

[Report 1923] / Medical Officer of Health, Denbighshire County Council.

Contributors

Denbighshire (Wales). County Council. no2004062613

Publication/Creation

1923

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DENBIGHSHIRE COUNTY COUNCIL.

ANNUAL REPORT

ON THE

HEALTH OF DENBIGHSHIRE

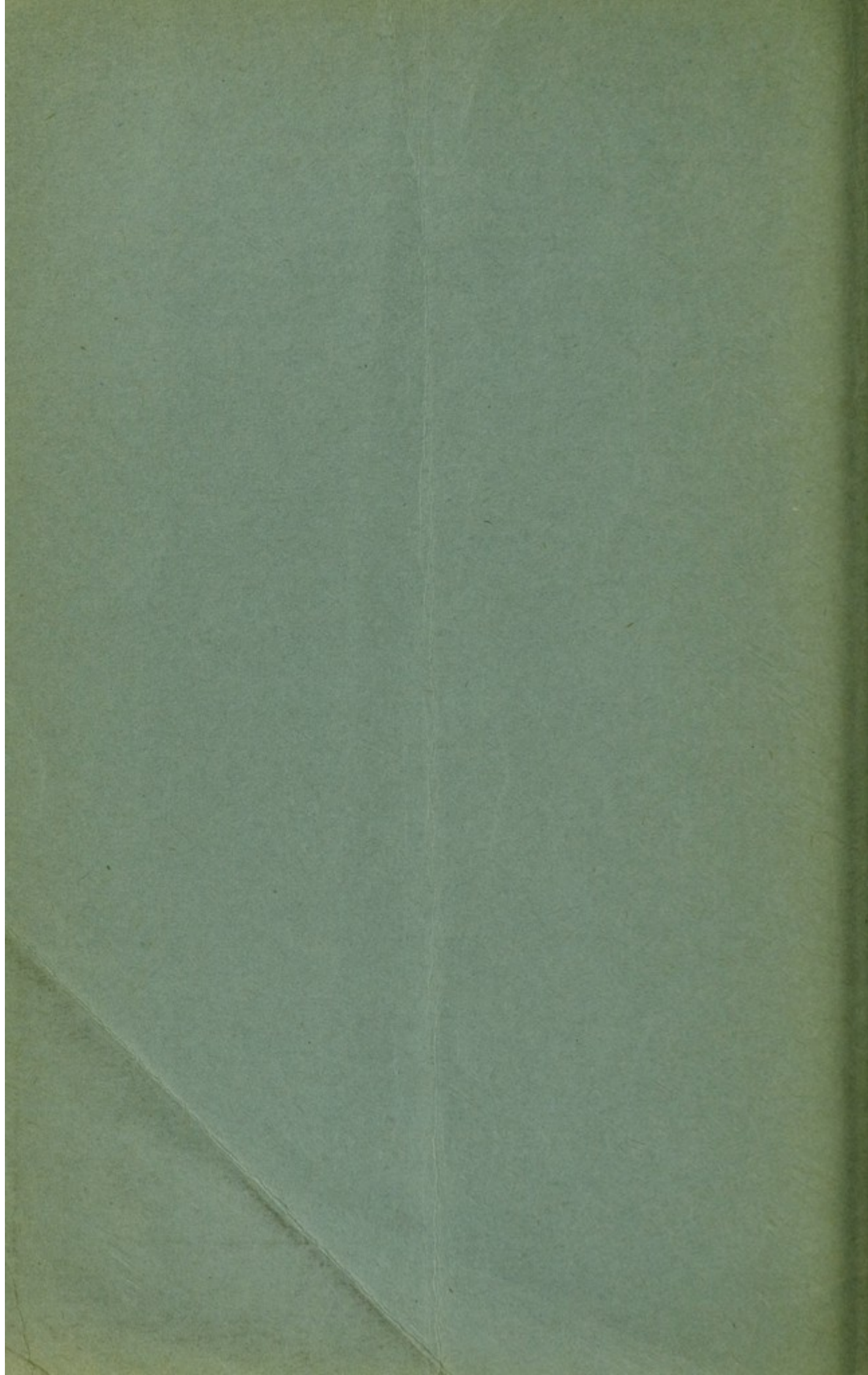
FOR THE

Year 1923,

BY

T. ROBERTS, M.B., C.M., D.P.H.,

COUNTY MEDICAL OFFICER.



PREFACE.

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

Mr. Chairman, My Lord, and Gentlemen,

I herewith beg to present my Annual Report for the year 1923.

The Report for the year is one of the ordinary Reports, and does not contain the detailed information which the Ministry of Health, however, only demand every five years. The Report for 1924 will be in the nature of a Survey Report.

I have to acknowledge my indebtedness to my Staff for the valuable help they have at all times given me, to the Chairman and Members of the Committee, and the Clerk of the County Council, for their invaluable courtesy and kindness.

I have the honour to be,

Mr. Chairman, my Lord, and Gentlemen,

Your obedient servant,

T. ROBERTS.

REPORT

To the President and Members of the Board of Directors
of the American Academy of Arts and Sciences

THE AMERICAN ACADEMY OF ARTS AND SCIENCES

ANNUAL REPORT FOR THE YEAR 1900

The Report for the year is one of the most important and
valuable reports ever published by the Academy. It contains
a full and complete account of the work of the Academy
for the year, and is a most interesting and valuable
contribution to the history of the Academy.

I have the pleasure to say that the work of the
Academy for the year has been most successful and
valuable. The Academy has been most successful in
its work, and has made most valuable contributions
to the history of the Academy.

I am, Sir, very respectfully,
Your obedient servant,

Wm. Brewster, Secretary

NEW YORK, 1901

1901

1923.

County Health Staff

County Medical Officer :

T. ROBERTS, M.B., Ch.M., D.P.H.

Assistant County Medical Officers :

E. W. CARYL THOMAS, M.D., M.R.C.S., L.R.C.P., B.S.,
B.Sc., D.P.H.

M. SHARE JONES, M.B., Ch.B., B.A., Ll.B.

Clerical Staff :

J. T. PRITCHARD.

GEORGINA ROBERTS.

DORIS MORGAN.

T. J. DAVIES.

Whole-time Health Visitors :

F. M. CORNWALL.

D. EVANS.

M. R. D. WILLIAMS.

K. JONES.

M. HUGHES.

S. PRYDDERCH.

M. WILLIAMS.

G. SMITH.

TABLE I.—AREA, POPULATION, &c., 1923.

Districts.	Medical Officers of Health.	Area in Acres (Census 1921).	Population (Census 1911).	Population (Census 1921).	Increase or Decrease of Population in Intercensal period.		No. of Houses.		Estimated Civil Population, 1923.	Births	Birth-rate.	Deaths	Death-rate.	Infantile Death-rate per 1000 births.	No. of Deaths under 1 year.
					Increase.	Decrease.	1911	1922							
URBAN:															
Abergele	H. Foulkes	456	2121	2632	511	..	613	..	2262	40	17.6	34	15.0	100.6	4
Colwyn Bay	W. M. Vables Wilms	5238	12630	18770	6140	..	2764	..	18860	238	12.6	229	12.1	71.4	17
Denbigh (Borough)	David Lloyd	9072	6892	6783	..	109	1437	..	6795	109	16.0	91	13.3	128.4	14
Llangollen	Richard Drinkwater	3107	3250	3680	430	..	856	..	3298	40	12.1	35	10.06	25.0	1
Llanrwst	G. Lewis Travis	822	2519	2368	..	151	626	..	2334	54	23.1	39	16.7	74.0	4
Ruthin (Borough)	W. F. Byford	2109	2824	2767	..	57	741	..	2771	44	15.8	43	15.5	90.9	4
Wrexham (Borough)	T. P. Edwards	1305	18379	19002	623	..	3849	..	19420	366	18.8	252	12.8	79.2	29
Total	..	22109	48615	56002	7704	317	10886	..	55740	891	15.9	723	12.9	81.9	73
RURAL:															
Chirk	J. Salt	18552	4561	4599	38	..	800	..	4741	100	21.0	55	11.6	70.0	7
Glan Conway	G. Lewis Travis	8771	1706	1723	17	..	396	..	1759	31	17.6	27	15.3	64.5	2
Llangollen	Richard Drinkwater	23295	3308	3778	170	..	890	..	3658	72	19.6	41	12.0	13.9	1
Llanrwst	G. Lewis Travis	59287	4404	4335	..	69	1058	..	4316	78	18.0	63	14.5	89.6	7
Llansilin	D. J. Micah	44717	3190	2924	..	266	719	..	2916	48	16.4	41	14.1	20.7	1
Ruthin..	T. O. Jones	94540	9076	9279	203	..	2194	..	9157	157	17.1	114	12.4	31.8	5
St. Asaph (Denbigh)	R. Henry Lloyd	65748	6710	6862	152	..	1537	..	6785	112	16.6	79	11.6	71.4	8
Uwchale	E. R. Lloyd	30204	2243	2148	..	95	505	..	2128	52	24.4	22	10.3	19.2	1
Wrexham	T. P. Edwards	58863	60683	63197	2514	..	12847	..	65140	1412	21.6	750	11.5	76.4	108
Total	..	403977	96181	98845	3094	430	20363	..	100600	2062	20.4	1195	11.8	67.8	140
Whole County	..	426086	144796	154847	10798	747	31600	..	156340	2953	18.8	1918	12.2	72.1	213

TABLE II.

COUNTY OF DENBIGH.

Vital Statistics of Whole County during 1923 and previous year.

Estimated Population.		No. of Births.	Birth-rate per 1000.	No. of Deaths.	Death-rate per 1000.	No. of Deaths under 1 year of age.	Inf'ntile Death rate per 1000 Births.
1914	149,811	3398	22.6	1994	13.3	351	102.4
1915	140,756	3279	23.2	2287	16.2	354	107.9
1916	(a) 149,009	3213	21.5	2075	15.1	260	80.9
	(b) 136,955						
1917	(a) 152,124	2864	18.8	1916	14.03	292	101.9
	(b) 136,468						
1918	(a) 150,316	2933	19.5	2169	16.2	310	105.6
	(b) 134,156						
1919	(a) 147,607	2849	19.2	2193	15.4	309	108.4
	(b) 141,756						
1920	(a) 147,625	3648	24.7	2013	13.6	317	86.8
	(b) 147,405						
1921	151,716	3214	21.1	1861	12.2	267	83.0
1922	152,552	2950	19.3	2081	13.6	243	82.3
1923	156,340	2953	18.8	1918	12.2	213	72.1

(a) For birth-rate.

(b) For death-rate.

BIRTHS.

A reference to Table II. shows that there is only a slight increase in the number of births notified in 1923, as compared with the previous year, the figures being 2,953 for 1923, and 2,950 in 1922.

The birth-rate for the whole County is 18.8 per 1,000, as compared with 19.3 in the preceding year. The birth-rate for England and Wales was 19.7.

The natural increase in the population, or excess of births over deaths was 1,035.

The following Sanitary Districts show a birth-rate above that of the County :—

Uwchaled Rural	24.4 per thousand.
Llanrwst Urban	23.1 „ „
Wrexham Rural	21.6 „ „
Chirk Rural	21.0 „ „
Llangollen Rural	19.6 „ „

The following Sanitary Districts show a birth-rate below that of the County :—

Llanrwst Rural... ..	18.0 per thousand
Abergele Urban	17.6 „ „
Glan Conway Rural	17.6 „ „
Ruthin Rural... ..	17.1 „ „
St. Asaph (Denbigh) Rural ...	16.6 „ „
Llansilin Rural	16.4 „ „
Denbigh Borough	16.0 „ „
Ruthin Borough	15.8 „ „
Colwyn Bay U.	12.6 „ „
Llangollen Urban	12.1 „ „

The birth-rate of Wrexham Borough is the same as that of the County, viz., 18.8.

Of the total births, 169 or 5.7 were illegitimate.

DEATHS.

The deaths at all ages and from all causes numbered 1918, being 163 fewer than in 1922. The death-rate calculated per 1,000 of the population was 12.2, as compared with 13.6 in 1922, and 11.6 for England and Wales.

Table IV. gives details of the causes of deaths, and in Table I. will be found the number of deaths and the death-rate per 1,000 in each of the Sanitary Districts of the County for 1923.

The following Table shows the death-rate in each of the Sanitary Districts during the years 1913 to 1923, as compared with the General County Rate, and the rate for England and Wales in each year :—

TABLE III.

DEATH RATES, 1913—1923.

(Uncorrected for age and sex distribution).

District.		1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.	1923.
Abergele	...	17.2	16.4	19.8	18.9	18.0	15.2	15.2	10.7	13.1	10.9	15.0
Chirk	...	16.3	12.67	14.2	19.7	13.5	13.9	10.7	10.0	12.1	13.6	11.6
Colwyn Bay	...	10.7	10.69	13.1	11.1	13.0	15.1	12.9	10.6	11.18	11.3	12.1
Denbigh	...	12.51	8.65	19.6	18.5	14.5	20.0	14.0	17.1	10.4	15.9	13.3
Glan Conway	...	15.14	15.22	16.88	11.7	13.0	18.3	19.1	8.6	11.4	19.4	15.3
Llangollen Rural	...	15.4	14.5	15.9	13.7	13.8	14.3	17.4	15.9	10.4	16.6	12.0
Llangollen Urban	...	10.79	16.71	17.9	15.3	11.3	16.7	18.8	13.3	14.7	9.3	10.06
Llanrwst Rural	...	17.19	15.8	13.68	19.2	12.9	20.9	17.6	14.4	13.3	15.4	14.5
Llanrwst Urban	...	28.88	21.78	21.71	15.7	19.0	23.5	19.8	17.3	12.3	17.01	16.7
Llansilin Rural	...	6.92	14.4	15.2	14.7	11.8	19.4	15.1	11.3	14.0	17.5	14.1
Ruthin Borough	...	16.9	14.1	18.9	20.2	20.4	16.0	22.0	14.6	10.7	13.9	15.5
Ruthin Rural	...	14.6	14.0	20.9	14.8	11.5	17.9	15.9	13.5	11.9	17.8	12.4
St. Asaph (Denbigh) Rural	...	15.7	15.49	13.7	15.2	15.5	17.2	16.5	15.9	9.1	13.1	11.6
Uwchalel Rural	...	13.60	13.20	16.6	17.2	10.3	11.1	17.6	12.0	15.96	15.0	10.3
Wrexham Borough	...	13.44	13.73	16.7	14.0	15.1	15.6	15.9	12.7	12.2	13.1	12.8
Wrexham Rural	...	14.13	12.88	15.9	15.2	13.7	15.4	15.2	14.4	12.7	13.09	11.5
County Rate	...	14.9	13.3	16.2	15.1	14.03	16.1	15.4	13.6	12.2	13.6	12.2
England and Wales	...	13.8	14.0	15.7	14.4	14.4	17.6	13.8	12.4	12.1	12.9	11.6

TABLE IV.

The chief causes of death during the year were as follows:—

	No. of Deaths.
Organic Heart Disease	308
Cancer (Malignant Disease)	220
Cerebral Haemorrhage	170
Pneumonia	145
Tuberculosis of Respiratory System	116
Other Tuberculous Diseases	29
Bronchitis	116
Congenital Debility	88
Arterio Sclerosis	52
Acute and Chronic Nephritis	75
Influenza	29
Whooping Cough	22
Other Respiratory Diseases	28
Diarrhoea	19
Appendicitis	15

The number and percentage of deaths at different periods are given below:—

Age Period.	No. of Deaths.	Percentage of Total Deaths.
0—1 year	213	11.1
1—2 years	38	1.9
2—5 „	35	1.8
5—15 „	51	2.6
15—25 „	74	3.8
25—45 „	220	11.4
45—65 „	499	26.0
65—75 „	392	20.4
75 and upwards	396	20.6

TABLE V.

CAUSES OF DEATH.

	U. Districts.		R. Districts.		Total for County.
	Male	Fem.	Male.	Fem.	
Enteric Fever			1	2	3
Measles	1	2	4	1	8
Whooping Cough	6	...	11	5	22
Diphtheria	1	...	...	...	1
Influenza	5	6	10	8	29
Encephalitis Lethargica ... ..	...	1	2	...	3
Meningococcal Meningitis	1	...	...	...	1
Tuberculosis of Respiratory System	22	25	30	39	116
Other Tuberculous Diseases	6	3	12	8	29
Cancer, Malignant Disease	45	45	58	72	220
Rheumatic Fever	1	...	2	1	4
Diabetes	2	4	5	1	12
Cerebral Haemorrhage, &c.	25	35	56	54	170
Heart Disease	55	66	84	103	308
Arterio Sclerosis	17	12	15	8	52
Bronchitis	15	24	40	37	116
Pneumonia (all forms)	29	19	57	40	145
Other Respiratory Diseases	3	9	10	6	28
Ulcer of Stomach or Duodenum	3	...	4	4	11
Diarrhoea, &c. (under 2 years)	1	5	7	6	19
Appendicitis and Typhlitis	2	5	5	3	15
Cirrhosis of Liver	5	3	5	...	13
Acute and Chronic Nephritis	19	11	24	21	75
Puerperal Sepsis ... ..	...	...	...	8	8
Other Accidents and diseases of pregnancy and parturition ... ..	...	2	...	13	15
Congenital debility and malforma- tion, premature birth	17	10	41	20	88
Suicide	2	1	2	2	7
Other deaths from violence	16	4	37	6	63
Other defined diseases	62	66	111	88	327
Causes ill-defined or unknown	3	1	4	2	10
	364	359	637	558	1918
Deaths of Infants under 1 year of age:—					
Total	45	28	86	54	213
Illegitimate	3	3	10	4	20
Births:—					
Legitimate	447	396	989	952	2784
Illegitimate	25	23	71	50	169
	472	419	1060	1002	2953

INFANT MORTALITY.

The rate of Infant Mortality is expressed as the deaths of infants under one year of age per 1,000 births registered. During the year 1923 there were 213 such deaths, which is equivalent to a mortality rate of 72.1 per 1,000 births. This is the lowest rate yet recorded in the County.

Taking the ten years 1914 to 1923, the average infant mortality rate was 93.1; from 1902 to 1911, the average rate was 127.8 per 1,000. The above averages clearly show the success of the efforts made to safeguard infant life.

Notwithstanding this gratifying fall in the infant mortality rate, there yet remains much that can be done. The extension and consolidation of this work will, I trust, be undertaken in each succeeding year. The most urgent needs of the County at the present moment are an improved midwifery service, the provision of a Maternity Hospital, and hospital accommodation for infants.

The Infant Mortality rate for the several Sanitary Districts are as follows :—

County Rate 72.1

Above County Rate :—

Denbigh Borough	...	...	...	...	128.4
Abergele Urban	...	...	...	...	100.0
Ruthin Borough	...	...	...	...	90.9
Llanrwst Rural	...	...	...	...	89.6
Wrexham Borough	...	...	...	...	79.2
Wrexham Rural	...	...	...	...	76.4
Llanrwst Urban	...	...	...	...	74.0

Below County Rate :—

Colwyn Bay	...	...	...	...	71.4
St. Asaph (Denbigh) Rural	...	...	...	...	71.4
Chirk	...	...	...	...	70.0
Glen Conway	...	...	...	...	64.5
Ruthin Rural	...	...	...	...	31.8
Llangollen, Urban	...	...	...	...	25.0
Llansilin Rural	...	...	...	...	20.7
Uwchaled	...	...	...	...	19.2
Llangollen Rural	...	...	...	...	13.9

The following Table VI. furnishes particulars of the infant mortality in the County for the last ten years, the causes of death being grouped under the general headings. It will be noted from the Table that the average number of deaths from the infectious group of diseases during the last ten years was 18, the year 1923 accounting for 12 deaths.

Most of the diseases in this group are attributable to measles and whooping cough, each of which, when prevalent, exacting a heavy toll of infant lives. It is almost impossible to impress upon parents the dangerous character of these two diseases. While their control is well nigh impossible, the mortality therefrom could undoubtedly be reduced by the provision of hospital accommodation for the treatment of cases with complications.

The Tubercular group of diseases accounted for two deaths, the average for the ten years being 5. These diseases must be regarded as preventable.

The respiratory group of diseases accounted for 48 deaths, as compared with 50 in the preceding year, the average number of deaths for the last ten years was 61.

The diarrhoeal group of diseases accounted for 16 deaths, the average for the ten years being 22. Almost all diseases under this heading occurred in the artificially fed.

TABLE VI.

INFANT MORTALITY, 1914—1923.

Infant Mortality Rate (Eng. & Wales)											
Infant Mortality rate (County)		1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
Infectious Group of Diseases.											
Average No. of Deaths, 18.											
Measles	...	1	12	2	5	1	4	6	1	1	2
Whooping Cough	...	26	17	1	16	31	8	9	14	9	10
Diphtheria	...	2	1				1		2	1	
Scarlet Fever	...								1	1	
Chicken Pox	...		1								
Erysipelas	...					1					
		29	31	3	21	33	13	15	18	12	12
Tubercular Group.											
Average No. of Deaths, 5.											
Tuberculous Meningitis	...	3	4	1	3	2	2	2			
Abdominal Tuberculosis	...	4	5								
Other Tuberculous Diseases	...	1		2	1	5	2	4	5	6	2
		8	9	3	4	7	4	6	5	6	2
Respiratory Group.											
Average No. of Deaths, 61.											
Bronchitis	...	25	28	24	21	29	37	21	17	15	15
Pneumonia	...	31	52	28	31	41	34	41	24	32	31
Laryngitis	...	1	1								
Other Respiratory Diseases	...			3	2	4	6	8	5	3	2
		57	81	55	54	74	77	70	46	50	48
Castro-Intestinal Diseases.											
Average No. of Deaths, 22.											
Diarrhoea	...	7	7	13	9	22	20	35	27	16	18
Enteritis	...	17	14								
Gastritis	...	7	10								
		31	31	13	9	22	20	35	27	16	18
Immaturity.											
Average No. of Deaths, 112.											
Congenital Malformation	...	9	8								
Premature Birth	...	74	49								
Atrophy, Debility & Marasmus	...	76	76	105	122	95	117	113	107	92	86
		159	133	105	122	95	117	113	107	92	86
Other Causes.											
Average No. of Deaths, 71.											
Syphilis	...		3								
Rickets	...		3								
Suffocation, Overlying	...		3								
Convulsions	...	34	26								
Injury at Birth	...	4									
Atelectasis	...	8	7								
Meningitis (not Tubercular)	...	18	19	2	1	5	2	3			
Other Causes	...	3	8	79	81	74	76	75	64	67	47
		67	69	81	82	79	78	78	64	67	47
		351	354	260	292	310	309	317	267	243	213

TABLE VII.

ILLEGITIMATE INFANTS.

	Births.		Deaths under 1 year of age.	
	Legiti- mate.	Illegiti- mate.	Legiti- mate.	Illegiti- mate.
Abergele	38	2	4	
Chirk... ..	95	5	7	
Colwyn Bay	228	10	16	1
Denbigh Borough... ..	102	7	12	2
Glan Conway	25	6		2
Llangollen R.	70	2	1	
Llangollen U.	37	3	1	
Llanrwst R.	73	5	6	1
Llanrwst U.	51	3	4	
Llansilin R.	43	5	1	
Ruthin Borough	40	4	3	1
Ruthin Rural	150	7	4	1
St. Asaph (D.) R.	97	15	7	1
Uwchale R.	45	7	1	
Wrexham Borough	347	19	27	2
Wrexham Rural	1343	69	99	9
	2784	169	193	20

TUBERCULOSIS.

The total number of deaths from Tuberculosis in 1923 was 116, being 6 more than in 1922. This gives a mortality rate per 1,000 of the population of .6, as compared with .7 in 1922.

Table VIII (A.) gives the number of deaths and death-rates from Pulmonary Tuberculosis and Other Forms of Tuberculosis since 1913; (B) gives the number of cases and death-rate for the various sanitary districts during 1923; and (C) gives the age and sex distribution of the 116 cases of deaths attributed to Tuberculosis during 1923.

TABLE VIII.

A.—Deaths from Tuberculosis, 1914—1923.

	Pulmonary. Tuberculosis.		Other Tuberculous Diseases.	
	Cases.	Rate.	Cases.	Rate.
1914	136	.91	53	.28
1915	123	.89	52	.36
1916	162	1.18	38	.2
1917	128	.9	44	.3
1918	144	1.07	31	.2
1919	133	.9	41	.28
1920	122	.8	31	.2
1921	105	.6	29	.19
1922	110	.7	37	.2
1923	116	.6	29	.15

B.—Death Rates from Pulmonary Tuberculosis in the several Districts in the County for the year 1923.

Urban Districts.	Rate.	Rural Districts.	Rate.
Abergele ... ..	.8	Chirk ... ..	.2
Colwyn Bay ... ..	.3	Llangollen	1.3
Denbigh Borough ... ..	.8	Llanrwst ... ..	.2
Llangollen	1.5	Llansilin ... ..	.6
Llanrwst	1.2	Ruthin ... ..	.9
Ruthin Borough ... ..	.7	St. Asaph ... ..	.3
Wrexham Borough	1.1	Wrexham ... ..	.7
		Glan Conway ... ..	.5
		Uwchaled ... ..	.9

C.—Age and Sex Distribution of Deaths attributed to Tuberculosis during 1923.

Sex.	All Ages.	0-1	1-2	2-5	5-15	15-25	25-45	45-65	65-75	75 and upwards
Male ..	52	...	...	...	4	7	21	19	1	...
Female ...	64	1	...	...	6	9	35	10	3	...
Total ...	116	1	...	...	10	16	56	29	4	...

The treatment of Tuberculosis is carried out by the King Edward VII. Welsh National Memorial Association. A Tuberculosis Physician and one Assistant serve the Counties of Denbigh and Flint. The Central Tuberculosis Institute is at Wrexham, and visiting stations are located at Denbigh, Colwyn Bay and Llanrwst.

The Tuberculosis Physician, or his Assistant, attends these visiting stations at different times and stated days. Selected cases are sent for sanatorium, hospital or other institutional treatment. The following Tables contain a summary of the work performed by the Memorial Association during the year :—

TABLE IX.

A.—Persons examined for Diagnostic Purposes, County of Denbigh.

	Boys	Men.	Girls.	Women.
New cases examined, including contacts	103	154	126	151
Diagnosed Tubercular:				
Pulmonary	3	63	18	65
Non-pulmonary	22	12	11	10
No evidence of active Tuberculosis	72	59	76	62
No. under observation pending diagnosis, 31st December, 1923	31	29	38	31

B.—Elementary School Children referred by S.M.O.

	Boys.	Girls.
No. under observation pending diagnosis 1st, January, 1923	18	12
No. examined during the year	34	38
No. suffering from Tuberculosis—Pulmonary	1	3
Non-pulmonary	11	7
No. with no evidence of active Tuberculosis	22	21
No. still under observation pending diagnosis, 31st December, 1923	12	14

C.—Cases treated in Hospital, Institute, and at Home.

	Hospital	Institute.	Home
	Treatment.		Treatment.
Admitted during the year:			
Boys—Pulmonary T.B.	2	1	1
Non-Pulmonary	14	19	3
Men—Pulmonary T.B.	41	8	20
Non-pulmonary	10	17	5
Girls—Pulmonary T.B.	13	1	8
Non-pulmonary	13	3	4
Women—Pulmonary T.B.	46	5	39
Non-pulmonary	9	3	1

TABLE X.
PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.
Form T99.

A.—Summary of Notifications during the period from 31st December, 1922, to the 29th December, 1923.

	Notifications on Form A													Notifications on Form B					Notifications on Form C.	
	Number of Primary Notifications													Number of Primary Notifications.					Poor Law Institutions.	Sanatoria.
	Total Notifications on Form A.													Total Primary Notifications.						
	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	Total Notifications on Form A.	Under 5	5 to 10	10 to 15	Total Primary Notifications.	Total Notifications on Form B.		
Pulmonary—Males	..	..	1	2	7	5	13	8	5	1	..	42	43	..	1	2	3	3	..	11
—Females	..	2	2	4	8	8	19	11	5	2	..	61	61	..	1	4	5	5	..	3
Non Pulmonary—Males	..	5	1	..	5	2	1	1	2	..	1	18	18	..	..	2	2	2	..	4
—Females	1	3	2	2	..	1	4	1	..	..	..	14	14	..	..	..	..	..	..	4

B.—SUPPLEMENTAL, RETURN.

New Cases of Tuberculosis coming to the knowledge of the Medical Officer of Health or Chief (Administrative) Tuberculosis Officer during the period from the 31st December, 1922, to the 29th December, 1923, **otherwise** than by notification on Form A. or Form B. under the Public Health (Tuberculosis) Regulations, 1912.

Age Periods.	0-1	1-5	5-10	10-15	15-20	20-25	25-35	35-45	45-55	55-65	65 and upw'rds	Total Cases.
Pulmonary—Males	...	...	2	...	2	1	9	3	2	3	...	22
" Females	...	...	3	3	2	7	4	5	3	...	1	28
Non-Pulmonary— Males	1	1	6	5	...	2	2	1	...	1	1	19
" Females	...	1	4	4	1	1	1	...	...	...	...	12

C.—(1) Return of Total Primary Notifications on Form A., received in respect of each of the four quarters of the year 1923.

Period.	Total Notifications on Form A (Col 13 of Form T99).			
	Pulmonary.		Non-Pulmonary.	
	Males.	Females	Males	Females.
December 31st, 1922, to March 31st, 1923	14	17	6	4
1923.				
April 1st to June 30th... ..	14	22	4	2
July 1st to Sept. 29th	10	16	5	8
Sept. 30th to Dec. 29th	4	6	3	—
Totals for 1923 (Agreeing with figures in Col. 13 of Form T.99.).	42	61	18	14

(2)—(a) No. of Notifications of Tuberculosis not made previous to death 78

(b) No. of Deaths known to have been certified as due to Tuberculosis, in respect of which no notifications were received... .. 60

MATERNITY AND CHILD WELFARE.

The following return furnishes Statistics submitted to the Ministry of Health, relating to the work carried out in the County under the Maternity and Child Welfare Scheme. The Borough of Wrexham and the Urban District of Colwyn Bay, having schemes of their own, are not included :—

Population according to the Census of 1921 117,365

Births.

Registered :

(1) Legitimate, 2,784; (2) Illegitimate, 169; (1) Total, 2,953.
Notified within 36 hours of birth :

(1) Live Births, 2,116; (2) Still-births, 128; Total, 2,244.

(1) By midwives, 1,841; (2) By parents and doctors, 403.

Infant Deaths.

Number :

(1) Legitimate, 213; (2) Illegitimate, 20; Total, 233.
Rate per 1,000 births :

(1) Legitimate, 76.5; (2) Illegitimate, 118.3; (3) Total, 78.8.

Maternal Deaths.

Number of women dying in, or in consequence of, Child-birth :

(1) From Sepsis, 8; (2) Other causes, 15.

Midwives.

Number practising in the District :

(1) Trained, 70; (2) Untrained, 32.

Number of cases attended in 1923, 2,175.

Number of cases in which medical aid was summoned, 556.

Health Visitors.

Visits paid by Health Visitors during the year :

To Expectant Mothers :

(1) First visits, 482; (2) Total visits, 1,246.

To Infants under 1 year :

(1) First visits, 2,590; (2) Total visits, 15,263.

To Children 1—5 :

Total visits, 897.

Municipal Maternity Homes.

Number of Beds, nil; Number of cases received during the year, nil; Total number of weeks spent in the Homes by such cases, nil.

Municipal Homes and Hospitals for Children under 5

Number of Beds, nil; Number of Children under 5 received during the year, nil; Number of weeks spent in the Homes by such cases, nil.

Municipal Day Nurseries.

Total number of attendances of children under 5 during the year, nil.

HEALTH VISITING.

It will be noted that 15,263 visits were paid by the Health Visitors to infants under one year of age; 1,246 visits to expectant mothers; and 897 visits to children 1—5 years, making a total of 17,406 home visits paid. In many cases frequent re-visits were made, some infants receiving weekly re-visits, while in exceptional cases the Nurses paid daily visits.

Ante-natal visiting of expectant mothers is not as satisfactory as one could wish, but it should be borne in mind that much of this visiting is undertaken voluntarily by the specially trained midwives who fill an important role in Maternity and Child Welfare Schemes.

It is necessary to keep children 1—5 years under constant supervision, and such children are periodically re-visited. This, however, can be efficiently carried out without an increase in the Nursing Staff.

In the industrial portion of the County, health visiting is undertaken by the whole-time County Nurses, who also render service under the School Medical Scheme. The mothers greatly appreciate their efforts on behalf of their children.

In the Western, or more rural portion of the County, local Nurses undertake health visiting. As they have not been specially trained the quality of their service cannot be compared with the whole-time Health Visitors, but they are doing useful work.

TABLE XI.

MATERNITY CENTRES.

	Whether Sessions are held Weekly, Fortnightly, etc.	Day and time of Meeting.	Average Attendance per Session.		Present arrangem't for Medical Supervision.
			Expectant Mothers.	Children.	
COEDPOETH. Penygelli School...	Fortnightly ...	Mon. 10—1	1	26	Assistant M.O.
SOUTHSEA. Welsh Wesleyan Chapel ...	„	„ 10—1	2	50	„
BRYMBO. Council Schools...	„	Tues. 10—1	1	30	„
BROUGHTON. Church House ...	„	Tues. 2—5	2	30	„
SUMMERHILL. Welsh Wesleyan Chapel ...	„	„ 2—5	1	35	„
RHOSROBIN. Church House ...	„	Wed. 10—1	1	60	„
RHOS. Leeswood House...	Weekly ...	„ 2—5	1	50	„
LLANGOLLEN. Memorial Hall ...	Fortnightly ...	„ 2—5	1	28	„
CEFN. Well Street ...	Weekly ...	„ 10—1	1	45	„
ABERGELE. Church House ...	Fortnightly ...	Thurs. 2—5	...	25	County M.O.
LLANRWST. Watling Street ...	„	Fri. 2—5	...	18	„
*GLAN CONWAY. Church House ...	„	Thurs. 2—5	...	5	„

*Centre discontinued after 14th June, 1923.

The above Table furnishes particulars of the Maternity and Child Welfare Centres established in the County. The attendance generally continues very satisfactory. The attendance at Glan Conway, however, diminished to a very low figure, and the Centre was discontinued after Thursday, the 14th June, 1923.

There is no doubt whatsoever about the growing popularity of the Centres, proof of which is clearly shown in the fact that the Rhos and Cefn Centres are now held weekly instead of fortnightly.

But for the great difficulty in securing suitable premises, other Centres would be established to meet the demands that are made from time to time.

Voluntary Committees of ladies are attached to some of the Centres, and they render service which is appreciated both by the County and the mothers.

Excellent as is the work carried out at the Centres, it must remain incomplete until there exists some hospital provision for the more difficult cases, where; for a variety of reasons, the mother is incapable of carrying out the advice given.

DRIED MILK.

Cow and Gate dried milk preparation is supplied at cost price or free to necessitous mothers, who are unable to breast-feed their children.

The following Table furnishes particulars :—

Name of Nurse or Centre.	No. of packets. sold.	No. of packets. given free.
Nurse Cornwall	1425	813
Nurse M. E. Jones	746	305
Nurse K. Jones	982	430
Nurse M. Hughes	1429	512
Nurse M. R. D. Williams	241	1121
Nurse Minnie Jones... ..	456	79
Nurse D. Evans	425	7
Abergele Centre... ..	492	180
Llangollen Centre... ..	21	564
Glan Conway Centre	298	38
	<hr/> 6515	<hr/> 4049

FRESH MILK.

Particulars of Fresh Milk supplied during the year are as follows :—

No. of persons. receiving milk.	No. of milk vendors.	Value of milk given free.
133	95	£127 11 5

MIDWIVES.

At the close of the year 1922 there were 102 midwives who had notified their intention to practise. The qualifications of the midwives were as follows :—

Bonafide, in practice prior to July, 1901	32
Examination of C.M.B. or other recognised Diploma, attached to Nursing Associations	31
Examination of C.M.B., practising independently	39

During the year the midwives attended 1841 cases of confinement alone, and with medical practitioners either previously engaged or summoned in an emergency, 2,244. Of this number, 1,267 were attended by bonafide, and 977 by C.M.B. midwives.

TABLE XII.

INFECTIOUS NOTIFIABLE DISEASES.

The following table furnishes particulars respecting the notifications received during 1922, and for comparative purposes the five preceding years are shown.

The extensive prevalence of Infectious Diseases during the year will be noted :—

Disease.	1918	1919	1920	1921	1922	1923
Diphtheria... ..	123	215	499	595	184	67
Erysipelas... ..	35	52	59	34	33	26
Scarlet Fever	369	486	766	536	266	170
Enteric Fever	16	11	11	23	2	15
Puerperal Fever	6	4	7	3	6	6
Cerebro-Spinal Meningitis	2	—	—	2	—	1
Polio-myelitis	—	1	—	—	1	—
Ophthalmia Neonatorum	23	25	19	17	19	22
Pulmonary Tuberculosis	113	130	152	122	140	161
Other forms of Tuberculosis	29	46	17	27	28	30
Pneumonia... ..	—	42	112	60	159	149
Encephalitis Lethargica	—	—	—	—	2	9
Malaria (believed to be contracted abroad) ...	—	—	—	—	1	—
Totals	716	1012	1612	1419	841	656

TALBE XII.—HOUSING RETURN FOR THE YEAR ENDED DECEMBER 31st, 1923.

Districts.	Degree of defect.			Action taken.				Result of action.				Remaining under consideration.						
	No. of houses (approx) under £16 rental.	Number of houses inspected during past quarter.	No. with sanitary defects.	Defects serious and irreparable. House unfit for human habitation.	Defects serious but remediable.	Minor defects.	Closure recommended.	Closure Order issued.	Statutory notices served under Public Health Acts.	Statutory notices served under Housing Acts.	Informal notices served.	Houses vacated.	Notices fully complied with.	Notices partially complied with.	Defects unremedied.	From previous year.	From present year.	Number of re-inspections.
URBAN—																		
Abergele	370	242	38	1	21	16	1	2	17	4	31	1	21	12	21	13	4	36
Colwyn Bay	1273	263	263	1	90	172	1	1	69	2	262	2	95	14	155	7	20	563
Denbigh	1260	95	44	8	7	29	8	1	3	2	42	2	31	1	148	22	8	82
Llangollen	596	47	30	1	2	27	1	1	3	3	25	2	16	10	1	6	2	41
Llanrwst	386	41	29	2	6	23	2	1	3	3	29	2	14	12	3	2	2	15
Ruthin B.	300	257	59	9	32	28	5	8	3	10	15	4	2	5	17	9	17	19
Wrexham B.	1941	851	696	28	43	654	28	28	5	3	696	2	352	72	28	2	2	795
RURAL—																		
Chirk	800	69	44	2	13	10	2	3	30	4	12	2	9	6	2	5	1	106
Glan Conway	30	237	45	2	16	30	3	1	3	2	14	2	9	25	10	1	1	7
Llangollen	960	61	35	2	19	19	2	2	3	2	7	2	9	3	12	2	2	34
Llanrwst	592	84	17	2	6	12	2	1	3	1	16	2	16	2	2	141	11	70
Llansilin	2253	25	31	1	10	20	1	1	3	1	29	1	1	7	23	1	2	169
Ruthin	2253	328	146	1	27	118	2	2	10	1	114	1	86	25	11	7	8	75
St. Asaph (D) R.	1530	192	192	3	61	131	1	1	32	2	65	2	15	69	29	2	2	81
Uwchale	330	81	21	3	10	8	1	1	3	2	19	3	7	2	9	2	2	3593
Wrexham	579	579	409	6	306	82	8	2	131	277	226	3	236	120	403	435	84	3593

SALE OF FOOD AND DRUGS ACTS.

Summary of the Report of the Inspectors appointed under the Sale of Food and Drugs Acts, for the year ended 31st December, 1923.

Eastern Division.

(Samples taken by Mr. Noah Price).

I beg to report that during the year ended December 31st, 1923, 118 samples of Food and Drugs were procured and submitted to the County Public Analyst. 96 were taken formally, and 22 informally. 100 were certified genuine and 18 adulterated. 31 were taken in the Wrexham Borough, and 72 in the Rural Districts.

They comprise the following, viz. :—

Description of Sample	Number taken	Taken formally	Taken informally	Certified genuine	Certified adulterated	Taken in the Borough of Wrexham	Taken in R'l Districts
New Milk	103	96	7	87	16	31	72
Butter	5	—	5	4	1	5	—
Margarine	2	—	2	2	—	2	—
Cheese	1	—	1	1	—	1	—
Fresh Cream	1	—	1	1	—	1	—
Preserved Cream	2	—	2	2	—	2	—
Lard	1	—	1	1	—	1	—
Cocoa Powder	1	—	1	1	—	1	—
Sago	1	—	1	1	—	1	—
Cider	1	—	1	—	1	—	1
Total	118	96	22	100	18	45	73

Five prosecutions were instituted against dairymen for selling diluted and adulterated milk.

One offender was convicted, three cases were dismissed, and one case adjourned under Section 22, Sale of Food and Drugs Act, 1875, for the third sample to be analysed by the Government Chemist.

Eight dairymen were cautioned for selling milk below the standards. The samples for the year yielded an average of 3.44 per cent. of fat, and 8.92 per cent. of non-fatty solids, compared

with 3.47 per cent. and 8.82 per cent. for last year. They were free from preservatives and colouring matter.

The fines and cost amounted to £3 19s. 6d.

Western Division.

(Samples taken by Mr. J. Clarke Jones).

I beg leave to report that during the year ended 31st December, 1923, 154 samples of Food and Drugs were submitted to the Public Analyst for analysis.

The particulars are as follows :—

Article	Number taken	Formally	Informally	Genuine	Adulterated	Broken
New Milk...	113	94	19	75	37	1
Pasteurized Milk	2	2	—	2	—	—
Butter...	9	8	1	9	—	—
Lard	1	1	—	1	—	—
Cream...	5	4	1	2	3	—
Preserved Cream	2	2	—	2	—	—
Coffee	2	2	—	2	—	—
Jam...	3	3	—	3	—	—
Syrup...	1	1	—	1	—	—
Flour	1	1	—	1	—	—
Bacon	1	1	—	1	—	—
Rice...	1	1	—	1	—	—
Honey...	2	2	—	2	—	—
Demerara Sugar	1	1	—	1	—	—
Tinned Fruit...	1	1	—	1	—	—
Tinned Salmon	1	1	—	1	—	—
Tinned Sardines	1	1	—	1	—	—
Ground Almonds	1	1	—	1	—	—
Olive Oil...	1	1	—	1	—	—
Linseed Meal	1	1	—	1	—	—
Spirits...	4	4	—	4	—	—
Totals	154	133	21	113	40	1

In addition to the above, 37 informal samples of milk were analysed in the Office for preliminary information.

Of the 113 samples of milk submitted to the Public Analyst for analysis, 37 (one in every three) were certified to be below the standard, the quarterly variation being :—March, 27.5 per cent.; June, 52 per cent.; September, 35.3 per cent.; and December, 16 per cent. As the standard is much lower than average milk these figures reveal a very unsatisfactory state.

Seventeen "appeals to the cows" were made in connection with samples presumed to be adulterated, and in seven instances the cows gave milk below the standard, one being 21 per cent. below in fat.

One sample of milk was 33.3 per cent. below the standard for fat. A series of samples obtained from the suppliers exonerated the vendor, but, as the supply was mixed, I was unable to follow up the presumed adulteration to its source.

Another sample bought from a retailer was 7.3 per cent. below the standard for non-fatty solids. A sample was immediately procured from the farmer-supplier, and found to be 15.8 per cent. below the standard. An appeal to the cows exonerated both the farmer and the retailer.

In another instance the sample was 12 per cent. below the standard for fat. Two "appeals to the cows" gave milk 33 and 29 per cent. respectively higher in fat. Proceedings were instituted, but the information was dismissed on the ground that the milk was sold as it came from the cows, notwithstanding the three Certificates of the Public Analyst.

Four other proceedings were instituted as detailed below.

The most serious deficiencies in milk fat were 33.3, 21, 18.3, 14.3, 12.3, 12, 11, 10.7, 10.3, and 9.7 per cent.; and the worst instances of presumed additions of water were 20.2, 19.1, 15.8, 11.9, 9.2, and 7.4 per cent.

Five of the milk samples contained sediment, partly cow dung, to the extent of 14, 12.4, 6.5, 5.8, and 4.6 grains respectively per gallon. Proceedings were instituted in each case, as detailed below.

One sample of Cream, labelled "Preserved Cream," was free from preservatives, and three other samples, not labelled, and sold as fresh cream, contained small quantities of preservative. The vendors were cautioned.

Particulars of Prosecutions.

Reg. No.	Article.	Offence.	Result of Prosecution.	Remarks.
31.	New Milk.	Sediment, partly dung. 4.6 grains.	Fined 11/-.	Costs only.
59.	do.	Added water.	Fined 20/-.	Costs only.
64.	do.	Sediment, partly dung. 5.8 grains.	Fined 5/6.	Costs only.
65.	do.	Sediment, partly dung. 14 grains.	Fined 5/6.	Costs only.
66.	do.	Sediment, partly dung. 12.4 grains.	Fined 60/-.	
70.	do.	Sediment, partly dung. 6.5 grains.	Fined 60/-.	
90.	do.	Deficiency in fat.	Dismissed.	Presumption rebutted.
133.	do.	Added water.	Fined 10/-.	
134.	do.	Deficiency in fat.	Dismissed.	Presumption rebutted.
165.	do.	Added water.	Pending.	

The average quality of the new milk examined during the year was rather low—the percentages being 3.35 of fat and 8.73 of non-fatty solids.

The percentages for the past seven years are as follows :—

1917	...	...	...	Fat	3.55	...	Non-fatty solids	8.87
1918	...	...	...	"	3.39	...	"	8.92
1919	...	...	...	"	3.50	...	"	8.88
1920	...	...	...	"	3.42	...	"	8.90
1921	...	...	...	"	3.39	...	"	8.82
1922	...	...	...	"	3.34	...	"	8.79
1923	...	...	...	"	3.35	...	"	8.73

COUNTY OF DENBIGH.

Public Health (Milk and Cream) Regulations, 1912 to 1917.

Report for the year ended 31st December, 1923.

1. Milk and Cream not sold as Preserved Cream.

(a)		(b)	
Number of samples examined for the presence of a preservative.		Number in which preservative was reported to be present and percentage of preservative found in each sample.	
Milk	172	...	—
Cream	6	...	3
			0.09
			0.05
			0.16 per cent. res- pectively.

Nature of preservative in each case in Colum (b) and action taken under the Regulations in regard to it.

Cream Boric Acid. Vendors cautioned.

2. Cream sold as Preserved Cream.

(a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to preservatives were correct :—

(1). Correct Statements made	3
(2). Statements incorrect... ..	1
	—
	4
	—

3. Percentage of preservative found in each sample.	Percentage stated on Statu- tory label.
.12% Boric Acid.	Not known.
1.27% Boric Acid.	Not known.
Nil.	0.4
.21% Boric Acid.	0.4

(b) Determination made of milk fat in cream sold as preserved cream :—

(1) Above 35 per cent.	4
(2) Below 35 per cent.	—
	—
Total...	4
	—

(c) Instances where (apart from analysis) the requirements as to labelling or declaration of preserved cream in Article V (1) and the proviso in Article V (2) of the Regulations have not been observed—Nil.

(d) Particulars of each case in which the Regulations have not been complied with and action taken—Nil.

Thickening Substances—Nil.

Other Observations (if any).

The samples of Milk yielded an average of 3.44 per cent. of milk fat, and 8.92 per cent. of non-fatty solids. Two samples contained sediment consisting of dung. Fourteen samples were deficient in milk fat.

TABLE XIV.

A.—Chester Royal Infirmary.

VENEREAL DISEASES.

Annual Report of Medical Officer of Treatment Centre for year ended 31st December, 1923.

Return relating to persons residing in the County of Denbigh, who were treated at the Treatment Centre at Chester, during the year 1923.

1. Number of persons dealt with at or in connection with the out-patient Clinic for the first time, and found to be

	Male.	Female.
Suffering from syphilis	42	3
„ „ soft chancre	—	—
„ „ gonorrhoea	17	5
Not suffering from venereal disease	—	1
	—	—
Total ...	59	9
	—	—

2. Number of persons discharged from the out-patient Clinic after completion of treatment for

Syphilis	20	2
Soft chancre	—	—
Gonorrhoea	11	2
Total ...	31	4

3. Number of persons who ceased to attend the out-patient Clinic without completing treatment, and who were

Suffering from syphilis	22	14
„ „ soft chancre... ..	—	—
„ „ gonorrhoea	8	1
Total ...	30	15

4. Total attendances of the persons at the out-patient Clinic who were suffering from

Syphilis	591	139
Soft chancre... ..	—	—
Gonorrhoea	244	50
Not found to be suffering from venereal disease	2	1
Total ...	837	190

5. Aggregate number of ' In-patient ' days of treatment given to persons

Suffering from Syphilis	122	—
Suffering from Gonorrhoea... ..	46	—
Total ...	168	—

6. Number of persons treated with Salvarsan substitutes

180 38

7. Number of doses of Salvarsan substitutes given :—

Name of Drug :—

Novarsenobillon.

	No. of doses.
Dose 0.45	84
„ 0.15	11
„ 0.6	179
„ 0.3	5

Stabilarson.

Dose 0.45	71
„ 0.15	2
„ 0.6	117
„ 0.4	1
„ 0.3	15

Sulfarsenol.

Dose 0.42	4
„ 0.6	5

H. I. Detox.

Dose 0.3	1
-----------------	---

Total ...	495
-----------	-----

8. Examination of Pathological material :—

Specimens from persons attending at the Treatment Centre which were examined at this Centre :—

For detection of spirochetes... ..	2
For detection of gonococci	35
For Wassermann reaction	118
Others	—
Total ...	155

(Signed) *K. V. Trubshaw,*
Medical Officer of the Treatment Centre.

TABLE XV.

B.—Bangor V.D. Clinic.

VENEREAL DISEASES.

Annual Report of Medical Officer of Treatment Centre for year
ended 31st December, 1923.

Return relating to persons residing in the County of Denbigh,
who were treated at the Treatment Centre at Bangor during
the year 1923.

	Male.	Female.
1. Number of persons dealt with at or in connection with the out-patient Clinic for the first time, and found to be		
Suffering from syphilis	2	6
,, ,, gonorrhoea	1	2
,, ,, soft chancre... ..	—	—
Not suffering from venereal disease	—	—
	—	—
Total ...	3	8
	—	—
2. Number of persons discharged from the out- patient Clinic after completion of treatment for		
Syphilis	1	—
Soft chancre... ..	—	—
Gonorrhoea	—	2
	—	—
Total ...	1	2
	—	—
3. Number of persons who ceased to attend the out- patient Clinic without completing treatment, and who were		
Suffering from syphilis... ..	2	3
,, ,, soft chancre... ..	—	—
,, ,, gonorrhoea	—	—
	—	—
Total ...	2	3
	—	—
4. Total attendances of all the persons at the out- patient Clinic	77	
5. Aggregate number of 'In-patient' days of treatment given to patients... ..	369	
6. Number of doses of arsenobenzol compounds given	47	

7. Examination of Pathological material :—

Specimens from persons attending at the Treatment Centre which were sent to an independent laboratory for examination :—

	Number.
For detection of spirochetes	—
For detection of gonococci	3
For Wassermann reaction... ..	15
Others	—
Total ...	18

(Signed) *J. E. Thomas,*

Medical Officer of the Treatment Centre.

[illegible]

15	Cerebral hæmorrhage, &c.	M	25...	...	...	...	...	6...11...	8	56...	...	...	...	...	...	16...	23...	17
16	Heart disease	F	35...	...	...	1...	1	7...12...	16	51...	...	...	...	...	...	14...	17...	22
17	Arterio-sclerosis	M	55...	...	...	...	...	7...19...	11	84...	...	...	...	3	...	21...	32...	25
18	Bronchitis	F	66...	...	...	...	...	3...19...	24	103...	...	...	...	1	...	29...	32...	33
19	Pneumonia (all forms)	M	17...	...	...	...	...	1...4...4...	8	15...	...	...	...	...	...	6...	6...	3
20	Other respiratory diseases	F	12...	...	...	...	...	3...1...	8	8...	...	...	...	...	...	3...	1...	4
21	Ulcer of stomach or duodenum	M	15...	3...	...	...	...	1...5...	1	40...	...	1	...	...	...	6...	14...	15
22	Diarrhoea, &c.	F	24...	3...	...	...	...	7...3...11	11	37...	...	...	...	...	...	6...	6...	18
23	Appendicitis and typhilitis	M	29...	9...	2...	...	...	1...3...7...	2	57...	...	4	...	...	...	13...	10...	4
24	Cirrhosis of liver	F	19...	3...	5...	1...	1	2...5...	3	40...	...	7	...	...	...	6...	4...	3
25	Acute and chronic nephritis	M	3...	1...	...	...	...	1...1...1...	1	10...	...	...	...	...	...	2...	2...	3
26	Puerperal sepsis	F	9...	...	...	...	...	1...2...	5	6...	...	...	...	...	...	3...	2...	3
27	Other accidents and diseases of pregnancy & parturition	M	3...	...	...	...	...	1...2...	...	4...	...	...	...	...	...	1...	1...	1
28	Congenital debility & malformation, premature birth	F	2...	...	...	...	...	1...1...	...	4...	...	...	...	...	...	2...	1...	2
29	Suicide	M	17...17...	...	...	...	...	...	...	12...	...	...	...	...	...	1...	6...	4
30	Other deaths from violence	F	10...9...	...	...	...	...	...	...	21...	...	...	...	...	...	10...	6...	...
31	Other defined diseases	M	2...	...	...	...	...	...	...	21...	...	...	...	...	...	8...	6...	...
32	Causes ill-defined or unknown	F	1...	8...
33			4...
34			61...11...	1...	1...	1...	1	1...17...	11
35			64...8...	2...	1...	2...	2	5...14...	8
36			3...	2...1...
37			1...	1...1...
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