# [Report 1926] / Medical Officer of Health, Essex County Council.

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ADMINISTRATIVE COUNTY OF ESSEX.

# REPORT

OF THE

# MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1926.

VILLIAM A. BULLOUGH, M.B., M.Sc., D.P.H., county medical officer of health.

Chelmsford:

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# PREFACE.

To the Chairman and Members of the Public Health and Housing Committee of the Essex County Council.

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Sani

Mal

I have the honour to submit to you my Eighth Annual Report for the Administrative County for the year 1926. This is the 37th Report which has been issued, and at the request of the Ministry of Health is devoted in the main to a summing up of the year's work for which the County Council is primarily responsible. Consequently, the report does not give the same detail as in last year's Survey Report.

The following table presents a comparative summary of the position in the Administrative County in respect to Birth-rate, Death-rate, and Infant Mortality:—

	1926.			1921-1925.					
	Birth- rate.		eath- ite.	Infantile Mortality.	Birth- rate.		Death- rate.		Infantile Mortality.
Essex	16.8	9		52	18.3		10.4		53
England & Wales	17.8	11	.6	70	19.9		12.2		76

The Birth-rate continues to decline, but fortunately the Death-rate remains low so that there is still a natural increase of population each year.

Steady progress and consolidation in the health administration of the County marked the year 1926. The Medical, Nursing and Clerical Staff have been strengthened with excellent results. The report of Dr. Pearse, an Inspector of the Ministry of Health, on Combined Medical Service in Essex, given on pages 32 to 38 is very interesting. A synthesis or re-union of the various health services in a suitably sized area under a common administration is the main objective in modern health administration.

The campaign against Tuberculosis has been strengthened during 1926 in various ways, the most important being the appointment of Dr. W. Burton Wood, a member of the Honorary Staff at the Victoria Park Hospital, London, as Consulting Officer for Pulmonary Tuberculosis. This appointment has abundantly justified itself.

The County lost the services of Dr. A. G. Wilkins after a short but honourable service, particularly in connection with Harold Court Sanatorium.

One of the most important health projects of recent years is the playing-field movement. Every village and hamlet should have a playing-field kept in decent order for games for young and old of both sexes.

The loss of life and health associated with childbirth is likely to be reduced by the appointment of an Obstetric Specialist and arrangements for institutional treatment.

The campaign for Clean Milk has been pursued with great activity, and Essex may regard itself as a pioneer in this most important health movement.

The number of new houses erected continues to be satisfactory but a great many more are required to relieve overcrowding and to replace insanitary dwellings.

I desire again to record my high appreciation of the co-operation and counsel of yourself and members of the Committee during my eighth year of office. Unfortunately, my predecessor, Dr. J. C. Thresh, was stricken with illness during the year which deprived us of his unrivalled knowledge and experience in County Public Health matters. I am indebted to the Medical Officers of Health and other officials of the Local Sanitary Authorities for their co-operation, and to the Medical, Dental, Nursing and Clerical Staffs for their loyal services.

I am especially indebted to the Chief Assistant Medical Officer, Dr. T. P. Puddicombe, the County Sanitary Inspector, Mr. A. Marsh, and to the Chief Clerk, Mr. J. Colman, for their loyalty and help throughout the year.

W. A. BULLOUGH,

County Medical Officer.

Public Health Department, Duke Street,

CHELMSFORD:

10th June, 1927.

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# PUBLIC HEALTH AND HOUSING COMMITTEE.

Chairman—Alderman S. W. Robinson.

Vice-Chairman—Councillor A. M. Mathews.

#### ALDERMEN-

J. H. Burrows

W. S. Chisenhale-Marsh

C. E. Gooch

Sir Christopher G. Musgrave

E. W. Tanner

#### Councillors-

Uri

P. Astins

Dr. J. P. Atkinson

F. P. Brindley

A. W. Bristow

A. Brooks

Major E. N. Buxton

B. C. Custerson

C. W. Daines

C. Eves

A. G. Giller

W. A. Hurry

J. Parish

W. T. Potts

C. S. Richardson

F. D. Smith

Major A. P. W. Wedd

Miss F. Wilde

E. G. Wright

E. J. Wythes

# MEDICAL AND NURSING SERVICES JOINT SUB-COMMITTEE.

ALDERMEN-

J. H. Burrows (Chairman)

S. W. Robinson

Councillors-

Dr. J. P. Atkinson

Major E. N. Buxton

E. A. Hibbs .

W. A. Hurry

A. M. Mathews

E. J. Wythes

Miss U. B. Chisenhale-Marsh.

#### TABLE #I.

Showing Record of Receipt of Annual Report for 1926 from each Local Medical Officer of Health.

	LOCAL	MEDICAL OFFICER OF HE	ALTH.	D
	Sanitary District.	Medical Officer of Health.		Date Annual Report received.
U	rban—			
	Barking	Kerr Simpson	1.77	
	Braintree	P. J. Gaffikin		
	Brentwood	*S. Frazer		
	Brightlingsea	*E. P. Dicken		
	Buckhurst Hill	*C. R. Dykes		31st May, 1927
	Burnham-on-Crouch	*T. D. White		
	Canvey Island	*J. N. Wheatley		20th May, 1927
	Chelmsford B	R. H. Vercoe		
	Chingford	M. Barker		
	Clacton-on- Sea	W. A. Milne		31st May, 1927
	Colchester B	W. F. Corfield		
	,, Port	*T. C. Brentnall		12th April, 1927
	Dagenham	+ A. Ball		20th May, 1927
	Epping	*H. A. Watney		
	Frinton-on-Sea	*G. Craigie Bell		
	Grays	W. T. G. Boul		
	Halstead	J. S. Ranson		
	Harwich B	*G. Ford Porter		
	,, Port	* "		12th April, 1927
	Hornchurch	A. Ball		
	Ilford B	A. H. G. Burton		31st May, 1927
	Leyton B	J. F. Taylor		
	Loughton	*A. Butler Harris		20th May, 1927
	Maldon B	*H. Reynolds Brown		
	" Port …	",	***	0011 35 1005
	Romford	A. Ball		20th May, 1927
	Saffron Walden B.	S. R. Richardson		
	Shoeburyness	N. S. R. Lorraine	•••	
	Tilbury	W. T. G. Boul		00/1 15 1000
	Waltham Holy Cross	*P. Streatfield		20th May, 1927
	Walthamstow	J. J. Clarke	•••	
	Walton-on-the-Naze	*J. C. Brockwell	•••	
	Wanstead	*P. Macgregor	***	
	West Mersea	W. H. Alderton	***	0001 34 1005
	Witham	‡E. C. Gimson		20th May, 1927
	Wivenhoe	*G. T. Kevern		12th April, 1927
	Woodford	*R. Vere Hodge		20th May, 1927

<sup>\*</sup>Part-time Medical Officer of Health.

<sup>+</sup>Succeeded by Dr. E. W. C. Thomas on 4th April, 1927.

<sup>‡ ,,</sup> Dr. J. S. Bradshaw on 20th May, 1927.

(1)

		Data Annual Danaut
Sanitary District.	Medical Officer of Health.	Date Annual Report received.
114/41—		
Belchamp	J. S. Ranson	***
Billericay	*J. Douglas Wells	
Braintree	P. J. Gaffikin	
Bumpstead	A. Morgan	··· reduct
Chelmsford	J. Macdonald	12th April, 1927
Dunmow	P. J. Gaffikin	
Epping	*W. F. Erskine	
Halstead	J. S. Ranson	
Lexden and Winstree	W. H. Alderton	
Maldon	J. Macdonald	20th May, 1927
Ongar	*A. S. David	A.
Orsett	*W. Allingham	
Rochford	J. Macdonald	20th May, 1927
Romford	A. Ball	31st May, 1927
Saffron Walden	S. R. Richardson	
Stansted	R. F. Dunn	
Tendring	J. Ramsbottom	

<sup>\*</sup>Part-time Medical Officer of Health.

#### STAFF

On 31st December, 1926.

## (1) Medical.

- (a) County Medical Officer, School Medical Officer & Chief Tuberculosis Officer— W. A. Bullough, M.B., Ch.B., M.Sc., D.P.H.
- (b) Chief Assistant County Medical Officer—
  T. P. Puddicombe, D.S.O., M.B., B.S., M.R.C.S., L.R.C.P., D.P.H.
- (c) Senior Clinical (part-time) Tuberculosis Officer—
  W. B. Wood, M.A., M.D., B.Ch., M.R.C.P., D.P.H.
- (d) Assistant County Medical Officers, performing combined duties of School Medical Inspector, Tuberculosis Officer and Child Welfare Officer for County Council, and also holding the appointment of Local Medical Officer of Health under Combined Medical Service Scheme—

Qualifications. .. M.C., M.R.C.S., L.R.C.P., D.P.H. Lexden and Winstree W. H. Alderton .. M.R.C.S., L.R.C.P., D.P.H. .. M. Barker .. Chingford P. J. Gaffikin ... M.C., M.D., B.Ch., B.A.O., D.P.H.. Braintree .. M.D., Ch.B., D.P.H., F.R.S. (Edin.) N. S. R. Lorraine Shoeburyness .. M.B., Ch.B., D.P.H. .. W. A. Milne .. .. Clacton J. Ramsbottom .. M.B., Ch.B., D.P.H. .. .. Tendring .. Halstead J. S. Ranson .. .. M.R.C.S., L.R.C.P., D.P.H. S. R. Richardson .. B.A., M.D., B.Ch., B.A.O., D.P.H.. Saffron Walden .. B.A., M.R.C.S., L.R.C.P., D.P.H.. Chelmsford (S.M.I. only R. H. Vercoe .. for County Council) W. T. G. Boul.. .. M.D., Ch.B., D.P.H. .. .. Grays

(e) School Medical Inspectors and Child Welfare Officers (Whole-time County Council) -

Maud Bennett (Miss) . L.R.C.P., L.R.C.S. . . . Orsett

M. D. Rankine (Miss) . M.B., Ch.B., D.P.H. . . Braintree

E. U. Vawdrey (Mrs.) . L.R.C.P., L.F.P.S. . . Woodford

Charlotte H. Brown (Mrs.) L.R.C.P., L.R.C.S., M.D. (Brux.) . Romford

- (f) Tuberculosis Officers-
  - (i) Consulting Surgeon in Surgical Tuberculosis—
     Sir Henry J. Gauvain, M.C., M.A., M.D., B.Ch., M.R.C.S., L.R.C.P.
  - (ii) Whole-time. (County Council).

.. M.R.C.S., L.R.C.P., T.D.D., D.P.H. Leyton P. L. T. Bennett L. S. Fry .. B.A., M.B., Ch.B., M.R.C.S., Epping (also acts as L.R.C.P., D.P.H. S.M.I. & C.W.M.O.) .. M.D., B.Ch., D.P.H. .. Brentwood (also acts as W. Harvey S.M.I. & C.W.M.O.) .. M.A., M.D., D.P.H., LLB. Walthamstow J. Sorley Harold Court San. A. G. Wilkins .. .. M.B., Ch.B. .. Romford .. Ilford W. L. Yell .. M.B., Ch.B., D.P.H. ..

# (iii) Part-time. (County Council).

Name.	Name. Qualifications.		Centre.
W. F. Corfield		M.D., D.P.H	 Colchester
K. Simpson		M.D., M.R.C.P., D.P.H	 Barking
		(See also d).	

# (g) County Bacteriologist-

J. F. Beale .. B.A., M.R.C.S., L.R.C.P., D.P.H.

# (2) County Sanitary Inspector:

A. Marsh, M.R. San.I. and Cert. Insp. of Meat and other Foods.

# (3) Health Visitors.

Chief Health Nurse: D. M. Landon, Gen. Training, Cert. Mid. & R.S.I. (Also County Superintendent, Essex County Nursing Association).

# (a) Whole-time County Council.

			Duties	under	taken.
Centre.	Name.	Qualifications.	T.B.	S.N.	C.W.
Stansted	Chittenden, A. E.	Gen. Training & Cert. Midwife	Yes	Yes	Yes
Braintree	Skey, A. F.	Gen. Training & Cert. Midwife	71		"
Brentwood	White, G. M.	H.V. Cert. Gen. Train- ing & Cert. Midwife	"		
Billericay	Hinton, A. L.	Board of Education Cert. & Cert. Mid.	"		
Tendring	Wallace, A. C. G.	Gen. Training & Cert. Midwife	"	**	**
,,	Steele, M	Gen. Training	.,	.,	33
Dunmow	Bright, R.	" & Cert. Mid.	,,	**	,,
Epping	Myers, S. J.	** **	***	.,	11
Halstead	Jossaume, J.		21	23	17
Maldon	Clapson, C. R.	511	11	**	91
Maldon R. and					
Burnham Maldon R.	Tansley, B. M.	, ,,	',	**	,,
(North)	Meachen, N. V.	**	,,	**	
Ongar	Maun, R. L.	San. Training & Cert. Midwife	**		
Saffron Walden	Woodman, E. M.	Gen. Training & Cert. Midwife		91	
Belchamp	Starr, G. M.		**		
Witham	Watson, H. J.	11 11	.,	,,	**
Rochford	Smith, E. M.	,, ,,		3.0	
11	Richardson, P. M.	., ,, ,, & R.S.I.	.0		"
Chingford	Waterhouse, M.	King's College Cert.	- 51	12	
Buckhurst Hill	Glover, E.	Gen. Training, Cert. Midwife & R.S.I.	.,,	"	,

		1	Duties u	ındertak	en for (
Centre.	Name.	Qualifications.	T.B.	S.N.	C.W.
Chelmsford	Franks, E. L.	Gen. Training & Cert.	11	.,	No
		Midwife			
Woodford	Carnall, E. F.	Gen. Training	**	11	13
Orsett	Wall, A. D.	,,	23		3)
Romford	Newby, A. E.	.,	,,		.,,
**	Philpott, A. F.	" & Cert. Mid.	31	3.5	
Dagenham	Richards, E. F.	Board of Education	**	11	27
		Cert, & Cert. Mid.			
(b) W	hole-time Tubercule	osis Nurses.			
Uford	Martin, M.	Gen. Training	17	No	,,
Leyton	Griffin, M. W.	Board of Education	,,	.,	"
Marketon Comments		Cert., Cert. Mid. &	-		1770
		R.S.I.			
,,	Lamborn, E.	Gen. Training, Cert.	.,	.,	33
		Mid. & R.S.I.			
.,	Prior, E. G.	Gen. Training & Cert.	,,		**
		Midwife		10000	
Walthamstow	Purves, D.	Sanatorium Training		,,	,,
11	Brightman, A.	Gen. Training	,,	,,	31
	Davenport, M.	Cert. Mid.	**		
-"		& R.S.I.			
	hole-time, but only	giving part-time to Cour	nty Co	uncil.	
Lexden and					
Winstree and	T. T. T.	0 m : 1 . 0 0 :	77	37	77
Wivenhoe	Ling, L. E.	Gen. Training & Cert.	Yes	Yes	Yes
		Midwife			
Lexden and	* 1 ***				
Winstree	Jackson, M, J.			"	No
Brays	Moorman, E. H.	Gen. Training	**	"	"
"	Button, E. L.	Cert. Mid. & experience		**	- 11
		as H. V.			
Filbury	Marsh, E. J.	Gen. Training & Cert.	211.	,	**
		Midwife			
	Page, S. V. B.	0 0	**	"	**
Colchester	Sasse, A. W.	Experience as H.V.	**	No	"
Harwich	Cockin, E. J.	Gen. Training & Cert.	**	1.9	11
		Mid. & R.S.I.			
(d) D	istrict Nurses actin	g as Health Visitors.			
Clacton	Webb, B. V.	Gen. Training & Cert.	,,	Yes	No
		Midwife			
Walton-on-the-					
Naze	Sollars, A.	Cert, Mid.	12		Yes

# PART I.

#### POPULATION.

The population of the Administrative County at the Census in 1921 was 920,141. The Registrar-General has again furnished separate figures in connection with the estimated population for the year ended 31st December, 1926, namely:—

- (1) For calculating birth-rate, the figure which includes civilian and military population is ... 997,600
- (2) For calculating the death-rate, the figure which includes only eivilian population is ... ... 991,700

A common population figure (estimated) was, however, furnished by the Registrar-General for every Sanitary District, with the exception of Colchester Borough, Harwich Borough, Shoeburyness Urban District, and Billericay Rural District, each of which contains an appreciable non-civilian population.

The following changes in the Sanitary Districts have taken place during the year 1926; two urban districts have received Charters of Incorporation, viz., Ilford and Leyton, and the following new urban districts were constituted:—

Canvey Island, formerly in Rochford Rural District.

Dagenham,

Romford

Hornchurch,

" Romford ,

West Mersea

Lexden & Winstree Rural District.

Infa

The usual Summary, showing average number of persons per acre and acres per person, is set out below:—

#### TABLE II.

			Population.			
	Area in Acres, 1921.	Census		mated ion, 1926.	Persons per acre.	Acres person.
	1021,	1921.	For Birth- rate.	Fcr Death- rate.	(Calculated on Census figures).	
Municipal Boroughs (7)	 37,606	303,296	326,724	321,624	8:06	0.12
Urban Districts (27)	 85,400	366,752	388,210	387,610	4.29	0.53
Rural ,, (17)	 841,437	250,093	282,666	282,466	0.30	3:36
	964,443	920,141	997,600	991,700	0.95	1.05

#### VITAL STATISTICS.

#### Birth-rate.

The birth-rate for the Administrative County was 16.8 for 1926, as compared with 7.1 for 1925; the rate for England and Wales for the year 1926 being 17.8.

Table XXVI. in Part IV. gives the following highest and lowest rates: -

Highest		Lowest.			
Dagenham U.	 32.8	Canvey Island U.		8.2	
*Tilbury U	 23.0	*Frinton-on-Sea U.	***	9.5	
*Romford R.	 21.8	West Mersea U.		10.0	
*Barking U.	 21.0	Clacton-on-Sea U.		11.7	
*Shoeburyness U.	 20.2				

Similar remarks in regard to those districts marked with an asterisk were made in the Report for 1925.

#### Death-rate.

The death-rate from all causes in the Administrative County for 1926 was 9.9, as against 11.6 for England and Wales and 10.3 for the County last year.

On page 14 Table III. is given, showing the rates for the various Sanitary Districts from which the following highest and lowest rates are quoted:—

Highest.		Lowest.		
Wivenhoe U.	 16.3	Canvey Island U.		6.2
Bumpstead R.	 14.5	West Mersea U.	***	6.5
Halstead U.	 14.1	Frinton-on-Sea U.		8.1
Ongar R	 13.2	Chingford U		8.5

# Infant Mortality.

The infant mortality-rate for the Administrative County was 52 for the year 1926, as compared with 52 for 1925, the average for the previous five years being 53. The rate for England and Wales for the year 1926 was 70.

In Belchamp R. and West Mersea U. no deaths of infants under one year of age occurred, whilst the following districts record the low rates shown:—

Loughton U.	 8
Brightlingsea U.	 17
Braintree U.	 19
Stansted R.	 21
Braintree R.	 25

On page 14 Table III. sets out the rates for each Sanitary District.

# TABLE III.

SHOWING THE BIRTH-RATE, DEATH-RATE AND INFANT MORTALITY FOR THE YEAR 1926 AND THE AVERAGE FOR THE 5 YEARS 1921-25.

	Birth	ı-rate.	Deat	h-rate.		Infantile	e Mortality.	
SANITARY DISTRICTS.						19	26.	
	1926.	1921-25.	1926.	1921-25.	1926.	Legiti- mate.	Illegiti- mate.	1921-25 (Average)
JRBAN								
Barking	21.0	23.6	9.4	9.8	60	57	154	69
Braintree	14.7	17.8	10.1	11.7	19	19	-	36
Brentwood	12.6 13.8	15.9 16.7	9.8	10.4	67	59	200	56
Brightlingsea Buckhurst Hill	14.8	17 6	7:9	12:3 10:3	17 39	17 · 27	250	49 56
Burnham-on-Crouch	15.2	14.1	12.3	13.0	38	40	200	52
Canvey Island	8.2	-	6.2		111	121	-	-
Chelmsford B	15.4	17.1	10 2	9.9	62	58	222	41
Chingford	19.8	17:9	8.5	9.6	44	45	100	53
Clacton-on-Sea Colchester B	11.7 16.2	13.0	10.6	10.1	63 62	59 63	167 45	29
Dagenham	32.8	10.1	9.5	100	93	90	300	53
Epping	13.8	15.4	11.4	12.6	47	48		60
Frinton-on-Sea	9.5	12.8	8.1	6.7	50	_	333	43
Grays	19.2	20.7	10.3	9:6	47	42	143	52
Halstead	13.4	17.2	14.1	12:3	51	53	and the second	53
Harwich B Hornchurch	18·7 17·5	21.6	9.4	10.6	48 59	50 59	_	61
Ilford B	15.0	16.8	8.3	9.2	45	43	147	48
Leyton B	15.6	17.5	9.7	9.9	65	63	134	56
Loughton	18.6	16.0	7.4	9.6	8	9	-	17
Maldon B	15.6	16.0	10.3	12.2	72	74	-	35
Romford Saffron Walden B	15.8 12.3	18.0 14.5	11:1	11:1	58 45	47 49	227	53 62
Shoeburyness	20.5	21.7	9.4	9.2	51	54	_	55
Tilbury	23.0	24.9	8.9	93	68	67	83	61
Waltham Holy Cross	14.5	16:9	113	9-9	50	52	-	48
Walthamstow	17.7	19.2	9.2	9.8	45	44	123	56
Walton-on-the-Naze	12.7	14.6 13.5	11.6	9:9	29		X 1000	66
Wanstead West Mersea	12:3	10.0	10·5 6·5	9.8	41	35	1000	32
West Mersea Witham	15.8	16.6	10.8	12 6	32	32		71
Wivenhoe	13.2	15.6	16.3	13:8	67	69	-	52
Woodford	13.6	16.2	9.5	9.3	20	17	77	42
Total— Urban	16.8	18.1	9.6	10.0	55	53	124	54
RURAL-							-	
Belchamp	19.9	17.5	9.0	14.2	-	-	-	60
Billericay	16.8	17:1	9.9	10.5	57	50	200	51
Braintree	12.5	15.7 17.8	11.9	13·4 14·5	25 68	13 71	333	44 37
Bumpstead Chelmsford	16.3	18.2	10.8	11.1	41	36	130	48
Dunmow	15.4	15.8	11.9	12.9	39	36	111	52
Epping	16.2	17.6	10.3	10.9	48	45	125	46
Halstead	14.1	15.2	11.1	12.2	37	38		45
Lexden and Winstree	16:4 14:6	16:2 16:9	11:1	11.6 11.4	37 50	35 53	66	51 50
Maldon Ongar	19.3	20.6	13.2	11.1	66	53	300	43
Orsett	16.1	19.7	89	9.2	33	31	77	53
Rochford	18.8	19.6	10.8	11.4	63	55	357	52
Romford	21.8	25.2	8.8	10.2	63	63	59	58
Saffron Walden	15.7	17:4	13.0	13.7	39	35	111	59 39
Stansted Tendring	13·4 18·2	17·1 18·6	12.0 11.4	12.0 10.7	21 39	22 30	219	49
Totals—								
Rural	16.8	18.6	10.8	11.3	46	42	146	51
Urban	16.8	18.1	9.6	10.0	55	53	124	54
Adminis, County	16.8	18.3	9.9	10.4	52	49	131	53

× In this district 1 illegitimate child born in 1925 died within a year of its birth.

# NOTIFICATIONS OF INFECTIOUS DISEASE.

In Table XXVIII. of Part IV. is given a summary of notifications of Infectious Diseases received in the various Sanitary Districts during the year.

# Small-pox.

There is no change in the small-pox hospital accommodation in the Administrative County, which was fully set out in my report for the year 1925.

The London County Council has kindly continued the arrangements whereby the services of their small-pox expert, Dr. W. McConnell Wanklyn are placed at the disposal of any Medical Officer of Health on application to me (Tel. No. Chelmsford 120) or in case of emergency by communicating direct with Dr. Wanklyn at:—

Office, Hop 5,000; Private, Riverside 2,678.

During the year 1926, Dr. Wanklyn's services were utilised on two occasions, the diagnosis proving negative in each instance.

# Diphtheria.

The following table shows the number of notifications and deaths from Diphtheria in the Administrative County during the last five years:—

Year.	Notifica- tions.	Deaths.	Case Mortality per cent.
1922	 1,351	 121	 9.0
1923	 869	 39	 4.4
1924	 959	 42	 4.4
1925	 1,082	 50	 4.6
1926	 1,362	 59	 4.3

Special reference was made to the incidence of this disease in my Annual Report for the year 1923, particularly in regard to the experience in the use of the Schick test at two of the County Sanatoria where outbreaks of Diphtheria had occurred. The value of this test in determining the susceptibility of individuals to the disease, followed by the immunisation of such persons, is now generally appreciated as a preventive measure of importance. Further research is being carried on and the Schick test can now be safely administered to children of all ages in addition to adults.

The Schick test has been used on a very large scale in America and in a few places in this country. It does appear that a very effective and safe weapon has been found to prevent mortality from diphtheria, particularly amongst children of tender years.

## ISOLATION HOSPITALS.

As the returns from the hospitals have not been received at the time of going to press the usual table has been omitted.

Details of the conditions under which the County Council make a grant of £5 per bed in buildings erected by the hospital authorities out of loans were set out last year. Since then the Council has agreed to make a grant on application from the hospital authorities concerned of £2 10s. per bed in buildings erected out of revenue, subject to similar conditions being complied with and the sanction of the Ministry of Health obtained. For the year ending 31st March, 1927, grants for beds provided out of revenue had been made to the following isolation hospital authorities:—

Colchester (40 beds), Halstead (4 beds), Orsett (4 beds).

Little more need be added to what was said in my previous report regarding the economic and other advantages to be derived by "pooling" the available hospital accommodation. The use of motor ambulances has completely changed the size of the area which can be served by efficient, up-to-date isolation hospitals. Each hospital should endeavour to deal with Typhoid, Puerperal Fever, Infantile Paralysis, etc., as well as Scarlet Fever and Diphtheria.

#### VENEREAL DISEASES.

#### Scheme.

The arrangements under the London and Home Counties Scheme whereby Essex: patients can utilise the Venereal Diseases Clinics established at, or in connection with, the principal London hospitals, have been continued. In addition, facilities for advice and treatment are available at the Colchester, Chelmsford, Southend-on-Sear and Ipswich hospitals. During 1926, the Kent County Council established an ad home clinic in Gravesend which has been utilised by patients from the Grays and Tilbury Urban Districts. A summary of the treatment centres available for Essex patients, with details as to the day and time of clinics, etc., is available on application to the County Health Department, Duke Street, Chelmsford.

The efforts made to establish a clinic in Leyton or Walthamstow for patients unable to attend the London hospitals have not yet been successful. Negotiations are still proceeding and it is hoped to be able to report definitely next year.

During 1926 the Ilford Venereal Diseases Propaganda Committee decided to disband. The Committee had been in existence about seven years and had done splendid work. As far as possible the work will be continued by the Propaganda Sub-Committee of the County Council.

THE TATISATE OF VIENISIDEAL, TO

TREATMENT OF VENEREAL DISEASE, YEAR 1926.

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Reserve with, as for on-Sea of like Cilhary attents, to the

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1	1		1									
	Hostels.	In-patient days.	1403	1	1	1	1	1	1	1403	1767 1990 	
	eno- inds.	Total.	1693	11	65	225	24	80	833	2181	2281 2011 2026 2420 3044	
	Doses of Arseno- Benzol Compounds.	In- Patients	1693	1	1	1	90	1	1	3	. ! ! ! ! !	
	Doses Benzol	Out- In-	1693	11	65	225	21	80	83	485	464 574	
Ts.	In- patient.	Days.	2743	1	40	1	53	5	1	2841	2937 3140 2983 3192 3197	
ESSEX PATIENTS,	Total Atten-	dance of Essex Patients.	15007	39	121	1687	163	820	536	18373	18116 17262 15063 14145 14546	
ESS	Total Number treated for first time suffering from	Total.	963	62	22	64	o,	56	36	1152	1068 1169 975 985 1111	
		time suffer	time suffer	Not V.D.	364	1	67	11	1	24	9	408
	ed for first ti	Gonorr- hea.	419	1	6	27	22	20	19	497	389 469 413 416 426	
	umber treat	Soft Chancre.	ಞ	1	1	ന	က	1	1	10	13 11 11 11 11 11 11 11 11 11 11 11 11 1	
		Syphilis.	177	1	11	23	က	11	11	237	272 318 290 323 394	
Patients	all Areas. Total No.	first time.	26,712	485	22	65	192	272	371	28,119	27,296 26,519 26,665 24,895 26,892	
	Treatment Centre.		London Hospitals	St. Bartholomew's,	Chelmsford	Colchester	Ipswich	Southend	Gravesend	Total for 1926	Total for 1925  Total for 1924  " 1923  " 1922  " 1922	

TABLE V.

# SHEWING NUMBER AND TYPE OF SPECIMENS EXAMINED BY THE COUNTY BACTERIOLOGIST-YEAR 1926.

Brank	SANITAR	T Distr	icts.		Diph- theria.	Sputa.	Typhoid	Ring- worm.	Miscel- laneous.	Total Specimer examine
Barking \$365 227 7 4 2 2 605 Breathree   102 78 9 23 4 216 Breathree   103 77 3 36 1 220 Breathwood   103 77 3 36 1 220 Buckburst Hill   7 7 7 2	RRAN-						1		1 - 1	
Brintree		222			365	227	7	4	2	605
Brentwood   103	Braintree					78	9		4	216
Buckhurst Hill 77 7 2				222	103	77		36	1	220
Burnham-on Crouch			***	***				***	***	
Canvey Island Chelmsford B.    168   153   14   21   16   372							2	N	***	
Chelmsford B.		ich	77.4	***				1000		
Chiagford Chiacton-on-Sea  35 60 2 115			***	****				245	0.00	
Clacton-on-Sea			***	***						
Colchester B.	Claston on See		***	***						
Dagenham					300				1000	
Epping						*20	0		9	
Frinton-on-Sea						47		21		
Grays	Frinton-on-Sea								1	
Halstead				12000					15	
Harwich B.							4			
Hord B.					18	58	2	1	1	
Leyton B.					8	.00		***	545	
Loughton		***	***	***					77.00	
Maidon B.			***		2,405		4	45	26	
Romford   378		***	***	***	Section 1					
Saffron Walden B.   23	AND ADDRESS OF THE PARTY OF THE	***	***	1000						
Shoeburyness		0								
Tilbury				75.50						
Waltham Holy Cross         136         11          2         149           Walthamstow         163         875         22         1         24         1085           Walton-on-the-Naze          1          62          1           Wanstead          8         54           62           West Mersea          5         2          7         2           Witham          38         27         2         3         2         72           Wivenhoe          2         8           10         10           Woodford          76         27         2         2         4         111           Total          6067         3449         112         369         163         10160           URAL— <td< td=""><td>Tilhney</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Tilhney									
Walthamstow         163         875         22         1         24         1085           Walton-on-the-Naze          1           62           Wast Mersea          5         2           7           Witham          38         27         2         3         2         72           Wivenhoe          2         8           10           Woodford          76         27         2         2         4         111           Total         6067         3449         112         369         163         10160           URAL—         Total         6067         3449         112         369         163         10160           URAL—         Total         6067         3449         112         369         163         10160           Wivenhoe         2         3         2          12         2         4         111          10160           12         2         4         111	Waltham Holy			200					2	149
Walton-on-the-Naze         1          1          1          62         2          62         2           7         7         Witham </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1085</td>										1085
Wanstead         8         54          62           West Mersea         38         27         2         3         2         72           Witham         38         27         2         3         2         72           Wivenhoe         2         8          10         10           Woodford         76         27         2         2         4         111           Total         6067         3449         112         369         163         10160           URAL—         7         3         2          12         2           Belchamp         162         73         8         4         3         250           Braintree         239         710         6         4         5         964           Bumpstead          7           7           7           Chelmsford         111         27         1          50         189           Dunmow         14         9         1          2         26           Epping         93         12         1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>***</td> <td></td> <td></td> <td></td>						1	***			
Witham         38         27         2         3         2         72           Wivenhoe         2         8	Wanstead								-	
Wivenhoe         2         8         2         2         4         111           Total         6967         3449         112         369         163         10160           URAL—         7         3         2          12           Bellericap         7         3         2          12           Billericay         162         73         8         4         3         250           Braintree         239         710         6         4         5         964           Bumpstead          7           7           7           Chelmsford         111         27         1          50         189           Dunmow         14         9         1          2         26           Epping          93         12         1          107           Halstead         160         30         2          1         193           Lexden & Winstree         24         24         2         10         4         64           Maldon         145						2		***		
Woodford         76         27         2         2         4         111           Total         6967         3449         112         369         163         10160           CRAL—         7         3         2          12           Belchamp         7         3         2          12           Billericay         162         73         8         4         3         250           Braintree         239         710         6         4         5         964           Bumpstead          7            7           Chelmsford         111         27         1          50         189           Dunmow         14         9         1          2         26           Epping         93         12         1          167           Halstead         160         30         2          1         193           Lexden & Winstree         24         24         2         10         4         64           Maldon         224         23         7         12	Witham	***	***	***			2	3	2	10
Total 6967   3449   112   369   163   10160		111				8	0			
Belchamp	Woodford	***	***		70	21	2	4	4	111
Belchamp		Total			6967	3449	112	369	163	10160
Belchamp         7         3         2          12           Billericay         162         73         8         4         3         250           Braintree         239         710         6         4         5         964           Bumpstead          7            7           Chelmsford         111         27         1          50         189           Dunmow         14         9         1          2         26           Epping         93         12         1         1          107           Halstead         160         30         2          1         133           Lexden & Winstree         24         24         24         2         10         4         64           Maldon         224         23         7         12         2         268           Maldon         145         5          11         2         163           Orsett         104         17         2         5         2         130           Rochford         60		T. C. CHEL	***	***		7777				1
Billericay   162					7				100	
Braintree         239         710         6         4         5         964           Bumpstead         111         27         1          50         189           Chelmsford         111         27         1          50         189           Dunmow         14         9         1          2         26           Epping         93         12         1         1          107           Halstead         160         30         2          1         193           Lexden & Winstree         24         24         24         2         10         4         64           Maldon         224         23         7         12         2         268           Maldon         145         5          11         2         268           Ongar         104         17         2         5         2         130           Orsett         104         17         2         5         2         130           Roehford         60         453         1         1         2         517           Saffron Walden	Billericay					73	8			
Bumpstead	Braintree				239	710	6	4	5	964
Dunmow          14         9         1          2         26           Epping          93         12         1         1          107           Halstead          160         30         2          1         193           Lexden & Winstree          24         24         2         10         4         64           Maldon          224         23         7         12         2         268           Maldon          145         5          11         2         163           Ongar          104         17         2         5         2         130           Orsett          104         17         2         5         2         130           Rochford          192         34         3         7         10         246           Romford          60         453         1         1         2         517           Saffron Walden          8         1         1           10 <t< td=""><td>Bumpstead</td><td>***</td><td></td><td></td><td>444</td><td>7</td><td></td><td></td><td></td><td>190</td></t<>	Bumpstead	***			444	7				190
Epping		***	***				1			
Halstead Lexden & Winstree  Maldon  Ongar  Orsett  Torsett  Monford  Romford  Saffron Walden  Stansted  Tendring  Tendring  Totals—  Rural  Urban  160  30  22  10  4  64  64  64  64  64  64  64  64  64			***	1000			1		-	
Lexden & Winstree	Helatord			100		30			1	
Maldon        224       23       7       12       2       268         Ongar        145       5        11       2       163         Orsett        104       17       2       5       2       130         Roehford        192       34       3       7       10       246         Romford        60       453       1       1       2       517         Saffron Walden        10       4          14         Stansted        8       1       1         10         Tendring        22       14       2       7       1       46         Votals—         1,575       1,446       39       62       84       3206         Urban        6,067       3,449       112       369       163       10160						21	2	10	4	64
Ongar        145       5        11       2       163         Orsett        104       17       2       5       2       130         Rochford        192       34       3       7       10       246         Romford        60       453       1       1       2       517         Saffron Walden        10       4         14         Stansted       8       1       1         10         Tendring        22       14       2       7       1       46         Cotals-        1,575       1,446       39       62       84       3206         Urban        6,067       3,449       112       369       163       10160						23	7		2	
Orsett           104         17         2         5         2         10         246           Roehford           60         453         1         1         2         517           Romford           10         4           14           Saffron Walden          8         1         1           14           Stansted           8         1         1           10         46           Tendring            22         14         2         7         1         46           Votals            1,575         1,446         39         62         84         3206           Urban           6,067         3,449         112         369         163         10160						5			2	
Rochford        192       34       3       7       10       246         Romford        60       453       1       1       2       517         Saffron Walden        10       4          14         Stansted        8       1       1         10         Tendring        22       14       2       7       1       46         Cotals—        1,575       1,446       39       62       84       3206         Urban        6,067       3,449       112       369       163       10160						17	2			
Saffron Walden        10       4         14         Stansted         22       14       2       7       1       46         Tendring         22       14       2       7       1       46         Potals          1,575       1,446       39       62       84       3206         Urban         6,067       3,449       112       369       163       10160	Rochford									
Stansted	Romford	***	222	***			1	1		
Stansted Tendring        22       14       2       7       1       46         Potals—Rural Urban        1,575 6,067       1,446 39 112 369 163 10160       39 163 10160       39 163 10160       39 163 10160       39 163 10160       39 163 10160       39 163 10160       39 163 10160       39 163 10160       30 163 10160       3	Saffron Walden	***		110						
Yotals—        1,575       1,446       39       62       84       3206         Rural         6,067       3,449       112       369       163       10160		1.00						***		
Rural 1,575 1,446 39 62 84 10160 Urban 6,067 3,449 112 369 163 10160	Tendring	(5)	711	***	22	14	-	-		
Rural 1,575 1,446 39 62 84 10160 Urban 6,067 3,449 112 369 163 10160	latala									
Urban 6,067 3,449 112 369 163 10160					1.575	1,446	39			
Croati						3,449			163	10160
	Crown				1000			-	1	

SHOWING PARTICULARS OF WORK CARRIED OUT BY LOCAL SANITARY AUTHORITIES UNDER THE HOUSING ACTS DURING THE YEAR 1925.

New Houses User Description of the Press of t

Sanitary Districts.	Total.	With State under Hot 1909, 1923	wing Acts		No. inspect			Houses			, 1925.	Housing	LOB	LIC HEALTI	Acts.	1	CEEDINGS !	THE PERSON	ACCES TO	TO TO OF	30
URBAN.		Local Authority	Other Bodies or Persons.	Total No inspected for Housin Defects.	recorded under Housing g Regs, 1910.	No found so danger- ous or injurious to health as to be unfit	No. found not in all respects reasonably fit for human habitation	rendered fit in consequence of informal action by Local Authority.	Houses in respect of which Notices were served requiring repairs.	No. Dwei rende	Local Authority in defauls of Owners.	No. of Dwelling Houses Closing Orders becage operative.	No. of Dwelling Honses Notices served requiring defects to be remedied,	No. Dwe	lling Honses defects were died by Local Authority in default of Owners.	No. representa- tions made with view to making of Closing Orders.	No. of Dwelling Houses in respect of which Closing Orders	No. of Houses Closing Orders determined Dwe'ling Houses being	No. of Houses Demolition Orders made.	No. of Hinses demolish in pursuance of Demolitio	ed
BARKINO BRAINTREE BRENTWOOD BRIGHTINGSEA BECKRUIST HILL BECKRUIST HILL BECKRUIST HILL BECKRUIST GENERAL CLASTON CROCCH CHEMISTORD B. CLASTON ON SEA COLCHESTER B. EFFING ANTON ON SEA HATE HARVING B. LUTOR B. LUTOR B. LUTOR B. LUTOR B. LUTOR B. ROMFORD SAFFRON WALDEN B. SROKEBERINESS TILBURY WALTHAMBYOW WALTHAMSTOW WALTHAMSTOW WALTHAMSTOW WALTHAMSTOW WALTHAMSTOW WANSTEAD WANSTEAD WANSTEAD WANSTEAD WANSTEAD WANSTEAD WANSTEAD WANTEAD WANT	183 61 288 115 14 17 265 347 212 158 50 30 34 1015 200 97 67 67 64 4016		183 60 7 8 8 37 16 165 165 165 102 16 9 22 22 26 1015 36 8 8 9 9 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3134 216 52 65 130 93 227 1908 127 1908 127 1908 127 140 337 417 441 447 744 427 303 5007 25 668 48 147 749 410 410 410 410 410 410 410 410 410 410	1164 84 365 388 2775 699 152 290 161 237 1817 111 27 20 134 249 429 15 47 47 171 171 171 171 171 171 171 171 1	6 6 6 9 2 2 51 29 4 2 2 10 20 150	17799 1451 21 22 20 47 75 56 190 18 337 421 337 522 2375 16 10 252 234 104 74 104 74 283 169 5 27 16 1 283 169 17 199	1331 1177 6 16 80 16 63 2 2 2 7 18 18 4001 199 2082 221 290 291 292 293 294 48 244 9121	49 2 32 32 146 118 114 110 111 25 35 87 87 16 16	49	2 114 3 3	3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	355 59 197  599 2 2 38 157 421 421 421 51 3 54 421 20 20 21 22 27 54 26 29 12 21 21 21 21 21 21 21 21 21 21 21 21	355 32 173 2 28 143 401 54 40 20 20 104 24 20 3 3 7 2039	9 14	111 5 2 2 556 2 2 2 2 1 1 78	64 47		5	6	
RUBAL TOTAL BOBO' & UBBAN TOTAL TOTAL FOR ADMINIS	511 105 146 60 56 131 75 492 25 492 2959 4 17 128 5648 4e16	0.00		218 620 243 53 225 42 260 606 798 299 1607 92 387 611 323 327 6718 22744	24 298 298 205 42 162 14 25 503 191 28 1607 120 422 51 51 161 3994 6298	150		39 38 38 228 40 160 33 31 103 32 152 229 6 80 52 2177 8 200 1580 9121	546	18 76 5 40 2 14 14 11 1222 374		5				9 19 6 2 2 2 1 1 20 4 4 9 9 4 1 1 881 5	5 19		6	13	red In wording

## EXAMINATION OF BACTERIOLOGICAL SPECIMENS.

Particulars of the specimens examined during the year 1926 by the County Sacteriologist, Dr. J. F. Beale, at 91, Queen Victoria Street, London, E.C.4. Felephone: City 7116) are given in Table V. on page 18. The total number was 3366, an increase of 1,191 over the previous year.

#### HOUSING.

Table VI. sets out particulars of the work carried out by Local Sanitary authorities under the Housing Act, 1925, during the year 1925. Unfortunately the aformation for 1926 is not available. Of the 9664 houses erected 2919 were built by rivate effort.

It will be noted that the Local Sanitary Authorities found it necessary to serve otices for the remedying of defects or the carrying out of repairs in 3068 cases.

In respect to dangerous and insanitary houses, Table VI. also shows the umber of houses in each sanitary district which, during 1925, were deemed to be a state so dangerous or injurious to health as to be unfit for human habitation. Inder Section 25 of the Housing Act, 1925, Rural Councils are required to send to the ounty Council copies of any representations or Closing Orders made in respect to uch property, but only 12 out of the 17 Rural Councils furnished such information, he figures for 1925 being as follows:—

Number of representations made in rural areas with a view to making Closing Orders (see Table VI.)	81
Number of houses in respect of which Rural Councils made Closing Orders (See Table VI.)	72
Number of Rural Councils sending copies of representa- tions or Closing Orders to County Council	12
Number of houses regarding which copies of representa- tions or Closing Orders were received by County	
Council	105

#### SEWAGE WORKS AND RIVER POLLUTION.

Table VIII. records the number of visits paid by the County Sanitary Inspector sewage works and the number of samples obtained. Where continuous unsatisfactory samples were procured, improvements have been carried out or schemes to approve the quality of the effluents are under consideration.

The pollutions of the River Blackwater at Bocking, Coggeshall and Kelvedon eferred to in detail on pages 48-52 in last year's Annual Report still continue. In view of the Southend Waterworks Act, 1924, under which the Southend Waterworks Company may exercise certain powers in respect to river pollution, it is in a present that the Braintree Rural District Council should be required to take the ecessary steps to prevent further pollution of this river.

As regards the unsatisfactory effluent from the Braintree Urban Sewage Works, the Ministry of Health held an inquiry on 21st April, 1927, into an application from the Urban Council for sanction to borrow £4,600 for purposes of sewerage and sewage disposal.

In respect to the Colne Valley, Earls Colne with a population of 1,806 at the Census, 1921, continues to discharge crude sewage into the river at the bridge on the main road. As no definite steps had been taken by the Halstead Rural Council to stop this pollution in response to many representations from the County Council, legal proceedings were taken on 5th May, 1927, when an Order was obtained from the County Court, Colchester, requiring the Halstead Rural Council to abstain from committing an offence under the Rivers Pollution Prevention Act, 1876, but the order was suspended for six months with leave to apply for a further suspension if the District Council made some definite efforts to cease pollution during the six months.

#### METEOROLOGY.

The County Meteorological Station at Chelmsford has again kindly supplied the data set out in Table VII. below. April had the heaviest rainfall of 4.5 inches, whilst a November had the highest number (22) of rainy days.

During the year 1926 rain fell on 151 days, producing a total rainfall of 24.4 inches.

TABLE VII.

OBSERVATIONS FROM THE COUNTY METEOROLOGICAL STATION AT CHELMSFORD.

			3.77								
1926.	Dry bulb readings.	Wet bulb readings.	Maximum readings.	Minimum readings.	Absolute maximum.	Date of absolute maximum.	Absolute minimum.	Date of absolute minimum.	Number of rainy days.	Rainfall in inches.	B
January	39.08	39.02	45.2	32,04	53	27th	6	17th	15	2.2	ı
February	43.9	43.0	50.6	38.9	57	19th, 24th,	26	14th	15	2.6	п
March	45.0	43.4	51.0	36.07	60	26th 6th	25	31st	4	0.2	н
April	50.3	48.3	57.1	40.5	69	4th	31	11th, 13th	18	4.5	п
May	52.5	48.5	59.2	42.6	75	26th	30	9th	15	1.0	п
June	58.0	54.0	65.0	47.0	76	20th	38	25th	14	2.8	72.
July	64.6	60.6	71.0	52.0	85	14th	46	1st, 2nd, 17th, 18th,	12	2.1	1/4
August	64.7	60.2	72.4	51.7	81	31st	40	27th 5th, 28th	9	0.8	н
September	61.7	58.6	69.8	50.3	87	19th	34	27th	8	0.9	1
October	48.5	46.5	55.2	38.5	71	6th	24	27th	13	2,6	ŀ
November	44.9	43.9	50.1	38.1	56	11th, 12th,	25	25th	22	4.3	н
December	39.1	38.1	56.6	33.8	51	15th 31st	27	28th	6	0.4	
TOTALS-											
Year 1926	417		***	***		***	100	***	15:	24.4	
,, 1925		-144		***					149	23.5	Į

# TABLE VIII.

Showing Sewage Works, Number of Visits and Number of Samples taken during the Year 1926.

2) 14					Sa	Samples taken.		
Consi	River receiving Effluent.	Sewage Works.	Sanitary District.	No. of Visits.	No. satisfac- tory.	No. un- satisfac- tory or on bor- der line.	Total.	
ed from	Blackwater	Braintree Witham .	XXXXXX	6 3	3 4	3 1	6 5	
II la	Cam	Saffron Walden		4	1	3	4	
isl to	Chelmer	Chelmsford Dunmow Felstead Great Waltham	Dunmow R	2 2 2 2	1 1 1 	1 1 1 2	2 2 2 2	
AFIR	Colne	Halstead	. Halstead U	3		3	3	
	Crouch	Wickford	Billericay R	3	1	4	5	
24.4	Ingrebourne	Brook Street, South	Billericay R	4	3	4	7	
160.		Weald Upminster Brentwood Harold Wood Great Warley	Romford R  Brentwood U Romford R Romford R	1 4 1 2	1 3 2 1	 2  1	1 5 2 2	
To to to inches in	Roding	Buckhurst Hill Chigwell Chigwell Row Loughton Ongar Wanstead Woodford North Weald Thornwood Theydon Bois Moreton	Epping R Epping B Loughton U Ongar R Wanstead U Woodford U Ongar R Epping R Epping R	4 4 4 2 8	2 1 9  5 7 2  1	3  5 3 1 1  6 2 2	3 2 1 14 3 6 8 2 6 3 2	
28	Rom	Hornehurch	Romford R	2	1	1	2	
11 0.8	Wid	Billericay Shenfield	Billericay R Billericay R	2 2	1 3	1	2 3	
0.9	Miscellaneous			12	9	3	12	
25			Total	100	63	54	117	
£5	Samples from	rivers, streams, etc.		10	9	10	19	
0.	Trade effluents	·		8	3	6	9	
31.8				118	75	70	145	

#### MENTAL DEFICIENCY.

Arrangements have continued whereby Dr. T. P. Puddicombe, Chief Assistant County Medical Officer, acts as Mental Expert to the County Committee for the Cares of Mentally Defectives as well as consultative Medical Officer for cases referred by the Justices.

One hundred and sixty-eight persons were medically examined and reported upon to the Committee during 1926 and classified as follows:—

		Males.	Females.	Total.
Feeble-minded	***	52	42	(a) 94
Imbeciles (Mongols 10)		24	20	44
Idiots (Mongols 2)		9	3	12
Not classified under the Act	***	9	9	(b) 1S

(a) includes 12 and (b) 3 cases referred by the Police.

During the year 39 cases were placed in Institutions, 3 cases placed under guardianship and 80 under statutory supervision.

# SALE OF FOOD AND DRUGS ACTS.

The supervision of the duties under these Acts is not undertaken by the County Medical Officer. Dr. Bernard J. Dyer, the County Analyst, receives samples direction the Food and Drugs Inspectors, and he has kindly furnished the following particulars of the work done during the period 1st December, 1925 to 30th November 1926. Included in the Table set out below are samples submitted by the County Inspectors and six Local Sanitary Authorities direct.

Of the 3,367 samples submitted for analysis, 110 were found unsatisfactory, the percentage of adulteration being 3.3.

Milk. Out of 1,356 samples 87 were for one reason or another unsatisfactory. Of these, 28 contained added water, varying from as little as 4 per cent. up to as much as 44 per cent. Fifty-seven samples were deficient in fat, in quantities ranging from 5 per cent. to 43 per cent. of the minimum quantity proper to genuine milk. Two samples of milk were dyed with annatto, a proceeding which is illegal.

BUTTER. Only three of the samples of butter taken during the year were unsatisfactory, two of these consisting of mixtures of butter and margarine soll as "butter," while the third sample (an informal one) was unsatisfactory by reaso of its containing more boric acid than is usually regarded as permissible, during the still existing period in which preservatives are allowed in butter.

LARD. Three samples of lard out of a total of 383 were unsatisfactory, on containing an excessive quantity of water ( $4\frac{1}{2}$  per cent.) while two consisted of what is called lard compound.

APPLES. During the year 32 samples of apples were taken, four of which were found unsatisfactory. This was due to arsenical contamination from washes used for insecticidal purposes. All of these cases occurred during last season. Such samples as were examined of this season's imported apples have been satisfactory as regards substantial freedom from arsenic.

The following is the usual Annual Summary for the year :-

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#### ANNUAL SUMMARY.

December 1st, 1925, to November, 30th, 1926.

		Samples analysed.	un	Samples satisfacto	ry.	Percentage of adulteration.
Northern District of the County		795	(mi)	33	+++	4.2
Southern District of the County		1045		23		2.2
Metropolitan District of the County		1335		32	111	2.4
Buckhurst Hill Urban District Council		1	100	-	1	
Chingford Urban District Council	**	11		-		
Clacton Urban District Council	***	4		-	1	11.5
Walthamstow Urban District Council		120		20		
Wanstead Urban District Council		47	***	1	-	
Woodford Urpan District Council		9	0	1	,	
				-		7
		3367		110	***	3.3
		_		-		_

In order to economise space the detailed list of samples analysed has been omitted from this report.

# PUBLIC HEALTH MILK AND CREAM REGULATIONS, 1912-1917.

The County Analyst has also furnished the following information regarding action taken under these regulations during the period December 1st, 1925, to 30th November, 1926:—

MILK and CREAM not sold as Preserved Cream.

	(a)					(b)
Nu	mber of sample for the presen preservati	ce of a		Number to be p	preservatives was reported l percentage of preserva- nd in each sample.	
Milk	1356					0
Cream	27					8
	E. 13 cor	taine	ed 0.35 pe	er cent. bo	ric acid	(informal).
	A. 180	"	0.35	11	"	"
	X. 181	*:	0.25	27	,,	"
	X. 853	11	0.10	"	11	vendor cautioned.
	X. 858	"	0.20	"	,,	(informal).
	X. 866	11	0.30	71	,,	vendor fined £15.
	X. 888	,1	0.35	,,	33	vendor cautioned.
	Woodford	"	0.15	11	"	(informal).

### CREAM sold as Preserved Cream.

Correct statements made	 	20
Statements incorrect	 	0
		20

DETERMINATION MADE OF MILK FAT IN CREAM sold as Preserved Cream.

(1)	Above 35	per cent.			20
(2)	Below 35	,,	***	/	0
					20
					20

# MILK AND DAIRIES ORDER, 1926,

The Milk and Dairies Order, 1926, the majority of the provisions of which came into operation on the 1st October, 1926, revokes the Dairies, Cowsheds and Milk Shops Orders of 1885, 1886 and 1899, so far as they relate to England and Wales, and all regulations made thereunder by Local Authorities. The main provisions of those Orders and Regulations are replaced in the present Order by provisions similar in general purpose, but modified in accordance with the development of modern hygienic knowledge so as to lay greater stress on cleanliness in all operations connected with the production and handling of milk (including the care of the cow) than upon the structure of buildings.

Every Sanitary Authority is required to keep registers of all persons carrying on in their district the trade of cowkeeper or dairyman, and of all farms and other premises within their district which are used as dairies. No person may carry on the trade of cowkeeper or dairyman or use any premises as a dairy unless he and any such premises are registered.

Sanitary Authorities are also required to inform the County Council of the particulars of registration of cowkeepers and their premises, and from time to notify the Council of all alterations made in the registers.

The Ministry of Health states that the most important of the new provisions of the Order are those relating to the health and inspection of cattle and to the handling, conveyance and distribution of milk. The former provisions are contained in Part IV. of the Order and are supplementary to Sections 3, 4 and 5 of the Milk and Dairies (Consolidation) Act, 1915, which involve the inspection of cattle, and will be administered by the Authorities upon whom is laid the duty of enforcing those Sections, i.e. Councils of Counties and County Boroughs. The other Sections of the Order are administered by the Local Sanitary Authorities.

After considering various reports from the Clerk of the County Council and the County Medical Officer upon the procedure to be adopted for carrying out the provisions of the Milk and Dairies Order, 1926, the Public Health and Housing: Committee recommended, and the County Council approved, the following arrangements:—

- (1) That samples of milk be taken from time to time from dairymen and milk producers in different parts of the County, and that such samples be examined microscopically for the presence of tubercle bacilli.
- (2) That as an experiment biological examinations be made in those cases in which the County Medical Officer of Health considers it necessary, the number of such examinations not to exceed 20 during a period of 12 months.
- (3) That, subject to the concurrence of the Parliamentary and Metropolitan District Committees, samples be taken by the Inspectors of Weights and Measures when taking samples for the purposes of analysis under the Sale of Food and Drugs Acts.
- (4) That the Veterinary Inspectors employed by the County Council under the Diseases of Animals Acts be appointed Veterinary Inspectors for the purposes of the Milk and Dairies (Consolidation) Act, 1915, and the Milk and Dairies Order, 1926, such Officers to act in all cases only on the written instructions of the Clerk of the Council or the County Medical Officer of Health.

The Public Health and Housing Committee have under consideration the question of undertaking a general inspection of dairy herds in two rural districts, and from the experience gained in those areas they will judge whether the results justify the expense of an extension of the examination to the whole County.

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According to a return supplied by the Ministry of Agriculture and Fisheries for the year 1925, there were in the Administrative County of Essex the following cattle:—

Cows and heifers in milk		 35,985
Cows in calf not in milk		 5,588
Heifers in calf		 8,310
	Total	 49,883

#### GRADE "A" MILK.

The following licences have been granted by the County Council since the Milk (Special Designations) Order, 1923, came into force:—

8	during	the year	1923
11	,,	"	1924
27	"	>>	1925
35	,,	11	1926

During the year the County Sanitary Inspector paid 212 visits to farms which were licensed or which had applied for licences to produce and sell Grade "A" milk,

when 193 samples were taken and submitted to the bacteria test. In addition, 98 samples were submitted to microscopical examination when four were found to contain bacilli indistinguishable microscopically from the tubercle bacilli.

Under the auspices of the Essex Agricultural Society a further County Clean Milk Competition was held and the County Sanitary Inspector again acted as one of the judges.

Tuberculosis Order, 1925 The Clerk of the County Council has kindly furnished the following information on the working of this Order by his Department since 1st September, 1925:—

	1925. (part).	1926.
No. of animals examined by veterinary surgeons	6,320	20,608
No. of animals slaughtered under the Order	230	676
No. of such animals found on post mortem to be—	200	010
(a) Not tuberculous (b) Tuberculous but not	1	2
advanced (c) In an advanced stage of	81	318
tuberculosis	148	356
Total amount of compensation		
paid by County Council	£1,331 3s.	£4,017 6s. 6d.
Total receipts from sale of		
carcases	£283 11s.	£701 5s. 6d.

#### WATER SUPPLIES.

In the report for 1925 reference was made to the engagement by the County Council of Mr. J. Mackworth Wood, M.I.C.E., late Engineer in charge of the Metropolitan Water Board's Works in the Lea Valley, to make a survey of the water resources and requirements of the County and to prepare a report covering certain prescribed particulars. This report was issued during 1926 and a copy was furnished to each of the Sanitary Authorities in the Administrative County outside the area of the Metropolitan Water Board with a request that they should take the report into consideration, with a view to holding a conference on the matter.

After considering the report, it appeared to the Parliamentary Committee that the present policy of the County Council should be to see that chiefly such water supplies as exist within the County should not be exploited for the benefit of our particular area only, to the detriment of other areas in need of more water, or so situated that if a certain supply were appropriated by others they would be deprived of what would be their natural source. In other words, the County Council should be concerned.

to see that the existing supplies should be distributed equitably, and as so little data exists as to the flow of the rivers of the County, the County Council decided on 6th July, 1926, that the Parliamentary Committee be authorised to undertake the gauging of the Rivers Cam, Colne and Stour and possibly the Roding, but that for the present such gauging be limited to the River Stour.

As stated in last year's Annual Report, it is obvious that a very considerable amount of additional water will be required in the Administrative County during the next few decades, and the only remaining practical source of future supplies for Essex is the River Stour. The County Council are taking the necessary steps to safeguard the general interests of the County.

# PUBLIC HEALTH (SMOKE ABATEMENT) ACT, 1926.

The principal provisions of this Act, which comes into operation on 1st July, 1927, deal with the following matters:—

- (a) Power to take proceedings in respect of a nuisance from smoke which is not black emitted from any chimney, except the chimney of a private dwelling house.
- (b) Extension of "smoke" to include scot, ash, grit and gritty particles.
- (c) Increase of penalties.

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- (d) Power to make bye-laws prescribing standards as to the emission of smoke.
- (e) Power to make bye-laws respecting cooking and heating arrangements in new buildings other than private dwelling houses.
- (f) Power to the Minister of Health to authorise the County Council to carry out duties with regard to smoke abatement on default of the Sanitary Authority.
- (g) Power to the Minister to extend the operation of the Alkali, etc., Works Regulation Act, 1906.
- (h) Act does not apply to, or affect, enactments in force regarding smoke nuisance and smoke consumption in any ship habitually used as a sea-going ship.

The Local Sanitary Authorities are responsible for the administration of this Act, which gives them useful additional powers, and it will be observed from (f) above that in default the County Council may be authorised by the Minister of Health to carry out the duties.

In respect to (g), it is hoped that the Minister of Health will take early advantage of these powers in order that his inspectors under the Alkali Act may be in a position to supervise oil refineries, some of which in the southern portion of the Orsett Rural District gave rise to offensive smells in 1922 and 1923.

# PUBLIC HEALTH PROPAGANDA.

A Propaganda Sub-Committee was appointed by the Public Health and Housing Committee to organise the work of health propaganda with leave to confer with the Essex Education Committee and the Essex Insurance Committee and such other organizations as may be deemed advisable and to submit a scheme for the consideration of the Public Health and Housing Committee.

On 5th October, 1926, the County Council approved of the following scheme for Health Propaganda:—

## SCHEME FOR HEALTH PROPAGANDA.

- (i) Powers. Section 67 of the Public Health Act, 1925, reads :-
  - (i) Any Local Authority or County Council may arrange for the publication within their area of information on questions relating to health or disease, and for the delivery of lectures and the display of pictures in which such questions are dealt with, and may defray the whole or a portion of expenses incurred for any of the purposes of this Section.
  - (ii) The Minister of Health may, for the purposes of this Section, make rules prescribing restrictions or conditions subject to which the powers conferred by this Section may be exercised.
- (2) Principles of Co-operation. To avoid overlapping, the County Council has adopted the following principles for a Scheme of Health Propaganda in the County of Essex to secure the co-operation and assistance of Local Sanitary Authorities and other organizations:—
  - (a) That propaganda campaigns, supported by the County Council, including those of voluntary organizations, shall be undertaken through and in co-operation with Local Sanitary Authorities.
  - (b) That the members of the staff of the County Public Health Department shall be available to give lectures by arrangement with the County Medical Officer of Health.
  - (c) That propaganda campaigns shall deal with general health principles, rather than specific health subjects, based on the headings shown in (3) below, and preferably include practical Health Exhibitions.
  - (d) That financial assistance from the County Council is restricted to the provisions made in the estimates for each current financial year.
  - (e) That the County Council, through the organization of the Public Health and Housing Committee, is prepared to advise upon suitable lectures, films, lantern slides, exhibits and schemes for local campaigns. To this end, all organizations interested in health matters are cordially invited to co-operate in the County Council's effort to establish and keep up-to-date a central bureau of information on health subjects.

(3) Subjects for Lectures. The County Council are of opinion that much useful work can be accomplished under the following headings:—

Food, including Meat and Milk.

General Sanitation.

Housing.

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Insect Life and Health.

Industrial Hygiene.

Personal Hygiene and Health, including Care of Teeth, Exercise, Rest, Sleep, Fresh Air, Cancer, Common Ailments, Heart Disease, Infectious Diseases, Orthopædics, Rheumatism, Racial Health, Tuberculosis, Venereal Diseases.

School Medical Service.

Maternity and Child Welfare.

- (4) Assistance from County Council. The County Council is prepared to assist Local Sanitary Authorities in promoting regular health campaigns in their areas and in the following directions:—
  - (a) Services of the County Organization.
  - (b) Suitable lecturers, films, exhibitions, general equipment, lantern slides diagrams, etc.
  - (c) The County Council will only give financial assistance in special circumstances.

During the year, the County Medical, Nursing, Inspectorial and Teaching Staffs continued the giving of health talks in Schools, Dispensaries and Child Welfare Centres and at Women's Institutes, Brotherhoods, etc., and Voluntary Organizations provided lecturers and courses.

#### COMBINED MEDICAL SERVICE.

In the Report for the year 1925, a review of the Combined Medical Service Scheme in Essex, with the principal features, the observations of the officers concerned and particulars of schemes in operation were given.

Table IX. shows the schemes in operation at the end of the year 1926, which with the minor alterations shown in areas 1 and 11, remained the same as for 1925.

The following amendments and developments were, however, pending, and at the time of writing are being put into operation: -

(a) Area No. 8 (Braintree, Dunmow and Witham).

Since Dr. P. J. Gaffikin commenced duty in October, 1923, experience has proved that even with the assistance given by Dr. M. D. Rankine in the School and Child Welfare work, the requirements of the Braintree and Dunmow Unions have not been met.

A conference between representatives of the County Council and the Local Authorities concerned approved of Dr. Gaffikin being relieved of his duties as Medical Superintendent of Black Notley Sanatorium, a reapportionment being made of the time given to County Council work and of a reduction in the amount payable by the latter towards Dr. Gaffikin's salary and travelling expenses. The new arrangements will come into force on 1st April, 1927.

# (b) New Appointment.

The Witham Urban District Council, whose part-time Medical Officer of Health resigned in September, 1926, agreed to the new Assistant County Medical Officer appointed for Black Notley and Witham, etc., acting as their Medical Officer of Health, in consideration of which they would contribute £50 per annum of his salary. The post is being advertised, and it is hoped that the new officer will commence duty in May, 1927. A re-arrangement of the duties of Dr. W. H. Alderton, Dr. W. Burton Wood and Dr. Mary D. Rankine will then be possible.

# (c) Dagenham.

This area, with its ever growing population as a result of the development of the L.C.C. Housing Estate, became an Urban District on the 1st April, 1926. As a result of conferences between the representatives of the new District Council and of the County Council, an officer has been appointed who will act as Medical Officer of Health for the District Council and as Assistant County Medical Officer for the County Council, performing the duties for the latter of School Medical Inspector. The County Council pay a salary of £250 per annum and the Dagenham Council £550 per annum. The latter provide necessary office accommodation and clerical assistance and pay necessary travelling expenses, and the County Council pay a contribution of £50 per annum to the Urban District Council towards these expenditures. The arrangements are to remain in operation, in the first instance, for a period of 12 months, and thereafter are terminable by six months' notice on either side.

Dr. E. W. C. Thomas was appointed and commenced duty 4th April, 1927.

# (d) General.

As stated in the last report, Dr. J. Pearse, of the Ministry of Health, made an inquiry early in 1926 into the various aspects of the scheme, and by the courtesy of the Ministry of Health, some extracts from his report are appended.

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VIBRIALIUM 1040),	Duties.†	M.O.H. and Assist. C.M.O. Assistant C.M.O. only	M.O.H. and Assist. C.M.O. Assist. C.M.O. only	M.O.H. and Assist. C.M.O. Assist. C.M.O. only (T.O.)	M.O.H. and Assist, C.M.O. Assist, C.M.O. only	M.O.H. saly	M.O.H. and Assist. C.M.O. Assist. C.M.O. only	M.O.H. and Assist, C.M.O. " Assist, C.M.O. only	M.O.H. and Assist. C.M.O. " Assist. C.M.O. only"	M.O.H. and Assist, C.M.O.	M.O.H. and T.O. M.O.H. and Assist. C.M.O. Assist. C.M.O. only	M.O. H. and Assist. C.M.O. T.O. only	900
E SUMPRISO AN	Name of Officer.	W. H. Alderton*	W. A. Milne	J. Ramsbottom	W. T. G. Boul	R. H. Vercoe	S. R. Richardson	J. S. Ranson	P. J. Gaffkin	K. Simpson	W. F. Corfield N. S. R. Lorraine	M. Barker	additional amounts.
Date Scheme	commenced.	1st April, 1920	1st June, 1920	11th Sept., 1920	1st August, 1922	lst. Jan., 1923	lst Jan., 1923	1st Sept., 1923	1st Oct., 1923	1st April, 1920	13th July, 1921 1st Feb., 1925	19th Oct., 1925	on and is noted on addition
N SCHOOL SECTION	Acreage.	69485	4069 2867 2046 422	73131	1359 1855 38084	3112 83045	7502 59975 22954	647 88712 26500 11874	2224 62348 73503 3713	3802	1036 55003	2808 2161 1679 6648	Maldon IIni
Population	1926.	18115 1696 2270	13540 4215 2746 2110	22660 12290	17810 14740 24590	22800 26690	5448 9736 6911 99005	5821 9499 4115 2279	7149 19180 14800 3980	38920	5802 28591	11500 21820 16510 49830	iot O M O io
	Sanitary District.	Lexden & Winstree R. a West Mersea U	Clacton-on-Sea U. a Brightlingsea U Walton-on-Naze U Frinton-on-Sea U	Tendring R. Harwich Borough a, b	Grays U. a Tilbury U. a Orsett R. a	Chelmsford Borough a, b Chelmsford R. a	Saffron Walden Borough Saffron Walden R Stansted R	Halstead U. Halstead R. Belchamp R.	Braintree U Braintree R Dunnow R	Barking U. a, b	Colchester Borough a, b Shoeburyness U Rochford R.‡	Chingford U. a Woodford U. a	Alderton also agts as Assist C M O in Maldon Huisa and
.c.	N		6.1	00	+	10	9	1-	00	6.	21	12	å.

\* Dr. Alderton also acts as Assist. C.M.O. in Maldon Union and is paid an additional amount of £50 per annum for this work. In April, 1926, West Mersea, situated in the Lexden & Winstree District became an Urban Authority and appointed Dr. Alderton as M.O.H. at a salary of £50 per annum.

‡ Canvey Island in the Rochford District was made an Urban District as and from April, 1926. A Part-time M.O.H. was appointed. † M.O.H.: Local Medical Officer of Health. Assist. G.M.O.: Assistant County Medical Officer. T.O.: Tuberculosis Officer. S.M.I.: School Medical Inspector.

# Dr. J. PEARSE'S REPORT ON COMBINED MEDICAL SERVICES IN THE COUNTY OF ESSEX.

The system of a Combined Medical Service was first instituted in one area of the County of Essex in 1920, and has been extended until it now includes twelve areas. The system may be briefly described as involving the appointment by mutual arrangement between the County Council and Local Authorities of one officer who acts as Medical Officer of Health to the Local Authority or Authorities concerned and performs duties for the County Council within the sanitary districts. The usual method of application is that the officer acting as Medical Officer of Health acts also in the capacity of School Medical Inspector, Tuberculosis Officer, Maternity and Child Welfare Officer. The system has been mainly applied in smaller urban and in rural districts, but has been extended in a modified form to larger centres, Colchester, Chelmsford and Barking, where the whole-time Medical Officer of Health to the Local Authority acts also for the County Council—in Colchester and Barking as Tuberculosis Officer, in Chelmsford as School Medical Inspector to a rural district. The problems raised in these larger centres are different from those in the other districts, and the observations in this report apply mainly to the latter.

Thus there were the following Combined Medical Officer of Health districts:—Braintree Urban District and Rural District, Dunmow Rural District, Halstead Urban District and Rural District; Saffron Walden Borough and Rural District, with parts of Cambridgeshire: Clacton Urban District, Tendring Rural District, Lexden Rural District.

In the first of these combinations there was an interregnum between the decease of the last whole-time incumbent and the introduction of the present system, during which period part-time officers were employed.

There is within the County one combination for Medical Officer of Health purposes only. This comprises the rural districts of Chelmsford, Maldon and Rochford, with a population of 63,958 and an area of 220,390 acres.

I was instructed to make investigation into the operation of these combined services. As means to such investigation I have interviewed the County Medical Officer of Health; I have visited each district and sought the opinion and experience of members of individual Local Authorities; I have freely discussed matters with the Medical Officers concerned, have seen Sanitary Inspectors, examined the evidence of activity in Public Health departments, and in each area made a brief inspection in order to make myself cognisant of conditions and requirements.

From enquiries made, from opinions expressed, and from personal observations, the following comments and criticisms are submitted:—

(1) General Impressions. One's general impression of the operation of the scheme from the Medical Officer of Health point of view is favourable.

There are certain factors, not necessarily inherent in the scheme, which must exercise influence under any system, e.g., the zeal or apathy of Local Authorities concerned, the type and sufficiency of Sanitary Inspector Staff, and personality of individual medical officers. There are other factors which are inherent in the scheme, e.g., the area and population allotted for Medical Officer of Health duties and the amount of time required for County Council functions: these points will require further consideration.

The attitude of the Local Authorities concerned has, on the whole, been distinctly favourable, and this has been especially noticeable where the Authority is zealous in public health activity.

The view of the officers holding these combined posts has also, on the whole, been favourable to the system. Certain criticisms and suggestions have been made which will be incorporated in later observations.

- (2) Advantages of the System. There are certain obvious advantages which need not be stressed in detail, e.g., the availability of a specially trained officer, the avoidance of overlapping by a multiplicity of officials, and also the consequent lessening of travelling expenses and saving of time. Other less obvious but important advantages emerge:—
  - (a) The co-ordination of various duties of which the following have been given as specific examples:—

Children can be followed from Welfare Centres to school life.

- Tuberculosis contacts of school age can be marked as special cases and kept under observation.
- The School Medical Inspector being also Medical Officer of Health has cognisance of housing and other environmental conditions.
- The Medical Officer of Health, in his capacity as School Medical Inspector, can gain indication of local conditions from his school examinations and from information gleaned from parents; in one instance this led to a house to house inspection of a village and a consequent housing scheme.
- Verminous children can be followed up forthwith and home conditions dealt with.
- There is no distinction between Medical Officer of Health and School Medical Inspector on the occasion of epidemics in schools; also more immediate information is obtained by the direct receipt from school teachers of reports on the presence of infectious disease.
- Environmental conditions affecting schools can be more readily dealt with, e.g., nuisances in the vicinity.
- (b) There being one officer residing in the district and responsible for all duties, he has an extended opportunity for gaining knowledge of the community and of conditions, he becomes known as the responsible officer, is more readily consulted, and so has the opportunity of wider influence.

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- (c) Members of a Local Authority who are also County Councillors are in contact with one officer in the district instead of several, and, as it was put to me, are able to feel "that everything is under one hat."
- (d) Officers concerned have a wider range of duties, and consequently a more comprehensive interest than if they were continuously engaged in special limited subordinate duties under the County Council. This was frequently expressed, and it was clear that these appointments have been welcomed as an avenue of escape from what was more than once described as a "blind alley" or "a dead end."

(3) Dual Control. No evidence has been adduced of practical difficulty in the discharge of Medical Officer of Health functions arising from the fact that the officer is serving two distinct authorities. This is a point on which specific information was sought in each case. Such difficulty had been anticipated by several of the local authorities concerned, but in no instance was it found that this has materialised. There is no doubt a feeling that the County Council duties receive first consideration because these are definite and scheduled, and because the officer is largely dependent upon the County Medical Officer of Health for his chances of promotion.

No definite agreement exists between local authorities and the County Council as to apportionment of time, but there is a general understanding that this shall approximate to the relative apportionment of salary.

The appointment as Medical Officer of Health is subject to the Public Health Officers Act, but that under the County Council is terminable under notice. The officers have thus no real security of tenure. This is a potential difficulty which perhaps requires safeguarding. The County Council appears in some cases to have increased duties over those indicated when the appointment was first made.

A practical difficulty has emerged on a question of salary in that a local authority may have desired that an officer's salary should be increased, but the County Council has declined to participate. The local authority does not consider itself justified in alone increasing salary, as it has no increased lien on the officer's time.

- (4) Views of Local Authorities. The following are extracts from opinions expressed:—
  - "Could not be more satisfied than with present arrangement."
  - "Complaints were formerly frequent, but are now non-existent."
  - "System has worked quite satisfactorily and is an improvement on former arrangements."
  - "Would have no hesitation in renewing the arrangement. County Council duties were probably regarded as having first claim."
  - "It was felt that the Medical Officer of Health was primarily a County Council official."
  - "It was considered that this was the best arrangement that the "Council had had."
  - "Very satisfied and better served than formerly."
  - "In the dark as to how much time and attention the districtive receives."
- (5) The Performance of Medical Officer of Health Duties. In assessing this item, it has been necessary to bear in mind that one is dealing in the main with small urban or with rural districts in which throughout the country the average standard is not of high level. In some of the districts visited a definitely high standard is attained; in others it is good; in certain it is indifferent. In some districts there is evidence that under the present system there has been a tightening up of sanitary administration and a stimulation of local interest. Generally speaking, where there is a compact area and County Council duties are not excessive, the work is well

done in all details; in wider districts and where an officer may have to serve several authorities, the arrangements at present in vogue do not allow a sufficiency of time for Medical Officer of Health functions. This statement means that, while the officer is able to direct his attention to any emergency or to any point on which the Council asks his advice, or which is referred to him by the Sanitary Inspector, he may not be able to survey his district or sufficiently make independent representations to his Authority. Similarly, the important point of frequency of contact with Sanitary Inspectors varies with the extent of the district and the number of Authorities served. Where the work is indifferent, it is due not to the system but to the size of the area, the number of Authorities involved, the multiplicity of other duties, the personality of individuals with variation of outlook, energy and independence.

Enquiries made from officers as to the time allotted to various duties show that the time estimated to remain available for Medical Officer of Health duties varies from a half to a small fraction.

This leads to a consideration of-

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(6) Variation in Duties and Area. That there is considerable variation in the requirements of the several districts is indicated by the sub-joined Table which shows the population and acreage for Medical Officer of Health and for school duties in areas where the duties approximate in type:—

	N	Medical Officer of Health.		Schools.		
District.		Population. 19475	 Acres. 69485	 Scholars. 4433		Acres. 71049
2		17049	 4069	 2310		9404
3		21720	 73131	 3400		73131
†4		26946	 3214	 8840	2.2	41298
6		15967	 67477	 3075		90431
++7		19874	 65859	 2830		77733
++†8		35113	 138075	 6410		141788
11		6413	 1036	 4950		56039

† Assistance given, approximately half-time.

+ Also in charge sanaterium.

+++ Duties re-arranged later.

This variation is inherent in any scheme which must be adjusted to present boundaries of sanitary districts, and especially when such has to be improvised as vacancies arise in Medical Officer of Health appointments and as local authorities can be persuaded to co-operate. The variation would be minimised under any general policy.

There is also a marked variation in the payments made by individual local authorities for Medical Officer of Health purposes. The range extends in urban districts from £4 4s. per 1,000 population to £21 1s., and in rural districts from £5 4s. to £16 1s.

This brings one to a consideration of-

(7) The Unit for Satisfactory Work. This is difficult to assess with any degree of accuracy. Due allowance has to be made for defined duties as school examinations, attendance at Welfare Centres or tuberculosis dispensaries, but these are a different problem in country districts compared

with urban Centres both in respect to the amount of work involved and of the time absorbed in travelling. An officer's time is usually reckoned in "sessions," but this itself is a vague term. Few of the officers I have seen can give an exact estimate of the relative apportionment of their time; they can only approximate to this, and state whether they consider that they have a sufficiency in which to compass their duties. Further, one has not been in a position to judge in each area whether the various requirements in relation to the school service, maternity and child welfare and tuberculosis are being adequately met, but only to envisage the general administrative problem and the specific performance of Medical Officer of Health duties.

The point can perhaps best be approached by taking certain concrete examples.

Chelmsford Borough has a population of 20,761; here all public health functions are carried out with the exception of tuberculosis; in addition, the Medical Officer of Health acts as School Medical Inspector to the adjacent rural district with an area of 83,045 acres, a population of 24,618 and 3,480 scholars; the total number of scholars is 6,280. There appears to be no difficulty in compassing the requisite work. This district comprises a considerable rural area with a large urban centre.

District No. 1 is rural with no large centre of population.

The Medical Officer of Health's population is 19,475 in 69,485 acres, there is an extended area for school inspection and tuberculosis, giving a total population of 30,983 and a total number of scholars 4,433. There is a Council keen on public health, and the work appears to be efficiently done without any complaint of lack of time. This Council is autonomous for Maternity and Child Welfare, and this work is exceptionally developed for a rural district.

District No. 8 comprises for all purposes (except Maternity and Child Welfare), one urban centre and two rural districts and a small urban centre for County Council purposes—population 44.832 in 141,788 acres, scholars 6,410. Medical Officer also in charge Sanatorium.

This work is beyond the compass of any individual officer. Detailed attention cannot be given to the Medical Officer of Health work in rural districts.†

†The duties of this area have been re-arranged since this report was written.

If the estimate of the above districts is correct, it would appear that in an urban centre of 20,000 the various public health requirements can be carried out and leave time for additional outside duties; that in a rural district a population of 30,000 in 70,000 acres can be catered for without difficulty; that a population of 40,000 in a large area constitutes an undue demand. An approximately just standard is probably to be found between the two last instances. Dr. Bullough estimates a satisfactory unit to be a population of 30,000 in 60,000 to 70,000 acres, and I am inclined to agree with this view.

(8) Further prospects from present Posts. In an earlier paragraph it was indicated that an advantage of the scheme is that the posts constitute an advance upon single occupation employment under the County Council. This is so as regards diversity of interest and also as regards salary, the usual remuneration for the posts being £700 per annum, plus travelling expenses. The scheme, therefore, offers a definite attraction in the earlier stage of a public health career. But there is some doubt as to further prospects. Promotion in public health service is at present, in the main, by way of the boroughs, but experience gained in these districts, which are mainly rural in type, is not such as would carry weight in a borough

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appointment. It appears that since the inception of the scheme, only two officers have left, one for private practice, and one on advancement within the County. The inference may be that the occupants of the posts are well satisfied to remain where they are, but another inference may be that they have failed in selection for other posts. By some the position is now regarded, as it was put to me, "as an end job." Thus, though the earlier advantages of the posts are obvious, the later avenues of promotion appear doubtful, at any rate, from the more rural areas, and this merits consideration as an influence affecting the public health service. A permanent income of £700, or even one rising, as has been suggested, to £800, will not offer attractions proportionate to the rewards of private practice.

(9) Title of Posts. The previous paragraph has indicated a potential limitation in these posts. It was further indicated to me that there is disadvantage in the designation Assistant County Medical Officer. A reason given was that so long as an officer is styled "assistant," the County Council will always grudge any generosity in remuneration. It was also urged that as an officer advances in years, he naturally desires an independent position. Such a wish is by no means always possible of attainment, and much depends on how supervision is exercised. But it is desirable that individual responsibility should be increased as much as possible.

There is certainly some apprehension, especially in larger and more progressive Centres, lest an extension of association with the County Council should sap local independence and responsibility.

(10) Comparison with Combined Medical Officer of Health Appointments. This scheme offers certain definite advantages over the combination of areas for Medical Officer of Health purposes only, especially when these are, as is often the case, of unduly wide extent. The work is more varied; the district being more limited the officer has better opportunity of making himself cognisant of local conditions; the authorities being fewer, the officer is better known to Councillors and more able to make his influence felt; he is also in closer contact with sanitary inspectors.

But, on the other hand, the Combined Medical Officer of Health posts possess very definite attractions to the individual in that the position is independent and the remuneration usually on a much higher standard. The standard salary of posts under the Essex scheme is £700, whereas salaries of £1,000 to £1,200 may be paid for combined Medical Officer of Health appointments.

(11) Co-ordination of County and Local Interest. Several of the officers have spoken to me of the divorce between local interest and County Council functions. Thus, an Authority may have no cognisance of Tuberculosis beyond the number of notifications. And it has been said that when matters arising, e.g., in connection with the school service have been mentioned, Councillors have remarked, "we won't bother about that; its the County's job."

The Medical Officer of Health for one district stated that it would be of great assistance to him if there were available in his area a Committee which would co-ordinate County Council activity with local interest. Such Committees exist to some extent in Essex, but their extension of activity towards public health appears to vary. In another area there was found a very active Welfare Sub-Committee of the Education Committee which follows up the Medical Inspection of School Children and co-operates with Child Welfare and Tuberculosis Schemes. The Medical Officer stated that this Sub-Committee was invaluable and so efficacious that every child received due attention, so much so that re-inspection appeared almost unnecessary.

(12) Some County Council Aspects. The reason given for the initiation of this scheme is primarily the avoidance of overlapping and the simplification of administration. It is also said that a better type of officer is thus obtained. Thus Dr. Bullough has stated. "I shall assume that we all agree that there is general overlapping amongst authorities and their officers in health matters, with resulting friction and lack of efficiency, particularly in rural areas. . . . It is in the rural parts of a County that overlapping, waste of time and trouble are most seriously felt."\*

\* Address to Medical Officers of Health Society, Birmingham, 3rd December, 1925.

There is no doubt that this simplification of administration represents a very real advantage both to the authorities concerned and the public generally. On this ground alone the system merits further consideration. It should also conduce to economy in staffing if only by the reduction in the time and expense which is involved in several officers travelling the same area or different functions. This also is an advantage. But in any systematic development of the principle of these appointments, it will be necessary to be assured that County Council obligations do not make an undue demand on an officer's time to the exclusion of sufficient opportunity for attention to the requirements of local authorities.

Conclusions. (1) The system has definite advantages; mainly-

- (a) It conduces to simplification and probably economy of organisation.
- (b) It provides means whereby smaller local authorities may obtain the public health services of qualified officers.
- (c) It links up departments of preventive medicine which are otherwise separate.
- (d) It provides an outlet from single avenue public health employment, thereby widening the outlook of officers concerned.
- (2) There is considerable variation in the time available for and the attention devoted to the public health administration of local authorities. It is necessary to ensure that the scheduled duties under the County Council allow a sufficient margin of time for these local obligations.
- (3) This variation is inevitable in any scheme which has to be adapted to the exigency of occasional vacancies in Medical Officer of Health appointments.
  - The difficulties would be lessened if the scheme were part of a settled policy instead of an occasional ad hoc creation.
- (4) There might be advantage in arranging larger areas worked by a senior medical officer with assistants. This would obviate adapting existing areas to the capacity of one individual; it might be possible to adapt the sanitary inspectorate to such an organisation and to provide clerical assistance which would relieve medical officers of a large amount of routine which absorbs much of their time and takes them from essential duties. To such areas there should be delegated as much responsibility as possible. There would be, in addition, the definite advantage that junior officers might thereby be trained in the variety of duties, and that senior posts of increased responsibility and emolument would be available which would increase opportunity in the public health service.

(Signed) JAMES PEARSE. C.B.E., M.D.,

Medical Inspector,

Ministry of Health.

November, 1926.

#### COMBINED TREATMENT CENTRES.

The Combined Treatment Centres under the County Council at the end of 1926 were as follows. This list does not include Clinics solely used as School Clinics or Tuberculosis Dispensaries, or as Child Welfare Centres, but those used for more than one of these three services by the County Council:—

	Centre. Stansted—Central Hall			ty Council. Child Welfare	Date opened. April, 1919.
777	Clacton-on-Sea—Skelmersdale Road	,,	,,	Centre Tuberculosis Dispensary	January, 1921.
	Shoeburyness—Council Offices	12	,,	Child Welfare Centre	August, 1921.
	Braintree—Co-operative Buildings	,,	11	Tuberculosis Dispensary	January, 1923.
	Epping—Epping Gas & Electricity Co.'s Showrooms		.11	"	March, 1923.
	Saffron Walden-Adult School	11	11	***	April, 1923.
	Halstead—Cottage Hospital	,,	,,	11	November, 1923.
	Brightlingsea - New Church Schools	Dispense Welfare	ary and	crculosis Child	September,1924.
	Romford—29, Eastern Road	School Cl	inic and	Tuberculosis Dispensary	School Clinic transferred to these premises in July, 1925.
	Dunmow-47, Stortford Road	33	33	,,	October, 1926
	Dagenham-3, Finnymore Road	,,	,,	1)	October, 1926.
	Weeley—Public Health Offices		Tube ary and Centre.		November,1926.

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<sup>\*</sup>Used by Local Sanitary Authority as Child Welfare Centre and Maternity Home

# PART II.

## TUBERCULOSIS.

## Notifications.

A summary of the notifications made in the Administrative County of Essex during the period 3rd January, 1926, to the 1st January, 1927, is given below:—

TABLE X.

ESST. ALLEGE							Notif	ficatio	ns or	n For	m A.		
1001,043				Pr	imar	y No	tifica	tions.					
Million I					Ag	e Pe	riods						Total
1221,011,010	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and upwards	Total Primary Notifications	Notifica- tions on Form A.
Pulmonary, Males	25	12	33	19	75	83	174	155	90	31	16	688	771
,, Females	-	10	31	29	75	104	160	64	48	21	9	551	622
Non-Pulmonary, Males	11	51	32	22	14	12	18	6	2	3	1	172	179
,, Females	7	47	35	24	16	14	22	9	4	5	1	184	197

		Not	ifications	on Form B.		Notifica Forn	
		Primary	Notificat				
	A	ge Period	ls.	Total	Total Notifica-	Poor Law	g
	Under 5	5 to 10	10 to 15	Primary	tions on Form B.	Institutions.	Sanatoria.
Pulmonary, Males	_ '	_	_	-	-	41	479
,, Females	-	-	1	1	1	23	299
Non-Pulmonary, Males	-	2	1	3	3	1	58
,, Females	-	_	_	_	-	4	55

#### TABLE XI.

Showing Supplemental Return in regard to Cases not notified under the Public Health (Tuberculosis) Regulations.

					Age	periods					TERRET.	
	0 to 1.	1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 and upwards.	Total cases.
Pulmonary, Males	-	5	18	20	12	19	51	39	23	9	8	204
,. Females	_	1	15	21	25	21	34	26	16	11	8	178
Non-pulmonary, Males	1	10	9	11	5	2	9	2	3	2	.1	55
,, Females	1	8	9	3	4	2	3	3	1	-	5	- 39

#### TABLE XII.

Showing Number of Cases of Tuberculosis remaining on the Registers of Notifications kept by the District Medical Officers of Health on the 31st December, 1926.

	Pulmonary.			Non-Pulmonary.		Total
Males.	Females.	Total.	Males,	Females.	Total.	Cases.
3580	3146	6726	1310	1305	2615	9341

#### TABLE XIII.

# Showing the Work of the Dispensaries during the Year 1926.

		P	ULMO	NARY		Non	-Pui	MONA	ARY.		Тот	AL.	
	DIAGNOSIS.	Adu	ilts.	Chile	lren	Adu	lts.	Chil	dren	Adv	lts.	Child	lren.
		м.	F.	м.	F.	м.	r.	м.	F.	М.	F.	м.	F.
year ( (a) (b)	Casks examined during the excluding contacts):— Definitely tuberculous Doubtfully tuberculous Non-tuberculous	315	230	11	19	20	42	42	47	335 354 33	272 385 29	53 371 20	66 313 27
year: (a) (b)	Acts examined during the Definitely tuberculous Doubtfully tuberculous Non-tuherculous	5	5				1		1	5 29 10	6 57 10	110	1 99 17
Regis (a)	s written off the Dispensary ter as Cured Diagnosis not confirmed or non-tuberculous (includ- ing cancellation of cases notified in error)	39	43	40	15	3	8	25	20	42	51	65	35 236
sary]	BER OF PERSONS on Dispen- Register on Dec. 31st:— Diagnosis completed Diagnosis not completed	1589	992	337	300	201	178	332	296	1790 192	1170 189	669 246	596 243
	ber of persons on Disp gister on January 1st		-	950	10		pract	ition	ers :-		ns with	medica	al 529
oth	ber of patients transferred er areas and of "lost sig es returned		33	87	11		(b) umb	Othe er of	rwise other	visits	by Tub	erculos	1294 is
. Numl	ber of patients transferred to as and cases "lost sight of"			051	12	. N	umb	er of	visits	by N	urses of	r Healt	
. Numb	during the year per of observation cases unde	rA(	b)	446	19	. N	purp	0808					16053
obs	d B (b) above in which per servation exceeded 2 months		**	440	10	(	(a) S	pecin	1		***	e in co	4895
. Num	ber of attendances at the I y (including contacts)		20	080				nect	tion	with D	)ispensa	ary wor	rk 381
		ulmo	n- ns	-	14							Dispe	
. Numl	ber of attendances of non-p cases at Orthopædic Outs treatment or supervision	tation		20					100 000	Commence			
7. Number of S. Nu	cases at Orthopædic Outs	d Ho	s- ed 1	048			Dom Dece	icilia mber	ry T	reatme	nt on	the 31	st 994

#### TABLE XIV.

## RESIDENTIAL INSTITUTIONS.

(a) Showing the Average Number of Beds Available for Patients during the Year 1926.

				onary culosis.	Non-Pu Tubero	lmonary culosis.	Total
		Observa- tion.	Sana- torium Beds.	Hospital Beds.	Disease of Bones & Joints.	Other Con- ditions.	
Adult Males		6	101	21	16	4	148
Adult Females	 	6	83	17	12	9	127
Children under 15	 	10	66	6	42	24	148
Total	 ***	22	250	44	70	37	423

(b) Showing the Extent of Residential Treatment during the Year 1926.

			In Institutions on Jan. 1st.	Admitted during the year.	Discharged during the year.	Died in the Institutions.	In Institutions on Dec. 31st
	Ite.	M.	143	479	411	40	171
	Adults.	F.	86	384	328	32	110
Number of Patients	ren.	М.	67	99	98		68
	Children.	F.	45	83	103		25
	Its.	M.	6	15	15	***	6
Number of Observation	Adults.	F.	2	20	20	***	2
Cases	i.	M.	1	19	19		1
	Children.	F.	4	24	25	***	3
	Total		354	1128	1019	72	386

994

#### TABLE XV.

Showing the Immediate Results of Treatment of Patients and of Observation of Doubtful Cases discharged from Residential Institutions during the Year 1926.

-	. ipe	MANURALY (TRANSPORTATION AND CONCERNS TRANSPORTATION OF TRANSPORT	1	*****	Dur	ation	of R	eside	ential	Trea	ıtmer	nt in	the J	Insti	tution	à.
	Classification on admission to the Institution.	Condition at time of discharge.			nder		3-6	mon	ths.	6-12	mon	ths.		ore the		
	admi			M.	F.	Ch.	M.	F.	Ch.	М.	F.	Ch.	M.	F.	Ch.	TOTAL
9.	Class T. B. minus.	Tourse		3 72 21 6	20 46 20 2	6 23 6	3 24 2 	16 26 5 1	9 29 1	21 4	1 5 1	6 10		1111	5	71 239 56 9
TUBERCULOSIS	Class T.B. plus. Group 1.	Quiescent Improved No material improvement Died in Institution		4 29 6 3	2 6 6 1	ïi	2 10 1	3 9 2	2	3 4		1	ï			15 63 15 4
PULMONARY 7	Class T.B. plus. Group 2.	Quiescent Improved No material improvement Died in Institution		4 57 19 8	4 28 13 9	1 2	1 32 3 4	2 23 9 		2 3 2	9	1		ï	***	13 155 48 21
F	Class T.B. plus. Group 3.	Improved		3 15 17 13	2 6 6 14	ï	1 9 6 2	1 8 7 1	ï	 4 1	 "i	***	2	ï	***	7 41 41 33
LOBIS. B	Bones and Joints.	Quiescent or Arrested Improved No material improvement Died in Institution		4 4 1	2 6 2	3 9 	5 5	3	3	1 2 1	2 1	8 3	2 1 	1 1	6 6	36 44 7 3
TUBERCULOSIS.		Improved No material improvement		1	4 1	5 2 2	···	1 2	3	ïi	ï	î				9 11 5 1
Non-PHEMONARY	Other Organs.	Quiescent or Arrested Improved No material improvement Died in Institution		1	2	***	1	1	2 2	····	1				2	6 8 1 1
Now-	Peri- pheral Glands.	Quiescent or Arrested Improved No material improvement Died in Institution		3	2 4	3 -9	2 1 	1	7 10 		 1	3 2				17 30 2 
-					Und 1 wee	er ek.	1-	2 we	eks.	2.	l wee	ks.		ore t		
Observa. 1	tion for purpose of diagnosis.	Tuberculous Non-tuberculous Doubtful		ï	ï	4			3 1	 1 1	2	3 3	2 16	1 4 12	3 14 13	4 27 48

#### TABLE XVI.

## (A) PULMONARY TUBERCULOSIS.

Table showing in summary form the condition of all patients whose case records are in the possession of the Dispensaries at the end of 1926, arranged according to the years in which the patients first came under public medical treatment for Pulmonary Tuberculosis, and their classification as shown on Form A.

-								-					
					Prev	ious to	1926.				1926.		
	Condition at the t			linus.	(	Class T.	B. Plu	ıs.	ms.	C	lass T.	B. Plu	s.
	the year to wh Return rela	ich the		Class T.B. Minus.	Group 1.	Group 2.	Group 3.	Total (Class T.B. Plus).	Class T.B. Minus.	Group 1.	Group 2.	Group 3.	Total (Class T.B. Plus).
		Adults.	М.	34	5			5				***	***
	Discharged as cured.	Adi	F.	39	2	2		4		100		***	
	cureu.	Child.	M.	40									***
		5 ×	F.	15									
		Adults.	M.	239	40	42	3	85		***		eith.	
ALIVE.	Disease	Ad	F.	173	17	14	4	35		***			
AI	arrested.	Child- ren.	м.	110	2	***	1	3				1992	***
		Chi	F.	81	1	2	***	3	140	***			***
		Adults.	M.	360	105	298	74	477	159	71	129	29	228
	Disease not	Ad	F.	227	36	162	53	251	165	34	75	26	135
	arrested.	ld-	M.	127	3	5	***	8	74		3	2	5
		Child- ren.	F.	118	11	4	3	18	66	3		2	5 =
Co	ndition not ascerta	ined du	ring	83	6	6	***	12					-
Lo	est sight of or other from the Dispensar	wise re y Regis	moved ster	537	89	69	15	173	71	7	13	3	23
		Adults.	M.	31	6	61	88	155	16	4	21	18	43
	DEAD.	Ad	F.	21	3	34	59	96	5	2	21	12	35
	DEAD.	Child- ren.	M.	4			1	1	2	***			
		Chi	F.	4		2	2	4					
	Totals			2243	326	701	303	1330	558	121	262	91	474

# (B) NON-PULMONARY TUBERCULOSIS.

Table showing in summary form the condition of all patients whose case records are in the possession of the Dispensaries at the end of 1926, arranged according to the years in which the patients first came under public medical treatment for Non-Pulmonary Tuberculosis, and their classification as shown on Form A.

					Pres	rious to	1926.		1		1926.	w .	
	Condition at the tast record mad the year to wh Return rela	e during		Brnes and Joints.	Abdominal.	Other Organs,	Peripheral Glands.	Toral.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.
	Discharged as	Adults.	M. F.	1 7	1		1	3 8					
	cured.	1d-	M.	10	2	1	12	25			***		
		Child- ren.	F.	2	1	2	15	20					
		Adults.	M.	27	5	5	7	44	***				
ALIVE.	Disease arrested.	-	F.	19	4	2	6	31				***	
AL		Child.	M.	49	19	6	30	104	***	***	***	***	***
		5	F.	23	8	4	26	61					
		Adults.	M.	52	3	20	9	84	21	3	5	2	31
	Disease not arrested.		F.	37	3	22	25	87	17	8	6	23	54
		Child- ren.	М.	67	14	4	55	140	23	9	7	39	78
		5	F.	64	12	8	60	144	21	7	5	46	79
Tran	sferred to Pulmons	iry	***		***						***	***	
Cond	ition not ascertain	ed duri	ng the	17	2	2	20	41	444		***		
Lost	ost sight of or otherwise removed from Dispensary Register				58	40	55	222	14	1	3	11	29
		Adults.	M.	4	2	1	1	8			***	***	***
	DEAD.			2	1	***	2	5		1			1
	M. Belld.				2 2	2	1	8	3	1	***		3
	TOTALS	454	139	119	326	1038	99	30	26	121	276		

#### Notifications.

The number of cases shown in Table XI. as coming under notice during the year other than by notification under the Public Health (Tuberculosis) Regulations, is rather high but is explained by the new system of records in accordance with the Ministry of Health Memorandum 37 T., which brought to light a considerable number of cases that had not been formerly notified. Most of these were T.B. Minus cases and this probably accounts in some measure for notification not taking place.

Table XII. shows that at the end of 1926 there were 687 more notified cases on the registers of the District Medical Officers of Health than there were at the end of 1925.

It will be seen from Table XVII. that of the 622 deaths from tuberculosis during the year 87 were apparently not notified and 80 were not notified until after death. Though the efforts which have been made to impress on general practitioners the necessity for early notification of cases of tuberculosis have resulted in some improvement, further action will be necessary. The fact that the Ministry of Health now desire Tuberculosis Officers to notify cases themselves if they are satisfied that notification has not previously taken place and they are unable to get the general practitioner concerned to notify, has also led to a number of cases being notified which would probably have otherwise remained unnotified.

#### Deaths.

The total number of deaths in Table XXI, shows a decrease of 82 as compared with the deaths during 1925.

# Medical and Nursing Service.

(a) Tuberculosis Officers. Several changes have taken place in the Medical Staff during the year and a complete list as at 31st December, 1926, is given on page 9.

The services of Sir Henry J. Gauvain have continued to be of great assistance in connection with the diagnosis and treatment of surgical tuberculosis.

Dr. W. Burton Wood, as Consulting Tuberculosis Officer, has been of great assistance in advising on pulmonary tuberculosis and has visited all the dispensaries and sanatoria inside and outside the County where there are Essex patients. His consultations have been productive of improvements in the service, and there can be no question that his appointment has been abundantly justified.

I append at the end of this Section a short report by Dr. Wood, which will be read with great interest by all concerned in the tuberculosis campaign.

(b) Tuberculosis Nurses. The work of the Health Visitors in visiting the nomes of patients has shown an increase, and as the Tuberculosis Dispensary is being used more and more as a consultation centre it is necessary for the Health Visitors to pay more visits to patients' homes than hitherto in order that patients may be kept in touch with the dispensary.

#### TABLE XVII

Showing Deaths from Tuberculosis Registered with Local Registrars of Births and Deaths in the Administrative County during 1926, and Particulars Regarding Notification under the Public Health (Tuberculosis) Regulations, 1912. (Transferable Deaths are excluded).

COLOSIS	-	_			-		able 1		0 0000	STOC CEEC		
					1 94	100	en Noti	ified.	Land	Late 40		
DISTRICTS.			No. of Deaths.	After Death	Within 3 months of death.	Within 3-( months of death.	Within 6-12 months of death.	Within 1 - 2 years of death.	Within 2-4	More than 4 years before death.	Infor	No mation.
Urban				-	1 22		10	-	-	MA	1	
Barking			27	3	7	4	6	1	2	1	- 3	
Braintree	444	100	4	***	i	1	2					
Brentwood			2	***	***	1	1			***	441	
Brightlingsea			4	112	114	***	2	***	1	***	1	
Buckhurst Hill Burnham-on-Crouch			5 2	1	1	***	1	1	1	***	***	
Canvey Island		**	5		5		1	***	10	***	***	
Chelmsford B.		10	18	3	3	2	2	ĩ	4	***	3	
Chingford	***		6	1	1		1		1	***	2	
Clacton-on-Sea			3			***	1	1	***		1	
Colchester B.	***		36	7	9	6	2	3	1	4	4	
Pagenham Epping	***	+	18	4	3		3	2	3	1	2	
Frinton-on-Sea	***	***	4	***	2	1	***	1	***			
Grays	***		ii	3	3	î		1	1	***	2	
Halstead			3		131		***	***		1	2	
Harwich B.			5	2	3				144	***	***	
Hornehureh	***		9	70	2	100	1	3	***	***	3	
Ilford Leyton	***		59	10 12	17	7	5	7	9	3	1	
7	***	***	90 5	1	17	12	15	6	11	6	11 2	
Maidon B.	***	***	1			***	3	***	1	***		
Romford	***	***	15	3	2	2	2	ï	2	***	3	
Saffron Walden B.	***		2	***	***	***	1	100	166	1000	1	
Shoeburyness		**	3	***	1		***	2	193	***	***	
Tilbury Waltham Walth Const	***		7	1	1	111	1	1	1	2		
Waltham Holy Cross Walthamstow			103	3 12	19	10	24		13	7	19	
Walton-on-the-Naze	***		100					9	10000	70	12	
Wanstead			3	1	ï	***	***			ï		
West Mersea	***	***	1	***	***	200		1	***		+44	
Witham	***		3		1	44.5	***	149	***	1	1	
Wivenhoe Woodford	***	***	6	2	***	***	i	ï	***			
Woodford	minimum.			4		1	-	1	***	(4.4	1	-
	Totals		467	69	102	48	75	42	52	24	55	
Rural.												
Belchamp	***		01	4	***					***	***	
Billericay	***	**	21 11	1	5	2 2	2	2	3 1	4	ï	
Bumpstead	***		3		2	2	***			***		
Chelmsford		7.50	13		4	2	2	1	2		1 2	
Dunmow	***		2	***		***	2	***	***	***	***	
Epping	134		2		***			1			1	
Halstead	***	***	13		4	1	3	1 2	1	ï	1	
Lexden and Winstree Maldon		***	10	1 2	3	***	700		1	3	1	
Ongar	***	***	8		4	111	**	1	1			
Orsett	W		15		5	1	1	1		1	6	
Rochford			18		3	4	1	***	1	1	8 2 3	
Romford			13	2	4	2	***	2	1	***	2	
Saffron Walden Stansted			6 3	1	1	1 1	ï	***	***			
Tendring	***	***	13	***	4		1	3	1	ï	3	
		400		***			-					-
Totals			155	11	44	16	14	15	12	11	32	
URBAN DISTRICTS			467	69	102	48	75	42	52	24	55	
RURAL DISTRICTS		417	155	11	44	16	14	15	12	11	32	
TOTALS			622	80	146	64	89	57	64	35	87	100

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The influx of population from London into the Dagenham and Becontree area has so materially increased the amount of tuberculosis visiting in this area that an additional Health Visitor is to be appointed.

## The County Scheme.

During the year the principles outlined in Memorandum 37 T. have been adopted. The object of the memorandum was to institute a uniform system of records and classification throughout the country, but perhaps its most important feature is the insistence of a definite diagnosis within three months. At the end of this time, which is the period allowed for observation, the patient must either be registered as tuberculous or discharged. Although absolute certainty in diagnosis cannot always be attained within a limited period, it is advisable from every point of view that patients should not continue to attend the dispensaries for indefinite periods unless a definite diagnosis has been made. The continued attendances of numerous doubtful cases causes congestion at the dispensaries and prevents adequate time being available for examinations of new cases and the routine work of the dispensaries.

Table XVIII. shows the Dispensaries and Visiting Stations as at 31st December, 1926.

During the year a new visiting station was opened at Dagenham in order to cope with the large number of tuberculosis patients who have taken up residence on the London County Council's Estate at Dagenham. It is hoped to open a fully equipped Combined Treatment Centre there in the near future.

Contacts. It will be seen from Table XIII. that in compaarison with the number of new cases examined during the year the number of contacts is small. Allowance has to be made, however, for the fact that a large number of contacts refuse to attend the dispensaries, and others who are not feeling ill find it inconvenient to go to the dispensaries although evening sessions are held in the more important areas. Nevertheless, the present position cannot be regarded as satisfactory and every effort is being made to ensure the examination of as many contacts as possible.

OBSERVATION CASES. It will be seen that a number of observation cases exceeded the period laid down by the Ministry of Health, but as this is the first year during which the new memorandum has been in force, a progressive reduction in this number may be anticipated.

Co-operation with General Practitioners. The number of Forms G.P. 17 and 36 completed by medical practitioners during the year is fairly satisfactory. The scheme outlined by the Ministry of Health in Memorandum 286 has been more rigidly enforced during the year, and co-operation between the general practitioner and the Tuberculosis Officer as a consultant is becoming more satisfactory, particularly now it is known that the services of a County Consultant are also available.

#### TABLE XVIII.

# DISPENSARIES AND VISITING STATIONS AT 31ST DECEMBER, 1926.

_		ND VISITING STATIONS AT 31ST	DECEMBER, 1320.
	Address,	Hours of Attendance.	Tuberculosis Officer.
1	Barking— 37, Linton Road	Mondays, 3 to 5 p.m. Thursdays, 10,30 a.m. to 12,30 p.m.	Kerr Simpson, M.D., D.P.B. M.R.C.P.
2	Braintree— Co-operative Buildings	Wednesdays, 11.30 a.m. to 1 p.m.	P. J. Gaffikin, M.C., M.D. B.Ch., B.A.O. D.P. d.
3	BRIGHTLINGSEA— New Church Schools	Wednesdays, 1st and 3rd in each month, 2 to 3 p.m.	W. A. Milne, M.B., Ch.B., D.P.H.
4	CHELMSFORD— General Hospital,	Fridays, 2 to 4 p.m.	W. B. Wood, M.A., M.D., M.R.C.P., D.P.H.
5	London Road CLACTON— Skelmersdale Road	Fri lays, 11 a.m. to 12 noon	W. A. Milne, M.B., Ch.B., D.P.H.
6	Colchester — 12, Trinity Street	Tuesdays, 10.30 a.m. to 12.30 p.m. Thursdays, 10.30 a.m. to 12.30 p.m.	W. F. Corfield, M.D., D.P.II W. H. Alderton, M.C., M.R.
7	Dagenham— 3, Finnymore Road	Thursdays, 10 a.m. to 12 noon and 2 to 4 p.m.	W. L. Yell, M.B., Ch.B., D.P.H.
8	DUNMOW— 47, Stortford Road	Tuesdays, 1st and 3rd in each month. 10.30 to 11.30 a.m.	P. J. Gaffikin, M.C., M.D., B.Ch., B.A.O., D.P.H.
9	EPPING— c/o Gas and Electricity Co. Office, High Street	Thursdays, 11.30 a.m. to i p.m.	L. S. Fry. M.B., Ch.B., M.R.C.S., L.R.C.P., D.P.H.
10	Grays— Hilldrop House, 59, London Road	Mondays, 4 to 6 p.m. Thursdays, 2 to 4 p.m.	W. f. G. Boul, M.D., Ch.B., D.P.H.
11	Halstead— Cut-l'atients' Dept., Cottage Hospital	Wednesdays, 2nd and 4th in each month, 11.30 a.m. to 1.30 p.m.	J. S. Ranson, M.R.C.S., L.R.C.P., D.P.H.
12	Harwich— c/o Mr. Woodward, Corner Chemist,	Tuesdays, 11 a.m. to 12 noon	J. Ramsbottom, M.B., Ch.B., D.P.H.
13	1. Church Street ILFORD— 38, Oakfield Road	Mondays, 7.30 to 8.30 p.m. Tuesdays, 3 to 5 p.m. Wednesdays, 10 a.m. to 12 noon. Fridays, 4 to 6 p.m.	W. L. Yell, M.B., Ch.B., D.P.H.
14	LEYTON— 180, High Road	Mondays, 2 to 4 p.m., and 6 to 8 p.m. Tuesdays, 10 a.m. to 12 noon. Thursdays, 10 a.m. to 12 noon, and 2 to 4 p.m. Fridays, 2 to 4 p.m.	P. L. T. Bennett, M.R.C.S. L.R.C.P., T.D.D., D.P.H. M. Barker, M.R.C.S., L.R.C.P. D.P.H.
15	Maldon- 114, High Street	Tuesdays, 2nd and 4th in each month, 10.30 to 11.30 a.m.	W. H. Alderton, M.C., M.R.C.S., L.R.C.P., D.P.H.
16	Romford — 29, Eastern Road	Tuesdays and Fridays, 9.30 a.m. to 12,30 p.m.	‡N. E. Chadwick, M.B., Ch.B. M.R.C.S.
17	SAFFRON WALDEN- Adult Schoolroom,	Tuesdays, 1st and 3rd in each month 2 to 4 p.m.	S. R. Richardson, B.A., M.D., B.Ch., B.A.O., D.P.H.
*1	High Street  8 SOUTHEND— 30, Clarence Street	Wednesdays, 2.15 to 4.15, p.m.	N. S. R. Lorraine, M.D., Ch.B D.P.H., F.R.S. (Edin.)
19	Walthamstow— 334, Hoe Street	Mondays, 2 to 4 p.m. Tuesdays, 2 to 4 p.m. Wednesdays, 10 a.m. to 12 noon, and 6 to 8 p.m. Thursdays, 2 to 4 p.m. Fridays, 10 a.m. to 12 noon	J. Sorley, M.A., M.D., D.P.H LL.B. M. Barker, M.R.C.S., L.R.C.P D.P.H.

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<sup>\*</sup>For cases from Rochford Rural District and Shoeburyness Urban District by arrangement with the County Borough of Southend,
‡Replaced Dr. Wilkins at the end of the year.

CLERICAL ASSISTANCE. There is no doubt that the various schemes which have recently been inaugurated by the Ministry of Health have increased the clerical work of the Tuberculosis Officers. It is recognised that the Tuberculosis Officers' time should not be taken up with clerical work, and the question of providing clerical assistance at each dispensary has received careful consideration throughout the year and the matter is at present being dealt with by a Sub-Committee of the Public Health Committee.

LIGHT TREATMENT. Most of the 1,048 attendances referred to were made at the Light Department of the London Hospital. In addition to these attendances, four patients were boarded out near to the London Hospital at the expense of the County Council in order to enable the patients to attend for daily treatment, which they could not otherwise have done owing to the distance of their homes from London.

It is interesting to record one particular case - a case of lupus of the face—which after attending the London Hospital for five years, has been discharged as cured.

Ultra Violet Light Treatment is also given at the Chadwell Heath Sanatorium for suitable male adult patients suffering from surgical tuberculosis.

ARTIFICIAL PNEUMO-THORAX TREATMENT. Patients requiring artificial Pneumo-thorax Treatment have been sent to the City of London Hospital for Diseases of the Heart and Lungs and to similar institutions. If X-rays are installed at Harold Court Sanatorium male patients recommended for this form of treatment, which is of the utmost value in selected cases, will obtain it at that institution.

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D.P.H.

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MIL.

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X-ray Facilities. In view of the increasing importance attached to the employment of X-rays in the diagnosis and treatment of pulmonary tuberculosis, it is satisfactory to be able to report progress in the facilities available throughout the County for this purpose. Arrangements have been made for a limited number of X-ray photographs to be taken at various hospitals throughout the County, and in one instance by a private radiologist.

The lack of an X-ray Department at the Harold Court Sanatorium has continued to be a source of difficulty and as mentioned above, it has been impossible to carry out artificial pneumo-thorax treatment at this Institution. Patients whose treatment necessitates the use of X-rays have had to be transferred to the Victoria Park Hospital. This matter is at present receiving the consideration of the Public Health Committee.

Dental Treatment. The number of patients receiving dental treatment during the year is not very high, but this is explained by the fact that most Approved Societies now include amongst their benefits the provision of dental treatment, and patients requiring such treatment therefore approach their Approved Societies. In addition there were 57 patients at sanatoria who were found to require dental treatment, and this was arranged either by a dentist visiting the sanatorium or the patient visiting the nearest dental clinic.

SHELTERS. During the year there was an average number of 75 domiciliary shelters occupied by patients at their homes.

EXTRA NOURISHMENT. The provision of extra nourishment during the year has been continued and every effort has been made to ensure that the patients granted extra nourishment come within the classification laid down by the Ministry of Health. An inquiry is also made into the financial circumstances of each patient before any assistance is given under the County Scheme.

The amount expended on extra nourishment during the year 1926 was £189 17s. 3d.

TRAVELLING FACILITIES FOR PATIENTS. Necessitous cases have been supplied with free travelling vouchers to enable them to travel to and from sanatoria, etc., and the cost of such vouchers issued during the year 1926 was £147 ls. 3d.

Contributions by Patients towards Cost of Treatment. The practice of asking patients or their parents to contribute according to their means towards the cost of institutional treatment or the provision of surgical appliances has been continued. The amount received from such sources during the year was £2,135 19s. 4d. Legal enforcement of such contributions by patients is to be deprecated, but the aim is to accept small contributions from a willing and grateful patient or guardian.

No contributions are asked for ex-service patients, necessitous cases, and patients who are only in receipt of National Health Insurance benefit.

Institutional Accommodation. The average number of 423 beds available for patients during the year proved to be insufficient. Towards the end of the year a heavy waiting list resulted. Provision has therefore been made for this number to be increased to 450 for the year 1927.

As there has hitherto been no adequate hospital accommodation available for advanced cases, 10 beds have been reserved for patients of this type at the Harold Court Sanatorium. This is not a satisfactory arrangement as the sanatorium should be reserved for the treatment of patients who are likely to derive benefit, if not a complete cure, from such treatment. The presence of patients, whose days are obviously numbered, at sanatoria must exercise a deleterious effect upon the other patients. Further, the situation of Harold Court Sanatorium in a district subject to invasion by winter fogs, makes its position far from ideal for the treatment of patients who require a dry atmosphere and warmth. Steps are therefore being taken to secure other accommodation for patients of the advanced type, and this matter will be dealt with in next year's report. Meanwhile, accommodation has been reserved at the Colchester Sanatorium for six patients (three of either sex) from the north-eastern portion of the County who require hospital treatment. This small provision appears to be sufficient for this area, but in the extra-metropolitan district 20 beds for men and ten for women would probably be the minimum required.

(£1, 3s. 5d.)

(£2, 58, 4d.)

(£2, 188, 4d.)

(£1, 12s, 5d.)

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STATEMENT SHOWING AVERAGE COST PER PATIENT PER WEEK FOR THE TREATMENT OF TUBERCULOUS PERSONS IN COUNTY SANATORIA DURING THE YEAR ENDED 31ST MARCH, 1927. (kindly supplied by the County Accountant).

of Patients	Average cost per Patient per week,	6. 888-52 88-52 2-39 17-76 9-11 11-05 8-66 5-08 10-15 17-91 9-55 11-9 11-9 11-9 11-9 11-9 11-9 1	281.37
SIBLE HEDINGHAM. (Average No. of Patients 39:84).	Amount.	609 593 119 119 8 8 120 120 130 14 15 15 15 15 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	1885
High Brech. (Average No. of Patients 35.97).	Average cost per Patient per week.	240.59 84.97 29.05 23.80 25.48 16.12 32.50 6.91 24.70 3.07 13.56 9.21 8.32 3.47 5.22.25	520-20
High (Average No	Amount.	1880 1880 1880 1880 1880 1880 1980 1980	4065
HAROLD COURT. (Average No. of Patients 51.42).	Average cost per Patient per werk.	d. 162-12 229-89 11-91 45-03 37-15 56-75 7-07 8-68 7-9-22 7-70 7-70 7-70 7-70 7-70 7-70 7-70 7	22-669
HAROLI (Average N 51:	Amount.	2568 133 133 133 133 503 503 1415 634 79 79 66 79 885 79 87 885 87 87 885 87 885 885 885 885 885	7817
BLACK NOTLEY. age No. of Patients 42°95).	Average cost per Patient per week,	112.52 130.31 7.29 7.29 14.47 114.47 118.29 3.32 5.47 23.04 4.39 8.32 8.43 8.43 8.43 8.43 8.43 13.29 13.20 1	389.53
BLACK NOT (Average No. of 42'95).	Amount.	201 1050 1216 68 219 135 182 263 8 124 31 31 31 31 31 31 31 31 31 31 31 31 31	3633
Item of Expenditure,		Salaries  Provisions Provisions Drugs and Medical Appliances Fuel, Light and Water Domestic Renewals, Repairs, &c. Laundry Structural Renewals, Repairs, &c. Garden Travelling Expenses of Patients and Staff Printing, Stationery, &c. Rates, Taxes, Insurance Rent and Loan Charges Capital Expenditure defrayed from Revenue Miscellaneous Gross Total Other Receipts	Nett Total

Female patients from the extra-metropolitan area who are suffering from an advanced type of the disease, have been sent to the Chingford Sanatorium—again not a satisfactory arrangement but the only feasible one under present conditions.

The accommodation at the County Sanatoria is much below that required for dealing with the large number of Essex patients requiring institutional treatment, and in consequence a considerable portion of these patients has had to be sent to outside institutions. This system has one advantage as it enables at institution to be chosen which is most suitable for the needs of the patient concerned. During the year a special effort has been made to select institutions which are suitable in all respects for the patients' needs. Thus, while the sanatoria near Colchester and at Black Notley are well suited for young patients with early disease, older patients and those suffering from more advanced disease require more sheltered conditions such as those provided at the Marillac Sanatorium, near Brentwood. As a result of this careful selection there has been a noteworthy absence of complaints during the year, and except where family affairs have necessitated a patient's return home, the periods of treatment recommended have in practically all cases been completed.

The Hermitage Sanatorium, Isle of Wight, has served as an annexe to the Harold Court Sanatorium. Patients who have made good progress in the latter institution and who are ready to commence graduated work on a more extended scale than is possible at the Harold Court Sanatorium, have been sent to the Hermitage Sanatorium. The Consulting Tuberculosis Officer has paid frequent visits to the Hermitage Sanatorium and a link has thus been maintained between the County Council and the patients sent to that institution. As a result of his representations certain improvements have been made in the details of the management at the Hermitage Sanatorium, where the patients now express themselves as well satisfied with the treatment they are receiving. The County is indebted to the Medical Superintendent and the Resident Medical Officer for the desire they have shown to co-operate with the County Council in everything tending to the increased comfort of the patients in their charge.

TUNE

Seven beds at the Chadwell Heath Sanatorium, which had been previously used for adult males suffering from various stages of pulmonary tuberculosis, were set aside for an observation block. A system for an exhaustive investigation of these cases has been drawn up in conjunction with the Consulting Tuberculosis Officer and Dr. W. L. Yell, the Visiting Tuberculosis Officer, and it is hoped to bring this scheme into operation early next year. These beds should meet a need which has been felt for a long while. It is hoped that similar facilities for female cases will also become available during the ensuing year.

CARE Associations. Table XX, shows the various Care Associations in the County. During the year a new Care Association was inaugurated for the Walthamstow district, where there is ample work for such an Association.

The work of the Care Associations has continued to be of the greatest value and the County Authorities are much indebted to the large number of voluntary workers who give so much time and care to this particular work.

The most valuable work performed by these admirable Associations has been (a) the provision of convalescent holidays for children known to have been exposed to tuberculous infection and (b) the finding of suitable employment for patients who have recovered their health by sanatorium treatment.

TABLE XX.

TUBERCULOSIS CARE ASSOCIATIONS IN ESSEX.

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Name of Association.	Day and Time of Meetings.	Year ended.	Income including Balance in	Expen	Other	Total No. of Cases	Nature of Assistance Provided.	
			hand.	assisted.	Items.	assisted.		
BARKING	Third Tuesday in the month at 8 p.m.	31/3/27	£ s. d. 280 2 8	£ s. d. 152 16 8	£ s. d. 12 4 7	49	Extra nourishment Clothing	
CHELMSFORD	Fourth Monday in each month at 7 p.m. (August and December ex- cluded)	31/3/27	388 7 3	240 4 8	49 9 61	48	Extra nourishment Clothing Nursing attendance Rail expenses Provision of tools and material for art work Convalescent treatment	
COLCHESTER	Friday, 7 p.m. No fixed dates.	31/3/27	15 0 6	6 8 4	1 6	6	Extra nourishment Clothing Dentures	
HALSTEAD	Second Tuesday in the months of Jan., April, July and Oct. at 2.45 p.m.	31/3/27	14 1 1 (Drawn from Central Fund of Halstead Care of Children Committee).		1 6 0	6	Extra nourishment	
ILFORD	First Thursday in each month at 7.30 p.m.	31/3/27	431 14 2	263 7 6	18 6 2	46	Extra nourishment Clothing Boots	
I EYTON	Second Friday in each month at 7 p.m.	31/3/27	480 4 11	262 9 5	38 4 0	133	Extra nourishment Clothing and boots Dentures Cash and loans Handicraft & training Convalescenttreatment Employment, provision of tools, etc. Advisory	
Romford	Third Friday in each month at 8 p.m.	31/3/27	352 5 2	210 9 10	54 14 10	47	Extra nourishment	
SAFFRON WALDEN	Fourth Tuesday in each month at 2.30 p.m.	30/4/26	103 11 10	63 11 11	3 13 10	21	Convalescent treat- ment at Hunstanton Extra nourishment	
‡ Walthamstow	First Friday in each month at 7 p.m.	31/3/27	26 19 6	4 0 10	6 15 6	34	Dentures Travelling expenses Clothing and boots Training (motor driving) Advisory	

TFor six months only. Association formed October, 1926.

## TUBERCULOUS INFECTION IN EARLY LIFE.

Tuberculosis is only the manifestation of local successes in an attack on the whole community by an adversary whose numbers are in the most literal sense of the word unlimited. We are too apt to think of Tuberculosis in terms of disease rather than in those of infection, and so to take too narrow a view.

In a civilised community the chances of infection are so manifold that few, if any, can hope to pass through life without acting at some period as the unwilling hosts of this all pervading microbe. The elimination of the tubercle bacillus in our time cannot be hoped for. The combined resources of the rest of the world devoted to four years of unintermittent slaughter failed to make any considerable impression on a population of 60,000,000 Germans. When we consider that a single consumptive may expectorate that number of tubercle bacilli ten times over in the course of 24 hours, it is obvious that the task of stamping out the bacillus is well nigh impossible.

In planning our campaign against Tuberculosis we must never lose sight of this fact; the sufferers from Tuberculosis whom we are called upon to treat are only the casualties of the campaign. The battle is not waged in the casualty clearing station and base hospitals. The attack is conducted elsewhere. Every measure designed to improve the general health of the community, and especially every effort to safeguard the health of the younger generation should be regarded as part of the antituberculosis campaign. It is better to erect sound defences than to multiply first aid posts. It was a wise man who first maintained that good houses are the best sanatoria. An open-air school is a sounder investment than a children's sanatorium.

The attack of Tuberculosis is primarily directed against childhood. The middle-aged consumptive, often at work, wholly unaware that his expectoration is loaded with tubercle bacilli and not seldom ignorant that he suffers from anything worse than Bronchitis, serves merely as an ordnance depôt from which the enemy draws his ammunition for use in his campaign against the young. The attack of Tuberculosis is well directed, for the defences of the young are weak and easily overthrown.

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It may be asked why only a minority of children suffers from tuberculous disease, for we know that chances of infection are manifold and have good reason to believe that few children can escape infection. The question is pertinent. The answer is not beyond dispute. Yet a clue to the solution of the problem may be found if we remember that two of the most important factors in determining the success of attack of any infectious microbe are the size of the infecting dose and the resistance of the individual. If the dose is massive, if the resistance of the individual is low, it will probably be successful; if both factors are combined the victim of attack will inevitably succumb.

Simple souls have always held that Nature, who provides convenient dock leaves in the vicinity of nettles, supplies a suitable antidote to every poison. The rule holds good when applied to the invasion of the human organism by bacterial poisons. In response to the stimulus of foreign bodies (as bacteria), the body provides specific anti-bodies to neutralise their baneful effects. But, whereas the poison is destroyed the antidote, once formed, remains and forms a reserve capable of being used in the future. Repeated infections by constantly stimulating the defensive mechanism of the body will thus result at last in more or less complete immunity to attack by the special microbe concerned, provided the attack is not too strong or the defence too weak. The resistance of the individual is thus built up by degrees. On the other hand, severe infection may overwhelm the body before its defensive forces have been mobilised. Between these extremes alternating successes may lie with microbe or antidote, leading to disease on the one hand and healing on the other.

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Let us apply these principles to the problem we are considering. Consider the case of an infant exposed to massive infection with tuberculosis through close contact with a consumptive mother. Infection will almost inevitably occur before the child's defence has been established. We should expect an acute attack of Tuberculosis and a fatal result. Mortality rates in young children exposed to such risks abundantly support our expectation.

The number of children exposed to the risks indicated above is, however, not large. Infection of milder degree is much more common. During the period in which immunity is being established, if the efforts of the body to counteract the effects of tuberculous infection are supported by good hygienic conditions, the child may pass through the period of infection and the establishment of immunity without suffering in any way. In other instances, immunity is not established without a keen struggle. The child's body becomes the field of a stubborn contest between attack and defence. Malnutrition, pallor, fever, lassitude, bear witness to the struggle that is taking place. The issue hangs in doubt. As yet, no definite sign of tuberculous disease is forthcoming. It is to a child in this condition that the term "pre-tuberculous" has been applied and such form no small proportion of children admitted to sanatoria. The term is unscientific. The "pre-tuberculous" child is in reality the "post-tuberculous" child, a child infected with tubercle which has not yet obtained sufficient foothold to cause obvious pathological change in any organ but which is striving to obtain such a footing as will enable it to produce disease. Some clinicians, indeed, regard this as a stage through which most children must pass, and have drawn an analogy between Mange in puppies and Tuberculosis in childhood. This represents an extreme view which cannot be substantiated. Tuberculous infection is only one of the causes of debility in childhood and the results of a slow poisoning of the tissues by the poisons given off by the tubercle bacillus closely resemble! those due to infections by other bacteria. The child who is suffering from the milder grades of rheumatism or from septic conditions

of the throat and nose, presents a picture very similar to that of the child infected with tubercle. A disordered condition of the digestive system due to improper feeding, also gives rise to a chronic malaise sometimes difficult to distinguish from the results of a bacterial invasion. The problem that confronts the Tuberculosis Officer in the children's clinic at the dispensary is thus one of great complexity, and without a period of close observation and investigation at a residential institution it is often impossible to decide whether a child is or is not suffering from latent Tuberculosis.

"Consumption" in the sense in which the word is applied in adults is one of the rarest of children's diseases. It is not easy to say why this should be so. It is probable that consumption in the adult is usually the result of infection in earlier life. The tubercle bacillus having gained an entrance into the body and having suffered heavy casualties from the defensive forces of the body seeks refuge in glands or other deep-seated organs; at a later date, when the strain of adolescence causes a weakening of the body's resistence to disease, the dormant bacilli emerge from their hiding places, attack the lungs and pulmonary tuberculosis results. From the age of puberty to that of full growth pulmonary tuberculosis is common Before this period it is as we have seen, very rare. It is noteworthy that in middle age, when the physical powers begin to decline, pulmonary tuberculosis often breaks out in those who have suffered from abortive disease in earlier life. A resistance till now sufficient to hold the tubercle bacillus in check wanes and a sluggish type of disease is the result, proving that though resistance is diminished it is not by any means abolished.

Pulmonary tuberculosis occurring in young adults may, as we have seen, be the legacy of an infection in childhood. An example may serve to emphasise this point: "Mrs, P., a poor widow occupying a small wooden cottage in the marshes of South Essex contracted pulmonary tuberculosis. She was under treatment for many years at one of the dispensaries and brought with her her two small boys as contacts to be kept under observation. One of these was under continuous observation from the age of 4 to 14 years. Living in such intimate contact with a case of open Tuberculosis under conditions the reverse of helpful, infection was inevitable. The boy's physical condition remained poor, but he developed no signs of active disease. His mother died when he was about 10 years old. At the age of 16 he began to suffer from cough and at once reported to the local Dispensary and was admitted to a County sanatorium, suffering from a sluggish type of pulmonary tuberculosis." The outlook in such a case is hopeful. If he had not established a fair resistance he would have died in early childhood. We may assume that the mother had learnt careful habits through the dispensary, and that though infection was inevitable he was not subjected to massive doses of bacilli. Under the strain of adolescence a breakdown occurs. The sanatorium provided the means of restoring his resistance to its former level.

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If the only types of Tuberculosis occurring in children and young people were those we have been considering, the problem of Tuberculosis would give rise to little anxiety. The acute Tuberculosis of early infancy is preventable. No baby need be exposed to the risk of massive tuberculous infection. The baby plays a passive rôle and infection is the result of crass ignorance or gross carelessness on the part of others.

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The child of school age cannot be protected from the risks of contact with the outer world, but as we have seen, infection if not overwhelming by reason of dose or constant repetition can be resisted. We need feel no special anxiety about the future of the "pre-tuberculous" child. The after history of children who have passed through Sible Hedingham is suggestive.

Of 73 children treated at the Sanatorium in 1920, 7 have been "lost sight of," 60 are reported to be free from any signs of active Tuberculosis, while 6 are dead. Tuberculosis is reported as the cause of death, but this figure is probably too high. A diagnosis of Tuberculosis has an adhesive quality. A delicate child who has passed through a children's sanatorium dies of simple broncho-pneumonia. Death will probably be attributed to a tuberculous broncho-pneumonia. An infant coming from tuberculous stock dies of acute inflammation of the intestines. "Consumptive bowels" will be given as the cause of death. But the all-important fact to be noted is that the large majority of children diagnosed as suffering from tuberculous infection in early life recover and remain free from the signs of tuberculous disease.

From the age of about 14 years onward, through adolescence and early adult life, we encounter a type of tuberculous infection of far more sinister import than that which occurs during the elementary school period. This is the form of consumption that causes the early decline so dreaded by former generations and which remains the chief cause of death among the young of to-day. Now, if we go into the past history of young patients suffering from Pulmonary Tuberculosis of this type, who exhibit the classic signs of the disease—the "churchyard cough," the hectic flush, the wasting frame, and the pathetic hopefulness of outlook when manifestly all hope is gone, we shall be struck by the fact that a history of a healthy childhood is the rule. The early days of these patients were not associated with the Cod Liver Oil pot, the School Clinic was seldom visited for those "proper examinations" that now rival the bottle of medicine in popular esteem. Suddenly out of a cloudless sky the bolt falls. The young person "who has never known a day's illness" develops a a cough. After a few weeks the signs of manifest ill-health compel a visit to the doctor or dispensary and the signs of the disease, acute and rapidly spreading, are found. In many cases a near relative, a parent, brother or sister, is known to have died of the disease; in others, the examination of contacts reveals some member of the household to be acting as a "carrier," but frequently no possible source of infection is found. We are left in doubt whether a recent massive infection has overwhelmed the patient or whether an infection received in earlier life, lying dormant through the sheltered years of childhood, has broken out at a time when the strain

of life has suddenly increased, for it will be noted that Tuberculosis of the Lungs is prone to manifest itself when the strain of life begins or the vitality of life declines. One thing at least is obvious, the patients in this group have not acquired adequate resistance to tuberculous attack. A few acquire resistance during the course of the disease, and after a long struggle win their way back to a measure of health. But such a happy result is rarely attained, and while it is true that arrest of the disease may occur at any stage of its course, we should not be far from the truth in saying that the finding of the tubercle bacillus in the spit of a young person of the industrial class is almost equivalent to a sentence of death.

The statement frequently made that consumption is incurable is patently untrue if applied to Tuberculosis in general. If applied to the type of disease we are now considering it is not far from the truth, and though in a few cases the early adoption of the open-air life may just suffice to turn the scale and lead to arrest, in most instances sanatoria can only delay the inevitable end or hospital treatment palliate the sufferings of the dying.

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It is the fact that Tuberculosis exhibits so great a variety of types that has made it a happy hunting ground for the quack who plays upon the fears of those who are not suffering from it, effects "cures" in those whose resistance is good and who are in no serious danger, and raises cruel expectations among those whose days are numbered. Occasionally, even in the group we have been discussing, sanatoria treatment or some unknown factor increases the resistance of the patient before the disease has progressed very far, and healing results. In a few instances, the attack proves abortive. Surgical treatment of the lungs (e.g., artificial pneumo-thorax) yields excellent results in the limited number of cases suitable for treatment of this kind. Sanatoria are valuable allies to patients whose resistance is lowered. But we are still searching for some means of creating resistance in those who do not possess this power of response to tuberculous invasion. Till this is found it is probable that the credulous will continue to herald the arrival of "specific cures," whether emanating from the laboratory of the research worker or springing like Minerva, fully matured at birth, from the brain of the philanthropist whose welcoming right hand extends an infallible cure while his more reticent left conceals a cash box. Nor is the apparent success of these May-fly specifics, born at sunrise and dead at sundown wholly illusory. The mind of the tuberculous intoxicated by the subtle poisons which the bacillus supplies, is peculiarly susceptible to suggestion. The flagging body does respond for a brief period to the exciting stimulus of a new hope. Unhappily, such improvement is apt to be as short lived as the career of the remedy

The exploitation of suggestion by the quack who preys on suffering for his personal gain is shameful. But the power of suggestion rightly employed is not to be despised. There are dispensaries whose dreary aspect must exercise a depressing effect on both doctor and patient. The outward expression of a sanatorium, like that of a gloomy physician may suggest a hopeless prognosis. A cheerful scheme of decoration may be an effective aid to treatment.

The forms of Tuberculosis termed "surgical" which attack bones and joints. glands and skin, are relatively benign. Disease of this type is, as a rule, obvious from the start, and modern methods of treatment yield brilliant results. Moreover, infection of this kind is usually met by a stubborn resistance on the part of the tissues attacked. It is therefore not surprising that Pulmonary Tuberculosis is a very rare complication in this group.

In the light of the above facts, it is clear that the most important part of our Anti-Tuberculosis Scheme is that which concerns childhood. Let us consider, briefly, whether our schemes are well and truly laid.

- (a) Infants must be protected from infection. Under the Grancher System in France, the children of tuberculous parents suffering from active disease are removed from their infectious relative and "boarded out" in the country. Tuberculosis is not a hereditary disease, and such children once removed from the source of danger are no more liable to develop Tuberculosis than others from healthy families. It would be impossible to carry out this system without legal powers. The question whether compassion for maternal feelings should be permitted to outweigh grave danger to a child's life need not be discussed here. Maternity and Child Welfare Centres should, however, keep lists of all women suffering from active Pulmonary Tuberculosis who are in charge of children and their homes should be visited every week. There is also need for further instruction to be given on the subject of tuberculous infection. As the result of a couple of generations of propaganda, the public does now at last appreciate that Tuberculosis is an infectious disease. But the pendulum has swung too far, and a person who with more or less reason has been labelled tuberculous is in danger of being treated as a pariah. Parents should be taught that children are in danger of infection from two sources, and from only two sources-from infected milk and from the company of persons whose spit contains tubercle bacilli. All their attention and care should be concentrated on these two points. At present, fear is widespread and bewilderment often leads to ineffective action. Even the active consumptive is comparatively harmless if his habits are cleanly.
- (b) The "pre-tuberculous" child is in no danger of suffering from lack of observation. Unfortunately, dispensary observation is not curative, and our provision for treatment in open-air schools and children's sanatoria is inadequate. The proper place for a child suspected of harbouring tubercle bacilli but not exhibiting any signs of definite disease is the open-air school. There are 130,000 children in the elementary schools of Essex and the residential accommodation in open-air schools for delicate children is limited to 12 beds at the Ogilvie Home. The child who aspires to Ogilvie should be something of an optimist. For children who, in the opinion of the Tuberculosis Officers are under more definite suspicion of tuberculous infection, there are 31 beds at Sible Hedingham Sanatorium. The work done here is valuable, and many children have recovered health in this pleasant holiday home.

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As a "preventorium," it merits the good reputation it has gained, but an institution where there is no Resident Medical Officer, where there is no X-ray installation and where there are no facilities for carrying out pathological work, obviously does not provide for the proper investigation of Tuberculosis. The East Anglian Children's Sanatorium provided accommodation for 37 Essex children during the year, while 13 Essex boys were under treatment at the Church Army Sanatorium at Farnham. These institutions are excellent, and the County is indebted to the responsible authorities for permission to make use of them. It is, however, not very satisfactory to send children so far from their homes.

- (c) Children suffering from definite "Consumption" are provided for at the East Anglian Children's Sanatorium, or if over the age of 14 years at one of the County Sanatoria. The total known number of such cases in children of 14 years of age and under, in which the diagnosis has been confirmed bacteriologically was only 23 in the whole County in 1926, out of a total child population of some 200,000.
- (d) Children suffering from "Surgical Tuberculosis" are admitted to High Beech where preference is given to those with bone and joint disease. Admirable work is being done at this institution, but despite the fact that many children are treated at outside institutions there is always a waiting list, and the number of beds is inadequate to meet the needs of the County.

Is it possible to take any steps to anticipate the scourge of "Consumption" in adolescence and early adult life? The steps already taken to safeguard the "pretuberculous" are, as already indicated, ineffective to reduce the tragic toll that this type of Tuberculosis takes of the young life of the country. The warning signs which enable us to take preventive measures in the former group are lacking in the latter. The problem is one of extreme difficulty and urgency. No satisfactory solution has yet been found, but certain precautions might be taken.

It was formerly the custom to attach to the School Medical Inspection Card of children marked as special cases an additional pink card giving details of special defects. In order to simplify records and reduce clerical work the special cards were abandoned some years ago. The ordinary medical inspection cards are so crowded with details that there is no space left for the adequate record of any specially important circumstances bearing on the child's health. In order to concentrate attention on the need for a more careful watch over certain children, special cards similar to those formerly in use might well be employed in the following cases:—

- (i) For a child known to have lived in contact with a case of "open Tuberculosis," *i.e.*, one whose expectoration contains tubercle bacilli. Proof of this could usually be obtained from the local Tuberculosis Officer.
- (ii) For a child known to have suffered from tuberculous disease of any kind.

- (iii) For the child believed to have had "a primary infection," i.e., a pre-tuberculous child.
- (iv) For a child whose appearance suggests the type of constitution usually associated with a low resistance to tuberculous infection.

In each case the reason why a special card had been given would be clearly stated.

On leaving school a child's special card would be detached from the school records and sent to the Tuberculosis Department at Chelmsford, where it would be available for reference in the event of Tuberculosis developing at a later date. Such records would provide a valuable basis for research while leading to closer observation and earlier diagnosis of adolescent phthisis.

W. B. WOOD, May, 1927.

TABLE XXI.

SHOWING ATTACK AND DEATH-RATES FROM TUBERCULOSIS IN THE ADMINISTRATIVE COUNTY OF ESSEX.

		Pulm- Tubero	onary culosis.			Non-Pu Tubero	lmona culosis,	ry	Tuberculosis (Ali Forms).				
YEAR.	Noti- fica- tions.	Kate per 1,000 Pop.	Deaths.	Rate per 1,000 Pop.	Noti- fica- tions.	Rate per 1,000 Pop.	Deaths.	Rate per 1,000 Pop.	Noti- fica- tions.	Rate per 1,000 Pop.	Deaths.	Rate per 1,000 Pop.	
1921-25	1131	1.21	666	0.71	307	0.32	153	0.16	1439	1.54	818	0.87	
1925	1257	1.30	690	0.72	429	0.44	149	0.15	1686	1.74	839	0.87	
1926	1240	1.25	616	0.62	359	0.36	141	0.14	1599	1.61	757	0.76	

## PART III.

# MATERNITY AND CHILD WELFARE ACT, 1918. NOTIFICATION OF BIRTHS ACTS, 1907 & 1915.

(1) COUNTY AREA. During the year 1926 the County Council were responsible for administering the above Acts in the following 28 Sanitary Districts:—

		Popula-		Births ied by	No. of	Deaths	Deaths	No. of Notifi- cations of	
Sanitary Districts.	Acreage	tion, 1921.	Mid- wives.	Doctors and Parents.	Births Unnoti- fied.	Infants under 1 year.	of Mothers	Puer- peral Fever.	Oph- thalmir Neona- torum
Maldon B	3,028	6,590	29	70		7	***		2
Saffron Walden B	7 500	5,874	17	37	4/1	3	1	1	
Braintree U	0.004	6,970	77	26		2			
Brentwood U	400	6,853	58	56	2	6			1
Brightlingsea U	D DEE	4,500		56		1			
Burnham-on-Crouch U		3,434		48	***	2	100		
Canvey Island U	4 400	1,795	22	30	***	4		***	
Chingford U	0.000	9,482	48	134	38	10	1	1	
Epping U	1 400	4,196	21	56	5	3			1
Frinton on Sea U	400	3,032		16		1	***		***
Halstead U	0.17	5,923	32	45		4			1
Shoeburyness U	1 096	6,413	84	37	3	6	1		2
Walton-on-the-Naze U	0.040	3,664		33		1			1
Witham U	0 519	3,717	42	37		2	1	4.00	1
Wivenhoe U	1 504	2,329	16	13	3	2		1	
Belchamp R	96 500	4.219	29	44	1				1
Billericay R	10.904	24,211	327	178	25	30	5	4	2
Braintree R	00 940	18,779	113	129		6	1		
n 1 D	11 074	2,376	33	9		3	1		1
	=0 E00	15,352	88	106	21	9	2		
	CO OFF	14,625	139	68	17	12	1	1	1
Epping R	90 710	9,743	29	77		5			1
43 C 11 D	60 940	16,479	84	64	5	12	1	1	2
And see the control of the control o	47 090	10,054	44	114	23	13		1	1
Owner and	En eng	21,068	222	343	12	34	1		2
TRANSPORTER OF THE PARTY OF THE	E0 075	10,087	76	32		6	1		1
	00.054	6,828	57	37	10	2	î		
err t T	73,131	21,721	205	226	3	16	1 .	1	
	676,282	250,314	1,892	2,127	168	202	16	9	11

\*From 1st April, 1926.

The Ministry of Health issued an Order, dated 19th January, 1926, making the County Council the Authority under the Notification of Births Acts in the Maldon Rural District, to take effect from 1st April, 1926.

TABLE XXII.

SHEWING SUMMARY OF CHILD WELFARE WORK CARRIED OUT BY EACH HEALTH VISITOR AND DISTRICT NURSE-MIDWIFE.

										tat sits,
Live Births.	Still	s.	Pre-	Post- Natal,		Pre- Natal.	Post- Natal.		Pre- Natal.	Post- Natal.
155	7		2	90		676	1483		678	1573
114	4		91	1493		552	1236		643	2729
173	7		35	966		273	625		308	1591
29			34	210		187	357		221	567
250	7		35	987		503	1955		538	2942
238	8		39	990		269	362		308	1352
33	-		65	759		-	-		65	759
116	3		10	228		494	1196		504	1424
160	9		5	205		818	1395		823	1600
168	7		38	677		1011	1218		1049	1895
246	3		15	1194		499	727		514	1921
248	10		-	294		1120	1469		1120	1763
156	2		155	1070		204	382		359	1452
79	4		-	260		146	408		146	668
129	2		13	653		-	-		13	653
77	4		6	278		144	158		150	436
176	6		21	590		-	-		21	590
25	1		3	142		78	127		81	269
232	9		24	442		419	345		443	787
293	12		5	1154		397	662		402	1816
424	18		82	2378		554	827		636	3205
359	16		60	1567		211	231		271	1798
	recei Live Births. 155 114 173 29 250 238 33 116 160 168 246 248 156 79 129 77 176 25 232 293 424	Births. Births 155 7 114 4 173 7 29 - 250 7 238 8 33 - 116 3 160 9 168 7 246 3 248 10 156 2 79 4 129 2 77 4 176 6 25 1 232 9 293 12 424 18	received. Live Still Births. Births.  155 7  114 4  173 7  29  250 7  238 8  33  116 3  160 9  168 7  246 3  248 10  156 2  79 4  129 2  77 4  176 6  25 1  232 9  232 9  232 9  233 9  244 18	received. No of Live Still Pre-Births. Births. Natal. 155 7 2 114 4 91 173 7 35 174 175 175 175 175 175 175 175 175 175 175	received, Live Still Pre-Births. Births. Natal.         No of Visits. Pre-Post-Natal.         Post-Natal. Natal.           155         7 2 90         90           114         4 91 1493           173         7 35 966           29         34 210           250         7 35 987           238         8 39 990           33         65 759           116         3 10 228           160         9 5 205           168         7 38 677           246         3 15 1194           248         10 294           156         2 155 1070           79         4 260           129         2 13 653           77         4 6 278           176         6 21 590           25         1 3 142           232         9 24 442           232         9 24 442           233         12 5 1154           424         18 82 2378	received.         No of Visits.           Live         Still         Pre-Post-Natal.           Births.         Births.         Natal.           155         7         2         90           114         4         91         1493           29         -         34         210           250         7         35         987           238         8         39         990           33         -         65         759           116         3         10         228           160         9         5         205           168         7         38         677           246         3         15         1194           248         10         -         294           156         2         155         1070           79         4         -         260           129         2         13         653           77         4         6         278           176         6         21         590           25         1         3         142           232         9         24         442	received, Live         No of Visits. Presenths. Natal.         No. of Presenths. Natal.         No. of Presenths. Natal.         No. of Presenths. Natal.         Natal. Natal. Natal. Natal. Natal.         Natal. Natal. Natal. Natal. Natal.         Natal. Natal. Natal. Natal. Natal. Natal.         Natal. Natal. Natal. Natal. Natal. Natal. Natal. Natal.         Natal. Nata	received, Live         No of Visits.         No of Visits.         No of Visits.         Pre-Post-Natal.         No of Visits.         Pre-Post-Natal.         Natal.         N	received, Live         No of Visits. Pre- Post- Natal.         No. of Visits. Natal.         No. of Visits. Natal.         No. of Visits. Natal.         Pre- Post- Natal. Natal.         Pre- Natal. Natal. Natal.         Pre- Natal. Natal. Natal.         Natal. Natal. Natal.         Natal. Natal. Natal.         Natal. Natal. Natal.         Natal. Natal.         Na	received, Live         Still Pre-Births. Births.         No of Visits. Natal.         No. of Visits. Natal.         No. of Visits. Natal.         Visits. Natal. Natal.         Visits. Natal. Natal. Natal.         Pre-Natal. Natal. Natal. Natal. Natal. Natal.         Pre-Natal. Natal. Natal. Natal. Natal. Natal. Natal.         Pre-Natal. Natal. Natal. Natal. Natal. Natal.         Pre-Natal. Natal. Natal. Natal. Natal. Natal. Natal.         Pre-Natal. Natal. Natal. Natal. Natal. Natal. Natal.         Pre-Natal. Natal. Natal. Natal. Natal. Natal. Natal. Natal. Natal.         Pre-Natal. Natal.

Totals .. 3880 139 .. 738 16627 .. 8555 15163 .. 9293 31790

\*Maldon Rural as and from 1st April, 1926.

The Health Visitor for Burnham Urban and Maldon Rural South-East was away three months on account of accident, and the Health Visitor for Chingford was granted leave of absence for the last three months of the year.

On 8th December, 1926, an Order was issued under which the County Council was made the Notification of Births Acts Authority in the Urban Districts of Hornchurch and West Mersea and the Rural District of Romford, this Order to operate from 1st January, 1927.

The County Council is not the Authority under the Notification of Births Acts in the Rural Districts of Chelmsford, Lexden and Winstree and Orsett, nor in the following Urban Districts which are not autonomous Part III. Education areas:—Buckhurst Hill, Clacton-on-Sea, Dagenham, Grays, Loughton, Romford, Tilbury, Waltham Holy Cross, Wanstead and Woodford.

(2) Medical Service. On 6th October, 1926, the Medical Staff was augmented by the appointment of Dr. William Harvey, as additional Assistant County Medical Officer for the Brentwood. Billericay and Ongar Districts, his duties to include those of Child Welfare Medical Officer for that area.

In connection with the Scheme for the treatment of orthopædic patients (non-tubercular), arrangements were made for the attendance of an Orthopædic Surgeon at Clinics for an experimental period of 12 months from October, 1926, at £3 3s. per session plus travelling expenses.

Reference is made on page 70 of this report to the new Regulations which came into operation on 1st October, 1926, regarding the notification of Puerperal Fever and Puerperal Pyrexia. The County Council in 1927, agreed to the appointment of an Obstetric Specialist to attend a limited number of cases, the total fees not to exceed £105 plus travelling expenses, for an experimental period of 12 months.

(3) NURSING SERVICE. On 31st December, 1926, the number of Health Visitors carrying out Maternity and Child Welfare duties was as follows:—

The District Nurse-midwives continue to assist the Health Visitors in the supervision of the health of mothers and children.

A summary of work carried out by the Health Visitors and District Nursemidwives during the 12 months ended 31st December, 1926, is given in Table XXII.

(4) CHILD WELFARE CENTRES. The following Table shows the Child Welfare Centres receiving maintenance grants from the County Council under the "Objects and Conditions" laid down by the County Council and adopted by the Local Voluntary Committees in charge of the Centres:—

# TABLE XXIII.

Name and Address of Centre.  Approximate population served.  Abridge, Parish Room Billericay, Women's Institute Hall Bocking, Village Hall London Rose gational Chapel, London Rose Geological Standard S					
Billericay, Women's Institute Hall Rocking, Village Hall London Road Brentwood, Congregational Chapel, London Road Brentwood, Congregational Sunday Schools, South Street Brightlingsea, New Church Schools Brook Street (South Weald), Village Hall Chingford (South) Hampton Road Congregational Church Rooms Chingford (North), 6, King's Road (Opened November, 1926) Debden, Memorial Hall Earls Colne, Village Hall Legistry, Colleging, Women's Institute Hall, St. John's Road Halleigh, Church School Harbor, Women's Institute Club. Hatheld Heath, Men's Institute Club. Hatheld Heath, Heath, Heath, Heath, Hea	Name and Address of Centre.	imate population	Sessions.	attendances of infants and children in	Medical Officer.
Billericay, Women's Institute Hall Rocking, Village Hall London Road Brentwood, Congregational Chapel, London Road Brentwood, Congregational Sunday Schools, South Street Brightlingsea, New Church Schools Brook Street (South Weald), Village Hall Chingford (South) Hampton Road Congregational Church Rooms Chingford (North), 6, King's Road (Opened November, 1926) Debden, Memorial Hall Earls Colne, Village Hall Legistry, Colleging, Women's Institute Hall, St. John's Road Halleigh, Church School Harbor, Women's Institute Club. Hatheld Heath, Men's Institute Club. Hatheld Heath, Heath, Heath, Heath, Hea	11-11- P. 11 P.	1044	A16 4 . 377 1 . 3	440	TO TO TO
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Brentwood, Congregational Sunday Schools, South Street   Brightlingsea, New Church Schools   4500   1st and 3rd Wednesdays   1174   1	Braintree, Congregational Chapel,				M. D. Rankine.
day Schools, South Street   Asing Prightlingsea, New Church Schools   Brook Street (South Weald), Vil.   lage Hall   Canvey Island, Whitter Hall   Chingford (South) Hampton Road   Congregational Church Rooms   Chingford (North) 6, King's Road (Opened November, 1926)   Debden, Memorial Hall   Earls Colne, Village Hall   2732   Island 3rd Wednesdays   273   W. A. Milne.   W. Harvey.   R. M. Barker.   W. Harvey.   W. H	London Road	2000		****	*** **
Brightlingsea, New Church Schools Brook Street (South Weald), Village Hall Canvey Island, Whitter Hall . 6000 Congregational Church Rooms Chingford (South) Hampton Road Congregational Church Rooms Chingford (North). 6, King's Road (Opened November, 1926) Debden, Memorial Hall Earls Colne, Village Hall . 2732 Epping, Women's Institute Hall, St. John's Road Hadleigh, Church School . 2246 Hallstead, Technical School . 5923 Harlow, Women's Institute Club . 5923 Harlow, Women's Institute Club . 4900 Hathfield Pewrel, Village Hall . Hotheld Reath, Men's Institute . 1564 Hathfield Pewrel, Village Hall . Hotheld Reath, Men's Institute . 1564 Hathfield Pewrel, Village Hall . Hotheld Reath, Men's Institute . 1564 Hathfield Pewrel, Village Hall . Hotheld Reath, Men's Institute . 1564 Hathfield Pewrel, Village Hall . Hotheld Reath, Men's Institute . 1564 Hathfield Pewrel, Village Hall . Hotheld Reath, Men's Institute . 1564 Hathfield Pewrel, Village Hall . 1600 Hathfield Pewrel, Village Hall . 1600 Hathfield Reath, Men's Institute . 1564 Hathfield Pewrel, Village Hall . 1600 Hathfield Pewrel	Brentwood, Congregational Sun-	6853	Alternate Fridays	1145	W. Harvey.
Brook Street (South Weald), Village Hall Canvey Island, Whitter Hall Canvey Island Counted November, 1926  Tuesdays  Sand Tuesdays  Sand Fridays  Island Srd Tuesdays  Sand Tuesdays  Thursdays  Sand Tuesdays  This Wednesdays  Sand Tuesdays  This Wednesdays  The Wathey.  Sand Tuesdays  This Wathey.  This Wathey.  This Wednesdays  This Wathey.  This Wath	Brightlingsea, New Church Schools	4500	1st and 3rd Wednesdays	397	W. A. Milne.
Lage Hall	Brook Street (South Weald), Vil-				
Chingford (South) Hampton Road Congregational Church Rooms Chingford (North). 6, King's Road (Opened November, 1926)   1214	lage Hall	1000		202	
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Chingford (North). 6, King's Road (Opened Movember, 1926)   Debden, Memorial Hall   2732   1st and 3rd Wednesdays   272   272   1st and 3rd Tuesdays   272   272   272   272   273   274   275	Congregational Church Rooms	0000	ruesunys	131	M. Darker.
Opened November, 1926  Debden, Memorial Hall   2732	Chingford (North). 6, King's Road	6000	Thursdays	156	M. Barker.
Earlis Colne, Village Hall   2732   Ist and 3rd Wednesdays   272   Ist and 3rd Tuesdays   1646   A. Watney.	(Opened November, 1926)			000	a n n
Epping, Women's Institute Hall, St. John's Road Hadleigh, Church School Harlow, Women's Institute Club. Harlow, Women's Institute Club. Hatfield Heath, Men's Institute 1564. Hatfield Peverel, Village Hall Control Council Scheme, April, 1926) Laindon, Manor Hall Maldon, Progressive Club Matching Tye, Women's Institute Hall Parkeston, Weeley Schoolroom, Garland Road, (Opened May, 1926) Ramsden Heath, Club Room, Leslie Cottage, Downham Rochford, Congregational Rooms Safron Walden, Central Hall, High Street Sheering, Parish Room Sheeburyness, Council Offices Sible Hedingham, Women's Institute, Hall Theydon Bois, Sorrell Room Thundersley, Church Schools Dischemental County Council, April, 1926) Great Wakering, Village Hall County Council, April, 1926 Great Wakering, Village Hall Warley, Parochial Hall, Brent Wood Road Weeley, Public Health Offices Weeley Scholing-Weeley Scholing-Weeley Scholing Witham, Church House, Colling-Weeley, Public Health Offices Weeley, Public Health Offices Weeley Read Weeley, Public Health Offices Weeley, Public Health	Debden, Memorial Hall				
St. John's Road   Hallested, Church School   1923   18t and 3rd Tuesdays   1732   18t and 3rd Tuesdays   18t and 3rd Tuesdays   18t and 3rd Tursdays   18t Tursdays   18	Epping. Women's Institute Hall.				
Halstead   Technical School   Harlow   Women's Institute Club   15923   3200   13200   1344   1564	St. John's Road				
Harfled Heath, Men's Institute   1564   1564   1564   1564   1564   1600   1600   16	Hadleigh, Church School				
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Weeley, Public Health Offices 4000 1st and 3rd Fridays 21 J. Ramsbottom.		3717	2nd & 4th Wednesdays	320	M. D. Rankine.
(Opened November, 1926)		4000	1st and 3rd Fridays	21	J. Ramsbottom
	(Opened November, 1926)		Lot min ord Fridays in		o . Assumano comin

As indicated in the foregoing Table, new Centres were opened at North Chingford, Parkeston and Weeley. Heybridge and Tollesbury Centres were also included in the scheme when the County Council became the Notification of Births Acts Authority in the Maldon Rural District.

For particulars regarding Combined Treatment Centres, see page 39 of this report.

- (5) PROVISION OF MILK. The two schemes outlined in the report for the year 1922, for the Provision of Milk (a) for districts served by Centres, and (b) for districts not served by Centres were continued during the year.
- (a) Districts served by Child Welfare Centres. The total amount claimed from the County Council by Child Welfare Centres was £250 11s., representing assistance to 160 families.
- (b) Districts not served by Centres. Under this scheme 147 mothers and 83 infants were granted supplies of cows' milk and dried milk for varying periods, free of charge, at a total cost of approximately £367 19s. 4d.

Dried milk was also supplied, at cost price, to Child Welfare Centres, and persons recommended by the Health Visitor.

(6) Dental Scheme. An outline of the Dental Scheme was given in the last report. This was adopted in September, 1926, by the following Child Welfare Centres who were allowed a grant of not exceeding £10 to form a moiety of the net expenditure for the year ended 31st March, 1927:—Braintree, Brightlingsea, Chingford, Epping, Great Wakering, Hatfield Peverel, Maldon, Shoeburyness, Stansted, Theydon Bois, Witham and Rochford. The Brentwood Centre was allowed a grant of not exceeding £3 for the same period.

Up to the end of December, 1926, claims were received from the undermentioned Centres, and the amounts indicated were paid by the County Council :--

	£	S.	d.		£	S.	d.
Braintree	 1	12	9	Stansted	 0	14	9
Hatfield Peverel	 1	8	9	Witham	 0	5	3

(7) Home Helps. The County Council made the following resolution in connection with the provision of home helps:—

"That during the year ended 31st March, 1927, the Committee be authorised to consider representations made to them by the Voluntary Committees of the Brightlingsea, Chingford, Harlow, Laindon, Sheering and Witham Child Welfare Centres that the provision of home helps within the

districts of such Centres is necessary, and to make grants of not exceeding £5 to each Centre towards the payment of a moiety of the cost of the provision of home helps employed in necessitous cases with the approval of the Committee."

This scheme commenced in September, 1926, but no applications were received during the year.

(8) Public Health (Ophthalmia Neonatorum) Regulations, 1926. These Regulations came into operation on 1st October, 1926. Under Regulations issued in 1914 the onus of notifying cases of Ophthalmia Neonatorum to the local Medical Officer of Health rested upon both Medical Practitioners and Certified Midwives. On and after 1st October, 1926, the duty to notify such cases rested solely upon the Medical Practitioner who is in professional attendance on the case. Further, the local Medical Officer of Health must forward a copy of such notification to the County Medical Officer within 24 hours after the receipt of the notification. A midwife continues as before to carry out the rules of the Central Midwives Board in respect to calling in medical aid.

In Circular 617A, dated 9th August, 1926, the Ministry of Health state that "whilst prevention of the occurrence of Ophthalmia Neonatorum should be the first aim, adequate provision should be made for such cases of this disease as occur by "visiting and nursing in the home and by hospital treatment where necessary; and "the Minister is of opinion that the appropriate Authority to carry out these measures is the one entrusted with the scheme for Maternity and Child Welfare in "the district."

In regard to hospital treatment, at the time of writing the County Council have authorised the County Medical Officer to make arrangements for a limited number of patients from the County Maternity and Child Welfare area to receive institutional treatment at a cost of not exceeding 1½ guineas per week for treatment of children or not exceeding 3 guineas per week where accommodation for the mother as well as the child is necessary.

The County Council are arranging with the Essex County Nursing Association for the provision of skilled nursing in the homes of patients.

Paragraph 7 of the Ministry's Circular 617A, refers to the objections of parents to the midwife summoning medical aid for this disease if the Local Supervising Authority attempt to recover the fee and in consequence some midwives are reluctant to call in medical help for this condition. In view of the need for prompt medical assistance in such cases, the Ministry of Health "suggest that Local Supervising Authorities should consider whether they should not refrain in future from exercising their power of recovery."

Consideration was given to the matter and it was decided not to reclaim from parents fees paid to a doctor under the Midwives Act, 1918, in regard to attendance on an infant for inflammation of, or discharge from, the eyes.

(9) Public Health (Notification of Puerperal Fever and Pyrexia) Regulations, 1926. These Regulations came into operation on 1st October, 1926. It is agreed, generally, that in the past many cases of Puerperal Fever have not been notified to the local Medical Officer of Health. Accordingly, the Ministry of Health have now included Puerperal Pyrexia in the list of notifiable diseases. Copies of notifications of these two diseases must be sent by the local Medical Officer of Health to the County Medical Officer within 24 hours after the receipt of the notification. The notification form requires the medical attendant to state whether he desires (i) to have a second opinion on the case, (ii) to have a bacteriological examination of lochia or blood, (iii) that the patient be admitted to hospital, (iv) that trained nurses be provided, or whether facilities are available for all necessary treatment.

By Circular 722, the Ministry suggest that these facilities (i. to iv.) can most readily be provided by the Local Authorities which are administering schemes under the Maternity and Child Welfare Act, 1918.

The chief effect of the new regulations on the department is in connection with the provision of "facilities for assistance in diagnosis and for the treatment of patients who are not able to secure adequate treatment for themselves."

As indicated on page 66, the County Council has decided to appoint an obstetric specialist.

Laboratory facilities are already provided.

With reference to hospital treatment, the County Council have authorised the County Medical Officer to make arrangements for a limited number of suitable patients to be admitted to Institutions willing to receive them, the cost not to exceed £3 3s. per week per patient.

As regards skilled nursing, arrangements are being made with the Essex County Nursing Association for this provision.

(10) Hospital Treatment for Maternity Patients. The arrangements for hospital treatment of maternity patients referred to in previous reports were continued and five patients were treated in 1926.

In December, 1926, a letter was addressed to 13 Poor Law Institutions, 20 Isolation Hospitals and various Voluntary Hospitals with a view to ascertaining the facilities available for complicated confinements, patients suffering from Puerperal Fever and Pyrexia and from Ophthalmia Neonatorum.

The results were as follows. (This includes existing arrangements between the County Council and certain hospitals):—

#### TABLE XXIV.

Hospital. Essex Hospitals—	Confinements per patient per week.	Puerperal Fever and Pyrexia cases per patient per week.	Ophthalmia Neona- torum per patient per week.
Essex County Hospital, Colchester.	£2 15s. and £2 2s. surgeon's fee per patient.	£2 15s. and £2 2s. surgeon's fee per patient.	No accommoda- tion.
Queen Mary's Hospital, Stratford.	7s. per day. Hospital recover maternity benefit.	7s. per day. Hos- pital recover maternity benefit.	No accommoda- tion.
Chelmsford & Essex Hospital.	£1 1s	£3 3s	£1 1s.
Witham Maternity Ward	5s. per day. £11s. midwifery fee.		-
Braintree Cottage Hospital.	£5 5s	£5 5s	No accommoda- tion.
Orsett Infirmary	About 30s	No accommodation.	About 30s. Accommodation for mothers.
Romford Infirmary	£2 11s. 4d. (£3 3s. for private patients	£2 11s. 4d	£2 11s. 4d.
Billericay Infirmary	£2 12s. 6d	No accommoda- tion.	£2 12s. 6d. No accommodation for mothers.
Billericay Isolation Hospital.	No accommoda- tion.	£2 12s, 6d]	No accommoda- tion.
Romford Isolation Hospital.		£2 5s. plus 1s. 6d. per mile for am- bulance, Uncom- plicated cases.	£2 5s. plus 1s. 6d. per mile for ambulance, ac- commodation for mothers.
Ipswich Hospitals—			
Ipswich Maternity Home Ipswich Isolation Hospital.	£3 3s. —	£3 3s. with additional charges for service.	£3 3s. plus extra charge for mothers.

As already indicated, the County Council have authorised the County Medical Officer to make arrangements for hospital treatment on the following terms:—

- (a) Not exceeding one-and-half guineas per week for treatment of children,
- (b) Not exceeding three guineas per week for complicated pregnancies and confinements or accommodation of mother and child.

With regard to children suffering from crippling defects, the Public Health and Education Committees have delegated this work to the Medical and Nursing Services Joint Sub-Committee with a view to a scheme being established for the treatment of children under 5 years of age where the County Council is the Authority under the Notification of Births Acts, and for children of school age in the County Education area. Reference is made on page 66 to the arrangements with an Orthopædic Surgeon for the holding of Orthopædic Clinics.

The following Table indicates the number of examinations of County Council patients made at Orthopædic Clinics during the year 1926, the number who received hospital treatment during the year, and the number who were recommended hospital treatment at the end of 1926:—

#### TABLE XXV.

No. of (exam		No. who Hospital T	reatment,	No. recommended for Hospita Treatment at the end of 1926.		
School.	c.w.	School.	C.W.	School.	C.W.	
224	31	27	11	60	3	

## MIDWIVES AND MATERNITY HOMES ACTS, 1902-1926.

- (a) Midwives and Maternity Homes Act, 1926. Part I. of this Act came into operation on 4th August, 1926, making certain amendments to the Midwives Acts, 1902 and 1918, which include the following:
  - i. It is no longer necessary, in order to secure a conviction against an uncertified woman for attending maternity patients in the capacity of a certified midwife, to prove she attends "habitually and for gain." The "personal supervision" as well as the "direction" of a qualified medical practitioner is now necessary if an uncertified person attends a woman in child-birth. Male persons, as well as uncertified women, are now brought within the scope of the enactment.
  - ii. A certified midwife who is suspended from practice (not being herself in default) in order to prevent the spread of infection, has now a right to recover reasonable compensation from the Local Supervising Authority.
  - iii. A Local Supervising Authority is empowered, with the approval of the Ministry of Health, to make arrangements whereby an expectant mother can by the prior payment of an agreed sum, insure against liability for the payment of a doctor's fee under the 1918 Act.
  - iv. All claims made by medical practitioners under the Act of 1918 must be submitted to the Local Supervising Authority within two months from the date on which the doctor is called in by the midwife.

Part II. of the new Act operates from the 1st January, 1927, and makes it an offence for any person, on and after that date, to carry on a Maternity Home unless registered in respect of that Home by the Local Supervising Authority.

The expression "Maternity Home" means any premises used or intended to be used for the reception of pregnant women or of women immediately after child-birth, but shall not include any hospital or other premises maintained or controlled by a Government Department or Local Authority, or by any other body or persons constituted by special Act of Parliament or incorporated by Royal Charter.

The Local Supervising Authority are empowered to make Bye-laws with respect to the records to be kept of patients received into and children born into the Home, and also to appoint an officer to inspect the Home and any records kept.

The County Council has adopted the model bye-laws of the Ministry of Health.

(b) Practising Midwives. During the year under review, 348 midwives notified their intention to practise in the Administrative County. Of these, 299 were actually in practice at the end of the year 1926. These midwives are classified as follows:—

Total No. of Midwives in practice at end of year.	Dependent.	Trained.	Independent.	Bona-fide, including trained and L.O.S. Certificated.
299	 158		115	 26

The total number of births which occurred during the year 1926 in the Administrative County was 16,743, and of these, 7,263 (44.03 per cent.) were attended by midwives in the capacity of a midwife, and 2,536 (15.14 per cent.) as maternity nurses under the supervision of medical practitioners.

Each midwife was asked to state the number of confinement cases which she attended as a midwife during the year 1926, and it was found that 128 trained and 10 bona-fide midwives attended 10 or less cases each; 60 trained and 3 bona-fide attended 11—20 cases each; 27 trained and 4 bona-fide attended 21—40 cases each; 14 trained and 3 bona-fide, 41—60 cases each; 12 trained and 5 bona-fide, 61—100 cases each, and 9 trained and 1 bona-fide midwives attended over 100 cases each. These figures do not include cases attended in maternity homes at Leytonstone, Ilford, Walthamstow and Barking (23 midwives).

Reports were received regarding 14 cases of confinement attended by eight women, who were not certified, and who acted as midwives without being under the direct supervision of a doctor. Particulars were sent to the Clerk of the Council for any necessary action.

(c) Notifications. The following list shows the number of notifications received from Certified Midwives in accordance with the rules of the Central Midwives Board during the year as compared with the previous four years:—

			1922.	1923.	1924.		1925,	1926.
Records of Medical Ai	d		1030	 1025	 1144		1309	 1492
Records of Still-birth			108	 109	 100		124	 127
Deaths of Mothers		14	3	 1	 *10		*6	 *2
Deaths of Infants			11	 5	 *33		*47	 *54
Artificial Feeding			35	 43	 54		75	 62
Liability to be a Source	e of In	fection	41	 37	 58		49	 86
Laying-out for Burial			129	 181	 180		229	 256
Ophthalmia Neonato	rum	or Dis-						
charging Eyes	***		84	 71	 62	***	89	 112

\*In accordance with the revised Rule E. 22 (1) (b) a certified midwife when acting as a midwife must, on and after 1st January, 1924, notify the death of a mother or child whether a doctor is in attendance at the time of death or not. Hence the increased number of notifications since 1924, as compared with previous years.

The 1492 cases (20.5 per cent.) where midwives sought the assistance of doctors, were for various reasons, namely:—

Albuminuria		16 0	eases.	Phimosis	 5	cases.
Contracted Pelvis		3	31	Phlebitis	 3	11
Dangerous Feebleness	of			Placenta Adherent	 68	.,
Infant		39	"	Placenta Prævia	 8	11
Eclampsia		4	,,	Premature Birth	 47	"
Hæmorrhage:-				Prolonged Labour	 208	.,,
Ante-partum		48	,,	Presentation (abnormal)	 110	22
Post-partum		46	"	Pyrexia (High Temp.)	 71	,,
Hydramnios		3	,,	Ruptured Perineum	 298	,,
Instrumental Assistance	e	5	,,	Spina Bifida	 2	"
Malformation of Child		13	"	Thrombosis	 1	,,
Miscarriage, Abortion		78	,,	Uterine Inertia	 36	11
Miscellaneous Causes		261	1)	Pemphigus Neonatorum	 7	23
Ophthalmia Neonatoru	m or					
Discharging eyes		112	1)			

### Puerperal Fever and Ophthalmia Neonatorum.

Special investigations were made into all cases of high temperature of mother and discharging eyes of infant in a midwife's practice. The results of these investigations showed that during 1926, in ten cases of Discharging Eyes, the rules of the Central Midwives Board were not properly carried out, and letters of caution were sent to the midwives concerned. In one case of high temperature the midwife's conduct was reported to the Central Midwives Board for neglect in calling in medical assistance and taking pulse and temperature. The Board decided that in order to give the midwife an opportunity of proving amendment the Local Supervising Authority be asked to report at the end of three months and again at the end of six months on her conduct and mode of practice.

The new Regulations referred to on page 70 came into operation on 1st October, 1926, and for the quarter ended 31st December, 1926, copies of notifications made by medical practitioners were received from the Medical Officers of Health in the Administrative County as follows:—

Puerperal Fever	 	11
Puerperal Pyrexia	 	34
Ophthalmia Neonatorum	 	24

#### Pemphigus Neonatorum.

As indicated in the previous year's report, all suspected cases of Pemphigus occurring in a midwife's practice are investigated with a view to seeing that all possible precautions are taken to prevent a spread of the disease.

Enquiries were made into 16 cases, of which 12 were considered to be Pemphigus, i.e., Tilbury 10, Pitsea 1, Walthamstow 1.

The only serious outbreak was in the Urban District of Tilbury, ten cases occurring between August, 1926, and January, 1927. Eight of these occurred in one midwife's practice, and two in the practice of another midwife. In four of the eight patients referred to, the symptoms occurred after the midwife had ceased attendance.

The Combined Medical Officer for the district fully enquired into each case, but in spite of all precautions being taken in regard to disinfection of the first case reported, other cases followed. The midwife who had most of the cases was interviewed by the Chairman of the Maternity and Child Welfare Sub-Committee and cautioned in respect to one patient where she had not called in medical assistance as soon as the slightest symptom had manifested itself.

## Inspection Visits.

Nine hundred and thirty-seven (937) routine visits were made to midwives during the year, and of these 582 were undertaken by Assistant County Medical Officers and 355 by the Chief Health Nurse.

Written cautions were sent to 13 midwives for minor infringements of the Rules.

#### Doctors' Fees.

In accordance with the Midwives Act, 1918, during the year ended 31st December, 1926, the County Council paid the sum of £1,323 2s. 3d. as fees to medical practitioners and recovered from patients during the year the sum of £341 16s. 9d.

The following comparative Table is of interest, shewing (a) the number of medical aid notices received from midwives during the past five years, and (b) the corresponding number of doctors' claims made against the County Council in respect of such notices.

This Table shows that the numbers are increasing:—

Year.	No. of Medical Aid Percentage Notices received of Confine-		No Do	of Medical otices for wh ctors' claim h been received.	Total of c		Amounts re- covered from parents.						
							£	s.	d.		£	s.	d.
1922	***	1,030	 17.0		463		769	4	6		195	18	0
1923		1,025	 14.6		585		829	19	3		196	18	10
1924		1,144	 17.8		592		999	2	9		204	18	5
1925		1,309	 18.5	***	665		1,031	15	6		293	4	8
1926		1,492	 20.5		789		1,323		3		341	16	9

#### Lectures to Midwives.

In addition to the syllabus of lectures arranged at the usual Centres in the County by the Essex Midwives Association, a special course of lectures in Chelmsford was arranged for April, 1927. Dr. Mary Blair gave the lectures as follows, which were greatly appreciated by the 60 to 70 midwives who attended each lecture:—

- i. Ante-natal care-Diseases arising during pregnancy, viz.: Toxemia, etc.
- ii. Ante-natal care.—Conditions discoverable during pregnancy and affecting labour.
- iii. Emergencies of labour.
- iv. Feeding of the new-born infant.

## Essex County Nursing Association.

(a) General. For the four quarters of the year 1926, the following grants were paid by the County Council to the County Nursing Association in accordance with the Agreement:—

		£	S.	d.
(a) Cost of training District Nurse-midwives	***	1,565	0	0
(b) Maintenance of two Emergency Nurses	-	200	0	0
(c) Grants to affiliated District Nursing Associations	***	4,830	18	3
(d) Equipping District Nurse-midwives for new areas		15	0	0
(e) Clerical and organising expenses		220	0	0
		£6,830	18	3

In connection with the Essex County Nursing Association's Training Home at Leytonstone, new buildings (necessary in order to qualify the home for recognition by the Ministry of Health as a Training School under the new Training of Midwives Regulations) were erected and alterations carried out during the year.

Owing to the increased length of training and additional expenditure entailed, the County Council agreed to revise their agreement with the Essex County Nursing Association as follows, to take effect from 1st January, 1927:—

Clause 1. That the Association be required to give all suitable candidates referred to under Clause 1 of the agreement at least sixteen months' training.

Clause 7 (a). That the amount of the grants payable by the Council to the Association under Clause 7 (a) of the agreement be increased from £60 to £75.

Clause 7 (c). That, subject to the approval of the Ministry of Health, and to the maximum grants allowable by the Ministry not being exceeded, the grants under Clause 7 (c) of the agreement allocated to the District Nursing Associations be increased by £2 for each affiliated District Association, and that the Council do approve of that amount being retained by the Association for central expenses from the grant made to each affiliated District Association.

(b) DISTRICT NURSING ASSOCIATIONS. At the end of 1926 the number of District Nursing Associations in the Administrative County which were affiliated to the County Nursing Association and which employed 151 Nurses, was as follows:—

No. of affiliated No. undertaking Midwifery No. performing District D.N. Associations. and District Nursing. Nursing duties only.

A summary of the visits made by the District Nurses belonging to affiliated Associations during the past five years is given below:—

Midwifery		1923. 24,729				
Maternity	25,181	27,181	26,433	26,932	28,355	
District General	167,782	. 161,492	164,607	179,412	185,296	
,, Tuberculo	sis 2,647	3,009	4,232	4,374	4,526	
Health Visiting	8,907	12,230	13,967	$\left\{\begin{array}{c} 12,704 \\ 15,631 \end{array}\right.$	13,813	Pre-natal Post-natal
Home Visits (Se	hool					
Children)	3,494	4,839	5,970	7,830	7,525	
Total number of v	isits 250,176	233,480	238,951	275,351	284,701	

Of the 141 affiliated Associations, 129 participate in the County Council's Combined Nursing Scheme.

### (c) Parishes Served : -

Number in the County (excluding Extra-Metropolitan Area) ... 377

Number served by affiliated District Nursing Associations ... 297

The Chief Health Nurse (Miss D. M. Landon) has furnished the following report in connection with her duties during 1926:—

On April 1st, 1926, the resignation of Miss Alice Tilbury took effect, and I was appointed County Superintendent by the Essex County Nursing Association with the approval of the County Council, for an experimental period of 12 months.

This revision of duties has resulted in my being able to exercise supervision from the time a pupil is selected to the time she is a fully qualified District Nursemidwife. In October, 1926, the unfortunate illness and consequent resignation of Miss M. Thresh as Hon. Organising Secretary of the Association, necessitated my temporarily taking over her duties also. This, of course, has in some measure interfered with the supervisory work, chiefly on account of the increased administrative duties entailed.

Although it is desirable from the standpoint of economy and efficiency that the post of Chief Health Nurse and County Superintendent should be a combined one, the work in this County is now so extensive that it is impossible for one individual to carry out the duties adequately, and the question of appointing an assistant is at present receiving consideration by those concerned.

As in previous years, my work can be divided under four headings in connection with :--

1. Inspection of Midwives.

2. Health Visiting.

- 3. District Nursing Associations and Combined Nursing Scheme.
- 4. Lectures.

#### (1) INSPECTION OF MIDWIVES :-

Number of Routine Inspections		2	73
Number of Special Investigations	***		82

The ante-natal work still leaves much to be desired, as large numbers of the older midwives received little ante-natal instruction during training. Also, there is still a rooted prejudice against such work amongst many of the more ignorant mothers. There is, however, an improvement in this direction, and the new Central Midwives Board Rule will make it easier to insist on more adequate antenatal supervision.

Otherwise, on the whole, the standard of midwifery amongst those whom I inspected is a high one. Of the 82 special investigations I made, only one was of a serious nature, and as elsewhere reported it had to be cited before the Central Midwives Board. I have visited this midwife constantly since, and she appears to be trying to do well, and I have no further cause of complaint.

#### (2) HEALTH VISITING:-

Number of visits paid	 ***	85

In almost all cases the work of the Health Visitors has been conscientiously carried out, although the standard of work attained varies considerably in different areas. This I consider is due mainly to three factors:—

- (1) The personality and teaching capacity of the Health Visitor herself.
- (2) The varying degrees of co-operation between the officers employed in public health work and local Voluntary Committees, &c.
- (3) The mentality of the people and appreciation of public health work which differs considerably in various parts of the County.

The question of transport in the scattered rural areas continues to be a difficulty, but the permission to take bicycles by 'bus and train has been appreciated by the Health Visitors.

The standard of cleanliness in the schools has greatly improved, and really dirty or verminous children are, I am glad to say, a rare occurrence.

(3) DISTRICT NURSING ASSOCIATIONS :--

Visits paid ... ... 260

Owing to reasons stated above, there is a decrease in the number of my routine visits, and I have not been able to spend so much time in supervising the practical work of the nurses on district, but I have no reason to believe that the standard of work is not as high as it has been in the past. Many of the younger nurses are really interested and anxious to undertake public health duties, and I think in some places they are disappointed that the Health Visitors do not utilise their services more, but in many cases they speak in warm terms of the advice and kindness shown them by the Health Visitors, and, on the whole, the co-operation is good.

(4) Lectures. These were on various health subjects, and were given at Women's Institutes, Annual Nursing Meetings, Child Welfare Centres, etc. There is, undoubtedly, an increasing interest in matters concerning health, and audiences usually ask intelligent questions afterwards and appear interested in the subject.

# SANITARY CONVENIENCES ON PUBLIC HIGHWAYS, ETC.

Modern methods of transport have accentuated the need for the provision of sufficient sanitary accommodation at the numerous tea rooms, restaurants, hotels, etc. which have been and are being erected alongside many of the arterial roads in the County. Each summer finds increasing use of these roads by motor char-a-banes which, particularly at week-ends, transport many hundreds and thousands of persons from London and suburbs to the country and seaside resorts on the south and east coasts of the County.

It is quite common to find nuisances bordering upon indecency being committed in close proximity to public highways, quite apart from the possible danger to the public health from the fouling of the ground in close proximity to portable tea rooms, stalls, etc.

In respect to the erection of new hotels, it is understood that the Justices, before granting licences for the sale of intoxicating liquors, require to be satisfied that adequate provision has been made for sanitary conveniences for both sexes. But as regards other places of refreshment, there appears to be little (if any) supervision by anyone, and unless the owner of such premises is sufficiently enterprising, not much is done to provide sanitary accommodation, particularly for women.

The existing powers of Local Sanitary Authorities are contained in the following Sections from the Public Health Act, 1875, and the Public Health Acts (Amendment) Act, 1907:—

Public Health Act, 1875.

Section 39. Any Urban Authority may, if they think fit, provide and maintain, in proper and convenient situations, urinals, waterclosets, earth-closets, privies and ashpits and other similar conveniences for public accommodation.

Public Health Acts (Amendment) Act, 1907.

Section 47. The Local Authority may provide and maintain in proper and convenient situations sanitary conveniences in or under any street repairable by the inhabitants at large, and may provide and maintain in proper and convenient situations lavatories in or under such street for the use of the public, and may employ and pay attendants and make reasonable charges for the use of any sanitary conveniences (other than a urinal) or of any lavatory so provided. The Local Authority may make bye-laws for the management of the sanitary conveniences and lavatories, and as to the conduct of persons frequenting the same.

The Local Authority may let any such sanitary conveniences and any such lavatories for such periods, at such rents, and subject to such conditions as to the charges to be made for the use thereof and otherwise, as they think proper.

It should be noted that the expression "Local Authority" in this Act means an Urban Sanitary Authority, an Urban District Council or a Rural District Council, and that any part or any section of the Act may be adopted by any of these Councils or Districts.

In March, 1927, at the request of the Public Health and Housing Committee, the Clerk of the Council addressed a letter to Urban and Rural Councils in the County enquiring whether nuisances have arisen in their districts due to the absence of sanitary conveniences at eating, and refreshment rooms, and if so, whether the Councils favour a proposal that the Committee should convene a conference of representatives of District Councils to consider the matter. 26 replies were received from which it appeared that nuisances exist in four districts and that 14 Councils were in favour of the convening of a Conference.

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BIRTHS, DEATHS, ANNUAL RATES, &c., 1926.

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TOTAL ADMINISTRATOR SHIEFT EDGES 282,600	282,066 47	4747 3060	0 220	000	8	960	9		0 88	713	2307 6	5710	16.8		7.0	9.0	2 1	2
COUNTY - 944,443 (100,141 907,400	290,760 367	43 9803	877	228	180	910	90	1	1		-	-	-	9.01	+			99

## TABLE XXVII. CAUSES OF DEATH-YEAR 1926.

(Figures supplied by the Registrar-General.)

SANITARY DISTRICT.	Enteric Fever.	Small-pox.	Messier.	Searlet Fever.	Whosping Cough.	Diphtheria.	Influenza.	Encephalitie Lethargica.	Meningstocceal Meningstis.	Tuberculous of Respiratory System.	Other Tuberenious Diseases.	Cancer. Malignant Disease,	Rheumstic Fever.	Diabetes.	Cerebral Bemorrhage, &c.	Heart Disease	Arterio-Scierosis.	Bronchitis.	Poesmonia (all forms).	Other Respiratory Diseases	Ulcer of Stomach or Duolenum.	Diarrhea, &c. (under 7 years.)	Appendictivand Typhinis.	Circlesia of Lives.	Acute and Chronic Reparities.	Puerperal Sepain.	Other Accidents and Diseases of Pregnancy and Parturition.	Congenital Debility and Malformation Premature Birth.	Saleides.	Other Deaths from Violence.	Other Defined Diseases.	Causes ill-defined or	Тотла.	Cau	Bollo.
URBAN. AREENO BEANTREE BESTWOODE BES	1 2		7 4 1 2 3 3 2 2 4 1 1 1 3 3 4 4 1 1	1 1 4 4	1 1 1 1 1 2 2 5 5 5 5 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	166 22 2 2 1 1 5 5 5 5 5 2 1 1 1 2 2 2 1 1 1 6 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 3 3 3	30 7 7 2 2 5 6 6 2 2 5 5 16 5 6 6 23 4 4 12 2 5 5 3 6 6 8 9 4 4 3 3 12 1 1 2 1 1 2 2 9 2 2 4 4 1 2 2 5 5 6 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	5	64 9 11 4 4 6 6 5 322 15 18 64 25 16 12 12 13 14 25 16 12 12 13 14 12 13 14 12 13 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	1	3 1 1 2 3 1 1 1 3 1 1 1 2 2 2 1 1 2 1 2 2 8 1 1 1	15	477 1144 6 6 3 7 7 10 3 3 34 22 21 16 6 8 20 7 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 3 3 2 1 1 2 2 1 1 6 6 2 8 2 3 3 3 3 1 1 2 2 2 3 3 3 2 1 1 2 2 3 3 8 4 4 2 1 1 1 2 7 2 6 6 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28 1 3 4 5 5 3 1 1 10 2 2 5 5 11 2 2 5 11 1 2 2 5 1 1 1 1 2 1 1 1 1	277 77 3 3 1 1 1 2 100 6 5 30 17 1 2 1 16 5 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 3 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 1 2 2 2 1 1 1 1 2 2 2 2 1 1 1 1 1 2 2 2 2 1 1 1 1 1 2 2 2 2 1 1 1 1 1 2 2 2 2 1	15	4 1 1 1 5 5 2 2 2 2 2 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 3 3 5 5 1 1 1 1 1 6 6	7	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2	13 2 4 1 1 2 2 19 10 2 2 10 1 1 1 1 10 2 6 6 6 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 3 3 2 5 5 1 1 1 2 9 1 1 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	14 2 4 4 1 1 1 3 4 4 5 4 1 1 1 9 2 2 7 7 1 1 1 2 2 2 4 5 1 1 1 3 2 9 2 2 4 5 1 1 8 8 2 2 1 1 8 8	51 15 26 26 10 10 10 10 10 10 10 10 10 10	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	366 366 377 777 777 777 777 777 777 777	8 8	2 2 3
	6		58	7	47	46	105	15	6	458	102	922	25	61	399	1068	169	447	4:8	68	65	131	49	30	191	14	22	289	72	210	1280	10	6,93	10	-3
BURAL BELGHAMP. BILLERICAT BELLERICAT BOSGAR ODSSAT BOGGIFORD ROMFORD ROMFORD ROMFORD ROMFORD TENDERICAT TENDERICAT BELLERICAT BOGGI & URBAN BOGGI & URBAN	1 1		2 2 1 1 3 3 3 1 13 58	7	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1 3 1 3 2 1 1 1 13 46	1 3 4 4 2 5 5 2 2 1 1 3 3 2 2 2 1 1 6 6 4 2 1 1 1 1 4 2 1 1 1 5	1 1 2 2 1 1 1 7 1 b	6	3 18 9 2 16 2 5 3 10 10 7 15 17 20 6 5 10	5 3 4 1 3 3 2 1 4 4 4 5 4 39 102	7 49 32 4 40 28 29 15 25 35 26 22 46 20 14 17 32 441 922	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 6 2 2 5  2 1 4 4  1 2 1 3 3 61	3 16 15 22 22 10 11 9 11 8 12 19 14 7 2 17	6 29 27 5 41 28 18 15 38 33 20 32 47 32 22 10 49	1 11 15 6 7 11 6 6 8 7 7 4 13 14 121 169	5 15 21 4 33 11 7 4 13 4 11 15 11 9 6 15	3 9 11 2 10 11 9 2 4 3 7 6 14 17 3 11 122 428	1 5 2 5 1 1 1 2 2 2 1 3 1 1 1 3 1 68	2 2 2 3 1 1 1 8 1 1 2 2 4 65	1 1 2 3 5 2 3 3 17 121	1 1 2 3 4 2 3 4 2 3 1 24 19	1 1 1 1 2 1 1 1 1 1 3 3 0	5 5 3 4 4 4 3 3 4 2 2 3 2 5 6 6 5 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 4 14	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 4 1 1 10 5 6 3 4 8 3 4 12 10 1 1 10 10 97 289	4 3 1 3 1 2 4 4 2 4 5 3 6 72	14 7 3 4 11 7 4 5 12 6 14 14 9 5 7	6 86 6 71 36 33 32 62 40 32 68 65 9 25 25 25 25 25 25 25 25 25 25 25 25 25	1 1 1 1 1 1 1 1 1 1 2	37 3099 228 33 288 176 160 105 201 196 134 220 310 197 83 259 2000 6793	3 1	1 3
TOTAL FOR ADMINISTRATIVE COUNTY	9		.71	7	61	59	147	22	6	616	141	1363	30	92	597	1520	990	644	550	19	89	138	73	43	250	18	32	395	108	332	2033	27	9853	14	4

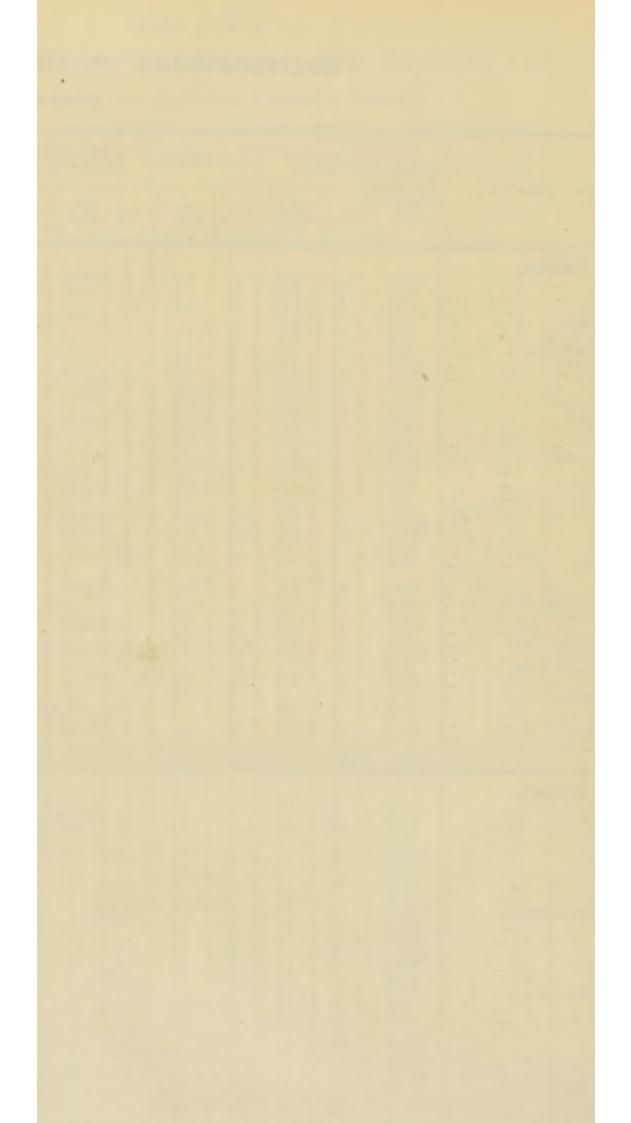
#### TABLE XXVIII.

## NOTIFICATIONS OF INFECTIOUS DISEASE AND ATTACK RATES, 1926.

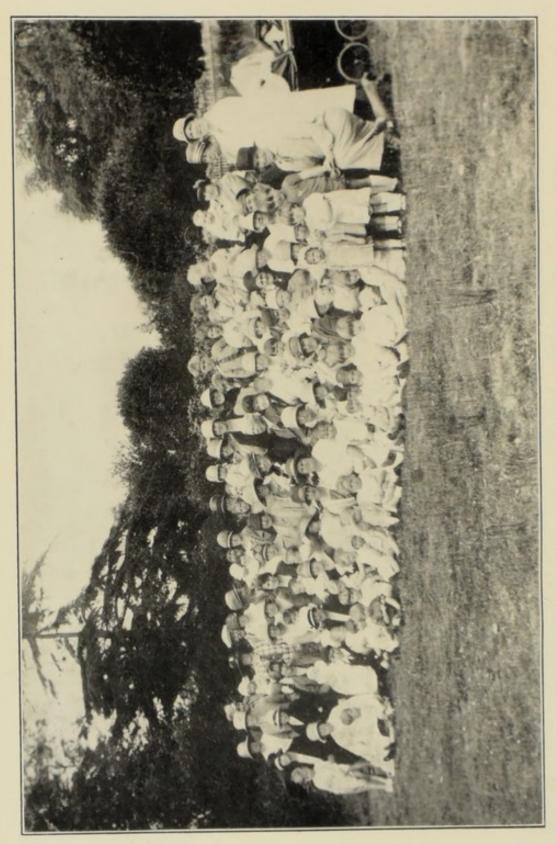
(Figures obtained from the Weekly Notification Returns.)

Sanitary Districts.	Estimated Population		RLET VER	Dipn	THERIA.		TERIC VEB.		RPERAL VER.		RPERAL LEXIA.	ERYS	IPELAS.	OPHT NEON	HALMIA ATORUM.	TUBER	CULOSIS, RATORY.	TUBE	THER ECULAR EASES.	PNEO	MONIA.	ENCEPHA- LITIS LE- THARGICA.	ACUTE- POLIO- MYELITIS.	VARI-	TOTAL.
	(Death-rate) 1926.	No.	Per 1,000	No.	Per 1,000.	No.	Per 1,000	No.	Per 1,000.	No.	Per 1,000.	No.	Per 1,000.	No.	Per 1,000.	No.	Per 1,000.	No.	Per 1,000.	No.	Per 1,000,	No.	No.	No.	No.
URBAN.  RANKING RAINTABE RENTWOOD RIGHTLINGSEA UURHAM-ON-CROUCH ANVEX ISLAND HILMSTOOD B. HINDFORD LACTON-ON-SEA OLORESTER B. JACKNIAM PPING PRINTON-ON-SEA RAITS HAUSTEAD HAUSTEAD HAUSTEAD HAUSTEAD HAUSTEAD HAUSTEAD HAUSTEAD HAUSTEAD HAUSTEAD LEVEND B. LOUGHTON B.	38920 7149 7126 4215 5187 3490 4373 22800 11500 11500 44780 22903 4638 2110 17910 5821 11830 9727 100500 6353 6206	136 42 39 4 18 8 9 16 27 11 80 92 4 31 45 24 31 174 296 5 3	355 555 505 353 217 07 233 08 110 177 20 32 177 23 08 05	64 10 24 13 4 9 1 1 9 2 8 38 14  66 153 292 1 10	1.6 1.4 3.4 2.5 1.1 2.1 2.1 0.04 0.8 0.1 1.7 3.0 3.7 0.2 0.2 0.2 0.2 0.2 0.3 1.5 1.5 1.5 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	3 2 1 2 5 1 1 1 6 5 1 2	0.08 0.3 0.2 0.08 0.1 0.04 0.2 0.09 0.06 0.04 0.1 0.1 0.1 0.1	3	0.08  0.09 0.07 0.08  0.09 0.07	1	0°10  0°77  0°29 0°09 0°40 1°72 0°22 0°34 0°32 0°09	37 3 2 1 1 1 2 15 7 4 1 2 2 28 63 3 	0°9 0°4 0.3 0°2 0°2 0°2 0°04 0°09 0°1 0°3 0°3 0°2 0°2 0°2 0°2 0°2 0°3 0°5 0°5	17	0°4 0°04 0°1 0°2 0°1 0°2 0°1 0°3 0°06	119 20 5 5 3 3 13 25 9 14 42 71 13 16 7 161 158 3 6	3:1 2:8 0:7 1:2 0:6 0:9 3:0 1:0 0:8 1:0 0:9 3:1 2:8 0:5 1:1 0:5 1:1 0:5 1:1 0:5 1:1 0:5 1:1 0:5 1:1 0:5	200 100 4 2 2 1 5 7 8 5 5 17 27 1  9 4 4 5 3 37 48 1 4	0.5 1.4 0.6 0.5 0.3 1.1 0.3 0.7 0.4 0.4 0.4 0.2 0.2 0.5 0.7 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	76 2 11 5 5 5 8 2 2 7 4 9 7 4 7	1.9 0.3 1.5 1.2 0.6 0.2 0.3 0.4 1.3 1.1 1.7 0.9 0.3 0.3 0.3 0.3 0.3 0.7 0.7 0.7	3 1 3 1 3 3 	2	1	479 -90 85 18 36 28 37 68 61 58 532 27 7 7 203 61 56 56 51 665 986 18
ROMFORD AFFRON WALDEN B. HOGBUERNESE TLEGET WALTHAM HOLY CROSS WALTHAMSTOW WALTON ON-THE-NAZE YANSTEAD WEST MERSEA WITHAM WITHAM WITHAM WOODFORD	21680 5448 5202 14740 6804 123500 2746 16510 1696 3389 2270 21820	67 9 6 74 43 512 37  5	3·1 1·6 1·2 5·0 6·3 4·1 2·2 1·2 0·9 1·6	18 1 15 25 16 272 31 1 5	0.8 0.2 2.9 1.7 2.4 2.2 1.9 0.6 1.2	1 1 5 	0.05  0.07 0.04  6.2 0.05	1 1 5 	0.05 0.2 0.07 0.04 0.06 0.4 0.05	5	0:37	6  2 3 1 60 1 3  1 	0°28 0°4 0°2 0°1 0°5 0°4 0°2 0°2	9	0.4 0.07 0.07	Port 1 27 2 6 38 2 153 1 1 3 1 13	1.2 0.4 1.2 2.6 0.3 1.2  0.8 0.6 0.7 0.4 0.6	5 3 2 5 3 55  4 1 1	0.2 0.5 0.4 0.3 0.4 0.4 0.2 0.6 0.2	1  6 6 1 128 1 17  7	0.05 1.2 0.4 0.1 1.0 0.4 1.0 1.7	10	 13  2 	69 44 1 4 23! 	128 17 39 236 110 1217 6 338 3 23 41 116
	709234	1884	27	1135	1.6	39	0.05	36	0.05	29	0.16	259	0.4	55	0.08	977	1:4	367	0'4	622	0:88	30	67	819	6259
RURAL.  BELCHAMP BILLERICAY BRAINTREE BOMPSTEAD GREEMSFORID DUMMOW EFFING HALSTEAD LEXDEN AND WINSTREE MALDON ONGAR OUSSET ROCHFORD SAFFEON WALDEN SYANSEED TENDRING	4115 81120 19180 2279 2669) 14900 15520 9439 18115 16530 10180 24560 2736 9736 9736 9736	6 53 43  45 19 33 64 9 76 12 2 87 50 65 14 33	1.5 1.7 2.2 2.7 1.7 1.3 2.1 6.7 0.5 4.6 1.2 3.5 1.7 3.5 1.7 2.1 2.1 2.1 3.5 1.7 3.5 1.7 3.5 1.7 3.5 1.7 3.5 1.7 3.5 1.7 3.5 1.7 3.5 1.7 3.5 1.7 3.5 1.7 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	1 26 7 13 22 28 5 2 11 37 54 17 16 2 6	0.2 0.8 0.4 0.5 0.1 1.8 0.5 0.1 0.7 2.2 0.7 0.3 0.3	1 1 2 2 1 1 3 3 3 1 1 12 12	0°03 0°05 0°07 0°06  0°1 0°1 0°1	1 1 2 1 10	0.1  0.05 0.06 0.04  0.09	1	0°15 0°15 0°22 0°16 0°21 0°13 0°17	6 2 1 3 1 1 1 4 8 8 5 4 1 6	0.2 0.1  0.07 0.2 0.1 0.05 0.4 0.3 0.2 0.2 0.2 0.2 0.3	3 4 2 2 2 2 17	0.06 0.11 0.2 0.1 0.1 0.1 0.07 0.06	5 42 22 2 21 11 17 9 25 16 8 6 32 44 6 2 13	1.2 1.3 1.1 0.8 0.8 0.7 1.1 0.9 1.4 1.0 0.8 0.2 1.1 2.0 0.3 0.3 0.6	5 10 4 4 4 11 5 8 6 11 3 15 16 2 2	12 03 02 01 03 07 05 04 04 01 01 05 07 07 05 07 07 07 07	2 11 17 3 4 18 4 2 3 15 3 4 10 11 10	0.5 0.3 0.9 1.3 0.1 1.2 0.3 0.2 0.2 0.2 0.9 0.3 0.2 0.3 0.5 0.5 0.1 0.4		1 1	30  1  1 26  1  10  1  10 	19 186 96 7 93 36 125 87 56 128 198 141 162 20 78
Tot. Boro's & Urban District	rs 709231	1884	2:7	1135	1.6	39	0.02	36	0.02	29	0.16	259	0:4	55	0.08	977	1:4	307	0.4	622	0.88	30	67	819	6259 1540
TOTAL RUBAL DISTRICTS  TOTAL FOR ADMIN, COUNTY	282466 991700	621 2505	2.2	1362	0.8	12	0.07	10	0.03	38	0.12	301	0.3	72	0.06	281 1258	1.0	407	0.3	740	0.4	41	89		7799

‡Notifiable from 1st October, 1926.







MOTHERS' DAY, HADLEIGH CHILD WELFARE CENTRE. JULY, 1928.