosis of Respiratory							
System	68	87	81	102	94		
Other forms of Tuberculosis	17	24	18	23	22		
Cancer, Malignant Disease	110	66	95	44	94		
Disease of the Heart	135	82	85	88	76		
Bronchitis	75	85	81	109	102		
Pneumonia (all forms)	78	167	133	170	131		
Premature Birth and diseases							
of Early Infancy	42	62	62	51	- 88		
Violence (all forms)	39	38	29	17	25		
Diarrhoea and Enteritis	18	19	33	30	58		

Of the principal causes of death those from Respiratory Diseases have for many years been the most noticeable in Middlesbrough.

The following Tables compare the mortality from Respiratory Diseases in various districts of the Country with those in the North of England and also compare the rates for Middlesbrough with those of the neighbouring towns.

RESPIRATORY DISEASES.

The Chief Medical Officer of the Ministry of Health in his Report for the year 1925, commenting upon the high mortality from these diseases in the Northern Area of the Country, quotes the Registrar General's Report for 1913. "When comparison is restricted to the same class of area in each case the mortality of the North is in no instance very much less than twice that of the South. No doubt this depends to some extent upon industrial conditions but these can scarcely explain the great difference between the North and the Midlands. Evidently Pneumonia is to a large extent a preventable disease, and the North of England has still much to learn with regard to its prevention." The death rate from Pneumonia in each class of area in 1924 was substantially the same as in 1913.

In the North Western portion of the Northern Area, (i.e., Lancashire and Cheshire), the Pneumonia rate is greater than that for the North generally.

In this Country the seasonal curve of mortality from Respiratory Disease is fairly constant, the maximum of mortality is not in the depth of winter, but in the early spring. This is not the coldest season of the year, but it is a time of great variation. In respect to atmospheric pollution, the Chief Medical Officer says there is a general concordance between exposure to atmospheric contamination and the existence of high mortality from respiratory diseases which is impressive. Commenting on the action to be taken by Local Authorities in dealing with the situation, the Chief Medical Officer says the problem calls for continued and vigilant attention, both of Authorities and those responsible for commercial concerns. There is needed an increase in the knowledge and practice of healthy living. Much can be done by personal prudence, by cleanliness, by exercise, by correct breathing, by domestic ventilation, and by the practice of individual hygiene.

With regard to treatment of Respiratory Disease, it is probable at present that much less is done than could properly be done. The time has come when the whole

question of using Isolation Hospitals to greater advantage calls for the consideration of Local Authorities, and it may well be that fuller regard should be paid to patients suffering from Respiratory Disease.

In Middlesbrough the death rate from Respiratory Diseases has for the past thirty or forty years been high, due entirely to an excessive rate of mortality from Pneumonic disease which is on the average greater than that for the Northern Area District, and twice as great as that for all England. This high mortality from Pneumonia is not exclusive to Middlesbrough alone, as the more immediate neighbouring North East Coast towns also show a corresponding high rate as will be noted in the following tables; this high rate is the more noticeable as mortality from Bronchitis in all the North Eastern Coast towns is not above the average for the Northern Area, and in many instances is equal to that of the Midland Area.

In most instances it is found that high Infantile Mortality corresponds with a high Respiratory death rate and in the years of highest mortality we find an increase of deaths from Measles and Whooping Cough amongst infants, and from Influenza amongst adults.

Aggregate Death Rates per 1,000 of the population from Respiratory Diseases in the County Boroughs of England and Wales.

Death Rates per 1,000 pop.	1921	1922	1923	1924	1925	Mean for Eng. & Wales 1921-25
All Respiratory						
Diseases	1.95	2.30	1.86	2.12	2.60	2.17
Bronchitis	.88	1.07	.85	.97	.90	94
Pneumonia all forms	.91	1.07	.87	1.00	.95	.96

Aggregate Death Rates of the County Boroughs in various

Areas per 1,000 population.

		1921	1922	1923	1924	1925	Mean 1921-5
Jo p	All Respiratory diseases	2.60	2.91	2.57	2.86	2.68	2.73
North of England	Bronchitis	1.15	1.37	1.12	1.25	1.17	1.22
NE	Pneumonia (all forms)	1.30	1.47	1.31	1.46	1.38	1.39
_00	All Respiratory diseases	2.05	2.52	1.98	2.25	2.19	2.14
Midlands	Bronchitis	0.93	1.18	0.93	1.04	1.00	1.02
Mi	Pneumonia (all forms)	0.98	1.18	0.90	1.08	1.06	1.04
70	All Respiratory diseases	1.57	1.97	1.55	1.93	1.65	1.74
South of England	Bronchitis	0.76	0.99	0.73	0.93	0.77	0.84
E S	Pneumonia (all forms)	0.65	0.81	0.65	0.83	0.71	0.73

Middlesbrough-Death Rate per 1,000 population.

	1921	1922	1923	1924	1925	1926
All Respiratory diseases	 3.71	4.15	2.84	5.1	3.70	2.97
Bronchitis	 1.23	1.26	0.80	1.30	1.02	1.06
Pneumonia (all forms)	 2.25	2.83	1.89	3.50	2.40	1.75

The Northern area includes the Counties of Cheshire, Lancashire, Yorkshire, Durham, Northumberland, Cumberland and Westmoreland.

Mean Death Rates per 1,000 population of towns on the North East Coast for the years 1921-25, in order of highest mortality.

			Death	rate from			Death r	ate from
Towns		Tota	l Respi	ratory Diseases	Towns.	Pneu	ımonia	(all forms)
			per 1,00	00 pop.			per 1	,000 pop.
_					_			-
Hartlepool				4.32	Middlesbrough			2.56
Middlesbrou	gh			3.90	Jarrow			2.02
Sunderland				3.27	Stockton			1.89
Jarrow				3.22	Hartlepool			1.89
Stockton				3.04	Gateshead			1.58
Gateshead				2.85	Eston			1.55
West Hartle	pool			2.76	Sunderland			1.53
Hull				2.64	West Hartlepoo	ol		1.52
Newcastle				2.59	Newcastle			1.50
South Shield	s			2.55	Tynemouth			1.37
Eston				2.34	Hull			1.34
Darlington				2.25	Darlington			1.34
Tynemouth				2.17	South Shields			1.17

INFANTILE MORTALITY.

The nett number of deaths under one year of age during 1926 was 337, equal to an infant mortality rate of 99 per 1,000 births

The infant mortality rates during the following periods were :-

1901-5	 	 	181
1906-10	 	 	160
1911-15	 	 	145
1916-20	 	 	138
1921-25	 	 	109

Only twice before has the annual infantile mortality rate been under 100 per 1,000 births.

Neo Natal Deaths.

Age distribution of Infantile Mortality. Deaths per 1,000 Births.

Age		Midd	Northern Area County Bor- oughs	England and Wales			
	1905-9	1910-14	1915-19	1920-5	1926	1925	1925
Under 4 weeks	 47	46	46	42	39	36	32
4 weeks to 3 months	 30	25	23	15	17	16	13
3 to 6 months	 33	22	22	15	12	15	11
6 to 9 months	 26	23	23	20	16	} 27	10
9 to 12 months	 26	24	23	17	13	} "	19

The steady improvement in the Infant Mortality in Middlesbrough is being maintained.

Infantile Mortality from various causes. Deaths per 1,000 Births.

Disease			Middlesh	County Boroughs in Northern Area		
				1920-25	1926	1925
Common Infectious Dise	ases			5.5	9.1	7.5
Premature Births				20.9	22.7	19.6
Wasting Diseases				34.1	23.0	33.5
Diarrhoea and Enteritis				13.7	11.8	11.4
*Tubercular Diseases				1.4	1.7	1.4
Respiratory Diseases				32.4	24.2	23.8
Convulsions				6.5	4.4	5.3

16
Infantile Mortality Rates in the various Wards.

D	istric	t a			Deaths per 1,000 Births				
Д,	istric	ts			1920-1925 (Mean)	1926			
Ayresome					97	68			
Acklam					86	57			
Cannon					118	114			
Cleveland					108	95			
Exchange					97	120			
Grove Hill					73	60			
Linthorpe					71.	64			
Newport					126	121			
Ormesby					125	67			
St. Hildas					148	142			
Vulcan					121	133			
aths of Legit	imate	Infant	s	T.,	102	95			
aths of Illegi	timat	e Infan	ts		138	186			

General Provision of Health Services for the Area.

HOSPITALS PROVIDED BY THE LOCAL AUTHORITY.

- A. (1) Fever: West Lane.—There are 200 beds for the usual Notifiable Diseases.
 - (2) SMALLPOX: Hemlington. There are 100 beds.
- B. (1) Tuberculosis: West Lane. 28 beds and 3 huts.
 Broomlands. 6 beds are retained for Surgical Tubercular cases.
 - (2) Maternity: Municipal Maternity Hospital, Park Road North. There are 21 beds for Maternity cases.
 - (3) CHILDREN'S HOSPITAL: Children's Municipal Hospital, Park Road North.

 There are 15 beds for Infants under 5 years of age.
 - (4) Other: Children's Cripples Home. The R. C. Davison Holiday Home at Danby, supported by voluntary contributions, to which Cripple Children are sent. About 100 children are received for 3 weeks each in the summer months.
 - Institutional Provision for Unmarried Mothers, &c.

 There is provision for these at the Holgate (Guardians) Hospital, and at the Holy Cross Refuge. The latter is a Church of England Institution and receives a grant from the Local Authority. It provides for unmarried mothers.
 - Homeless Children: Guardians Children's Homes, Nazareth House (R.C.) 206, Holy Rood Orphanage (C.E.) 16, and a branch of Dr. Barnardo's Homes (Undenom.) 24.
 - CLEANSING STATION: 52, Bridge Street W. This is a small Cleansing Station fitted with a steam disinfector and baths for dealing with verminous persons.

Ambulance Facilities:

- (1) For infectious cases there are 3 motor ambulances.
- (2) For non-infectious cases and accidents there are two motor ambulances provided by the Town Council.

CLINICS AND TREATMENT CENTRES.

(a) Maternity and Child Welfare Centres (Consultation and Treatment):-

NAME OF CENTRE.		HELD AT	ORDINARY CHILD WELFARE MEETINGS.					
(1)	East Centre	5, The Newlands	Mondays		2	p.m.		
(2)	Cannon Centre	Settlement Hall Church Street	Mondays Tuesdays					
(3)	American Red Cross Centre	Market Place	Wednesday	S	2	p.m.		
(4)	Settlement Centre	Settlement House, Church Street	Thursdays		2	p.m.		
(5)	North Ormesby Centre	Mount St. Mary's, North Ormesby	Fridays		2	p.m.		
(6)	Grove Hill Centre	The Institute	Tuesdays	10	a.n	١.		

Each of the above Centres has a special Ante Natal Clinic once each month.

At all the Centres "Toddlers" from 1 to 5 years are received at each Session and are examined and supervised.

These Centres have Voluntary Helpers working under the direction of the Medical Officer for Maternity and Child Welfare and the Health Visitors.

(See Report on Maternity and Child Welfare).

(b) Day Nurseries : Nil.

(c) School Clinic: -

This is held at 52, Grange Road W., daily from 9 a.m. to 12 noon, for consultations and treatment of minor ailments, and every Saturday morning for refractions.

(d) Dental Clinic: -

Held at 52, Grange Road W., daily, and is attended by a whole-time dentist.

(e) Tuberculosis Dispensary :-

79, Grange Road W., Open daily from 9 a.m. to 5 p.m. and attended by the Tuberculosis Medical Officer, who has a staff of three nurses and 2 clerks.

(See Tuberculosis Medical Officer's Report).

(f) Venereal Diseases Clinic:

105, Grange Road W. Open on Mondays and Fridays at 8-30 a.m. and 5-30 p.m. for Males, and on Wednesdays at 5-30 p.m. for Females; also every week-day morning at 8-30 and every weekday night except (Wednesdays and Saturdays) at 5-30 for irrigations for males. Treatment is carried out by a part-time Medical Officer, one male and one female attendant and two clerks.

(See the Venereal Diseases Officer's Report).

PROFESSIONAL NURSING IN THE HOME.

(a) General :-

This is provided by the Middlesbrough and District Nursing Association. The Association is supported by voluntary contributions, but receives grants from the Local Authority for various services, e.g., home nursing of Tuberculosis, Puerperal Fever, Pneumonia, Ophthalmia Neonatorum, Expectant and Nursing Mothers, and Infants under 5 years of age, if required. These cases are referred to the Association by the Departmental Medical Officers of the Local Authority.

(b) Infectious Diseases :-

One wholetime Nurse is employed by the Local Authority to visit and, when necessary, nurse cases of Measles. Temporary Nurses are engaged as required.

Midwives :-

There are 40 Midwives practising in the Borough, 36 of whom are trained and 4 untrained.

LABORATORY WORK.

The Bacteriological and Pathological Laboratory work is sent to the Clinical Research Association.

The Chemical Analysis is done by Messrs. Scholes and Jackson, of Middlesbrough.

BACTERIOLOGICAL EXAMINATIONS-1926.

Specimen.		Positive	Negative	Total
_				
Diphtheria	 	47	161	208
Enteric Fever	 	5	4	9
Cerebospinal Fever	 		1	1
Rats for (B. Pestis)	 		15	15
Polypus (for Cancer)	 		1	1
Hair (for Ringworm)	 		1	1
Milk (for B. Coli.)	 	49	88	137
do. (for B.T.B.)	 		72	72

SERUMS, VACCINES, ETC., ISSUED.

Wasserman

Salvarsan Substitutes supplied	l to	General	Prac	titioners, &c.:	Tubes	178
				(2.000 units.	do.	108
Anti-Diphtheritic Serum				3,000 ,,	do.	3
				4,000 ,,	do.	22
				8,000 ,,	do.	1
Outfits Supplied for diagnosis:	_					
Widal				7		
Diphther	ia			174		

ADOPTIVE AND LOCAL ACTS AND BYELAWS.

There have been no additions or alterations to the list given in last year's Report.

25

SANITARY CIRCUMSTANCES OF THE AREA.

Water :-

Report by the Engineer (G. R. Collinson, B.Sc.) to the Tees Valley Water Board.

In July, 1926, a large number of bacteria appeared in the water drawn from a Middlesbrough tap and the Water Board immediately investigated the matter and traced the pollution to the presence of an unusually large number of sea-gulls at Long Newton Reservoir.

It was found that the gulls were making a favourite resting place of the flat topped dividing wall between the two halves of the reservoir and also that the gulls were becoming accustomed to operations of the reservoir attendants who fired blank cartridges to scare the gulls.

To combat the difficulty, handrails were fixed by the Water Board across the dividing wall, with the result that the access and egress of the gulls has been almost entirely prevented, and the wall has been made safe for the reservoir attendants to fire at the gulls at a sufficiently close range at any part of the reservoir.

The reservoir has been emptied and thoroughly cleaned out and the appended Report shews that the trouble has been overcome.

THE COUNTIES PUBLIC HEALTH LABORATORIES,

91, Queen Victoria Street, London, E.C. 4.

John C. Thresh, M.D., D. Sc., etc.

John F. Beale, B.A., M.R.C.S., D.P.H., etc.

April 11th, 1927.

Report on the Bacteriological Examination of a sample of Water received on April 6th, 1927, from the Tees Valley Water Board.

Number of Organisms per cubic centimetre capable of growing upon nutrient gelatine at 20° C in 3 days	40
Number of organisms per cubic centimetre capable of	
growing upon agar at 37° C in 1 day	3
Smallest quantity of water giving acid and gas in	
bile-salt glucose broth	50 c. c.
Smallest quantity of water giving gas in bile-salt	
lactose broth	100 c. c.
Smallest quantity of water containing the Bacillus	
Coli Communis	Present in 100 c.c.
	Absent in 50 c.c.
Smallest quantity of water giving the reaction of the	
Bacillus Enteritidis Sporogenes	Absent in 100 c.c.
This water is of good quality bacteriologically.	

(Signed) JOHN F. BEALE, for Drs. Thresh, Beale and Suckling.

Rivers and Streams :-

The River Tees Fishery Board are negotiating with the owners of various works situated on the banks of the river in respect to trade pollution and action is being taken to deal with such pollution. There is nothing further to add to last year's Report.

Sewers and Drainage :-

Report by the Borough Engineer and Surveyor (S. E. BURGESS, M.I.C.E.).

The works of drainage completed during the year 1926, were as follows:-

- (1) Main Sewers in Newport area, i.e., along Cannon Street, Rockliffe Street, Newport Road, Dale Street, Brentnall Street, Grange Road, etc., were constructed and new sewers of various diameters from 18in. up to 5ft. were laid—a total length of approx. 2,600 L. yds. By this scheme flooding which did occur in that area is now obviated.
- (2). North Ormesby Main Sewer.—A length of 364 L.yds. 5ft. diam. Sewer has been laid along Cargo Fleet Lane and South Bank Road. This sewer will eventually be extended to further areas as development takes place. North Ormesby now has good main sewers of 5ft. diameter.

Report of the Chief Sanitary Inspector for the Year 1926.

SANITARY INSPECTION OF THE AREA.

DESCRIPTION OF THE WORK CARRIED OUT.

Number of Inspections made							8,430
Number of Re-inspections made							16,514
Number of Food Inspections							6,523
Number of Notices served and letter	s sent						7,426
Drainage :—							
Tests applied to New Drains							201
							156
							400
Cleansed and Repaired							
Waste Pipes of Sinks Trapped o			• •		* *		81
							16
Grates provided for Gully Traps							25
Drains Cleared with Cooper's Va			(free o	of cost t	o Owi	ners)	2,850
Defective Gully Covers							27
Water Closets :-							
Provided with a sufficient suppl	ly of W	ater					54
Basins Re-newed							26
Cisterns Repaired or Re-newed							196
Foul Watercloset Drains							142
Defective Closet Doors							201
Dilapidated Closet Seats							15
Defective Closet Roofs							150
Defective Joint between Flushp	ipe and	Wate	ercloset	Basin			13
Houses :-							
Cleansed or Limewashed							230
Roofs, etc., Repaired							387
Waterspouts Fixed or Repaired							1,041
New Sinks Fixed							28
Accumulation of Manure or Ref	use ren	noved					15

Nuisances arising from t	the kee	ping of	Anima	ls, Por	ultry, e	te.		4
Pavement of Yards Rep								120
New Floors Laid or Rep	paired							125
Provided with a sufficie		ply of						36
Dilapidated Ashpans								35
Dilapidated Dustbins								2,670
Dilapidated Panhole Do	ors							3
Defective Ceilings								83
W								38
Defective Sashcords and								169
Defective Fireplaces								16
Defective Fireranges								70
Defective Walls								268
Defective Ovens								16
Dilapidated Setpots								82
Dilapidated Setpot Fire								27
Defective Handrails	Dais							17
Dirty Premises								5
Defective Flues								26
Defective Yard Doors								165
Dilapidated Back Passa								97
	-							
Miscellaneous Works no			in so To		1000			580
Number of Housing Car								121
All the above Sanitary	Defect	s were	satisfa	ctorily	remed	ied dur	ing the	vear.

All the above Sanitary Defects were satisfactorily remedied during the year.

The attention of the Borough Engineer has been called to the following defects:—

Apparently dangerous	s structures	 	 130
Miscellaneous		 	 15

SANITARY CONVENIENCES.

In the Annual Report for the year 1925, a Table was inserted dealing with the Conveniences in the Borough for the years 1910 to 1925, inclusive. No change has taken place.

The only Privy Pan Closets that now exist within the Borough are in the Nile Street and Dacre Street Areas, and number 123. With the demolition of the Dacre Street Area these Pan Closets will decrease accordingly.

REFUSE COLLECTION AND DISPOSAL.

A regular weekly collection is made from the 28,550 houses and shops within the Borough. The collection is made by 19 horse vehicles and 7 motor vehicles (consisting of 6 Ford Tonners and 1 S. D. Freighter), and these were employed for the greater part of 1926, when two further S. D. Freighters were ordered and commenced work in December. This meant a re-organisation of collection so that the Freighters worked on a triangular system. A reduction of four horses was made, resulting in a speeding up in collection with every success.

The number of motor vehicles is now brought to 9, but owing to the unique character of the back streets which serve the houses within the Borough, I cannot at the moment recommend further motor vehicles to replace the horse vehicles on short leads.

There are 7,000 houses with 3-feet back streets, 11,300 houses with 9-feet back streets, 7,000 with 12-feet back streets, and 3,250 houses with no back streets at all, and are what I term "carry-outs." You will observe the difficulties which are experienced in collection, and from the houses served with 3-feet back streets and the "carry-outs," the refuse has to be carried 40 to 50 yards before the receptacles are emptied and returned.

During the year, 31,196 loads of Refuse were collected; 22,417 loads representing 26,420 tons collected by horse vehicles, and 8,779 loads representing 11,735 tons collected by motor vehicles. The motors are worked in those outlying districts where the time taken in disposing of the load is greater than the time taken by the loaders in loading the vehicle following up.

38,155 tons represent 279.72 tons per 1,000 population per annum. This figure cannot be considered high, but one must not loose sight of the fact that a considerable amount of waste which finds its way into the dustbins could be obviated if the housewife had more consideration for her coal bills, by not wasting so much large cinder. Unfortunately each town has this waste of good material to contend with, which all means added costs to the collection of household Refuse.

70,541 bags of paper and light refuse matter were collected free of charge from the shops within the Borough. This is disposed of chiefly at the Swimming Baths, and undoubtedly is a cheap fuel whereby the whole of the steam raising plant is fed.

Household refuse was disposed of by barging to sea and tips. Two hoppers were employed for the disposal of refuse at sea; 82 trips were made and 19,567 tons were disposed of. 17,583 tons of refuse were disposed of at the Tips, assisting in re-claiming

the old brick ponds at Linthorpe, which I am now pleased to say are used as gardens and Tennis Courts. 1,005 tons were sold to Farmers as manure.

Barging to sea of household refuse is an excellent method of disposal, but without wishing to qualify as a prophet, I do think that in the immediate future our methods will be considered wasteful, as other means more profitable to the Ratepayer will be evolved.

From the latest available figures supplied by the Borough Accountant, the costs are as follows:—

Cost of Collection					 	£14,729	
Cost of Disposal						£4,768	
							£19,497
Cost per ton—Colle	ction				 	$8/3\frac{1}{2}$	
Cost per ton—Disp	osal				 	2/8	
Total Cost per ton	for Coll	lection	and D	isposal	 	$10/11\frac{1}{2}$	

COLLECTION AND DISPOSAL OF ORGANIC REFUSE.

The Organic Plant has been in full work during the year, although the Strike, which extended over a period of 7 months, had to be faced. Large quantities of Coke were purchased before the Strike commenced which kept the Plant at work. The undermentioned were dealt with:—

						Stones.
Diseased Meat					 	6,986
Organic Waste fro	m Slaug	ghterho	uses		 	16,432
Fish Offal					 	32,848
Dead Dogs and Ca	ats				 	1,078
following manufa	etured l	Produc	te were	sold .		

The following manufactured Products were sold:—

			Tons.		£	s.	d.	
Fish Meal		 	$36\frac{1}{2}$	 	554	8	9	
Blood Meal		 	5	 	68	17	0	
Meat Meal		 	7	 	111	4	3	
Fertiliser		 	15	 	136	16	0	
Tallow-Wh	ite	 	$5\frac{1}{5}$	 	185	14	11	
Gre	en	 	5	 	119	13	1	

Total Income £1,176 14 0

I am pleased to again report that the Plant has been very successful and a profit of approximately £400 was realised on the year's working. During the year a larger machine was installed at a cost of £140, to replace a smaller machine. By this means the raw material is got into the oven quicker instead of lying about the Store.

SMOKE ABATEMENT.

In consequence of the industrial unrest which covered a greater part of the year when the whole of the works were laid idle, no smoke observations were taken; but the two chimneys at Holgate Poor Law Institution—which had been a continual source of trouble owing to the emission of black smoke—received attention. Two new boilers were installed with mechanical stokers, and one chimney was demolished. This meant that the nuisance from black smoke in this district was removed.

A considerable amount of work has been done at the numerous works within the Borough by the scrapping of obsolute steam plant and substituting electricity as the motive power. In this direction, during the past six post War Years, 56 boilers have been taken out and electric power used in their stead.

This is undoubtedly a step in the right direction in eliminating smoke from the atmosphere, which is not only detrimental to the health of the inhabitants, but also takes toll on the buildings—particularly stonework. Much has been said that smoke is a sign of prosperity, but we must not lose sight of the fact that a considerable amount of this smoke should never find its way into the atmosphere; it is a waste from beginning to end, and often due to gross carelessness and want of a little foresight.

The household chimney is a bigger sinner than one realises, as not more than 50% of the volatiles are consumed, and even then not so thoroughly as in the case of the industrial chimney where 90% are wholly consumed. In consequence, the contamination in the atmosphere is considerably greater from this source, so we must bear in mind and not lose sight of this—which is a large factor when condemning the industrial chimney.

SHOPS ACT.

During the year the shops within the Borough have been kept under close observation. Several letters of warning for contravention of the Closing Hours have been sent out, but on the whole all have been satisfactory.

RATS AND MICE (DESTRUCTION) ACT, 1919.

During the year 55 complaints have been received of Rats infesting houses, slops, or warehouses within the Borough. All complaints were promptly attended to, and where possible, the Rats were traced to their sources and destroyed. Every assistance and advice has been given to householders and others to clear their premises of the pest.

The 5 Official Rat Clubs have also continued their operations against these pests; 292 places were visited and 2,813 rats were killed. I consider that this weekly destruction of rats is more efficacious than holding up your efforts until the recognised Rat Week, as during the year large numbers of rats are bred which would not have been in existence at the Rat Week if the methods employed in Middlesbrough were general throughout the Country.

SANITARY CONDITIONS OF THEATRES AND MUSIC HALLS.

In accordance with the requirements of the Ministry of Health (Circular No. 120), an inspection of the Sanitary conditions of the Theatres, Music Halls and places of public entertainment, has been made, and found satisfactory.

HOUSES LET IN LODGINGS.

Number of Keepers					 75
Number of Houses					 96
Number of Rooms for S	leeping				 463
Number of separate Fan	nilies				 192
Number of Inspections					 251
Number of Notices to L.	imewas	h			 146
Number of Applications	to Reg	gister			 13
Number of letters re Cle			airs, et	c.	 87

COMMON LODGING HOUSES.

Number of Keepers				 	11
Number of Houses	*			 	13
Number of Inspections				 	219
Number of Lodgers acco	mmod	lated n	ightly	 	689
Number of Notices to Li				 	28
Number Closed or Disco				 	3

The Bye-Laws have been carefully observed, although it has been necessary to call the attention of the Registered Keepers to several minor contraventions.

SLAUGHTERHOUSES.

Decemb	er, 1920	Ja	nuar	y, 1926	3		December, 1926			
Registered.	Licensed.	Regist	ered.	Licen	sed.	Re	gistered.	Licensed		
39	3	37			2		35	2		
Numb	er of Notificati	ons of Ch	ange	of Occ	upier			2		
Numb	er of Inspection	ns					!	5,567		
	per of Notices to		sh					47		
Numb	er of Notices to	provide	a Rei	fuse re	ceptacl	е		5		
	c Slaughterhous	-						1		
	rs re Cleanliness				ighterh			8		
	per on Register per of Fried Fis	h Shops					5	153 130		
Numb	er of Tripe Boi	lers					.7	10		
Numb	per of Tallow M	elters						2		
Numb	oer of Tallow Ch	nandlers						1		
Numb	er of Gut Scrap	pers						3		
Numb	er of Fat Rend	erers						2		
Numb	per of Bone Stea	amers						1		
Numb	er of Glue Mak	ers						1		
Numb	per of Fellmong	ers						1		
Numb	er of Lubricant	Makers						2		
Numb	per of Inspection	ns						231		
Numb	per of Notices to	Limewa	sh					39		
Numb	oer Closed or Di	scontinue	ed					2		
Letter	rs of Warning fo	or minor	contra	aventic	ons of 1	Bye-La	ws	67		

FRIED FISH SHOPS.

These businesses came within the provision of Section 112 of the Public Health Act, 1875, as amended by Section 51 of the Amendment Act, of 1907, as an Offensive Trade, in July, 1922. The whole of the Fried Fish Shops within the Borough have now been brought up to a good standard; new ranges have been provided which are more satisfactory from an effluvia nuisance standpoint, and the whole generally are carried on in a most satisfactory manner.

ICE CREAM DEALERS.

The Middlesbrough Corporation Act of 1910, Sections 38 and 39, give the Corporation power to govern the manufacture of Ice Cream.

There are 58 persons on the Register manufacturing Ice Cream and 81 persons are selling Ice Cream.

All premises where Ice Cream is manufactured or stored have been visited regularly and found satisfactory.

Number manufacturing Ice Cream Jan	nuary	, 1926	 	52
Number discontinued during year			 	12
Number registered during year			 	18
Number on Register December 31st, 1	926		 	58

COW SHEDS.

Number of Cowsheds within the Boro	ugh	 	 4
Number discontinued since January,	1926	 	 Nil
Number of Registered Cowkeepers		 	 4
Number of Cows kept in Town		 	 37
Number of Inspections		 	 12
Number of Notices to Limewash		 	 7

DAIRIES AND MILKSHOPS.

Number of Inspections					 229
Number on Register					 146
Number discontinued since		y, 1926			 6
Number Registered since J.	anuary,	1926			 12
Number of Notices requesti			regis	ter	 8

Letters of warning for minor contraventions of the Bye-Laws were sent to several Milk Purveyors, but the conduct of the whole generally was satisfactory, and the multifarious Orders have been carried out.

ADMINISTRATION OF THE FACTORY AND WORKSHOPS ACT, 1901.

Workshop Bake			 53	Tinsmiths		* *	 6
Factory Bakeho	uses		 24	Watch Repairing			 9
Boot and Shoe	Repairi	ng	 60	Cabinet Making			 14
Dressmaking			 27	Laundries			 9
Millinery			 14	Cycle Making and	Repair	ing	 20
Tailoring			 44	Workplaces			 18
Joinery			 47	Blacksmiths -			 11
Plumbing			 10	Miscellaneous			 55
Saddlery			 3				
Saddlery			 3				

Full details of the Workshops and Inspections have been placed on record in accordance with the Act.

The following is the summary of the work carried out during the year :-

	Re-occupation of Workshop	s			 13
	Unsuitable Sanitary Accom	moda	ation		 6
	Dirty Workshops				 8
Factories	:				
	Number Inspected				 145
	Number of Inspections				496
Workshop	s and Domestic Workshops :-				
	Number inspected				 424
	Number of Inspections				2,073
Notices S	erved under the Public Health	Act	s :		
	To Cleanse and Limewash				 21
	To provide means of Ventil	ation	, Sec. V	II.	 Nil
	Re Wet Floors, Sec. VIII.				 Nil
	Sanitary Defects				 22
	To provide Refuse Receptae	cle			 7
	Overcrowding				 Nil

Bakehouse	s, 77 in number, including 24 Fac	tory B	akehou	uses :-	_		
	Number Inspected				77		
	Number of Inspections				263		
	Notices Served to Limewash				1		
Factory Ba	akehouses :-						
	Number of Inspections				96		
	Unsuitable Premises				Nil		
Sanitary C	onveniences in Workshops :-						
	Closets Insufficient, Unsuitable or	Defec	tive		19		
34 I	rk (Section 107 to 115):— Lists of Out-workers (or Home work 34 for the second half.	ers) we	ere rece	eived i	n the fir	st half	f of the
	Number of Lists of Outworkers re	eceive	1		68		
	Number of Employers				34		
	Number of Outworkers Premises				89		
Workplaces	s (Restaurant Kitchens, etc.) :						
	Number on Register				41		
	Number Inspected				41		
	37 3 67				102		
	Housin	IG.					
Number of	New Houses erected during the yea	- r 1926					
	Total (including numbers given sepa			b)		607	
	With State Assistance under the Ho					551	
	1. By the Local Authority				343	001	
	2. By other Bodies or Persons				208		
1. Unfit D	welling Houses.						
	tion :—						
	Total number of dwelling houses in	nspect	ed for	housin	g defec	ts	
	(under Public Health or Housing Ac						8,430
	Number of dwelling houses which						
	under the Housing (Inspection of D						
	Housing Consolidated Regulations,						104
	Number of dwelling houses found t						
	or injurious to health as to be unf	it for	human	habit	ation		
	(Scheduled Areas)						357
	Number of dwelling houses (exclusi						
	the preceding sub-head) found not to						
	fit for human habitation						6,998

2. Remedy	y of Defects without Service of Formal Notices :-	
	Number of defective dwelling houses rendered fit in consequence	
	of informal action by the Local Authority or their Officers	6,998
3. Action	under Statutory Powers :-	
A.—P	roceedings under Section 3 of the Housing Act, 1925 :-	
(1)	Number of dwelling houses in respect of which Notices were	
	served requiring repairs	Nil
(2)	Number of dwelling houses which were rendered fit after service	
	of Formal Notices :—	
	(a) By Owners	Nil
	(b) By Local Authority in default of Owners	Nil
(3)	Number of dwelling houses in respect of which Closing Orders	
	became operative in pursuance of declarations by Owners of	
	intention to close	Nil
B.—Pro	ceedings under Public Health Acts :-	
(1)	Number of dwelling houses in respect of which Notices were served	
	requiring defects to be remedied	1,432
(2)	Number of dwelling houses in which defects were remedied after	
	service of Formal Notices :	
	(a) By Owners	1,432
	(b) By Local Authority in default of Owners	Nil
CPr	oceedings under Sections 11, 14, and 15 of the Housing Act, 1925 :-	
	Number of representations made with a view to the making of	
1-7	Closing Orders	Nil
(2)	Number of dwelling houses in respect of which Closing Orders	
(-)	were made	Nil
(3)	Number of dwelling houses in respect of which Closing Orders	
(0)	were determined, the dwelling houses having been rendered fit	Nil
(4)	Number of dwelling houses in respect of which Demolition Orders	
(-)	were made	Nil
(5)	Number of dwelling houses demolished in pursuance of	
(0)	Demolition Orders	25

Housing Schemes (Scheduled Areas) :-

Dacre Street Area, 25 of the 59 houses have been demolished and 14 more are vacant and in hand for demolition.

Nile Street Area.—No further progress has been made with this area. 27 houses have been erected at Marton Grove, and 30 at Acklam Garden Colony to replace demolished houses.

INSPECTION AND SUPERVISION OF FOOD.

MILK-BACTERIOLOGICAL EXAMINATION OF MILK.

During the year, 137 samples were procured and submitted for Bacteriological Examination, as compared with 156 samples in 1925, and 140 samples in 1924.

Upon Examination, 22 or 16% were found to contain Coliform Bacilli upon first test; and 27 or 19% were found to contain Coliform Bacilli upon second and third tests.

72 samples were examined for Tubercle Bacilli, all being returned "Negative."

Letters of warning, together with suggestions on "How to Produce Clean Milk," are sent to all Farmers whose Milk is dirty. Letters notifying Farmers who are producing Clean Milk are also sent.

Year	Number of Samples	contain	er of Samples ing Tubercular iform Bacilli	Number of Cases reported to Medical Officer of Health	Number of Supplies	Out-standing
rear	taken	First Test	Second and Third Tests	of District	Withdrawn	Out-s
1924	140	77	9	4		Nil
1925	156	28	Nil	Nil	2	1
1926	137	22	27	10	Nil	3

REPORT OF ADMINISTRATION IN CONNECTION WITH THE PUBLIC HEALTH (MILK AND CREAM) REGULATIONS OF 1912, DURING THE YEAR ENDED, DECEMBER 31st, 1926.

1. Milk and Cream Not Sold as Preserved Cream :-

Milk Cream

	Number of Samples examined for the presence of preservative.		Number in which Preservative was reported to be present and percentage of preservative found in each sample.		
			98		Nil
			2		Nil

Cream Sold as Preserved Cream :-

(a) Instances in which samples have been submitted for analysis to ascertain if the statement on the label as to preservative was correct:—

(1)	Correct Statements made	 	 7
(2)	Statements Incorrect	 	 2
			0

(b) Determinations made of Milk Fat in Cream sold as Preserved Cream :—

(1)	Above 35%	 	 		9
(8)	Below 35%	 	 		Nil
					_
					-

Preservatives :-

All Samples of Milk and Butter and any Article likely to contain Preservatives are examined for the same.

FOOD AND DRUGS ACT.

SAMPLES TAKEN FOR ANALYSIS.

Description of Sample			Number Genuine		Results of Analysis	Number of official Samples	Number unofficial Samples
N. ACH			00				
New Milk	+ +		82	15		69	28
Separated Milk		1 -	. 1			1	
Whisky		11	8	3	3—36.01°; 39.15° and 35.13° under proof	11	
Sausage		2	2		2—Meat, 47% and 25% Cereal Filler, 35% and 48%. Additional		2
					water 18% and 27%		
Apples		57	• 7	50	50—Arsenic varying from 1/100th to 1/11th of a grain per pound	3	54
Ground Almonds		2	2				2
Disinfectant		1	1				1
Fresh Butter		11	10	1	1—contained 16.39% water	4	7
Prawns		3	1	2	2—1.30 and 1.73 grains Boric Acid per pound		3
Eggs : Chocolated		3	2	1	1—0.35% Oxide of Iron and 1/100th of a grain of Arsenic per pound		3
Sugared		1	1		0		1

Description of				Number	Results of Analysis	Number of official	Number unofficial
Sample		taken	Genuine	Adulter'd		Samples	Samples
Bread Rusk		4	4			-	_
White Pepper		2	2				4
Margarine		4	2	2	2—27.30 and 38.50 grains Boric Acid per pound	1	3
Borax		2	2				2
Ground Ginger		3	3				3
Cheese		6	5	1	1—Milk Fat 18.43%* · Caseine etc. 35.73% Ash 5.10% Water 40.74% •equal to fat in dry Cheese 31.10%	100.00%	6
Preserved Cream	***	9	7	2	2—contained 0.47 grains Borie Acid per pound	2	7
Fresh Cream		2	2				2
Potted Meat		1	1		****		1
Ice Cream		6	6				6
Condensed Milk		3	3				3
Banana Cream		1	1			1.1	1
Tinned Peas		1	1				1
Coffee	٠.	1	1			1	
Lard		1	1				1
Sago		1	1				1
Tea		1	1				1
Oatmeal		1	1				1
Pot Barley		1	1				1
Cream of Tartar		1	1				1
Ground Rice		1	1				1
Salmon Roll	• •	1	1		1—3.92 grains Boric Acid per pound	1	**
Shrimp and Tomato	Roll	1	1		1—4.34 grains Borie Acid per pound	1	**
Soda		2	2		These samples did not contain any oxidising or preservative agent	**	2
Camphorated Oil	0.55	. 4	3	1	Camphor 16.18% Olive Oil 83.82%	4	
Carbolic Soap		9	9				9
Mince Meat		1	1			1	• •
		259	181	78		101	158

There is no Legal Standard as to the quantity of Milk Fats Cheese should contain, but as Cheshire Cheese has often been substituted by the inferior imported product, the Cheshire Cheese Federation have fixed a standard of 45% of Fats in the Dry Matter, and this is the standard of Cheshire Cheese within the Borough.

ADMINISTRATIVE ACTION REGARDING SAMPLES NOT REPORTED "GENUINE."

No.	
38.	Fresh
44.	Milk (
51.	Milk
55.	Milk
	Milk :
70.	Milk

Nature of Sample and Result of Analysis.

Remarks.

- 38. Fresh Butter containing 16.39% water
- Official Sample. Vendor Cautioned.
- 44. Milk 5% deficient in Fats
- Official Sample. Vendor Cautioned.
- Milk 4% deficient in Fats with 12.2% added water
- Unofficial Sample followed by Official Sample (No. 53) declared Genuine. Vendor Cautioned.
- 55. Milk 51.6% deficient in Fats
- Official Sample. Summary Proceedings taken. Fined £2 and costs.
- 65. Milk 15% deficient in Fats
- Official Sample taken in "course of delivery" followed by 68 which was an "appeal to cow" Sample. This deficiency was due to the feeding, so advised Farmer to alter feeding by giving food with a higher Fatty content. In this case Soya Bean was being used extensively, and this has only a Fatty content of 2 to 3% and rich in Albuminoids,

say 50 to 55%. Samples taken one week after change in feeding were "Genuine."

68. Milk 23.3% deficient in Fats

- 70. Milk 6.7% deficient in Fats
- 73. Milk 6.6 % deficient in Fats
- 74. Milk declared Genuine
- 78. Milk 5% deficient in Fats
- 79. Milk 5% deficient in Fats
- 84. Milk declared Genuine
- These Samples were all from the one Farmer and Afternoons Milk. No. 78 I took Officially and followed up with an "appeal to cow" sample No. 84; the deficiency being so small and the fact of it being Afternoon Milk that was deficient in Fats, as the "appeal to cow" Sample was declared Genuine, indicated that cream was being removed. Told Farmer to lock the Afternoons Milk away from the servants. This was done, with good results.

No. Result of Analysis.

82. Chocolated Eggs containing 0.35% Oxide of Iron and 0.01% Grains Arsenic

130 .Milk 70% deficient in Fats131. Milk 6.6% deficient in Fats

132. Milk 20% deficient in Fats

133. Milk 24% deficient in Fats

151. Milk 15% deficient in Fats

152. Milk 3.3% deficient in Fats

156. Milk declared Genuine

153. Preserved Cream containing 0.47 % Boric Acid

155. Preserved Cream containing 0.47% Boric Acid

227. Camphorated Oil deficient 3.82% Camphor by weight

250. Whisky containing 1.55% added water

252. Whisky containing 6.39% added water

256. Whisky containing 0.20% added water.

Remarks

Oxide of Iron is often used as a colouring for for such sweetmeats, and Arseneous Oxide is present. In this case the whole of the stocks were immediately withdrawn from sale and wholesale distributor cautioned.

These Samples were procured during June. May and June are admitted to be the worst months in the year for Milk, as the cows are just turned out into the pastures from the Winter quarters and the luscious new green grasses are greedily devoured. The Farmer was advised to reject 2 to 3 pints of the first drawn Milk. I am pleased to report that in all such cases they readily consented, and I do not think that a successful result would be obtained in taking Proceedings, as the Farmer has a good defence in pleading that the Milk is as it came from the cow.

Unofficial Sample followed by Official Sample declared to be Genuine. Vendor cautioned.

Unofficial Sample followed by Official Sample declared to be Genuine. Vendor cautioned.

Official Sample. Summary Proceedings taken. Fined £2 and costs.

Summary Proceedings. Fined 20/- and costs.

Summary Proceedings. Fined 40% and costs.

Vendor cautioned.

Informal or Test Samples :-

It will be seen from the Tabular Statement that 103 Informal and 156 Formal Samples were taken during the Year, all of which were submitted to the Public Analysts for Analysis.

Informal Samples are in all cases purchased by an agent, and if they are found to be adulterated, Formal Samples are obtained, with a view to Summary Proceedings being taken. It has been found that the obtaining of Informal Samples is, on the whole, a very convenient method of estimating whether vendors are supplying genuine articles and causes no inconvenience to shopkeepers, as when the samples are obtained formally, the latter involves explanation as to why the sample has been purchased, the subsequent division of the sample into three parts and the sealing up of the same, which all take up a considerable time.

Below is a list of the Foodstuffs that were found to be unsound and unfit for human consumption. All were surrendered and destroyed.

			hole	Weight Stones						Weight Stones
Beasts			 56	2,147	Pigeons					5
Sheep			 12	58	Sweet ar	nd Ch	ocolates	12	pounds	
Calves			 7	38	Plums					8
Pigs			 33	397	Mussels					8
Beef			 	538	Onions			67	crates	
Pork			 	19	Poultry					1
Mutton			 	81	Cauliflov	vers		12	crates	
Bacon ar	nd Ha	m	 	39	Pears					103
Fish			 	38	Tomatoe	s				23
Rabbits	and H	ares	 	42	Eggs			1	,710	
Offal			 	91						

The total weight of Butchers' Meat and other Foodstuffs surrendered and seized during the year amounted to 3,563 stones, as compared with 3,843 stones in 1925, and 6,338½ stones (including 5,080 stones of Potatoes) 1924.

Of the $3,296\frac{1}{2}$ stones of Butchers' Meat condemned, 2,638 stones were affected with Tuberculosis.

PARTICULARS OF SURRENDERS AND SEIZURES OF UNSOUND ANIMALS AND MEAT.

Number of Voluntary Surrenders of diseased carcases, or part carcases or internal organs by butchers to the Chief Sanitary Inspector.

Number of Seizures (with subsequent destruction) of diseased carcases or part carcases or internal organs by the Chief Sanitary Inspector.

		Other		Other	
Year	Tuberculosis	Conditions	Tuberculosis	Conditions	Total
_	_		_		_
1926	151	103	2	1	257

NUMBER AND CLASSES OF ANIMALS AFFECTED WITH TUBERCULOSIS.

	В	ullocks	Cows	Heifers	Calves	Pigs
		_	_			_
Whole Carcases	 	5	33	12	1	24
Part Carcases	 	6	11	4		12
Organs Only	 	8	18	4		15

NUMBER AND CLASSES OF ANIMALS AFFECTED WITH DISEASE OR CONDITIONS OTHER THAN TUBERCULOSIS.

			umber of Animals	Whole Carcases and Organs Affected	Part Carcases and Organs Affected	Organs Only Affected
Bullocks			11		3	8
Heifers			 10	1	4	5
Cows			 43	7	19	17
Pigs			 16	9	2	5
Sheep			 15	11	4	
Calves			 9	5	1	3
	Tot	als	 104	33	33	38

In addition, 65 pieces of Beef, Mutton and Pork, Total Weight $102\frac{1}{2}$ stones, were seized at a Butcher's Shop as unsound and unfit for human consumption.

TUBERCULOSIS ORDER, 1925.

In all cases where Meat affected with Tuberculosis has been condemned within the Borough, the Clerk of the Authority from which the animal came has been notified. 145 such Notifications were sent out during the year.

THE MARGARINE ACT, 1887, AND THE SALE OF FOOD AND DRUGS ACT, 1899.

Number of Manufacturers	 	 Nil
Number of Wholesale Dealers	 	 28
Number of Premises Registered	 	 28

BUTTER AND MARGARINE ACT, 1907.

There are 3 Butter making Factories in the Town. Regular Butter making is not carried on, and only when Milk is surplus at these Dairies is Butter manufactured.

FOOD POISONING.

During the Spring of 1926, there were three instances in which cooked Meats caused illness to a number of persons who had eaten them. These cases were all inquired into and nothing could be detected which could cause the meats to become unwholesome. Specimens were sent to the Government Laboratory for examination. All the affected persons recovered.

MAGISTERIAL PROCEEDINGS, 1926.

umber			
of Case	Complaint	Result	
_	_		_
1.	Failing to comply with Notice Public Health Acts	Case withdrawn upon payment of costs	
2.	Selling a Pork Pie unfit for hu	man consumption	Fined £5 and costs
3.	Selling Milk deficient in Fats	Fined 40/- and costs	
4.	Contravening Section 73 of Pu	Bound over for 12	
	1925, by giving toys, sweet exchange for rags, bone		months
5.	Do.	do.	Discharged
6.	Do.	do.	Case dismissed
7.	Failing to comply with Manur not emptying Manure Pit		Fined £5 and costs.
8.	Do.	do.	Fined £3 and costs.
9.	Do.	do.	Fined £1 and costs

Number		
of Case	Complaint	Result
	-	_
10.	Exposing 65 pieces of Meat for sale unfit for for human consumption	Fined £40 and costs
11.	Opening up drainage without first giving Notice to Local Authority	Fined £2 and costs
12.	Contravening Public Health (Meat) Regulations by exposing Meat in public streets without adequate covering	Fined 20 - and costs
13.	Exposing 52 pieces of Meat for sale unfit for human consumption	Fined £20 and costs
14.	Selling Camphorated Oil deficient in Camphor by weight 3.82%	Fined £2 and costs

T. P. DIXON, Chief Sanitary Inspector.

PREVALENCE AND CONTROL OVER INFECTIOUS DISEASES.

During the year 1926, there were 3,845 cases of Infectious Disease notified, this being a large decrease on the previous year.

The mean death rates from the chief Zymotic Diseases during the past five quinquennial periods being :—

1901-1905	 3.2 per 1,000 population	١.
1906-1910	 3.0 ,,	
1911-1915	 2.8 ,,	
1916-1920	 1.7 ,,	
1921-1925	 0.9	

For the year 1926, the rate was 0.5.

The death rates per 1,000 population in the County Boroughs and Great Towns from certain diseases for 1926, were as follows:—

	Enteric Fever	Small- pox	Measles	Scarlet Fever	Whooping Cough	Diph- theria	Influ- enza
105 County Boroughs and Great Towns	 0.01	0.00	0.12	0.02	0.10	0.10	0.22
Middlesbrough	 0.01	0.00	9.03	0.00	0.40	0.03	0.25

With the exception of deaths from Whooping Cough, Middlesbrough compares very favourably with the other County Boroughs.

NOTIFIABLE DISEASES (other than Tuberculosis) during the Year, 1926.

0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

CHIEF ZYMOTIC DISEASES, 1926.

		No. of		Rate per 1,000	0 Population
DISEASE		Cases	Deaths	Mortality	Attack
	-	9			0.07
Smallpox		6	3	0.02	0.04
Enteric and Continued Fevers		965	4	0.03	7.23
Measles		386			2.89
Diphtheria and Croup		75	5	0.03	0.56
Diarrhoes and Enteritis			58	0.43	
Whooping Cough			54	0.40	
Chickenpox		1,528			11.43

Attack and Mortality Rates per 1,000 population in the Wards from certain Infectious Diseases during the year 1926.

Ward		Scarlet Fever	Diphtheria	Measles	Chickenpox	Smallpox	Enteric and Continued
Axmanama	Attack	4.1	0.9	7.9	10.5		0.1
Ayresome .	Mort.		0.1				
Acklam	Attack	2.5	0.9	9.2	9.9		
Acklam	Mort.						
Cannon	Attack	2.6	0.7	8.2	16.8		
Cannon	Mort.						
Classiand	Attack	2.6	0.2	8.8	11.2	0.09	
Cleveland .	Mort.			0.1			
P1	Attack	2.5	0.7	4.4	7.3	0,1	0.1
Exchange .	Mort.						
C TT:11	Attack	3.2	0.3	14.3	13.6	0.07	0.07
Grove Hill .	Mort.	.,	0.08	0.08			0.07
T	Attack	2.0	0.4	13.2	8.7		
Linthorpe .	Mort.		0.08				
N7	Attack	3.3	0.3	4.5	11.9		0.08
Newport .	Mort.			0.08			
0 1	Attack	3.0	0.8	3.2	15.6	0.4	
Ormesby .	Mort.		0.08				
St. IIII	Attack	2.3	0.3	2.4	9.5	0.1	
St. Hilda's .	Mort.		0.08				
	Attack	3.2	0.5	2.9	9.2		0.08
Vulcan	Mort.		1				0.08

Smallpox.

During 1926 there were only 9 cases of the mild type of Smallpox notified in Middlesbrough compared with 901 in the previous year. There were 47 Primary and 77 Re-vaccinations performed by the Medical Officer of Health under the Public Health Smallpox Regulations, 1917.

Scarlet Fever, Diphtheria and Measles.

Cases of Scarlet Fever, Diphtheria and Measles were all less in number than in 1925. There were no deaths from Scarlet Fever, and only 5 deaths from Diphtheria and 4 from Measles.

Enteric and Continued Fever.

Of the six cases notified, one was contracted abroad and one was probably due to eating contaminated mussels.

Cerebro Spinal Fever.

Two cases were notified of which one, an infant, died within a few hours of the onset of the illness.

Encephalitis Lethargica.

Five cases were notified and four were fatal, in addition, one death was registered as being from Encephalitis Lethargica and afterwards withdrawn.

- Male, age 28. Fatal.
 Onset, sudden, pain in chest, coma.
 P.M.—Small haemorrhage into brain.
- Female, age 31. Fatal.
 Onset, pains in muscles, lethargy, difficulty in swallowing, rambling speech. Had been subject to Petit Mal. for years.
- Female, age 33. Removed to Holgate Hospital. Recovered.
 Onset, vomiting, paralysis of left leg, dull and lethargic.
 Bact. Exam. C.S.P. Contamination bacteria present.
- Male, age 15. Removed to Holgate Hospital. Fatal.
 Onset, violent headache, vomiting and coma. Facial paralysis.
 P.M.—Small haemorrhage into brain.
- Male, age 1½ years. Fatal. Onset, vomiting.

Report of the Medical Officer of the Fever Hospital, West Lane, for 1926.

Scarlet Fever:

During the year 1926, 416 cases of Scarlet Fever were admitted to West Lane Hospital. On none of these was it deemed expedient to conduct the "Shick" or "Dick" tests. The opportunity was taken, however, of introducting Scarlet Fever Antitoxin as a therapeutic agent. A series of 25 severe cases, 9 males and 16 females were injected with the serum, the dose varying from 10-30 c.c.'s according to the severity of the disease. The injection was made into the vastus externus muscle in each instance.

The results proved very satisfactory. Twenty-three of the patients were suffering from septic Scarlet Fever. In every case there was a rapid fall in temperature, and a marked improvement in the general condition. Complications were not always prevented, as there were four instances of otitis media, four of cervical adenitis, and one of albuminuria. Such complications might have been avoided if the serum had been administered earlier. Early injection, however, was not always possible as sometimes the case did not reach hospital till the fourth day of illness or even later.

In all 25 cases, desquamation was lessened. The average stay in bospital was 43 days. Four cases developed mild urticarial rashes on the 6th, 8th, 8th and 10th days respectively, after the injection.

The results are very encouraging, and compare favourably with a similar series of 25 cases treated in 1925, without serum. In this second series there were five deaths and complications occurred in nearly every instance. The serum used was the concentrated Scarlet Fever Antitoxin of Parke, Davis and Co.

During the year 1926, there were no deaths from Scarlatina, although one patient admitted with a scarlatiniform rash succumbed to shock following burns. There were two return cases due to rhinitis developing after the patient's return home.

Diphtheria:

Sixty-three cases of Diphtheria were admitted to West Lane Hospital during 1926. Out of this number four died. Two patients aged 7 and 8 months respectively succumbed to broncho-pneumonia, while two others aged $2\frac{1}{2}$ and 3 years died from cardiac failure following laryngeal diphtheria. In 26 of the 63 cases diagnosed clinically as diphtheria, the Klebs Loeffler Bacillus was demonstrated on bacteriological examination. The bacterological examination of the remaining patients failed to reveal the B. diphtheriae.

Antitoxin varying in amount from 2,000 to 30,000 units was administered to all cases. In only one instance was there a serum rash. This occurred on the 10th day following the injection.

A boy, aged 5 years, had tracheotomy performed before admission to hospital. Another, aged four years, was operated on in West Lane. Both cases recovered.

Complications included broncho-pneumonia (6 cases), pericarditis (1), myocarditis (7), albuminuria (1), paralysis of palate (1).

Mumps:

Two cases of Mumps were treated in West Lane Hospital during 1926. They were patients removed from ships in the river Tees.

Enteric Fever:

Three Enteric Fever patients were admitted to West Lane Hospital for treatment during 1926. Of these one died. The victim was a woman aged 35 who had contracted the disease through eating shellfish. One patient came from Thornaby. The others were inhabitants of Middlesbrough.

The remaining patients included one suffering from Scarlet Fever and Diphtheria, and one suffering from Scarlet Fever and Chickenpox. One case of Pemphigus, two of Chickenpox, one of Pneumonia, and one of Tonsillitis were also treated. A suspected Enteric proved to be a case of generalised Tuberculosis.

Thirteen Smallpox Contacts were isolated at West Lane during 1926.

W. L. TULLIS, M.D., Resident Medical Officer.

Cases of Infectious Disease treated at the Corporation Hospitals during 1926.

				-1-		_,	Case	es a	dm	itte	ed	an	d I	ea -	ths	s pe	er n	non	th	_		_	_				200000	37			
DISEASE		Remaining in Hospital December 31st, 1925.	January	February		February		January		March		April		May		June		July		Anomst	0	September		October		November		-	December	Totals	
		Remaining December	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases				
Vest Lane					_						Ī										-	П		-	_	_					
Hospitals— carlet Fever		49	45		36		20		97		90		40		10	,	90				00							ľ			
iphtheria		5	2				11		37		32		3		40	1	28		35								416	-4			
			1						-		9	1								• •				2	1 8		63	-1			
umps			li													• •											3	- 2			
neumonia								,																			2				
			1 '					1								٠.							• •				1				
servation																															
(Enteric)						• •	1					٠.		٠.	٠.	• •								٠.			1				
nickenpox									1					٠.			1							٠.			2				
arlet and			1																									1			
Chickenpox			1								1			٠.													1				
emphigus			1								1																1				
arlet and			1			1																						I			
Diphtheria			1														1										1				
nsillitis																	1										1				
nallpox				1																											
Contacts																							9		4		13	,			
Total		54	50	0 1	41			-	45	-	39	1	43	_	_	_	_	_		-	_	_		_		_	505				
uberculosis	_		1	-	-		_		-	-	-	-	_	-	-	_		-		-				_				-			
Hospital-	-																											Ì			
Male		19		5 1			6		6	1	3		7					1		1						1	57	1			
Female		9	1	7	7		6	1	6		6		1	1	2		2		7		5		6		1		56	į			
Total		28	15	2, 1	11	-	12	2	12	1	9		8	2	4	-	5	1	16	1	10	-	11		3	1	113				
emlington	-		十	1	-	-	-	-	-		1	-	-	-	-			-			_	-	_	-		H					
Hospital-	_		1																19												
mallpox			6	8	17		7				14		5		2		1		96		62		159		200		631				
ontacts		3			1000														1000								9				
bservation		NIL										100													4		6				
hickenpox		1	1.																1770								2				
hemphigus			1.				١				1		1											1			1				
	0.000					-					_					_		-								_					
Total			10	8		1					1		1 -		1	1			0.0				164	1	000		649	į			

48

The undermentioned Cases were admitted from Outside Districts during 1926.

Area	Scarlet Fever	Diphth- eria	Enteric Fever	Chicken-	Mumps	Smallpox	Observa'n for Smallpox	Smallpox Contacts
Stokesley R.D.C	16	2						
Thornaby Corporation	30	2	1					
Middlesbrough R.D.C.	6	1						
Tees Port S. Authority				1	1			
Easington R.D.C				1		279	1	5
Hartlepool Corporation						5		
Sedgefield R.D.C				1		171	2	
West Hartlepool C. B.						. 11		
Brandon U.D.C						166	. 1	2
TOTAL	52	5	1	3	1	632	4	7

Report of the Tuberculosis Officer for the Year 1926.

The number of persons in the County Borough of Middlesbrough who died of Tuberculosis during the year 1926 was 175.

Of these 143 died from Tuberculosis of the lungs and 32 from Tuberculosis of other organs. These numbers represent a fall in mortality in both sections compared with the number of deaths from Tuberculosis in the two preceding years.

The death rate from Tuberculosis for the year was 13.09 per 10,000 population. The corresponding figures for 1925 and 1924 were 16.29 and 17.53.

It will therefore be seen that there has been a considerable reduction in the death rate from Tuberculosis as compared with the two preceding years.

The death rate from all causes in the Borough also shows an almost similar drop.

INCIDENCE OF TUBERCULOSIS.

The total number of cases in the County Borough of Middlesbrough notified as occurring during the year 1926 was 532, of which 365 were Tuberculosis of the lungs and 167 Tuberculosis of other organs. These figures also indicate a reduction in the incidence of the disease as compared with the two preceding years.

DISPENSARY TREATMENT.

The work of the Dispensary continued during 1926 without any change, with the exception of the addition to the staff of one visiting nurse. The staff consists of the Tuberculosis Medical Officer, three nurses and two clerks. The work of the dispensary has not decreased in any way and at the end of the year a very full statistical report of the work done was forwarded to the Ministry of Health. The premises occupied by the dispensary are completely inadequate for the work to be done. It is gratifying to know that during the coming year the increased accommodation required will be forthcoming.

The lack of dental treatment for patients attending the Dispensary continues to be a drawback to the work done for the patients. I should like to draw the attention of the Sanatorium Committee to this defect and hope it will be remedied in the near future.

The value of Artificial Sunlight in the treatment of Tuberculosis, especially in surgical diseases of children is becoming more obvious every year. At present, cases are being sent for such treatment to Holgate Hospital, Broomlands, and when they can procure admission, to the North Ormesby Hospital. This has proved quite adequate during the year 1926, and of considerable value in the type of case mentioned.

A Table showing in figures the work of the Dispensary is appended.

RESIDENTIAL TREATMENT.

During the year 141 persons received institutional treatment. The great majority of these patients were accommodated in West Lane Sanatorium. Since the closing of Hemlington Sanatorium to Tuberculosis patients, and its use reserved for Smallpox only, the number of beds available for treatment of Tuberculosis in the Borough is 30, a number insufficient to deal with the cases requiring sanatorium treatment.

It was therefore necessary to send 3 cases to sanatoria outside the borough area. Six beds are also retained for children by the Corporation in Broomlands (Guardians') Hospital, for which no grants in aid are received from the Treasury on the ground that this is a Poor Law Institution. Considering the very adequate treatment received by patients in Broomlands, it is to be hoped that this anomaly will be removed at an early date.

A Table showing the cases who received treatment in West Lane and the results of treatment is appended to the Report.

VOLUNTARY CARE COMMITTEE.

The increasingly valuable work of this Committee has been carried on as in previous years. Established in 1913, many of the original members continue giving their unselfish labours in the interests of the health of the community. During the last few years financial help has been given by annual grants from the Treasury, in addition to which voluntary subscriptions enable the Committee to considerably extend their work mostly in the direction of sending convalescent patients for holidays in the country. It is impossible here to enumerate the many directions in which the work of the Voluntary Care Committee extends. An annual report published yearly shows its many aspects and the work of the Dispensary is greatly assisted by such a body. While the personal

value of the help of the members cannot be too highly assessed, it would considerably aid the Committee in their beneficient work were the public willing to contribute to the Care scheme in more generous fashion.

HOUSING CONDITIONS OF TUBERCULOUS PERSONS IN MIDDLESBROUGH.

Under the above heading a Report was issued to the Council in the earlier part of the year, in order to come to some conclusion as to housing conditions of the Tuberculous section of the population in the Borough, particularly in regard to overcrowding.

A total of 1159 houses were investigated, in each of which lived one or more persons on the Dispensary register suffering from Tuberculosis in some form. These were not all the cases of Tuberculosis in the Borough, but were those in the parts of the town most likely to provide instances of overcrowding and were drawn from ten wards: Cannon, Newport, Cleveland, Acklam, Ayresome, St. Hilda's, Ormesby, Vulcan, Grove Hill and Exchange. In each of these wards the mortality rate from Tuberculosis was stated. In 745 houses there was at least one case of Pulmonary Tuberculosis and in 414 houses one or more cases of non-pulmonary Tuberculosis.

It was estimated that in 769 houses there was a danger of infection spreading to other members of the household on account of the infectious condition of the patient; an important point in considering the likelihood of extension of the disease to healthy inmates of the home.

A total census of the number of persons living in the houses investigated, including the affected people themselves, showed a considerable proportion of the total population of these wards, the number being 7210. In 251 houses more than one family was accommodated.

A Table was provided showing the number of rooms in the series from 1 room per house to 6 rooms or over.

In the case of the 769 houses which sheltered an infectious person only 157 were able to provide a separate bed-room for the sick inmate and in only 396 houses had the patient a separate bed. In the remaining cases the bed was shared by one or more healthy members of the household.

In 97 houses the families of the affected person lived in apartments of houses belonging to other tenants.

In order to form some conception of their conditions as to overcrowding, the ratio of persons to rooms was taken and is of such importance that the Table is given below.

C	occupants.		Houses.	Occu	ipants		Houses
			_		_		_
1 1	to 1 room	 	 176	31 to	l room	 	10
11	,, ,,		 185	$3\frac{1}{2}$,,	 	11
11/2	,,		 135	33	,,	 	2
13	,,		 196	4	,,	 	12
2	,,		 137	41/2	,,	 	2
21	,,		 69	5	,,	 	1
$2\frac{1}{2}$,,		 69	53	,,		1
$2\frac{3}{4}$,,		 40	7	,,	 	1
3	,,		 33				

As a matter of some interest it was found that out of the total of 1,159 families, 505 expressed the desire for better accommodation, the difficulty of securing which was almost entirely financial.

In the case of 90 families, the means of sustenance was Parish relief, and in 136 cases the wage-earner was receiving the "dole." These figures were taken out before the commencement of the Coal Strike.

A Table was provided showing in each ward the number of houses per acre and an accompanying figure giving the death rate for 1925 from Tuberculosis. This comparison showed that in those wards with the greatest number of houses per acre the death rate from Tuberculosis was generally higher than in the wards with fewer houses per acre.

The inferences drawn from this census were that there was considerable evidence of overcrowding among the families of Tuberculous persons in the Borough. A comparison of the figures taken out at the same time by the Sanitary department of the Borough in regard to overcrowding among the general population indicated strongly that overcrowding exists in a much greater degree among families one or more members of which is Tuberculous than among the Non-Tuberculous section of the Borough. This might however be looked for without a census being required, as in the first place persons living in the poorer parts of the Borough are financially worse off, their standard of life lower; they therefore being more likely to fall a prey to Tuberculosis; while secondly, infection is most easily spread when areas are over-built and families crowded into small homes with an infectious member of the household.

While, with a census of this kind before us, it is impossible to define in what proportion overcrowding exists as a factor in the cause of the spread of Tuberculosis in a Borough like Middlesbrough, it nevertheless throws some light on the problem by providing figures which indicate that instead of living under conditions of lessovercrowding the Tuberculous person exists in an overcrowded environment which is likely to detract from his recovery and as likely to favour the spread of Tuberculosis to the as yet unaffected portion of the household.

F. J. HENRY, M.B., D.P.H., F.R.C.S., Tuberculosis Medical Officer.

TUBERCULOSIS.

NEW CASES AND MORTALITY DURING 1926.

	Nev	v Cases No	tified in	1926	Deaths Registered in 1926						
Age Periods	Pul	monary	Non-Pu	ılmonary	Pulm	onary	Non-Pulmonary				
rerious	Male	Female	Male	Female	Male	Female	Male	Female			
0—l year	2		3	3	1	1	2	2			
1-5 years	16	13	20	13	8	1	6	2			
5—10 ,,	-44	35	34	25	2	4	1	4			
10—15 ,,	17	33	.16	13	1	7	3	1			
5-20 ,,	13	18	7	6	1	9	6	1			
20—25 ,,	10	14	4	2	7	14		2			
25—35 ,,	32	25	3	4	12	14					
35-45 ,,	33	17	5	7	18	9		1			
55 ,,	22	10	1	2	15	7		1			
55-65 ,	9	6		1	7	3		1			
Over 65 ,,	1	2				1					
Total	189	173	93	76	72	70	18	15			

The ratio of non-notified Tubercular deaths to total Tubercular deaths is 11.43%.

PUBLIC HEALTH (PREVENTION OF TUBERCULOSIS) REGULATIONS, 1925, AND PUBLIC HEALTH ACT, 1925.

No action has been taken under the above during the past year.

DEATHS FROM TUBERCULOSIS, 1926.

			SE	x.
		Age Period	MALE	FEMALE
PULMONARY		 Under 15 years	12	12
			_	_
		15 to 25 years	10	22
		25 to 35 years	12	14
		35 to 45 years	18	9
		Over 45 years	22	11
				-
		Total Over 15 years	62	56
			-	-
	Insured	 	44	14
	Non-Insured	 	30	54
			-	_
Non-Pulmonary		 Under 15 years	12	9
		Over 15 years	6	6
			-	_
TOTAL DEATHS:				
1	Pulmonary	 	74	68
1	Non-Pulmonary	 	18	15
Tota	L	 	92	83

INSTITUTIONAL TREATMENT.

		_						
West Lane Hospital :-								
Pulmonary	Male		- 70		Female	62	Total	132
Non-Pulmonary	Male		6		Female	3	Total	9
							Total	141
Conditions of Patients I	Discharg	ged :-						
Quiescent							1	
Much Improve	d						72	
No Material In	proven	nent					33	
Died in Institu	tion						8	
			T	otal			114	
Tuberculosis Dispensary :-								
Total New Cases examine	ed (excl	luding (Contac	ts)			559	
						-		
Diagnosis						• •	463	
Notified							82	
Pensioners							9	
Transfers							Nil	
Voluntary							5	
			Т	otal			559	
Attendances, including	g Conta	cts					11,958	3
Home Visits							7,232	2
Sputum Examinations							397	7
X-Ray Examinations							16	3
Urine Examinations							6)
						,		

Report of the Venereal Diseases Medical Officer for the Year 1926.

CLINIC.—105, Grange Road West, Middlesbrough.

Staff.—Medical Officer; 2 Male Attendants; 2 Nurses.

Hours.-Males: Mon

Monday .. 8-

8-30 a.m. and 5-30 p.m.

Friday

8-30 a.m. and 5-30 p.m.

FEMALES:

Wednesday

5-30 p.m.

IRRIGATION HOURS FOR MALES :-

Monday

8-30 a.m. and 5-30 p.m.

Tuesday ...

8-30 a.m. and 5-30 p.m.

Wednesday

8-30 a.m.

Thursday ..

8-30 a.m. and 5-30 p.m.

Friday .

8-30 a.m. and 5-30 p.m.

Saturday

8-30 a.m.

Number of Cases under Observation and Treatment on January 1st, 1926.

Sy	philis	Soft (Chancre	Gono	rrhoea	Other	r Cases	То	tal	Total
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	all Cases
46	30	2		91	4	11	5	150	39	189

Number of Persons and the Diseases they were suffering from, dealt with for the first time during years 1922-26.

	Syp	Syphilis		Soft Chancre		Gonorrhoea		ases	Total Cases		Grand
Year	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Male	Fem.	Total
1922	141	15	21		159	9	161	13	482	37	519
1923	69	29	6		206	2	142	16	423	47	470
1924	75	20	7		200	7	113	26	395	53	448
1925	79	30	11		235	9	129	14	454	53	507
1926	77	32	12	1	246	18	130	14	465	65	530*
Totals	441	126	57	1	1,046	45	675	83	2,219	255	2,474

^{*}Middlesbrough Cases, 351. Seamen, 100. Other Cases, 79.

Cases Classified in Age Groups.

DISEASE		Und'r 1 yr,				1-5		5-1	5-14		-14 14-16		16-17		17-18		18-19		Over 19		TOTALS	
		М	F	M	F	М	F	M	F	M	F	M	F	М	F	М	F	М	F	Total		
Syphilis		1	4		1	1	1				2			1		- 74	24	77	32	109		
Gonorrhoea					1					1		3		4	2	238	15	246	18	264		
Soft Chancre												2				10	1	12	1	13		
Other Cases				1			2			1		2		2		124	12	130	14	144		
Total		1	4	1	2	1	3			2	2	7		7	2	446	52	465	65	530		

Oldest patient—78 years. Youngest patient—14 days.

Occupation and State of Cases for the year 1926.

			MA	LES.	FE	MALES.
			Single.	Married.	Single	Married.
Seamen		 	68	32		
Labourers		 	68	61		
Railwaymen		 	17	13		
Commercial Travelle	ers	 	2	4		
Iron and Steel Work	ers	 	55	49		
Tradesmen		 	21	22		
Motor Mechanics		 	10	7		
Actors		 	2	2		
Miscellaneous		 	3	10		
Clerks		 	11	2	2	
Shop Assistants		 		3	5	
Children		 	3		9	
Domestic Servants		 			6	
Teachers		 			4	
Housewives		 				39
			260	205	26	39

Nationality of Seamen Treated during the year 1926.

	-			
British	 		 	 71
Lascar	 		 	 13
Norwegian	 		 	 4
Swedish	 		 	 3
Esthonian	 		 	 2
Japanese	 		 	 2
Dutch	 		 	 2
Spanish	 		 	 1
Polish	 		 	 1
West African	 		 	 1
		Total	 	 100
		1925	 	 93

Total Attendance of all Persons suffering from:

Syl	philis	Soft C	hancre	Gonorrhoea		Other Cases		Total		Total all
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Cases
1,204	429	24	4	4,223	123	451	87	5,902	643	6545

Middlesbrough North Riding of					 	5,323 846
Durham County						376
	TP.	atal A	ttonda.	0000		C EAE

Sex		Number Session		Total Attendance	Average Attendance per Session	
MALE		 Morning	105	1,203	11.4	
		Evening	105	3,257	31.2	
FEMALE IRRIGATION		 Evening:	51	643	12.6	
MALE		 314		1,442	4.6	

Totals for the year 1926.

Total N	umber of	Injections Administered			 1,615
,,	,,	Irrigations Administered			 4,223
,,	33	Slides Examined by Medica	l Offi	cer	 725
		Wassermann Reactions			 233

				Males	Females
Total Number o	f patients	discharged		218	29
. ,,	,,	transferred to another Centre	e	133	14
,,	,,	uncompleted cases		53	14
	s at the er	d of year 1926, under treatme	ent	211	47

ARTHUR BRYANS, Medical Officer Treatment Centre.

Report of the Maternity and Child Welfare Medical Officer for the year 1926.

(1) MIDWIVES.

Forty Midwives, including four untrained, sent in their notification of intention to practise.

Of 3,368 births notified
2,345 were by Midwives,
1,019 were by Doctors,
4 were by other persons.

Percentage of notified cases delivered by Midwives was 69.

Though the notifications were as stated above, nevertheless 73 of the births were found to have been conducted by handy women, without a doctor being present. Final warning letters were sent out to these women in September, quoting Section 1 (2) of the Midwives and Maternity Homes Act, 1926. Whereas there had been an average of 20 deliveries a quarter during the first three quarters of the year, there were only 15 deliveries by handy women during the last quarter.

Of the 2,345 births notified by Midwives, 109 were notified by the poor-law nurses from the district. Out of the remaining 2,236 cases notified by Midwives, medical help under Section 14 of the Midwives Act was called 586 times, that is, in 26% of cases. Of the 586 calls for medical help, 140 were for torn perineum.

Visits of inspection to Midwives numbered 60.

The usual monthly meeting of the Midwives in the Maternity and Child Welfare Office continued through the year with the variation from previous years that stranger lecturers were invited to address the Midwives. Six Doctors in the town gave addresses on the following subjects, viz.:—Venereal Diseases, Ophthalmia Neonatorum, Sepsis, Diseases of Pregnancy, Feeding of the Expectant and Nursing Mother, Sequlae arising from abortion and child-birth. The Assistant Inspector of Midwives gave a report on the Maternity and Child Welfare Conference at Geneva, which she had attended. The remaining addresses were given by the Maternity and Child Welfare Medical Officer, and dealt with Still Births, Maternal Deaths, Ante-natal work, and Breast Feeding.

Municipal Maternity Home.

The Municipal Maternity Home has 21 beds. The number of cases delivered was 279. Of these 67 were delivered by Doctors, making the percentage delivered by Midwives 76. Medical help under Section 14 of the Midwives Act was called 96 times, including 39 for torn perineum. There were 2 maternal deaths, 9 still births, and 9 neo-natal deaths. Number of pupil Midwives who gained their Central Midwives Board Certificate after training at the Home was 3.

Municipal Midwife.

A Municipal Midwife was appointed to the North Ormesby area and put out her plate there in November. The Corporation pays her salary and supplies uniform, and she gives the fees received from her patients to the Corporation. The greatest number of cases attended by handywomen occurs in the North Ormesby area. The appointment of a Municipal Midwife to the north side of the town some years ago was successful in putting down handywomen in that area and it is hoped it will be equally successful in the North Ormesby area. The Municipal Midwife is a member of the local branch of the Midwives' Association and charges the same fees as the other members do.

Midwives and Maternity Homes Act.

Under the Midwives and Maternity Homes Act, five Nursing Homes or Hospitals applied for registration. All were granted as carried on under satisfactory conditions

(2) GENERAL ARRANGEMENTS MADE FOR ATTENDING THE HEALTH OF EXPECTANT AND NURSING MOTHERS AND OF CHILDREN UNDER FIVE YEARS.

Health Visitors.

Number of visits paid were as follows:-

To expectant mothers .. First Visits, 369 Total Visits .. 985
To infants under 1 .. ,, 3,321 ,, 7,775
To children 1 to 5 .. Total Visits 2,348

The number of visits to expectant mothers has gone up, as has also the number of attendants at the ante-natal sessions. The number of visits to infants under 1 has gone down but on the other hand the attendances at each Centre have gone up. The latter fact is an economy of the health visitors' time as the regular Centre attendants

who are found to be thriving do not require visiting at home. The principle of visiting is to get two early visits in to each newly born infant, one on the third or fourth day in respect of the eyes, and one in the third week in respect of breast feeding. Encouragement in breast feeding, and if necessary cocoa or milk for the mother, in the third week has been found of value. Breast feeding is increasing year by year, due to reiterated Centre instructions, due to drinks given to needy mothers in the last month of pregnancy and during lactation if the infant does not gain satisfactorily in weight, and due also to the fact that many of the general practitioners have ceased advising a mother to take her baby off the breast on the least provocation.

Nurses.

A nurse on the Public Health Staff visits cases of measles and nurses them when necessary. The District Nursing Association receives a Municipal Grant in respect of the nursing of expectant and nursing mothers and of children under 5.

Centres.

There is a weekly session at each of 5 Centres, and a session twice a week at the Cannon Centre.

The average attendance of children per session is given below:-

East Centre		 	 94
Grove Hill Centre		 	 32
Cannon Centre		 	 131
American Red Cross Ce	entre	 	 80
Settlement Centre		 	 80
North Ormesby Centre		 	 105

Municipal Children's Hospital.

Two wards (15 cots) are set apart for children on the ground floor of the Municipal Maternity Home. The number of cases admitted was 139, average duration of stay 32 days, number discharged in good health 88, discharged improved 14, discharged with no improvement 37 (including 12 deaths).

The variety of cases admitted is shown below	w :	below :-	shown	is s	admitted	cases	of	variety	The
--	-----	----------	-------	------	----------	-------	----	---------	-----

Mal-thriving infants					 50
Rickets					 35
Domestic reasons (death or	sicknes	ss of t	he mo	ther,	
confinement, etc.)					 14
Neglect					 9
To re-institute breast feeding					 9
Convalescents from whooping	cough	, meas	sles, etc		 7
Tubercular contacts					 5
Miscellaneous					 10

Hospitals, other than Municipal.

The North Riding Infirmary, North Ormesby Hospital, Carter Hospital, Holgate (Guardians) all take children. There is also a Children's Hospital—Broomlands (Guardians).

Ante-Natal Work.

Each of the 6 Centres has a monthly ante-natal session.

				-	attendances r session.
East Centre			 		13.5
Grove Hill Centre			 		5.25
Cannon Centre			 		23.0
American Red Cros	ss Ce	ntre	 		21.3
Settlement Centre			 		21.7
North Ormesby Ce	ntre		 		21.2

These numbers represent the minimum seen by the Medical Officer as a number of expectant mothers come to the office for advice and examination at hours other than the ante-natal session.

Maternal Mortality.

Out of 3,387 registered births 18 maternal deaths were certified. The certified causes of death were as follows:—

Puerperal Sepsis			 	 5
Haemorrhage			 	 6
Eclampsia			 	 3
Pulmonary embol	ism		 	 2
Sloughing fibroid			 	 1
Shock after precin	oitate	labour	 	 1

Of the septic cases one was an incomplete abortion, no one being present at the delivery.

All the 6 cases of haemorrhage were delivered by a doctor.

Of the 3 cases of eclampsia 2 had not had urine testing.

Though the certified deaths were as stated above, nevertheless there were 7 other maternal deaths, 6 due to pneumonia, occurring on the 2nd, 5th, 7th, 7th, 10th and 15th day of the puerperium respectively, and 1 due to intestinal obstruction on the 16th day.

Infantile Mortality.

The figure was 99 per 1,000 representing 337 deaths.

Still-births.

Of the 3,368 births notified, 124 were still-born, making the still-births 3.6% Of the 124 stillbirths 5 were illegitimate.

Of the 124 stillbirths 79 had no ante-natal care, 31 had ante-natal care either at the ante-natal clinic or from their private doctor, 16 had urine testing from a midwife.

In 55 cases at least the death was probably intra natal, the mother having felt movements on the day of confinement.

The ascertainable causes, or predisposing causes, of the stillbirth, were as follows :-

1.	In the first group the mother volunteered the information that she felt no movements after the occurrence of some mechanical or psychological event such as a fall, scrubbing, severe coughing,	
	excessive vomiting, shock, anxiety, etc	29
2.	Ante-partum haemorrhage accounted for	17
3.	In this group the foetus was born before arrival of midwife or doctor. In one case the cord had three loops round the foetus' neck, and in a second the foetus was born inside the membranes	12
4.	Forceps delivery, vertex presentation	12
5.	Breech presentation with delay in birth of the head	10
6.	Transverse presentation	6
7.	Syphilis	6
8.	Prolapsed cord	4
9.	Anencephaly	4
10.	Hydrocephalus	1
11.	Prolonged 2nd stage, vertex presentation, natural delivery	1

12. Albuminuria	1
	,
13. 2nd twin was born dead 3 days after the 1st was born alive	1
14. History of the taking of abortifacients	1
Opportunity for a post morten was afforded in 20 cases :-	
Macerated foetus: nothing abnormal found	5
Meningeal haemorrhage (1 natural labour, vertex:	
2 forceps, vertex)	3
Diffuse haemorrhage under scalp (1 forceps and	
1 natural delivery)	2
Anencephaly	3
Fibroid fatty placenta, foetus macerated : Wassermann on	
foetal blood negative	3
Signs of asphyxia livida, lips and tongue blue, blood fluid and	
blue (1 forceps delivery, 1 twin born 3 hour after	
after 1st living twin, 1 prolapsed cord, and 1 B.B.A.)	4
0 -, 1 1	

Neo-natal Deaths.

There were 135 neo-natal deaths. Of 131 in which investigations were made the certified causes of death were as follows:—

Prematurity			 	 	68
Atrophy, debility, m	arasm	us, etc.	 	 	19
Difficult labour			 	 	8
Congenital abnormal	lities		 	 	8
Broncho-pneumonia			 	 	6
Convulsions			 	 	5
Gastro-enteritis			 	 	5
Pemphigus			 	 	2
Measles			 	 	2
Ruptured liver			 	 	1
Congenital Syphilis			 	 	1
Meloena			 	 	1
Oedema glottidis			 	 	1
Asphyxia Neonatoru	ım		 	 	1
Erysipelas			 	 	1
Atelectasis			 	 	1
Jaundice			 	 	1

The ascertainable causes or predisposing causes of prematurity were as follows :-

Twins					 		20
Triplets					 		3
Ante-partum	haemo	rrhage			 		11
Continued vo	omiting	or cou	ghing		 		3
Heavy work					 		3
Congenital S	yphilis				 		2
Operation in	Hospit	al duri	ng preg	nancy	 		2
Taking purg	atives				 		1
Illegitimate	children	(unwa	nted)		 		3
Want of fire	and foo	od			 	₹	18

The ascertainable causes giving rise to death due to atrophy, debility, marasmus, etc., were as follows:—

Artificial	feeding							7
Want of o	completion	of cha	nges in	the fo	etal cir	culation	n at	
	birth							2
Illegitima	te infants	, want	of care					2
Twin								1
B.B.A., w	ant of car	re at bi	rth					1
Mother "	Ailing all	throug	h pregn	ancy '	,			1
2nd child	in eleven	month	8					1

Of the 8 cases of difficult labour, 7 were instrumental births. In the 8th a doctor was called by a handy woman to deliver the after head of a breech. The doctor certified this death as due to Asphyxia Pallida.

Unmarried Mothers and Illegitimate Children.

The number of illegitimate children born in the year was 156. A register of such children is kept in the office. Each child is visited once a month by a health visitor, and action is taken if the health visitor believes the child is suffering in any way. The same privileges are open to the unmarried mothers as to the married. The number of illegitimate deaths was 29.

Supply of Food and Milk.

Amount of dried milk given	 	2,130 lb. packets.
Amount of cocoa and milk given	 	896 lb. tins.

3,026 lbs.

In respect of 1,599 of these lb. gifts, it was found possible to keep accurate records of how the food was used when given for a month at a time. This is shown below.

Expectant mothers	 	 616 lbs.
Nursing mothers	 	 903 lbs.
Infants under 7 months	 	 67 lbs.
Infants over 7 months	 	 13 lbs.
		1.599 lbs

The mothers are beginning to understand that it is a more economic way, both in respect of money and of health, to feed themselves rather than to take the baby off the breast.

The amount given in respect of which accurate records as to the use to which it was put are not available was 1,427 lbs. The gifts were given in single packets as circumstances indicated, either to a toddler, to an infant as supplemental or complemental feed, or to a nursing mother to encourage her in breast feeding.

Co-ordination between the Maternity and Child Welfare Department and the School Medical Service.

Once a quarter the Centre cards of children who have reached the age of 5 are passed on to the School Medical Officer.

(3) INFECTIOUS DISEASES.

Puerperal Fever.

The cases notified were 15 of whom 5 died. Eight cases were removed to Holgate, three were nursed in their own homes by a district nurse, and four (slight) were nursed by their own friends. In three cases advantage was taken of the arrangement made by the Local Authority for bacteriological examinations by a bacteriologist in the town.

Puerperal Pyrexia.

The number of cases notified was 13. One turned out to be Scarlet Fever. All made a satisfactory recovery.

Ophthalmia Neonatorum.

Of the 12 cases notified 7 were attended to by a nurse from the District Nursing Association. One baby died of marasmus before the eyes had recovered. The 11 others made a complete recovery.

Measles.

Number of cases notified under 5 years of age, 444.

Number of deaths, 4.

All cases were visited by the whole time Measles nurse: 27 cases were nursed.

Poliomyelitis.

One case was notified. The child made a satisfactory recovery.

Pemphigus Neonatorum.

6 cases were notified by Midwives: 1 of a series of 3 by the same midwife died: the other 5 recovered.

Tuberculosis.

Number notified under 5: Pulmonary Tuberculosis 31: other forms 34. Number of deaths under 5: Pulmonary Tuberculosis 11, Meningitis 4, other forms 8.

Tubercular contacts admitted to Municipal Children's Wards, 5. One of the 5 died of Meningitis: the other 4 were discharged thriving.

GRACE H. GIFFEN DUNDAS,

Medical Officer Maternity and
Child Welfare.

TABLE I.—Vital Statistics of Whole District during 1926 and previous years.

9			BIRTHS	5	REGISTERED		Transferable Deaths		NETT DEATHS BELONGING TO THE DISTRICT				
Population estimated to	Nett Per Nett		ett	IN THE DISTRICT					1 Year Age	Ata	ll Ages		
	Population estin Middle of each	Uncorrected Number	Number	Rate	Number	Rate .	Of Non-residents registered in the District	Of Residents not registered in the District	Number	Rate per 1,000 Nett Births	Number	Rate	
. 1		2	3	4	5	6	7	8	9	10	11	12	13
1916		125,718	3,536	3,535	28,12	2,154	18.64	90	25	430	121	2,089	18.07
1917		For Deaths: 119.251 For Births: 132,931 For Deaths:	3,059	3,062	23.03	2,366	19.84	92	34	465	151	2,308	19.35
1918		115,752 For Births: 129,696 For Deaths	3,331	3,327	25.64	2,741	23.67	150	50	485	145	2,641	22.81
1919		127,142 For Births 132,444	3,534	3,531	26,66	2,437	19.16	132	34	493	139	2,339	18.39
1920		132,208	4,434	4,431	33.51	2,109	15.95	120	37	602	135	2,026	15.32
1921		133,400	4,240	4,218	31.62	1,967	14.74	106	32	501	118	1,893	14.41
1922		134,800	3,823	3,774	27.99	2,057	15.26	121	24	421	111	1,960	14.50
1923		135,400	3,726	3,728	27,53	1,876	13.85	139	28	321	86	1,765	13.03
1924		136,300	3,607	3,589	26.33	2,372	17-42	136	47	484	135	2,283	16.75
1925		136,200	3,503	3,501	25.70	2,123	15.58	167	28	342	97	1,984	15.56
1926		133,600	3,401	3,387	25.35	1,915	14.33	185	29	337	99	1,759	13.16

TABLE II .- INFANTILE MORTALITY, 1926. Nett Deaths from stated Cause

CAUSE OF DEATH		Under 1 week	1-2 weeks	2·3 weeks	3-4 weeks	Total under 4 weeks	4 weeks and under 3 months	3-6 months	6-9 month
Measles					2	2		1	
Whooping-Cough							6	3	10
Diphtheria and Croup									2
Abdominal Tuberculosis Other Tuberculous						92.5	1	2	
Diseases Meningitis							1		1
(not Tuberculous)								2	1
Convulsions		1	4	1	1	7	3	2	2
Bronchitis					2	2	9	5	5
Pneumonia (all forms)			1	1	1	3	9	8	14
Diarrhoea			1			1	1	3	2
Enteritis		1		2		3	8	9	8
Gastritis				1		1			* *
Syphilis		1				1	2		
Suffocation, overlying		1				1			
Injury at Birth		2				2			
Atelectasis		2				2			
Congenital Malformation	ıs	7	1	1		9	4	1	
Premature Birth Atrophy, Debility and		54	10	6	3	73	3	1	
Marasmus		12	5	1	3	21	10	6	4
Other Causes		1	5	1		7	3		5
Total		82	27	14	12	135	60	43	54

NETT BIRTHS IN THE YEAR :-			NETT DEATHS IN THE YEAR OF :					
Legitimate		3,231	Legimitate Infants		308			
Illegitimate		156	Illegitimate Infants		29			
Tota	1	3 387	Total		337			

various Ages under One Year.

-12 onths	Total Deaths under 1 year	Ayresome	Acklam	Cannon	Cleveland	Exchange	Grove Hill	Linthorpe	Newport	Ormesby	St. Hildas	Vulcan	TOTAL
	3			1.			1		1				3
7	26	1	1	5	3	2		1	2	::	6	5	26
	2							1			1		2
1	4			1						1	1	1	4
	2	1							1				2
	3								1		1	1	3
1 6	15			2	2	1	1	1	4	1	1	2	15
6	27			6	2		1	. 1	3	4	5	5	27
21	55		3	8	5	3	4		10	2	9	11	55
1	8			1		1			1	1	4		8
4	32			3	3	3	1	3	5	2	7	5	32
	1						1						1
	3										2	1 .	3
	1	1											1
	2								1		1		2
	2										1	1	2
	14	2	1	3		1	1	3	1		1	1	14
	77	6		12	5	6	6		7	9	19	7	77
2	43	3	4	7	6	1	2	1	9	2	7	1	43
2 2	17	2	2	1	1		1	1	3		3	3	17
45	337	16	11	-50	27	18	19	12	49	22	69	44	337
h Rai	te . Rate	16.22 68	18.25 57	36.10 114	24.69 95	16.99 120	23.50 60	15.49 64	31.44 121	25.31 67	37.56 142	27.05 133	25.35 99

TABLE III. Nett Deaths registe

	_							ADI	1E 1	11.	Nett	Dea	tins !	regis	te
		-					Ages	SAT	DEAT	н					
CAUSE OF DEATHS	At all ages	under one year	and under 2 yrs.	and under 3 yrs.	and under 4 yrs.	and under 5 yrs.	and under 10 yrs.	and under 15 yrs.	15 and under 20 yrs.	20 and under 25 yrs.	25 and under 35 yrs.	35 and unde 45 yrs.	45 and under 55 yrs.	55 and unde 65 yrs.	1 2 2
All Causes Certified .	. 1748	330	108	36	19	18	48	25	39	51	7.	107	100	011	
TT	. 11	7				10	40	20	39	51	74	137	192	211	4
Enteric Fever	. 2					-	-	-		-	-		-		H
Smallnov	1											2			H
Menelog		3	1												H
Scarlet Fever		100	. 100									* *			1
Whooning Cough	54	26	15	5					**						1
Diphthonia and Com-		20	3.33	2	- 3	4	1	**		1.0					
Influence	0.4	1	1	1	1										
Enveineles	0		100		1		1	1	2	6	2	3	3	6	
Pulmonawa Tubanatai		2							1				1		
Tuboroulous Moningiti-	0		2	5 2	1	1	6	8	10	21	26	27	22	10	
Othon Tuboroulous Di	0.5	4	2	-	1		2	1				* :		1	
Cancon Molismont Di	100			2			3	3	7	2		1	1		
Rhaumatia Form	1.0								1		2	12	34	46	7
Maningitie	1								1	1	1	2	1	2	
Organia Heart Disease		3	5	1		1	2	1				1	3		
Bronchitie	140	1	.:		1		2				5	15	22	33	7
Pnoumonia	. 142	24	4	1		1	2		1		2	8	10	20	6
Duonaka	1.40	8	9	3	**	4	4	2		6	9	8	15	11	1
Other Persington Di	0.1	47	41	11	6	1	8	1		2		10	2	3	1
Diamboso and Data to	=0	1	2			1	1		1		1	7	4		
Appendicitie and Touchlitie	-	40	9	1	2		1					2	2	1	8.
Circhosis of Liver	0				***		1	1	1		1	2		1	
Alacholism	. 2		**											1	
Nephritis and Brights Disease Puerperal Fever	42	1	1				3	2	2	2	1	3	9	5	1:
	. 5									4	1				
Other Accidents and Diseases of Pregnancy	10														
	13									2	4	7			
											1				
Malformation, including Premature Birth															
Violent De-41		120													
Quintila	100	1	4		2	1	4		2	2	2	5	6	6	-
											2		5	3	1
Other Defined Diseases . Diseases ill-defined or unknown		50	9	2	1	3	7	4	8	3	12	21	53	63	186
Symbilia	1											1			1
		3				1		1			1				
Encephalitis Lethargica Tetanus			1						1		2				
									1						١
Cerebrospinal Fever	1 3		1												
Continued Fever	1								1						
	1759	337	108	36	19	18	48	25	39	51	74	137	193	212	469
Inquests 133.											-		200	2.10	

Inquests 133.

during the year 1926.

stitutions	Nu	MBER O	DEA	THS AN	DEA	TH RAT	E IN	EACH W	VARD I	N THE	Borou	GН.
Deaths in Public Institutions	Ayresome	Acklam	Cannon	Cleveland	Exchange	Grove Hill	Linthorpe	Newport	Ormesby	St. Hildas	Vulcan	Totals
2						1					1	2
1			1	1		1 .		. 1				4
					• •							
1	1	2	10	6	3	3	1	4	2	14	8	54
5	1					1	1		1	1		5
2	2	2	3	5		2	3	3	4	3	7	34
2	10	1	15					20		1 00	15	2
56	16	6	15	12	9	7	7	20	9	26	15 1	142
4	1		2	2				1 4	2	6	2	8 25
18	4	2 9	2 17	1	6	16	1 18	12	18	26	16	167
78	18	-		11	2	3		1	10000	2	1	15
2 4	4	1 2	**	3				4	-	2	2	17
69	15	17	9	14	10	7	21	15	9	21	13	151
32	7	4	23	16	4	8	11	13	15	28	13	142
32	8	4	13	12	1	11	8	10	7	8	9	91
18	4	7	29	12	5	4	6	27	5	28	16	143
9	2	3	1	4	1		2		2	3	3	21
14			5	5	5	3	3	7	8	16	6	58
10	1		1		1	1		1	1	1		7
2							1				1	2
13	5	2	3	5	5	4	1	5	3	3	6	42
5		1	1			1		1		1		5
9	2		1		1		1	2	1	2	3	13
10	11	5	19	6	8	9	3	14	11	24	10	120
19 49	6	2	5	3		1	4	5	5	7	3	41
					3	2	1		2		3	11
180	48	35	44	28	21	40	48	38	37	49	34	422
			1				1					2
3	2			1						2	1	6
2	1			1			1		1			4
1						1						1
						1						1
	1											1
642	164	105	205	149	86	128	143	188	143	274	174	1759

TABLE IV.-Notifications of Infectious Disease received during the Year ending December 31st, 1926.

ed		latio	lsoH	1		:	6								-:	:									T
Removed			Hemli Hemli	1.				•	-	•		•			•										+
Rei			489W	62	:	364	:	:	:	:		70	62		9	00	67			:		:	:	:	
ugh			Λ ulcan	9	1	39	:	20	112	35		62	19		12	1-	1	:	1	:	:	Т		:	
Вого		8.8	St. Hild	4	6	53	-	9	122	30		33	19		50	12	:		60	:	;	00	:	:	
the]		2	Ormespì	=	13	39	10	10	201	41		15	17		6	4	:	:	63	-	:	:	:	:	
rd of		3	Newpor	9	ŭ	43	:	27	154	28		35	34		00	10	1	:	-	22	:	:	:	:	-
Wa Wa		96	Linthorp	10	10	24	:	19	105	159		+	3		63	co	:	:	1	63	:	:	1	:	
each		Ili	Н этотъ	4	-	43	П	20	181	192		6	00		6	0	-	:	:	П	:	П	:	-	
ed in		92	Ехсрап	9	9	22	П	14	65	39		9	11		11	4	1	:	:	1	:	-	:	:	
Notifi		pı	Clevelan	0.1	13	30	7	21	128	101		18	15		9	11	:	:	:	:	1	00	7	-	I
Total Cases Notified in each Ward of the Borough			Саппоп	00	10	31	:	24	203	66		25	22		00	11	:	:	03	_	:	1	:	:	I
tal C			Acklam	10	00	26	:	14	104	97		1-	10		6	+	:	:	:	1	:	:	:	:	Ī
Tot		θu	Ayreson	13	17	09	:	27	153	114		16	17		13	4	1	-	20	20	:	63	co	:	İ
			65 years and over	:	6	:	:	16	:	:		-	63		:	:	:	:	:	:	:	:	:	:	Ī
IED			and under 60 years	:	39	01	:	18	:	:		31	16		-	က	:	:		-	:	:	:	:	-
OTIF			25 and under 45 years	œ	21	18	10	45	65	1		99	44		-1	10	8	:	œ	-1	:	:	00	:	l
SES N		At Ages	and under u 25 years	15	14	51	63	30	46	18		23	35		11	00	63	-	1	10	:	:	-	:	
F CAS		At.	and under u	67	9	187	63	33	844	967		61	89		20	43		:	:	:	:	:	:	:	
NUMBER OF CASES NOTIFIED	7		and under u	24	4	125	:	48	528	385		16	13		20	00	:	:	:	:	1	:	1	:	
TUMB			Under un year	9	-	00	:	12	107	89		63	:		3	00	:	:	:	:	:	12	:	0.1	-
4	-	At		7.5	94	386	6	202	1528 10	965		190	175		92	7.0	10	1	15	13	1	12	10	0.1	1
	-	_	- 4	:	:	:	:	:	:	:	_	:	:		:	:	:	:	-	:	:	:	:	:	
											sis:			Other forms of Tuberculcsis:								um	28		
	BLE	SE									Pulmonary Tuberculosis:	:		abere								Ophthalmia Neonatorum	Encephalitis Lethargica	Cerebrospinal Fever	
	NOTIFIABLE	DISEASE		:	:		:		:	:	uber	:	:	T Jo	:	:	P.	Ver	ver	Puerperal Pyrexia		Neon	Let	Fer	
	Nor	D		В	90	ever	и	ia	xc		LA	200	ales	ms c	00	Females	Enteric Fever	Continued Fever	Puerperal Fever	Pyn	Poliomyelitis	nia 1	itis	inal	
				heri	pela	t Fe	-poz	nou	due	es	onar	Males	Females	forn	Males	emi	ic F	nuec	eral	eral	nye	alm	hal	rosp	
				Diphtheria	Erysipelas	Searlet Fever	Small-pox	Pneumonia	Chickenpox	Measles	ulm	1	H	ther	K	×	nter	ontin	nerp	dierp	olior	phtl	neel	reb	
				D	N	S	Si	P	5	M	P			0			E	ŏ	P	P	P	0	E	ŏ	

NOTIFICATION OF BIRTHS ACT, 1907.

TABLE V.-Summary of Births notified to the Medical Officer of Health during the year 1926.

al No. of Births filed excluding Still-births	Total	228	186	421	279	142	300	182	395	311	462	319	19	3244
	Eq.	-	61	63	63	9	9	03	4	10	6	4	c3	46
stillbirths	M.	7	ಣ	14	1	63	00	63	1	10	13	9	2	78
ng s	TOT.	236	191	437	283	150	314	186	406	326	484	329	26	3368
Total including Still births	F.	113	98	217	131	73	152	96	194	157	248	155	10	1632 3368
in _	W.	123	105	220	152	11	162	06	212	691	236	174	16	1736
ber	. ·	4	9	20	10	00	20	13	50	00	22	22	:	151
Dec'ber	W.	12	7	15	91	60	21	6	17	10	24	17	-	52
ber	ĵų.	00	00	15	4	-1	13	1-	14	9	15	26	:	118
Nov'ber	м.	10	00	14	4	6	6	C3	16	12	23	16	-	124 1
ber	í.	11	10	17	15	4	0	6	6	10	6	14	1	109
October	W.	12	7	22	11	9	10	9	22	13	17	11	63	139 1
	E.	00	9	14	9	5	13	-	13	111	55	14	1	120 1
Septe'ber	W.	00	11	24	6	6	9	00	18	6	14	14	1	31 1
	pi,	=	œ	12	4	00	91	12	=	9	55	13	:	123 13
August	M.	=	6	4	15	9	17	00	21	15	20 2	=		47 15
	F	00	4	80	=======================================	5	15]	00	19 2	20	19 2	12	1	35 14
July	М. 1	6	10	2 1	22	4	2 1	01	3	4 1	20 1	14 1	60	40 13
	F. N	1	00	7	61	7	16 1	4	12 1	18 1	15 2	8		7
June		0	-	2 1	13	5 1		0	3-900					5 12
	. W.	9 10	6 11	8 15			3 17	7 10	0 19	27	9 21	5 15	-	0 165
May	É4	16		18	9 18	00	13		20	14	9 19		65	3 140
	M.	10	6	25		0.75	14	9	15	19	19	11		148
April	Die .	00	=	22	12	60	12	13	17	14	22	16	:	150
A	M.	7	10	14	14	60	12	9	17	15	27	00	1	134
March	F.	15	15	22	21	6	00	6	17	15	19	21	63	173
	W.	6	14	30	13	9	17	11	16	10	18	27	1	172
January February	F.	10	-	21	=	-	13	63	18	17	24	90	:	133
Feb	W.	13	6	21	10	1-	14	5	19	15	19	16	:	148
uary	Die.	00	7	21	12	00	œ	5	21	23	24	12	4	153
Jan	W.	12	5	14	16	Ξ	13	7	19	10	14	14	1	136
		:	:	:	:	:	:	:	:	:	:	:	onts	
WARDS		Ayresome	Acklam	Cannon	Cleveland	Exchange	Grove Hill	Linthorpe	Newport	Ormesby	St. Hildas	∇ ulcan	Non-Residents	TOTALS

2,345 of these Confinements were attended by Registered Midwives.

1,019 ". " " Medical Practitioners.

4 ". " " Other Women (Neighbours or Unregistered Midwives)

3,368

TABLE VI.—Register

Influenza Erysipelas Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	5 8	75 8: 		47 80 38 15 82 70 16 60 136	33 22 22 77 2 977 21 166 688 103 87	28 29 18 54 14 6 107 38 28 58 163 148	36 3 13 110 8 9 7 121 63 100 135	30 2 50 73 26 13 1 1 123 60 17 62 100 92	18 1 92 2 92 8 2 108 28 29 67 155	22 2 11 81 17 16 2 126 45 25 	15 18 36 12 26 35 1 92 44 23	12 5 18 15 45 22 4 87 42 19	19 37 24 30 21 4 122 60 25 92	65 8 11 46 16 9 1 115 46 18 85	57 27 20 17 27 37 1 141 55 33 105	92 892 16 2 56 3 20 21 25 123 54 18 99	51 7 9 5 55 18 16 3 90 105 34	23 4 48 3 23 19 17 5 144 29 35 5	28 1 39 33 19 45 4 123 33 33	16698 37 70 28 54 29 5 2 135 2 38
Enteric Fever Smallpox Measles Scarlet Fever Whooping Cough Diph thera and Croup Influenza Erysipelas Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	5 8	1 3 5 4 15 5 17		47 80 38 38 15 82 70 16 60 136	166 33 222 77 22 97 211.166 688.103.87	29 18 54 14 6 107 38 28 58 163 148	3 13 110 8 9 7 121 40 26 63 100 135	2 50 73 26 13 1 1 123 60 17 62 100	1 92 2 92 8 2 108 28 29 67 155	2 11 81 17 16 2 126 45 25 	18 36 12 26 35 1 92 44 23 57	12 5 18 15 45 22 4 87 42 19	19 37 24 30 21 4 122 60 25 	65 8 11 46 16 9 1 115 46 18	57 27 20 17 27 37 1 141 55 33 105	16 2 56 3 20 21 25 123 54 18	51 7 9 5 55 18 16 3 90 	23 4 48 3 23 19 17 5 144 29 35	28 1 39 33 19 45 4 123 	37 70 28 54 29 5 2 135
Enteric Fever Smallpox Measles Scarlet Fever Whooping Cough Diphthera and Croup Influenza Erysipelas Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Inneumonia Inneumonia Inneumonia Inneumonia Inneumonia Interior Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases Of Pregnancy Congenital Deb'ty and Malform-	5 8	1 3 5 4 15 5 17		47 80 38 38 15 82 70 16 60 136	33 22 22 77 2 977 21 166 688 103 87	29 18 54 14 6 107 38 28 58 163 148	3 13 110 8 9 7 121 40 26 63 100 135	2 50 73 26 13 1 1 123 60 17 62 100	1 92 2 92 8 2 108 28 29 67 155	2 11 81 17 16 2 126 45 25 	18 36 12 26 35 1 92 44 23 57	5 18 15 45 22 4 87 42 19	37 24 30 21 4 122 60 25 	8 11 46 16 9 1 115 46 18	27 20 17 27 37 1 141 55 33 	2 56 3 20 21 25 123 54 18	7 9 5 55 18 16 3 90 105 34	4 48 3 23 19 17 5 144 29 35	1 39 33 19 45 4 123	70 28 54 29 5 2 135
Smallpox Measles Scarlet Fever Whooping Cough Diphthera and Croup Influenza Erysipelas Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Inheumonia Inheumo	5 8	1 3 5 4 15 5 17		47 80 38 38 15 82 70 16 60 136	33 22 22 77 2 977 21 166 688 103 87	29 18 54 14 6 107 38 28 58 163 148	3 13 110 8 9 7 121 40 26 63 100 135	2 50 73 26 13 1 1 123 60 17 62 100	1 92 2 92 8 2 108 28 29 67 155	2 11 81 17 16 2 126 45 25 	18 36 12 26 35 1 92 44 23 57	5 18 15 45 22 4 87 42 19	37 24 30 21 4 122 60 25 	8 11 46 16 9 1 115 46 18	27 20 17 27 37 1 141 55 33 	2 56 3 20 21 25 123 54 18	7 9 5 55 18 16 3 90 105 34	4 48 3 23 19 17 5 144 29 35	1 39 33 19 45 4 123	70 28 54 29 5 2 135
Measles	5 8 114 30 34 3110 11 24 2 67	1 3/5 4 15 5/17	6 1 7 62 0 5 7 12 	477 800 3882 15	22 22 7 2 97 21 16 68 103 87	29 18 54 14 6 107 38 28 58 163 148	13 110 8 9 7 121 40 26 63 100 135	50 73 26 13 1 1 123 60 17 62 100	92 92 8 2 108 28 29 67 155	11 81 17 16 2 126 45 25 	36 12 26 35 1 92 44 23 57	18 15 45 22 4 87 42 19	37 24 30 21 4 122 60 25 	8 11 46 16 9 1 115 46 18	27 20 17 27 37 1 141 55 33 	56 3 20 21 25 123 54 18	9 5 55 18 16 3 90 105 34	48 3 23 19 17 5 144 29 35	1 39 33 19 45 4 123 	70 28 54 29 5 2 135 2
Scarlet Fever Whooping Cough Diphthera and Croup Influenza Erysipelas Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Inneumonia In	8 14 30 34 34 24 2 67	5 4 15 5 17 75 8 6 1 47 5 17 12 37 6	7 62 0 5 7 12 	8 80 3 38 3 15 3 82 70 16 16 136 101	22 7 2 97 21 16 68 103 87	18 54 14 6 107 38 28 58 163 148	110 8 9 7 121 40 26 63 100 135	73 26 13 1 1 123 60 17 62 100	2 92 8 2 108 28 29 67 155	81 17 16 2 126 45 25 	12 26 35 1 92 44 23 57	15 45 22 4 87 42 19	24 30 21 4 122 60 25 	11 46 16 9 1 115 46 18	20 17 27 37 1 141 55 33 	3 20 21 25 123 54 18	5 55 18 16 3 90 105 34	3 23 19 17 5 144 29 35	39 33 19 45 4 123 	28 54 29 5 2 135 2
Whooping Cough Diphthera and Croup Influenza Erysipelas Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Inneumonia Inneu	114	15 5 17	0	38 315 3 82 5 70 16 60 136 101	22 7 2 97 21 16 68 103 87	54 14 6 107 38 28 58 163 148	8 9 7 121 40 26 63 100 135	26 13 1 1 123 60 17 62 100	92 8 2 108 28 29 67 155	17 16 2 126 45 25 	26 35 1 92 44 23 57	45 22 4 87 42 19	30 21 4 122 60 25 	46 16 9 1 115 46 18 	17 27 37 1 141 55 33 	20 21 25 123 54 18	55 18 16 3 90 105 34	23 19 17 5 144 29 35	33 19 45 4 123 	54 29 5 2 135 2
Diphthera and Croup Influenza Erysipelas Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis I Pneumonia , Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	14 :	17	7 15 	15 3 82 70 16 60 136 101	7 2 97 21 16 68 103 87	14 6 107 38 28 58 163 148	9 7 121 40 26 63 100 135	13 1 123 60 17 62 100	8 2 108 28 29 67 155	16 2 126 45 25 	35 1 92 44 23 57	22 4 87 42 19	21 4 122 60 25 92	16 9 1 115 46 18	27 37 1 141 55 33 	21 25 123 54 18 	18 16 3 90 105 34 	19 17 5 144 29 35	19 45 4 123 33	29 5 2 135 2
Influenza Erysipelas Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	30 :	75 8 23 5 6 1 	3 12 3 12 4 17 	3 82 70 16 60 136 101	2 97 21 16 68 103 87	 6 107 38 28 58 163 148	7 121 40 26 63 100 135	1 123 60 17 62 100	28 28 29 67 155	2 126 45 25 	1 92 44 23 57	4 87 42 19	4 122 60 25 	9 1 115 46 18 	37 1 141 55 33 	25 123 54 18 	16 3 90 105 34	17 5 144 29 35	45 4 123 33	5 2 135 2
Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	30 :	75 8: 23 5: 6 1: 	9 99 99 39 33 12 4 17	3 82 70 16 60 136 101	2 97 21 16 68 103 87	6 107 38 28 58 163 148	7 121 40 26 63 100 135	1 123 60 17 62 100	2 108 28 29 67 155	126 45 25 	1 92 44 23 57	4 87 42 19 	4 122 60 25 92	1 115 46 18 	1 141 55 33 105	123 54 18 	3 90 105 34 	5 144 29 35	4 123 33	2 135 2
Pulmonary Tuberculosis Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	114 30 :: 34 34 34 34 34 34 36	75 8: 	9 99 3 12 4 17 5 56 1 101 1 60	82 70 16 60 136 101	97 21 16 68 103 87	107 38 28 58 163 148	121 40 26 63 100 135	60 17 62 100	108 28 29 67 155	126 45 25 75	92 44 23 57	87 42 19 	122 60 25 92	115 46 18 	141 55 33 105	123 54 18 	90 105 34 	144 29 35	123 33	135 2
Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	30 :	23 5 6 1 	3 12 4 17 	70 16 60 136 101	21 16 68 103 87	38 28 58 163 148	40 26 63 100 135	60 17 62 100	28 29 67 155	45 25 75	44 23 57	42 19	60 25 92	46 18	55 33 105	54 18	 105 34 	29 35	33	2
Tuberculous Meningitis Other Tuberculous Diseases Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	30 :	23 5: 6 1: 	3 12 4 17 	70 16 60 136 101	21 16 68 103 87	38 28 58 163 148	40 26 63 100 135	60 17 62 100	28 29 67 155	45 25 75	44 23 57	42 19 	60 25 92	46 18 	55 33 105	54 18 	105 34 	29 35	33	
Cancer, Malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	34 4 1110 11 24 3 67	6 1 	4 17 	16 60 136 101	16 68 103 87	28 58 163 148	26 63 100 135	17 62 100	29 67 155	25 75	23 57	42 19 	25 92	18	33 105	54 18 	34	35		38
Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	34 4 110 11 24 2 67	47 50 17 12 37 6	5 56 1 101 1 60	60 136 101	68 103 87	58 163 148	63 100 135	 62 100	67 155	75	57		92		105				33	
Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	34 4 110 11 24 3 67	47 50 17 12 37 6:	5 56 1 101 1 60	60 136 101	68 103 87	58 163 148	63 100 135	62 100	67 155	75	57		92		105			5		35
Organic Heart Disease Bronchitis	34 4 110 11 24 3 67 6	47 50 17 12 37 6	5 56 1 101 1 60 	136 101	68 103 87	58 163 148	63 100 135	62 100	67 155	75	57		92		105				3	7
Bronchitis	24 : 24 : 2 :	17 12: 37 6: 	1 101 1 60 	136 101	103 87	163 148	100 135	100	155	1000		88		85		99		25	26	29
Pneumonia ,, Broncho Other Respiratory Diseases Diarrhoea and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	24 : 2 : 67 :	37 6	1 60	101	87	148	135	1550	287	107							66	115	105	95
Other Respiratory Diseases	2 67		3 5					92	100	1000	119	221	176	198	202	165	119	126	143	154
Other Respiratory Diseases Diarrhoea and Enteritis	67	:	3 5						120	144	148	397	134	297	200	157	154	180	158	275
Diarrhoea and Enteritis Appendicitis and Typhlitis	67			3			2.5													
Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-		43 9	- 20		3	5	5	7	7	11	8	22	3	7	18	8	4	21	32	29
Cirrhosis of Liver			7 30	105	63	108	61	98	58	92	100	21	108	124	88	106	181	11	90	82
Alcoholism Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy																				
Nephritis and Brights Disease Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-	2	8 1	8 10	4	9	12	9	19	18	12	13	12	16	27	12	19	16	13	13	11
Puerperal Fever Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-		1 .		3	1	1			1	1	1		4	1	4		1	1	1	5
Other Accidents and Diseases of Pregnancy Congenital Deb'ty and Malform-																		24	25	16
of Pregnancy Congenital Deb'ty and Malform-							7	2.5		1					5			2	2	2
Congenital Deb'ty and Malform-																				
		1 4	5 8	9	6	17	18	15	8	16	9	10	12	13	8	12	9	5	7	7
ation, inc. Premature Birth																				
		89 116			81	148	155	147	142	173	133	144	165	157	168	198	180	185	212	186
Violent Deaths	49 :	25 43			53	52	44	36	25	32	42	50	32	32	49	44	42	39	45	47
Suicide						1			**		**		1					1		
Other defined Diseases 3	315 37	74 24	1 278	286	309	341	331	314	295	323	323	442	372	332	421	392	428	330	396	276
Diseases ill-defined or unknown					1													12	9	21
Syphilis		3	2 10	5	10	12	11	13	19	16	9	10	11	7	20	4	4	5	9	8
Typhus Fever							1			1										
			1.0						**		**									1
Murder, &c																				
				**	111															
												**								
							**													
				2.	**								2.							
			.,																	
																				**
Continued Fever							**													

eaths-1876 to 1926 (corrected and brought up-to-date).

1899	1300	1901	1903	1903	1904	1905	1906	1907	1908	1909	1910	1161	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1000
12	0.0	-	5.0	63	25	69	69	828	=	100	14	2.4	54	93	62	10	48	51	20	45.0	800	001	008	007	000	500	100000
91212	20076	91317	93354	95013	96684	98369	100069	101783	103511	105255	107014	105124	106554	107993	126452	116901	115548	119251	115752	127142	132208	133400	134800	135400	136300	136200	100
23	17	31	23	24	18	19	15	15	21	18	10	10	9	4	6	4	8	10	2	2	1	1					
		0.1					10														1				2		
68	25	43	3.0	67	39	71	23	97	99	62	11	76	183	51	64	198	9	159	12	203	43	48	9	78	25	53	1
13	14	27	42	7	11	11	15	8	5	4	3	8	23	23	36	11	16	3	4	10	6	19	4 05	18	15	19	
41	39	32	31	15	25	43	40	49	7	69	32	79	7	23	60	49	27	39	57 25	35	12	13	35	10	76	13	
14	5	92	63	45	19	43	38	41	38	23	39	28	10	22 11	55 13	47 20	52 13	11	353	149	16	25	81	18	141	39	
19	28	9	5	15	4	5	6 4	24	14	18	2	3	3	3	6	1	3	**	1	3	1	2	2	9	6	5	
31	158	123	123	120	123	134	116	144	125	135	100	119	116	127	169	161	160	172	155	135	142	133	141	156	200	173	1
20	16	20	28	28	25	20	14	17	19	27	14	15	21	16	17	25	14	7	19	8	10	4	11	16	7	15	4
64	73	82	53	61	70	68	40	51	52	41	39	50	35	32	37	44	30	49	43	24	26	25	18	18	32	34	
51	67	53	42	55	69	68	70	85	68	88	76	76	72	94	92	100	79	103	97	111	105	114	126	153	137	131	1
6	4	8	7	5	1	8	10	9	11	7	6	5	3	8	8	4	1	5	3	3	18	11	24	15	11	7	
													29	37	41	51	44	25	34	13	19	24 123	15	20 120	18	164	1
36	147	134	125	137	131	143	157	156	136	143	109	134	132	133	152	146	125	109	162	122 182	114	165	114	119	210	167	i
34	158	117	87	240	109	119	109	119	110	140	125 351	139	141	147	186 260	173 488	151 365	390	634	207	178	155	172	127	141	135	I.
97	543	285	306	346	260	371	210	435	353	402	301	195		133	135	100	300	000		207	161	140	211	126	338	198	1
16	31	19	19	22	30	27	24	25	23	20	24	24	29	24	46	29	25	37	33	40	36	34	24	18	28	23	
66	182	188	109	160	197	148	229	92	226	110	155	160	50	119	193	144	114	124	112	108	125	121	53	53	57	39	1
													6	6	7	2	2	3		8	5	4	6	7	5	11	
15	11	8	11	14	11	11	18	18	10	10	12	6	11	15	9	6	6	4	4	4	5	3	5	2	1	8	
13	11	5	6	6	5	2	2	3			3	2	3	2	3	2	4		1	1	4	1	4		**	95	
29	24	28	24	20	29	15	29	29	19	36	27	24	30	56	43	48	45	41	24	25	29	34	33	34	32	35	1
2	3	2	1	5	4	1	3	2			4	1		3	7	2	2	2	1	4	7	4					
8	11	12	10	22	13	16	16	13	8	10	9	6	11	15	9	12	12	16	10	4	7	8	7	11	9	13	
95	231	219	242	222	194	189	235	200	202	232	187	178	196	182	240	195	177	163	158	165	179	128	118	136	150	124	1
59	70	78	72	59	50	59	55	63	52	46	48	47	60	57	66	57	83	59	64	65	55	59	60	63	55	64	1
	2	4	6	4	3	5	4	2	9	4	12	2	5	13	6	9	4	550	500	100	509	13	12 446	415	408	442	4
01	483	412	422	457	447	446	428	382	418	383	370	448	346	392	28	538 15	477 39	550 32	502 25	469 20	6	10	20	5	8	26	1
6	40	22	27 10	36	18	12	35	14	26 15	25 10	25 6	26	21	6	11	10	00				13	9	12	11	4	4	
13		9	10	0		1.0		0	10	10																	1
									1				1														1
1							3		2	3	1	1	2	2							2	2	1	1		1	1
	1								5	5	1					4	2	3	3	1				1		1	
			1	1																	1:					1	1
																					1					2	1
																					2	1	1		2	1000	1
	••																	1			1	1		1	4	3	1
															1::					1							1
										1																	1
			**										100	1000				1			-			-	-	-	-

 $[\]bullet$ Nett Deaths from this year onwards.

TABLE VII.-Birth-rate, Death-rate, and Analysis of Mortality during the year 1926.

(Provisional figures. The rates for England and Wales have been calculated on a population estimated to the middle of 1926, while those for the towns have been calculated on populations estimated to the middle of 1925. The mortality rates refer to the whole population as regards England and Wales, but only to civilians as regards London and the groups of towns).

	Вікти-		A	NNUAL D	ANNUAL DRATH-RATE PER 1,000 POPULATION.	CE PER 1,	000 Port	LATION.			RATE PER 1,000 BIRTHS.	PER IRTHS.	PERCENTAGE OF TOTAL DEATES	PERCENTAGE TOTAL DEATES	
	RATE PER 1,000 TOTAL POPULA- TION	All	Enterlo Fever	rod-llem8	Measies	Scarlet Fever	Whooping Cough	Diphtheria	Luffuenza	Violence	Diarrhoea and Entertits (under Two years)	Total Deaths resy and reban	Causes of Death certified by Registered Medical Practitioners	Inquest Cases	Uncertified Causes of Death
England and Wales	17.8	11.6	0.01	0000	0.09	0.02	0.10	0.07	0.22	0.47	8.7	02	91.8	7.2	1.0
105 County Boroughs and Great Towns, including London	18.2	11.6	0.01	0.00	0.12	0.02	0.10	01.0	0.22	0.43	11.8	65	92.0	7.5	0.5
158† Smaller Towns (1921 Adjusted Populations 20,000-50,000)	17.6	10.6	0.01	00'0	0.07	0.03	0.11	90"9	0.23	0.40	6.6	67	92.6	6.0	1
London	17.1	11.6	0.01	0.00	0.20	0.02	0.00	0.12	0.17	0.48	311.8	7-9	9708	4.6	0.0
Middlesbrough	23,35	13.16	10.0	0.00	0.03	0.00	0,40	0.03	0.25	0.39	14.4	66	91.76	7.61	0.63

† Hanwell U.D. having been added to Ealing M.B. on the 1st October, 1926, the figures relate to 168 towns for the first nine months and to 157 towns for the rest of the year.