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Contributors

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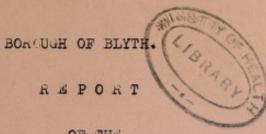
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OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR

1946.

A.G. MEWELL, M.D. : C.M.; L.M.; D.P.H.

Public Health Department, "Dinsaale" Marine Terrace, BLYTH, Northumberlana.

Fabruary 1947.

ALC: NAMED AND LOSS ASSESSED ADDRESS.

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MEMBERS OF THE HEALTH COMMITTEE:-

Chairman	-	Alaerman	K.	De	nnachie	•
----------	---	----------	----	----	---------	---

Vice Chairman - Algerman J. Mitchell.

The Mayor, Counciller Fcy,

Alderman Donnachie, " Hamm,

" Mitchell, " Kay,

" Murdy, " Kinsman,

Cruncillor Allan, " Raffell,

" Allison, " Ridley,

Brandin, "Ryder,

Carr, " Saarla,

Curry, "Summers,

Waters.

MEMBERS OF THE MATERNITY AND CHILD WELFARE COUNTITIES:-

Chairman - Councillor Mrs. M.L. Summers.

Sculsby,

Vice Chairman - Councillor Mrs. J.G. Allison.

Chairman, Vice-Chairman and Members of the Health Committee.

Cc-opted Members :-

Crate,

Mrs. Coleman. Mrs. Patience,

Mrs. Darling, Mrs. Routleage,

Mrs. Henson, Mrs. Robinson,

Mrs. Levy, Mrs. Sparle,

Mrs. Mitchell, Mrs. Wilkinson.

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dley,	EB. W		Allison,	
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MENDARS OF THE MATARAITY AND CHILD

Shalrann - Councillor Mrs. M.L. Susmars.

Vice Chairman - Councillor Mrs. J.G. Allison.

Chairman, Vice-Chairman and Mambers of the Health Committee.

-: BILLONEM DEJGG-00

Mrs. Coloman. Mrs. Patience,

Mrs. Darling, Mrs. Routlag s,

Mrs. Hanson, Mrs. Robinson,

Mrs. Lavy, Mrs. Starls,

STAFF OF THE PUBLIC HEALTH AND MATERNITY AND CHILD WELFARE DEPARTMENTS - 1946.

Medical Officer of Health Medical Officer, M.& C.W. Authority School Medical Officer Port Medical Officer

Ophthalmic Surgeon

Women's Advisory Clinic

Ante-Natal Clinic

Obstetric Emergency Service

Dental gurgeon

Senior Sanitary Inspector

Deputy Senior Sanitary Inspector

Health Visitors

Temporary gherthand Typists

Clark

Temporary Overcrowding Clerks.

(A.G. NEWELL, M.D.; C.M.; (L.M.; D.P.H. (J. STOKOE, M.D.; B.S.; B.hy.; (D.P.H. - to lst. Sept. 1946.

A.T. PATERSON, M.D.: F.R.C.S. (Edin.); D.P.H.

MRS. D. SINTON, M.B.; Ch.B.

Medical Officer provided by the County Council.

(PROFESSOR E.F. MURRAY, (M.D.;F.R.C.S.; F.R.C.O.G. (H.H. EVERS, (M.B.; M.S.; F.R.C.S.; (F.R.C.O.G. (F. STABLER, M.D.;F.R.C.S.; (M.R.C.O.G. (W. HUNTER, M.D.; B.S.; (M.R.C.O.G. (MR. ARTHUR, F.R.C.S.; (M.R.C.O.G.

H.O.J. BEDGOOD, L.D.S.

F.B. HARTLEY, M.S.I.A. - to 30th. Sept. 1946.

J.G. SIMPSON, M.S.I.A.

(MISS R.M. FIDLAY, S.R.N.; (S.C.M. (MISS D. ROBSON, S.R.N.; (S.C.M. (MISS M. MURRAY, S.R.N.; (S.C.M.

MRS. M. MORTON. MISS S. CLARK.

M.F. GODFREY, (on study leave.)

(T.G. MORALEE (C. FELLOWS - up to 5th.Oct. 1946. (T. WALTON - up to 5th.Oct. 1946.

STATE OF THE PRODUCT ASSESSMENT AS THE CHIEF

dedical Officer, M.& C.W., Authority Medical Officer, M.& C.W., Authority School Medical Officer Port Medical Officer

Ophthalmic Surgeon

Wemin's Advisory Clinic Anti-Watel Clinic

Contatrio Americano, Service

Dantel gurgeon /

Deputy Senior Sanitary Inspector

Meanith Visitors

Temporary shorthand Typists

OBSTRE

Temporary Oviroreding Clarks.

(A.G. Mawail, M.D.; C.M.; (L.M.; D.P.H. (J. STONDE, M.D.; B.G.; B.by.; (D.P.H. 4 to lat. Sapt. 1946.

A.T. PATHARON, N.D.; F.R.C.S. (Bdin.) ; D.P.H.

Madical Officer provided by the Ocunty council.

PROTESSOR B.F. MURRAY,
M.D. 17.R.C.S.; F.R.C.C.C.
M.B.; M.S.; F.R.C.C.;
M.B.C.C.C.C.
P. STABLER, M.D.; F.R.C.S.;
M.R.C.C.C.
W. HULTLER, M.D.; B.S.;
M.R.C.C.C.
M.R.C.C.C.C.

F.S. HARTIMY, M.S.I.A. te Sorn. Bapt. 1946.

(B.C.M. FINIAY, S.R.M.; (B.C.M. (MISS D. ROBSOW, B.R.M.; (BIGS M. MURSAY, B.R.M.; (B.C.M.

MAS, M. MORTOH.

J.F. GOLTHHY, (on study leave.)

(T.G. MORALES (C. FALLOWG - up to 5th.Oct. 1946) (T. WALTOH - up to 5th.Oct. 1946)

BOROUGH OF BLYTH.

AT UAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR 1946.

Your Worship, Laaiss and Gentlemen,

I have the honour to present to you my report on the Public Health and Sanitary conditions in the Borough of Blyth during the year 1946.

A Sunmary of the main Public Health aspects, comments, and suggestions will be found on the first two pages.

The various statistical tables which have been grouped under each section will provide interesting figures on the main diseases, housing conditions, and Sanitary matters.

I feel grateful for the support given in my enceavours for the benefit of the Public.

To my brother officers, I offer my thanks in appreciation of their co-operation, as well as to all others who have helped me. I also appreciate the help of the lady helpers who voluntarily gave their time at the welfare Clinic.

I remain,

Your Worship, Lauies and Gentlemen, Your Obscient Servant,

A.G. MEWELL,

Madical Officer of Health.

To the Mayor, Alaerman, and Councillors of the Berough of Blyth.

+

- 1. Birth Rate: There were 741 births during the year. Of these 271 were notified from Maternity Homes representing 36.6% of the total births. There were 36 illegitimate children, being 4.6% of the total births. There were five more male children over the total of 368 females. There were 17 "still-births" among the legitimate births and only one among the illegitimate ones. 11.7% of the total births took place in the month of May. (See Page 29).
- Premature Babies: There were 24 cases of premature births with 27 infants (4cases of twins). There were 9 deaths within one month, and 2 between 5 weeks to 3 months. This means 40.7% of the 27 infants died within 3 menths. (See Page 32).
- Total Deaths during the year was 395 (224 males and 171 females). Death Rate is about the same as last year, 12.7 per 1,000 population. 193 (or 45%) of all deaths were in persons of 65 years or over. There were 53 more deaths among females. The chief causes of death were, Brdin diseases 58; Heart & Circulatory diseases are 138; Cancer 59; Tuberculosis 38; in all of which asaths were greater among the males, except Brain diseases in which there were 16 more quaths among females than among males. The Infantile Mortality rate for the year is 64.7 per 1,000 Live Births (against 61.8 for 1945). There were 31 males and 17 females. Age distribution shown on Page 4. (With Quarterly Returns received after stencilling Page 4, the infantile mortality comes to 68.8 per 1,000 Live Births).
- 4. Cancer: Deaths from Cancer totalled 59 of which all were among those over 66 years of age. Most of the cases (12) were of the stomach and duodenum. (See Page 5).
- 5. Infectious Diseases: (a) We had an epidemic of measles causing 641 cases (began late lovember), against 67 in 1945. Epidemics of measles occur every other year. The previous records of them are 1944 = 743 cases (15th.June); 1942 = 912 cases (26th.June); and 1940 = 751 cases (6th.May). (Dates in brackets represent practically date of outbreak).
- (b) Diphtheria: There were 51 cases against 108 in 1945 a considerable improvement. (Table on Page 7). The table shows a definite drop in the incidence of the disease since 1941 as a result of immunisation. Taking the estimated population of age group 0 to 4 years inclusive, which is 2,820, we have immunised 1,658 in this group leaving a susceptible number in this group of 1,162. Of the school children population ages 5 to 14 inclusive, we have the figure of 5,270 of which 4,625 have been immunised. This leaves 645 un-immunised. would appear there is more objection to immunisation on the part of fathers than from methers of those children of five years and under. This is to be regretted. At the same time it must be remembered that sems of the school children may have lost their protection and become susceptible. This seems to happen between 3 and 5 years. This can only be proved by the Schick Test. It behaves every one who desires to eliminate this areaded disease to use their influence with parents to get their young child immunised soon after nine months. During the year I have immunised 422 children under 5 years and 45 ever that age. I am grateful to the general practitioners who have willingly come with the scheme and during this year have immunised 93 chiluren between them. (See Page 9).
- Pneumonia: There was a rise in the number of cases, the total being (c) 58 apainst 35 in 1945.
 - Whooping Cough accounted for 67 cases against 79 last year.
 - (a) Tuberculosis: Total cases were 62 of which 55 were pulmonary cases (against 22 cases with 16 pulmonary type in 1945). The total agaths were 36 being 10.4% of the total registered agaths (395) the corresponding figure for England & Wales being 5.5%. A note on prevention is added to provide further interest to this subject. (See Pages 10, 11, and 12).
 - Clinics: The total attendances at all the various clinics was 8,882 (See Page 28). The future of these clinics remains to be determined according to how the new Health Act is going to be administered. A brief note on this is given. (And consult diagram at end).

- Anty-Natal Clinic: There were 100 sessions in the year with an avarage attendance of 33 per session. The total new patients seen wars 649; ra-visits 2,719. (Sas Page 38).
- Post-Natal Clinic was conqueted by Dr. Dorothea W. Stinton. There were 21 sessions with a total of 196 attendances. (See Page 38).
- Maternity Section: (See Table on Page 29). Of 741 maternity cases 271 were attended to at a Maternity Home or Hospital, this giving 36.5%, and of this number 115 went to Dilston Maternity Home. The total cost to the rate-payers for 271 cases was £2,250. There were 12 cases of Toxasmia. There were 37 illegitimate births (one a "stillbirth"). There is a distinct need for analyssia as expressed by
- o those confinea, from a questionnaire I put among a limitea number (See Page 36). For the prevention of infantile acathe Bloca samples are taken at the clinic and examined at Newcastle to determine if the women are susceptible to the Rh. factor. In craer to explain this statement I have tried to put into non-technical language a general survey of the subject and trust it proves interesting. Blood Prassuras are taken forthightly and the relation of this is the cocasion of a brief note.
- 10. Blyth and District Diamond Jubiles Nursing Association: During the year April 1st. 1945, to March 31st. 1946, Nurses have attended 118 Maternity cases, 173 Midwifery, 170 Medical, 154 Surgical, 50 Chronic, 3,293 Ante-Natal Visits, 198 nights on duty. Total number of visits 15,069; 246 patients have been conveyed to hospital. Murses continue to accompany patients to Dilston Hall. Murses continue to attend the Clinic at Beulah House 3 afternoons each week; this work has grown and serves a most useful purpose.
- 11. Health Visitors Work: (See Tables on Pages 16 and 21). These show a very creattable performance of the work acne. A little short of 100 visits were paid in two months (May and October) in spite of the call on them for attendances at the Infant Welfare and Toddlers Clinic and the taking of block samples at the Maternity Clinic. The need for an extra Health Visitor is great. Delinquency acts have been noticeable and so I have briefly reviewed the situation.
- 12. Housing: The number of applications for Council Houses to the 31st. December, 1946, was 5,207. (See Pages 39 and 40). Owing to shortage of staff I have not been able to live all the ustails of Housing as aone previously.
- 13. Sanitary Department: I araw your attention to the new plant (H.T.S.T. Process) for Pasteurisation at the Co-operative Dairy which will be worth a visit. I give a brief cutline on the subject and on the Methylene Blue Test which is so often referred to. Complaints as to Muisances etc.: (See Table on Page 41). There was a total of 1,034 during the year. No less than 293 concerned house defects as was to be expected. There was an increase in the work at the slaughterhouse. I would like to record the excellent work put in by Mr. Simpson since he has been on his own. The good work of Mr. Pringle demands mentioning.
- 14. Venereal Diseases: V.D. Clinic at Blyth. Treated for the first time during the year = 191 cases. Also treated those dealt: with for first time at other centres = 64 cases. Total = 255 cases.
- 15. Baulah House Scheme under consideration. A suggested plan is shown at the end of the report. Baulah House (a) Plans have been submitted for utilisation of this building, with the addition of Hutments, for a Maternity Home. Alternatively it could be utilised as(b)A Home for emergency case and for all clinics or (c) A Health Centre ind all clinics. For (a) it would be better to have one centre for all clinics on an extended scale plus a day nursery as shown in the Retunda suggastad.

16. Pathological Reports: I have to thank Dr. Messer for the prompt attention and valuable help given to me in this matter.

	ARRA.	Heart Disease Frain " Lung " Kidney " Bowel " Operation Zymotic Diseases. (a) Diohtheria (b) Pneumonia Acute Enteritis Cancer Violence. (a) Suicide (b) Road Accidents (c) Other Causes. (c) Other Causes. Tuberculosis (Pul.) Schility Influenza Prematurity Valignant Growths Other Diseases	
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	224	Wallo 79 22 11 11 12 12 13 14 15 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
	171	Female 59 37 27 27 27 27 27 27 27 27 27 27 27 27 27	
	395	158 158 158 158 158 158 158 158 158 158	

SECTION A.

STATISTICS A D SOCIAL CONDITIONS OF THE FREA.

AREA:- No change in the Borough Area took place in 1946, and the acreage remains as formerly at 6,467.

POPULATION: - (Registrar-General's estimate for year 1946) 31,060.

No. OF INHABITED HOUSES i.e. HOLDINGS:- 9,372

RATEABLE VALUE: -....£169,344.

EXTRACTS PROM VITAL STATISTICS .-

737.11	ARCIO FROM VIIAL STATISTICS		Ag	ainst	
11	Birth Rate per 1,000 population Death " " " Infant Mortality Rate per 1,000 Live Births	23.8 12.7 64.7		1945 12.0 61.8	+++
"	Neo-Natal Mortality Rate per 1,000 Live Births (dying in four weeks).	22.9		22.8	
"	Still Birth Rats per 1,000 Live & Still Births	23.7		20.7	+
"	Tuberculosis Death Rate (per 1000 population)	1.2		0.78	+
11	Maternal Mortality	Nil.		3.1	-

INFECTIOUS DISEASES.	FATALITY RATE.	CASE MORTALITY.
Diphtheria	.03 per 1,000	1.9
Pnoumonia	population41 per 1,000 population.	22.4

Number of Births (Live)	1943	1944	1945	1946
	604	719	627	741
	403	377	367	395
No. of Births in excess of Deaths.	201	342	260	346

The principle causes of Infant Deaths were as follows:-

Pneumonia	7
Bronchitis	9
Convulsions	3
Prematurity	9
Bowel	1
Tubercular Meningitis	2
Acute Gastric Enteritis	4
Congenital	4
Kidney(Uraemia)	1
Marasmus	1
Multiple Fostal Deformities	1
Haart	1
Brain	4
Spina bifida	1
	-

Neo-Natal Deaths (Infants who also within 4 weeks included in the 48)= 17.

The Principle causes of Death (of all ages) were as follows :-

Heart & Circulatory Brain Disease Lung " Kidney Bowel Operation	Males 79 21 11 4 3	Females 59 37 6 6 1	Tetal 136 58 17 10 4	Against 1945 + + + + + + + + + + + + + + + + + + +
Zymotic Diseases. (a) Diphtheria 1) (b) Pneumonia 13)	9	5	14	

The principle causes of Death (of all ages) were as follows:-(continued)

Zynctic Diseases(continuea)	Male	Fonale	Tetal	Against 1945
Acute Enteritis Cancer	3 32	2 27	5 59	+
Victance (a) Suicide 2) (b) Read Accidents 1) (c) Other Causes 7)	10	to Labourday)	10	
Tuberculesis. Respiratory Non-Respiratory Senility Influenza Prematurity Malignant growth Other causes	22 5 5 7 4	11 6 1 2	33 5 11 1 9 4	+ +
	Totals 224	171	395	# TO THE TOTAL PROPERTY OF THE PARTY OF THE

193 of all deaths were in persons 65 years and over = 48% 48 " " among infants under 1 year = 12%

CATCER DEATHS 1946 - Situation of Disease.

		11.50	-	-						
	0.00	Under					Over	asou!	B Ist	
SIT	E .	36		to		to	75		N H	
	B. B. C.	years	45	55	65	75	years	Males	Females	Total
Buccal)		Carle III	la la						the state of	
Cavity) Fa		-	-	-	-	2	-	1	1	2
(.	Rectum	-	-	-	1	4	1	4	2	2 6
Digestive (Strmach&Duoaenum		2	-	4	4	2	9	2 3	12
	Orlen& Calcum	-	-	2	3	4	-	5	4	
	Pancreas		-	-	3 1 2	li	-	2	Research .	9 2 5
	Liver		-	1	2	2	2000	2	3	5
102 /		7		-	1 ~	-	OR OTH	~		
Respiratory	(Lung		1	1	-	2	- 124	2	2	A
System	(Brenchi		2	2	1	13	1	5	-	5
Cy C Com	(DI CHOIL			6	1 -	1	1	0		0
Ganite-	(Bladaer			-	-	1	1	1	1	0
	(Utorus			2	1	i	2	-	1 6	2 6
System.	(000108	WILDO I	1	~	1	1	-	ALECOG	0	0
Dy o com	4.00 23 4 50 4 6						- 300			
Other	(Breast		ME	1	23	1	1	1004	The land	
			2	1	-	1	1	-	3	3
Organs	(Carvical Glancs	LELES .	0.70	7	100	450	-	1	1	2
	(Periteneum	01.	-	1	-	-	-	-	1	1
	0 0 1		-	-	1.0		1	-	1 - S - S - S - S	
	Totals		5	10	13	23	ь	32	27	59

Laboratory Facilities.

Arrangements continue as in previous years.

Bactericlogical (County Council Laboratory, Newburn).

A. Pathological. (1) Throat, Mose and Ear Swabs.

990 P					Totals.
Corynabacterius	n Diphtheria:	Present	57		
L USOL	11	net feund	641		698
Virulent G	II II	present	19		
" "	Left I Han	nct fcuna	9		
" "	u	incrnclusive	9 1	-	29

Throat, Nose and Ear Swabs (centinued	7.	CHILL D. S.	Totals.
Haemolytic Streptococci	present	7	10000101
Winner of the Control	not found	17	- 24
Vincents	present	1	1
(2) Sputum.			
B. Muberculosis	present	59	
" "	net found	189	
" " insufficien	doubtful	1 2 2	- 251
instittien	o material	BOOM	20.1
(3) Plaural Fluid(Tuberculesis)	not found	1	- 1
(4) Blccd (Widal)	no reaction	1	
B. para typhosus	B. present	1	2
	2. 52.00		Vellion
(5) Faeces (Pathogenic)			
B. para typhosus	isolatea	1	The state of the s
No pathogenic organisms found			- 6
(6) Urine (Organisms),			
Growth of B ooli & Slaphyloco	cci	1	- 1
(7) Tests re B.aiphtheria on specimen	a of		
Lemonade, Ice cream and used aring			
	not found	3	- 3
B. Milk, Water Etc. (1) Water Samples (Various sources)			10
(1) water Samples (various sources)		1	42
(2) Milk Samples			
(a) For B. Tuberculosis	G Kebnu	126	
" " (Samples not		10	
through lack	clusive	18	
- Animals died		2	- 146
(b) For Methylene Blue		100	
(c) Pasteurisea Milk (Methylene B	lue Test)	67	
(d) Phosphatase Test	-	23	
(a) Sterility (Milk Bottles)		8	- 201
Composite Bulk Samples.			
(a) Methylene Blue		3	- 3

General Provision of Health Services.

Blyth and District Jursing Association.

a perfect of the state of the s	Cases.	B.B.A.	Unavoi	dable.	
Nurse Storey	61	10	8		
" Lough	49	6	6		
" Alliscn	40	- 6	4307 6		
" Manzias	28	3	2		
	178	25	22		
			Blyth	- DOW	2. Dahadaa
Number of Mursess.			7	Daraka	1 Babsica
	y Casas (with acctors	1	113	31	3
Mumosi el mae sinte	y casss (with accounts	1		35	32
	y Cases by Mianives '		262		
" Meaical			160	41	
" " Surgical			158	53	40
" " Chronic (Class		76	BUTGIL	3
	Tot	al Cases.	76	161	89
Anta-Natal Visits	including three seen	at Clinic	4148	424	294
Post-Natal "	- ardew		248	69	156
Visits to Maternity	v Casas		5599	1286	61
" " Surgical			1496	000	446
" Chronic (4035	48	413
			1639		217
" Medical (THE RESERVE AND ADDRESS OF THE PARTY OF THE	796	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, T
	Tot	al Visits	17,100	3511	1591
		_			

CAICER RESEARCH. • is forging ahead. There are many agents around usand many physical and chemical in industry - which are capable of causaing cancer new growths (such agencies are termed carcenogenic). Even our sunlight is such an agent and the reason why we are not affected by it is that it's action (as with most such agents) is weak. Other factors are necessary to produce the Meoplasm. Experiments (by Bitther have shown that newborn mice taken from the mother mice of strains very liable to cancer, when suckled by females of strains not liable to cancer, are rendered upon mice of strains not having the liabileity. Most evidence points a Virus as a cause out that ordinarily it is harmless and only causes the growth by some other sellular condition (ageing, injury, etc.,). Further it has now heen proved that they are not independent growths since prostatic cancers can disappear after removal of the testicles. This opens a new field of research.

CAUCER. starts as a small local lesion which if recognised early can be cut out, and thus get a permanent cure. This local lesion does not increase the liability for cancer to bleak out anywhere else on the body of the person.

A UAL RETURES FOR FIVE YEARS OF OTIFIED CASES OF I FECTIOUS DISLASES.

		MALON		-	Jan King								-			-
YEAR	Scarlet Fever	Diohoheria.	Erysipelas	Pneumonia	Puero ral Pyrexia	Oerebro. Soinal Fever	Dysentery	Oph. Meonatorum	Tuberculosis Pul.	Tuberculosis.Other.	Whocoing Cough	Measles	Malaria	Para. Typhoid Weyer	Poli-Myelitis	
1942 1943 1944 1945 1946	65 123 116 69 44	145 98 116 106 51	7 13 12 6 13	55 39 35 58	46352	31193	1 4 2 10 1	5 2 Nil 3 11	36 57 57 56 55	8 17 8 7	79 90 156 79 67	912. 80. 723 87 641	1 2	111	-	-

DIPHTHERIA

YEAR	CASES	DEATHS.	REMARKS.
1941	300	20	Nct Immunised. """ """ One Immunised (Dec. 1942). Nct Immunised.
1942	145	5	
1943	98	3	
1944	116	6	
1945	108	3	
1946	51	1	

DIPHTHERIA IMMUNISATION PER YEAR

	266 266 266 266 266 266 266 266 266 266	Year	
3973	111 101 101 101 101 101 101 101 101 101	Under 5	
	Estimated. population not known. 3.4% 24.0% 29.0% 17.4% 17.4%	of ohi	
3588	135 2055 415 2055 1905 626 626 626 626 626 626 626 626 626 62	5 - 15 years	
	Estimated population not known. 18.0% 18.5% 13.0% 1.7% 1.1%	% of child population	
7561	246 Estimated 135 population 516 not known 292 3.8% 1543 20.2% 1632 22.2% 1632 27.3% 1632 17.3% 581 7.1% 581 7.1% 587 7.0%	% of Total Child	
587	No record " " " 267 117 59 59 50 25	Cases of Diphtheria not immunised.	
231	#0 record 28 28 47 47 26	Cases of Diphtheria after immunisation.	

Immunisation in relation to Child Population.

Number of children who had completed a full course of Immunisation at any time up to 31st. December, 1946.

	-	
Estimated Mid- year Population 1946.	Mumber immunised	Age at 31.12.46 i.e.born in year
Age group 0 - 4(inclusive)		Under 1.
2,880	322	1945
4(inc)	488	1944
usive	443	1943
	405	1942
Age group 5	405 2,338	1945 1944 1943 1942 5 to 9 1945 1944 1943 1942 1937-1941
5,270 (inclusive)	2,287	1932 to1936.
ive).	6,283	rotal under 15.
-		

DIPHTHERIA IMMUNISACION. YEAR ENDED 31st. DECEMBER, 1946.

Total number of children immunised at end of previous year.

Add:

Immunised at Clinic " by Private Doctor or by adjoining authorities. Immunised away and moved into Blyth.

Deduct:

Children now 5 years old Total at end of year

Children completely re-immunised during the year.

·			Autoritation of the second
Under 5 years		5 -15 years.	Total.
1591		4553	
422		45	
83		17	
2096	Add: Children	4615	6711
	now 5yrs.old Deduct:	<u>438</u> <u>5053</u>	
438 1658	Those over 15 yrs.	428 4625	6283
23		59	82

SUMMARY OF DIPHTHERIA AMONG THE IMMUNISED IN 1946.

Period Elapsed.	No. of Cases.
Up to 6 months 6 months to 1 year 1 year to 2 years 2 year to 3 years 3 " " 4 " 4 " " 5 " 5 " " 6 " 10 " " 11 " No record of date of immunisation;	1 2) 21 with over 5) 2 - 5 years 10) from date of 4) imminisation 2
Potal	26

Table Recording The Age-Groups Of Cases Of Diphtheria During 1946.

Age-Groups.	No. of Cases.	No. of Deaths.	Fatality Rate.
0-1 years	BEACH - STANKING		
1-2 "			I had and the of
1-2 " 2-3 " 3-4 " 4-5 "	I - a - a salas a salas		and the second bearing
3-4 "	The second section		BOTTO BELLEVIS BELLEV
4-5 "	3	BEEN CHENCE - CONT. P.	3 008 01 20 0
5-10 "	19	1	5.3
10-15 "	9	the difference of the party	Sall Kith Colors
0vor. 15	20		
Totals	51	1	1.98

The state of the s	Treated in hospital.	Traated at	Total.
Diphtheria Cases	49	2	, 51
Convalescent Carriers VT+	3		3
Healthy Carriers VT+	9		9

The public cannot be too much enli htened about the disease Tuberculosis which causes so much morbidity and mortality and one which specially affects the your and adolscent life. It is a disease which these the are adequately fed with the correct diets, who are properly housed, and who live a Hygenic life can escape it. (This statement can apply to cattle - 40% of which are affected and potential transmitters of the aise se). If then some can escape it thus, there must be some body conditions which make them gresist the aise ase. This resistance is what is me at by the medical term immunity applied to such cases, and it is a better term to use. can divide resistance into natural and acquired resistance. By natural resistance we must me in that the body has encu h inherent powers to be able when the tubercle germ first enters it either to kill it or prevent its rowth. Acquired resistance may result from a primary infection stimulating the cells which form quick inherent robustess so that they are able to produce something to kill or influence its developement. This might either, be the formation of an anticody or the walling-in of the appressive bacilli. Thus acquired resistance may kill off a secondary infection. On this last some lines of treatment have been based to produce or activate resistance. By this it is pasible for people with high resistance to acquire a further resistance either from a primary infection or by the crude method of a vaccine. What of these who have not the hi h resist mee ner can't be estimated? There are among both animals and races a natural resistance in various parts of the acrid; and on the other hand races highly susceptible with tracic results. It has to be remembered that possibly a hi h natural resistance may be broken down either by lack of nourishment (starvation), intercurrent disease, depression, or by mussive infection by hi hly virulent strains of the bacilli. The body will respond to this second (or later dose) of antigen - here the Tuberole Bacillus or some product from it - and the difference from this response from that of its' first acquaintance (or primary infection) is spoken of as Allergy or hypersensitive, and may be part of resistance. (There is evidence that in certain areas of Britain the incidence of Tuberculosis in cattle is low and so it may be possible to inbreed with cattle of high resistance).

The attempts made to produce (i.e. induce) immunity to control Tuberculosis have been by (1) the use of living organisms of an attenuated bacillus (e.g. the B.C.G. Vaccine) or by using a type of the Bacillus which, though assauly to its' usual host, is of little si mificance when used on another animal, as in the case of avian tubercle used to immunise cuttle, (2) using dead products of inactivated suspensions of Tubercle Bacilli. As referred to above it has been thought that the bighest resistance could be brown by about by the continued. that the highest resistance could be brought about, by the continued existence in the body of the living organisms, and so it was concluded that the vaccine which would ac acst soca was one which, though it was innocucus, still had a long period of existance in the body. It as thought that cily suspensions of the becilli mi ht allow a prolon ed immunity but the experiments showed that this aid not happen as the cils killed the bacilli, and in others the pacific were encapsuled so immunity could not take place; in other animals some bacilli escaped from the sites and were found in the nearest glands. Experiments by the single cose of B.C.G. living vaccine showed the protection wanes so thattre-vaccination has to be at frequent intervals. Experiments on animals with dead tubercle bacilli (killed by heat, formol, glycerol esse,, ald not give repair its isomice, required martiple injections of small doses and frequently gave local scres - thus this was not valuable. It may be safe to say that we will not by present methods alter the course of infection or auration of immunity, merely by vaccination to produce assensitisation. We cannot as a practical proportion desensitise a whole community. On the other hand we have very definite evidence that diets containing first-class proteins maises the resistance both of contacts and the afflicted. The lack in the diet of inmates of Mental Hospitals with an increase of Tuberculosis among them is also circumstantial evidence of this first statement. The use of B.C.G. Vaccine in foreign countries gave encouraging results and is being experimented with in this country. Experiments in animals show it is a sier to produce infection by inhalation than by the intestinal

tract which may point to dos as being important. There can be no doubt about infection being conveyed in a house with a case of active tuberculosis expiring the bacilli into the air of a room. Abroad Tuberculosis can be a house disease, as I have proved, and the same holds good anywhere there is no segretation of the patient and adequate ventilation. All rooms which such a patient has vacated, or where a case died, demands proper disinfection. Personally I would like to see it was made compulsory also to plaster or re-paper. Will that come later under the new Health Service?

TUBERCULGIS.

Increase in tuberculosis in this country:

	1939	1940	1941	1942	1943	1944.
Notifications	25,355	26,260	28,966	29,560	30,121	30,044
Not notified before death but died of Tuberculosis.	2,901	3,395	4,383	3,971	3,780	3,468
Blyth: Motifications Deaths	62 31	49 30	57 20	48 31	65 20	74 30
Blyth: Notifications Deaths	1945 • 64 26	1946. 63 38	and a los	49.0014	Licia Los	le la

TUBERCULOSIS - 1944-1946.									
	Motifications. Deaths.								
	Males.	Female		Male	The second secon	Females.			
1944. Totals	Pul. Non-Pul	.Pul.	Non-Pul	.Pul.	Non-Pul.	Pul.	Non-Pul.		
Totals	28 12	29	5	16*	2	10	2		
"	40		34		18		12		
Grand Totals		74			30				
	* - Includes	Non-no	tified I	.B. C	ases = 2	Death	8,		
1945 Totals	35 4	21	4	10	2	10*	2*		
11	79	- 2	25		12		12		
Grand Totals		64		2/.					
	- Includes	Non-not	tified T	.B. C	ases = 4	Death	8.		
The same of the sa	A SHEET WAR	Land March Con							
1946 Totals	40 15	1 5	2	55	11	5*	Wil		
"	55		7		33		5		
Grand Totals		Samuel .	38						
	* - Includes	Non-no	lifed T.	B. cas	303 = 2 D	eaths			

Tuberculosis 1938 - 1946.

Year	All forms of Puberculosis notifications per year.	Number of Deaths.per year.	Death Rate per 1,000 population.
1938	48	25	0.7
1939	62	31	1.0
1940	49	30	1.1
1941	57	20	0.6
1942	48	31	0.9
1943	65	20	0.6
1944	74	30	0.9
1945	64	24	0.7
1946	62	38	1.2

TUB RCULOSIS.

Statement of Tuberculosis Cases - 1946 (As per Register).

		Males	COMPANDA DE SERVICIO DE SERVICIO	Fe	males	0220020
		Pul.	Non- Pul.	Pul	Non- Pul.	Total.
(a)	Number of cases of Tuberculosis on Register at commencement of	112	25	96	21	254
(b)	Number of new cases notified	olvie	a distant	CONT NO	rial ocean	Liter u
	under the "Regulations of 1930" for the first time during the	40	5	15	2	62
(c)	Number of cases restored to	ofile	ni sis	Lucue		Igoreans
121	Register having been removed previous to 1936.	3	Tene			3
(a)	Number of cases added to Regist ter and brought to notice other-		e • . as	2	nieds.	3
(e)	Wise than by formal notification Number of cases removed from the		5	25	d bolt	59
(f)	Register during the year. Number of cases remaining on the	6,6	100,1		22	263
	Register at the end of the year	128	25	88	20	200

TUB &CULOSIS - 1946

Summary of information extracted from Records Dept., relating to cases removed from the Tuberculosis Register of the Borough, during 1946.

		Death	18.		193761
	Pulmo	nary	Non-Pulmo	onary	Grana Total.
10000	Malas	Famales	Males	Females.	
The state of the s	22	11	5	Mil.	- LIAP
Total	33	LI SALVE L	5		38
SI	3	Hacovara	2	Hil.	
Total	10)	2		12
	2	Removed f	rom Distri	ot.	
Total	9		Nil		9
					59

TUB RCUIOSIS - 1946.

				Q.	gaa			Denti	15.	
Age		Pul	monary		Jon-Pu	lmonary	Pulm	onary	Non-Pu.	lmonary
Groups		Malas	Famal	lan	Males	Famalas	Malas	Females	Malas	Famales
0-1 1-5 5-15		1	2		2 2	1	i	2	2x	=
15 - 25 25 - 35 35 - 45	BE	7 8 8	3		Le Dos	TRUE TO	4 2	6 2 1	i	1
45-55 55-65 Orar 65		2 4	-			=	5 3		879	
Totals		40	15		5	2	22	11	5	Nil
Grana Totals		5	5			7	1	33		

x = Mon-notified as T.B. cases = 2 Deaths.

Ward distribution of notifications and Deaths.

mara are	er togeton of most	Tremerous min Demonie.	
	1 Wara	Notifications	Deaths.
	Bebside	1	5
	Croft	13	9
	Delaval	6	4
	Plessey	19	4
	Rialey	10	9
	Waterloo	13	7
		62	38

There is a tendency to centralisation and regionalisation. Foo much centralisation will lessen the necessity of some smaller authorities and it will take away that personal contact between the local authority, its officials and the people. Regionalisation as we knew of it during the war with semi-dictatorships must not exist, but form an economical point of view is probably justified. The hope of smaller localities lies either in combining with each other to form a definite unit or in having certain of the existing Health Services threatened to be taken away from them, to be delegated to them by the County Council.

What services will the future Medical Officer of Health have? He will have (1) Control of infectious diseases (2) Environmental Hygiene (3) Control of Sanitary departments (4) Supervision of food-stuffs (5) Health Education (6) More direct interest in Housing (7) Soeial Medicine (8) Epidemiology (9) Concern of the aged and infirm (10) Child guidanee, the potential mother and family problems (11) Smoke pollution (12) Enquiries into all factors leading to malnutrition and ill-health and prevention of all disease (13) Water supply (14) Nurseries for toddlers (15) Rat infestion control (16) Scables.

There seems little doubt there will be less attraction to some doctors to become Medical Officers of Health, and besides we are now to have two classes of such in the future. The executive Medical Officer of Health will have all the statutory duties to perform, and the lower grade of officer not necessarily having a D.P.H. qualification but a certificate on Public Health who will look after the school Health Services, Child welfare, and domiciliary disability outlined in Part 3 of the National Health Service Act. This fission of services is to be based on "major" and "lesser authority established by the Local Government Act of 1888. Thus you can get a larger area of country becoming a "major" authority, whilst a congested urban area of even 3/4th. the population of the former becoming a "minor" authority. A county may exercise its powers under Section 103 of the 1888 Act, and if not the number of Medical Officers of Health will dwindle, and it is likely the number of local authorities will be reduced. Unless there is a unified control of the staff that exist in the different sections of the Health Department by its executive Officer you will not get integration and that work essential to the Public weal. It is possible for adjacent local authorities under the local Government Act of 1933 to form a joint Health Committee and this may safeguard some of the services to them.

The Education Act of 1944 has given us the age of two years from when the local Education authority will be responsible for the Physical and Mental disabilities of the child. The Act also permits medical and preventive treatment (but not domicilary treatment). Are the Child Welfare and School Medical Services going to be one unit? If so then the Maternity section will probably be separate. I look upon the Act as a great step in the right direction, but centralisation must be limited. Local authorities are now called upon to elect a special Health Committee on which local residents outside the members should be nominated to consider the requirements of the Act. Personally I should like to see each local authority control its own Ante-Natal Services and these might be asked to be so delegated. Any hospital administered by a Port Health Authority will be transferred to the State on 1st. January, 1948

FOOD AND THE MINER.

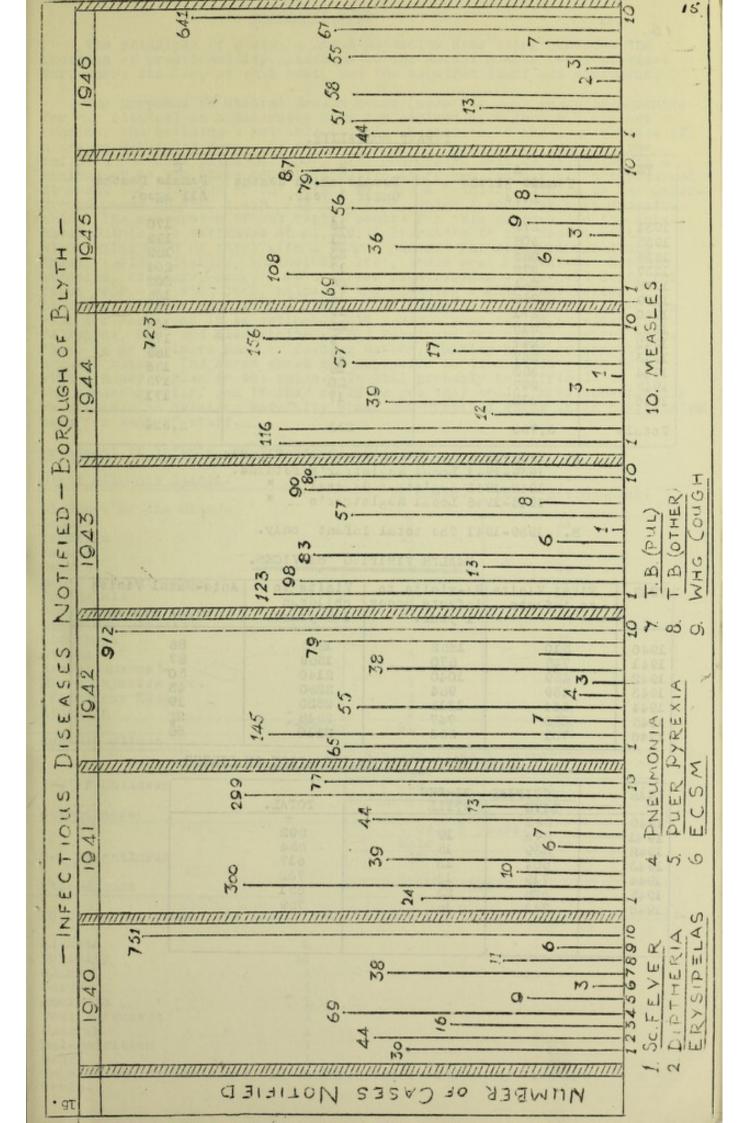
At present coal production is a priority subject. It is a fact that heavy muscular work utilises more energy and so requires extra calories of food intake. Experiments in Germany (by Kraut Muller) on a group of 31 miners during training who had 2,800 calories (1,200 as work calories) gave a daily output of 7 tons of coal per man (thus each ton equalled about 170 calories). But when given 400 extra calories a day and they increased their output to 9.6 tons per day (expending only 155 per ton) they lost in six weeks an average of 1.2kg (1kg = 2.2lb) of body weight. A further 400 calories per day showed indreased output to 10 tons per day with body weight regained.

IMPECTIOUS DISEASES NOTIFIED AND AGE DISTRIBUTION.

Number of Cases of Infectious Diseases originally notified during the year 1946 and of the Final numbers according to Age and Sex, after corrections subsequaetly made either by the Notifying Medical Practioner or by the Medical Superintendent of the Infectious Diseases Hospital.

			The second second	The second secon	- Barry 1996 - 1991		1				
N.K Age Unknown.	Scarlet Fever	Diphtheria	Whooping Measles Cough Ex.	Acute Pneumonia	Dysen- In	Trys- Puer- ipelas peral	2	E.C.S.M. Acute Polio-	2	Mal- F	Para- Typhoid.
	H H	N E N	中二二年	五 五	五 五 五	bg	H	日田田	H H	以可	H H
Civilians (All Ages)	26 18	32 36	31 339 303	34 24	11	7	-osal Ilsa	3 -	1	11	1 1
Grand Totals	44 .	50+4 N.C. 67	642	58	1	13	2	3	1 1	2+111.C	1
Final Numbers After correction 0 - 1 -		11		19	11 200	1 1	C Pullson	A GOOT	sting the	led cop	11
Civilians 10 - 15 - 25 - 45 - 65 and over	MONTH!!	1133360	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10181201	1111111	11101010	11PPIII	1111111	111111	1111111	1111111
Total Civilians Grand Totals	25 18 43	17 28 36 45 67	31 338 303	34 24 58	1 - 6	13 7	NO	22 1	1 -	2 1	
Mon- Odvilians (15 (or N.K.)	Enst	0	Hoals os 3 o os 404 in os ono 404 int Go	to ndi tw ndi tw nd og ni t no :	10 000 0 201 0 201 0	the Action to	d pur	auola	iso OO	I box	
lian	THE PROPERTY OF	2				200	4		10000	1	

The difference in the total cases notified and final number after correction, is shown as follows:-Diphtheria (6 cases - civilians)5 re-diagnosed as Tonsillitis and 1 as Scarlet Fever. Diphtheria (2 Non-civilians) 1 rediagnosed as Tonsillitis and 1 notified as non-civilian.oase.ndw included as a civilian. Scarlet Fever (2 cases) 1 re-diagnosed as Chicken Pox and 1 notified in error. E.C.S.M. (1 case) notified in error. Measles (1 case) duplication of notification.



INFANT MORTALITY.

YEAR	A Female Births Live	B Female chila deaths unaer 1 year.	C Female Deaths All ages.
1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945	275 308 286 272 254 258 271 216 247 267 353 297 372	16 21 23 17 20 14 19 22 9 17 18 20 17	170 199 189 204 202 165 171 166 171 185 156 175
Totals	3,736	233	2,324

A. 1934-1956 Registrar General's figures. 1939-1941 Local Registrar's returns. 1942-1943 Registrar General's " 1944-1946 Local Registrar's "

B. 1939-1941 The total Infant only.

HEALTH VISITIUG SERVICES.

YEAR.	First Visits to infants	Re-visits to infants under 1 year.	Visits to children 1-5 years.	Ante-Natal Visits First Visits
1940 1941 1942 1943 1944 1945	510 745 459 469 664 653 731	1652 870 1040 984 1318 747 556	1825 1689 2140 2280 2620 2548 2110	88 67 50 43 19 22 68

NOTIFICATIO I AND REGISTRATION OF BIRTHS

YEAR	NOTIFIE	BIRTHS	17 8
	LIVE	STILL	TOTAL.
1940	552		
19 41	573	19	592
1942	539	15	554
1943	604	13	617
1944	719	13	732
1945	628	23	651
1946	741	23	759
10 10	The state of the s	RESTAURANT OF THE	an gatter and the same of the
	- 0		

The principle of having a local Maternity Home being conceded the question of practicability arises as to the actual number to be provided for, where located, at what cost, and the required staff and equipment.

The proposal to utilise Boulah House (used for many years as a centre for our clinics) as a Maternity Home was decided upon though I did not consider the building a suitable one for adaptation to the requirements of a modern Maternity Home. It required a great expenditure added to the inflated purchase price (£2,000). The conversion cost is estimated at a minimum of £3,380 (less £600 if domestic staff and laundry are not required). It meant the transfer of the Infant Welfare & Toddlers Clinics to the underground rooms of the A.R.P. report centre, which I consider most undesirable. The conversion of the report centre for this purpose and the Ante-Natal Clinic, is estimated at £2,150, (alteration to the report centre alone being £600 of this) with a storey added. The required furniture (beds, tables, lockers, basinettes, etc), would cost £645-17-0. Kitchen utensils, crockery, etc., - £45; Nurses requirements - £19-2-0; Staff for first year - £1,630; Cock, helpers, and cleaning - £312; Mattresses, Blankets, Pillows and linen - £137; Maintenance of patients - £11-5-0 per year for each (and it is estimated 216 cases a year may be provided for); Telephone, Gas, and Electricity - £75; Furniture for centre control -£30. There is no estimate made of feeding Matron, Mursing Staff or domestics nor for rates. The above shows how expensive an item it is going to be with a heavy burden to the rates. It will probably be difficult to get the necessary staff and if they could be got they could more economically be utilised at existing Maternity Homes and Hospital wards which have empty beds for want of staff.

Treatment of Infants and Pre-School Children.

Minor Ailments Clinic.	No. of Casas.	Total Attenuances.
Diseases of the Skin:-	01 030001	10000
Scabios	5	14
Impetigo	17	56
Eczema	2	21
Others	22	46
Minor Eye Defects:-		
Ophthalmia	5	86
Conjunctivitis	15	81
Minor Ear Defects:-	US I SISLY SANTE	30
Otorrhoea	3	18
Others Miscellaneous:-	3	17
Miner Injuries etc.	7	17
Verminous Heads	AA JUEAT	1 2
Ringworm	2	10
	Totals 82	372

Sun-Ray Clinie Between 1 and 5 years. Male Fomale. 17 No. of Chilaren 19 5 25 Attendances Over 5 years. Male Female No. of Children 12 13 346 Attendances

26 children, under five years, were treated for the following complaints :-

Ricksts	2
Debility	14
Glands	1
Coryza	4
Anorexia	1
Post Pertusses	1
Catarrh	1
Mal-nutrition	1
Heart	1

In addition to the above, 10 children received Sun-Ray Treatment as a

Tonic.

18.
19 Children over 5 years were treated for the following complaints:

Brenchitis	2
Debility	10
Coryza	2
Conjunctivitis	2
Alepseia	2
Heart	1

6 other children received gun-Ray treatment as a Tonic.

Dental Clinic.	dro antinos :	o carater sur	tel for the	Cidenti Seri Series							
Children under 5	years	Extrac 67		Nr. of Casas. 27							
Ophthalmic Clin	le.	TOTAL COME	TOTAL COLDS	TO WATER DATE OF THE SAME							
Number of Hem pa " " old Spectacles preso " not											
Threat, Nose and Eur Clinic.											
Operations for 1	emoval of Ton	sils and Aden	cias 2								
Orthopaedic Defe		paedic defect	8 2								
Maternity & Chil Home Visiting by											
First visit after Number of re-vis " "women Visits to chilar	Visits to Infants under 1 year:- First visit after notification 731 Number of re-visits 556 " "women visited who had "still-births" 15 - 1305 Visits to children 1 - 5 years 2110										
Miscellaneous Vi	sits.	Spiner delan		ALGENTA DE LA COMPANIO							
Puerperal Diseas		rst Visits	Re-visits	Total.							
Infant Welfare (LE A.		+ode nelspitel gade							
Mr. of Sessions	First Attangances 0-1 year	Re-attendance	Attendar	THE RESERVE OF THE PARTY OF THE							
102	402	3,530	55	332							
	TA	BLE B.		aexalido 27 ac							
Total No. cf Attendances	Average Mc. Attendances	of Avara	s Sessions.	assummer!							
3,862	37.88	Lell	7.9	samplies to							
Total Number of	chilaren unae	r 5 years who	attended th	e Clinic:- 542							

Total Pre-School children seen in 1946 by the Medical Officer of Health At Totalers Clinic 116

" Baby " 615
" Immunisation completed 540

Immunisation completed 540
Total 1,271

The total quantity of milk supplied by the Council at the Clinic to young children was 5,462 lbs. of Dried Milk.

The following conditions were noted among infants under 1 year of age.

Congenital Malformations:-

41

15

1

Congetial Heart Phimosis Umbilical Hernia Marasmus

							19.
		ng comaitions			ng infa	nts under 1 y (con	ear of age: tinuea)
	Congenital 1 Falipes	Malformations:	(conti	inusa)	1		
	Taphritis				1 4		
	Pinks Discus				4		
	Meningitis				1		
	Discusse of Feeding Dyst	the Digastive	Syst.	:	14		
	Venitting ar	na Di wrhrea			6		
	Constipation	1			14		
	Distant of	the Respirate	гу Ѕуѕ	stam:-			
	Brenchitis .	and Brenchlai	Catari	rh	14		
	Discuses of Infantile do				5		
	Impati_c	C A GILLA			5		
	Dermatitis				20		
	Other Scras				20		
	Disagras of Conjunctivi				13		
	Blapharitis				3		
	Ophthalmia Squint				3		
		the Throat, In	e3 20/	2 m '-			
	Oterrhesa	ons Parent, at	85 3410	1 17 17	7		
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	ages of 2 a		,			-10 01	
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1	10	11.6		116		116	A LOSE
	At these Se	ssions, the fo	TTOAT	no conuit	icas "e	re found:-	
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	Diesass of	the Respirace	ry Pr	orti-			
	Brenchitis	and Brenchial.			7		
	Dental Def	" Nasal			5 4		
	Disaasas of						
	Scabies				1		
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	Squint				1		
	Enlarged Ic	the Threat, I	rius	na sar	2		
	Otorrhosa Carvio al Gl	mag			1 2		
	Other Dissa						
	Pas Planus Ganu Valgum				7 3		
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	De of Mute				1		

Vitamin Product Schama:-

The above scheme was still in operation ouring 1946, at the following Centres:-

Anta+Natal Clinic,

Baulah House

Municipal

Babsida Sanier School

Jawsham Junior

Seaton Sluice (Sessions hela fortnightly

Attendances reached the following figures for 1946:-

Anta-Matal Clinic	Municipal Clinic	Babslaa	Hawsham	Seaton Sluice
1,845	499	172	994	131

Much of the Vitamin Product is now issued at the Food Office.

Chila Life Protection.
Under Section 206/220, Fublic Health Act, 1936, four (4) persons were receiving four (4) children for reward at the end of the year. The Health Visitors reported that the children were well cared for in satisfactory homes.

Infactious Diseases in Children under 5 years of age:-

Disease	No. of gases notified	Against 1945.
Diphtheria Scarlet Fever	3	· Jall
Measles	335	9 19 PT 15 + 31 CP 15
Wheepin : Cough	48	- 14576333
Pneumonia	15	+
Tuberculosis (Pul.) (Non-Pul.)	4	+
Total	420	

Health Visitors paid visits to 344 cases of Infectious Diseases.

Maternity Services.

Munber of patients who were confined in Maternity Hospitals, during 1946, were as follows :-

Hospital		0.0	Fraa	Assista	Paia own Fees	Total
Dilston Hall Ma	ternity	Hosp.	53	62	econs and asking	115
Preston Road	T#	11	12	20	4	36
Princess Mary	11		2	27	- LL L	29
Mona Taylor	TF	11	7	27	15	49
Willington Quay		Of .	1	-11	18	19
Ravensbourne	TF	"	-	-	7	7
Grosvanor		14	-		11	11
The Gables	H	U U	-	-	2	2
The Priory	11	п	-	-	1	1
Others	FF.		-	-	2	2
	rotal Percent		75	136	60	271

Maternity Outfits.

Bags were loaned out 6 times during the year.

Puerperal Pyrexia. Total cases notified

Crhthalmia Neonatorum Total cases notified

Nil.

Dental Treatment.

No. of	Extractions	Local	Dentures		
Mothers		Anassthatics	Supplied		
62	301	All	7		

HEALTH VISITORS' REPORTS ON CONFINEMENTS, INFANTS BORN, ETC.

21.

															200
Actual: 741	TOTALS.	Dec.	NOA.		Oct.	Sept.	Aug.	July	June	Мау	April	Mar.	Heb.	Jan.	Month.
1: 741	731	57	69		65	75	68	51	61	87	60	50	46	42	No. Con- fined.
373	371	31	X	T VI	岩	37	74	23	25	1	4	28	21	26	H.
368	360	26	35		31	38	水	28	36	43	26	22	25	16	Sex F.
	126	4	O	1.00	9	13	. 14	13	12	00	13	72	13	7	Over-crowded
7	427	23	42		45	49	41	33	36	51	33	222	29	23	Wholly Breast- Fed.
707 774 64 16 767	234	9	24		17	21	19	. 14	19	30	25	23	16	17	Artific- ial or Combined.
מווחתפ דסת	tt	1	1		1	1	(twins)	(twins)	1	1	, , , , , , , , , , , , , , , , , , ,	(twins)	1	1	Premature Deaths.
done	11	1	1		1(4days)	1(3	2(32	1(3days)	1(12	1-		1(3wks.)	1(24	1(2days)	Period
Phree Hea	16	N	1		1	1.	1	1,,	1	20	0,	1	1 4	. 1	Still- Birth.
by Three Health Visitors.	32	1	3		3	0	13	2	2	4	5	2	.0	4	Illegiti-
70	1	T	1		1	I	1	. 1	1	1	I	ı	1	1	Caesar- ean.
	703	54	59		93	49	56	64	63	. 89	40	65	19	52	Total Visits Paid.
	11.	1 Spine Bifide	1 Talipes	4000	(1 Janudice	1 Broken-arm.	1 Haemorrhage.	1 Jaundice	1 Jaundice						Te REMARKS.

703 Visits per annum done by Three Health Visitors, = 234 Visits per annum per Health Visitor - say 20 Visits per month per Health Visitor

NUTRITION.

There seems to be some doubts among some of the public of what constitutes malnutrition - (a departure from health) and to confuse a lowered weight-height ratio according to age as necessarily due to deficient feed. We should therefore be clear as to our definition of the term "nutrition". Lusk has defined nutrition as the "sum of the processes concerned with growth, maintenance, and repair of the living body as a whole or of its constituent parts. Consequently it is not only the actual focu taken but all the other processes by which the food is changed for the body's use for its building and repair of its tissues and for the naeded energy. Thus quantity and quality of food by themselves will not guarantee that the body will be well nourished. Fresh air, exercise, body and mental rest and absence of environmental factors and of organic disease are all allied to adequate nutrition. So far as food is concerned it may be adequate in quantity but lack quality or be deficient in vitamins or essential mineral content. Insufficient means to buy the proper quality plays a part in some cases of malnutrition. The term "nutrition" has been limited by Professor Catheart to the general state of well-being of a person who is physically and psychologically sound. Malnutrition refers to a state of the body which is not solely dependent on food intake. Mutrition dependent on the intake of food is expressed by the term alimentation. Alimentation, whilst essential, is one factor in nutrition. gir John Orr in his survey of alets found 50% of the population as having too low incomes to enable them to have food completely adequate for health, Orr defined perfect nutrition as "a state of health such that no improvement can be affected by a change of diet".

The crucial question the manical examiner has to ask himself after examination is whether the child is setting on as well as he or she should. Apart from aisease it is, a question whether growth and development are proceeding normally according to age. Mere inspection or measurement cannot determine all the factors which so to the "make-up of the child. Malnutrition is a problem of failing growth and development, and this does not depend merely on inadequate food but on other factors in which also environment influences (home tensions, lack of hygiene, etc.), take a part. Early recognition is necessary, but its signs may not be obvious till later. One or more physical defects may not justify its diagnosis. It may be that easily fatigued or scholastic failure may show well advanced malnutrition. "Putting on weight"/is only part of the problem what is fundamental is to find the cause of the lag in growth and development and rectify these. Malnutnition is not a matter of starvation simply but one of several interacting influences. Physique is more fixed and less sensitive to change than development and both these properties are specific to each child. A child will lost development more quickly than he will lose physique; a child developes normally about 100 times as much as he changes physique. This may be explained by a greater amount of metabolising in the "soft tissues" than in the physical components related to the less metabolic skelten. Each child has a standard of his cwn in development.

Weight and Height gains: The concept of underweight can do much harm. A child of only 5% underweight from the standards used might have gross malnutrition and could be missed as he escapes the usual 7 to 10% deficiency to grade him below normal. If he is underweight then the question is underweight to what? What is usually ucne is to relate his underweight to some arbitrarily chosen standard of averages as though every child should be exactly what that average happens to be. These weight curves cannot give information as to the physical condition of the child and no ingication as to whether the child's pysique has altered from the last time he was weighed. Some think that so long as a child continues to sain weight regularly there can be nothing serious about his growth. It would be a pity to entirely discard the red light of Weight for Height (not age) assessment.

Jutrition assessment: Height and weight is taken all over the country for aetermination of the nutritional state of chilaren. It is a false standard and the assessment must vary - and it does - at different parts of the country and in different counties, and is no doubt also partly due to the individual deciding the assessment. One cannot think that with so much strain, anxiety, loss of sleep, with some deficiency of food, and vitamins, and possible lessened exercise, that nutrition could remain normal. It can be abnormal without height-weight ratio being much upset. I have been assessing on 10% or more below weight for height when these are the main factors and this has the support of good authority,

(Nixon).

Joad considers there are 22% millions living on a diet below the minimum standard.

There are various methods of assessment and those by formulae, in my opinion, should not be supported.

Mal-nutrition: Some symptoms or signs: Thinness, wastage of muscles, Oedema, tiredness, loss of appetite, conjunctivitis, (thickened skin of ankles, backs of hands, elbows, knees); ary skin; petechial rashes. Diarrhoea from nicotinic acid deficiency. Armblyopia, skin lesions, tongue lesions, Neurological symptoms (rapid heart beats, abnormal tenden reflexes), Riboflaven deficiency (Angular stomatitis, etc.) Angumia.

It may even result from over usage with liquid paraffin interfering with vitamin B absorption or synthesis. Over usage of calciferol
(Vitamin D2) can produce from a mild state of anorexia (loss of appetite)
to serious symptoms (pallor, pains, stuper, interference with kidney
function, etc.). Mild toxic doses it has been found may result from even
a single dose of 15 m given to a child. A daily dose of over 15m is
considered as potentially dangerous. Thus self medication or over
dosage of Vitamins without advice can cause serious effects.

Imbalance of certain essential ingredients of foods can cause interference with sutrition. Thus carochydrates are essential to life and are distributed as glycogen which the liver requires for its function of destroying toxins; and carbohydrates and fat utilisation. Carbohydrates and fats are required for energy and if they are insufficient then some of the essential animo-acids formed from proteins, have to be used and so the necessary animo-acids will be deficient and so their requirements for growth being lessened will interfere with growth. Thus both carbohydrates and fats are sparers of proteins. Carbohydrates cannot be substituted for fat as they have not the essential fatty acids nor the fat soluble Vitamin D. Vitamin B is essential for the breakacks of earbohydrate and deficiency of it will interfere with the metabolism of earbohydrate and deficiency of it will interfere with the metabolism of earbohydrate and deficiency of it will interfere with the metabolism of earby tissue in the body. On the other hand the amount of Vitamin B can be reduced if there is ample fat. Calcium and phosphorous are complementary in action, and acids in the intestine convert calcium into more assimable forms and also eliminate free acids which further aid absorption of calcium. Again adequate Vitamin D and ascorbic acid are necessary for the retention of calcium and phosphorous, and these are necessary for bony growth.

POPULATION.

Only females between the ages of 20 and 40 are of reproductive value. The enemies to family life are (1) Contraception (2) extra-marital relations (3) some reasons for divorce (4) overcrowding.

Excess of births over agaths aces not indicate a continuing rise of the population. The high birth rates at the present are natural from the high birth rates after the 1914-16 War giving a higher marriagable market, and it also marks a lower agath rate and a higher proportion of the healthiest i.e. those in midals life. When the population contains a higher proportion of the classt ages then the agath rates will be higher. The first essentials of a population policy is to raise the standard of living and security with it. Quality can only be achieved from absarring from marriage the mentally defective and illegitimacy. This calls for a great education policy of the public. Part of the policy will have to be domestic help and nurseries for the care of children while a woman works or is ill. Some would substitute in place of family allowances a subsidy towards the (furnishing costs) and costs of food, etc. It is estimated that by 1950 the number of persons over 60 will be five millions and a new problem will then arise.

what does this torm connote? It includes all forms of Anti-Social behaviour. Thus it may be divided into (1) definite transgression of some definite law (indictable offence), (2) some mischevious behaviour, (breaking of fences, destruction of trees, braggartism learnt from film shows, etc.) (3) miscellaneous - neurotic traits, tantrums, saucational difficulties, etc.. Since there is definite evidence that most adult crimes have their crime in some maleajustment in chila-hood the early recognition and adjustment or treatment of them assumes Public Health importance. There is not one simple solution of this complex problem and the earlier the community tackle it the less the crimes and break up of homes.

The most important point in the solution of the problem is to work out practical schemes for the prevention of crimes of delinquency among the physically and mentally normal juveniles sho are to be found in (2) or (3) above. In the final year of school some Education for citizenship is essential in any scheme for prevention. The question has been left too much in the hands of Magistrates and with the Anti-Scientific bias too common among lawyers. There is undoubtedly a case for revision of the existing law.

(Children & Young Persons' Act, 1933). - This Act was born at a time when ill-fed neglected urchins were forced to commit crime in order to exist. The conditions of Public Hearth and welfare and Educational Acts have produced an entirely altered state of affairs. We have to deal more with the naw hity child than the oriminal one, and the child frustrated by home conditions. Yet by the Act this modern type of delinquent is treated as "not responsible for their actions", and so the treatment or gunishment becomes inausquate and should be more in the lines of reseaucation. If modern young offenders are hipped or fined or sent to an approved school for long periods, then it cannot be maintained that the present methods do treat them as being irresponsible. Will delinquency crime inorgase when the school age is raised and these older children get less in pocket money from parents than what they can earn now as message obys, iris, sto? There are closes of back ware molescents which adult occurts should not try, and should have the power to refer to Juvenile Courts for appropriate treatment, such as sending to an approved school, which only Juvenile Courts can do. In many closes the environment of an adult court is unsuitable for dealing with young adolscents, (17 - 21 years). The non-delinquent in "need of care of protection" owing to home conditions is treated in the same manner as delinquents, and being sent to a proved schools have to associate with the real delinquents which too often will do no good to them. Each case requires treatment according to all the circumstances and the particular flots of the individual. There is an underlying moral principle in dealing with such cases and if one has faith in such then there is a call for chan e of policy. Local authorities on help by a provision of ames, churches by Young Clubs; and local women by Girls! Clubs.

Thus under seven years of and a child is regarded as incapable of a Mens Rea or recognition of the guilty nature of his acts. Between seven and fourteen years a presumption of this recognition exists, but clear evidence is considered necessary to determine the degree of guilty knowledge before such a child can be convicted. Over the age of fourteen years he or she is deemed to have full knowledge and thereby to incur full criminal responsibility, (unless proved other size). At twenty-one years he or she is regarded as having attained full cognisance of his or her social relations, and so has conferred upon him or her full civil rights and legal responsibilities.

In maladjusted groups the following types of personalities may exist.

Compulsive type: These result from an over-hard father; fear from the whip or other punishment; or from the desire to please an over ambitious mother who over-estimates her son's capabilities. Thus the boy or irl becomes tense and anxious, and whilst anxious to achieve perfection are easily worried and react onally to failure and criticism.

Their original fear against their father is carried in life to hate against restricting authority.

Over-assersive type:- Here we have costreperous conduct because they rebel against parental dictates, and in later life kick against authority. They are ill-adapted to tous-work as they do not like taking orders and inclined to inscience. Some of them become Schizoid psychopaths. They might possess an inferiority complex which compels them to fight for every imagined complaint.

Unaggressive type:- are the mollycondled children and become timid adults. They become timid because they do not wish to loose good relationship with those around. They demand affection. They cannot tolerate ill-treatment of animals.

Bisexual type: is where the child identifies himself or herself with both parents. If the charact ristics of the parents blend all is well, but if, as is usually the case, one parent is adored, (usually the opposite sex), and the parent of the same sex is rejected, then the male child becomes effeminate, and the female child becomes masculine. Various morbid fears are found in this group.

Phobic type:- Fears of various kinds are to be found. Fear of darkness; fear of disease; fear of some domestic animal; fear of the opposite sex; fear of going up a ladder; fears of certain lames. All these have to be dealt with in a kindly spirit.

Juvenile Delinquency in the past has been looked upon by a large majority of citizens as acthin, more than pure wickeaness, and the law did not recognise any transgression of the law unless the juvenile attained the age of fourteen. Whilst lass, compulsory education, and elementary education tended to protect the child a dainst parental authority, certain "pictures" at chemmas and some "light" reading-occks and papers tended to show the existence of immoral conduct in their new world whilst temptations to stead existed in open shops and in displays inside shops. Some account has to be taken of mixing with a new set of juvenile whose character is unknown to them and who stead from want of moral stamina. The juvenile court can never be the normal cure for naughtiness nor want of moral stamina. These can only be cured by proper parental education and control. So therein exists a parental problem. If parents and controllers of youth clubs can take these in hand and avoid a juvenile court then so much the better for the youth concerned and the assessing of the "cases" before the juvenile courts. The greater proportion of juvenile delinquency cases come from the poorer classes and those in cities and larger towns aspecially in slum a fallers. These facts point to parental control, ants by the youth of things he lacks and sees others have, as well as the absence of moral teaching. If parents lack control by drinking bouts, constant nagging or temper outbursts the child will learn also lack of self-control. The mental make-up of every child is different and whilst one correction may be sufficient for some the "shock" of an appearance at a juvenile court may have a serious reaction on others - the juvenile may regard himself as being tainted as an outcast and thus continue his abnormal conduct.

that no child under the age of eight can be guilty of any offence". But this can in certain cases be overcome by the law, viz: the delinquent as "beyond control" or in "moral danger" and deal with him. At the beginning of the trentieth century there were three main problems connected with Juveniles viz:— (1) Offences committed by them treated by the reformatory school, the industrial school and prison. (2) Offences committed against them; and (3) Vagrancy and destitution cases who were sent to industrial schools. To Industrial schools too a child could be sent (since 1894) for a first offence or for mandering and setting into bad company. By the Childrens' Act 1906 any child under 12 could be sent to an industrial school, or put in custody of a "fit person", or left at home under the supervision of a protection officer for a crime, wickedness, unfit parents, truancy. Offencers between 12 and 13 could not be sent to an industrial school unless the court certified

that they were not likely to have an evil influence on other children there. If this could not be given they had to go to a reformatory. Children 14 or 15 were too old for the institutions and had to be under a probation officer or a foster home or both. After 1908 no child under 14 could be sent to prison; and by the 1933 Act for offenders between 14 and 17 imprisonment could only be given on a certificate of a court that the individual was too unruly or too deprayed. By the Act of 1908 local authorities had to segregate young children from rown-up criminals ma so close places of detention for those under 16, and these too in police courts were to be kept apart from adult offenders. Thus arose the juvenile courts. With this arose the modern Acts, Children and Young Persons Act 1933 and its amending Act of 1938. The keystone of the 1933 Act is Section 44 which impresses upon the need of "cars and protection", the Child's Welfars, removal from unhappy surroundings and proper provision for education and training. All Industrial Schools and reformatories now became " approved schools", Junior, Intermediate and Senier. Juvenile courts had now power to use for all types of delinquency all methods of dealing with them, viz: Foster Homes, Supervision under Probation Officers, Authorising Local Authorities to take Juvenile under a "fit person" order. All up to 17 and those sinned against coming under the term "in need of care and protection", can so be again with. Then there is the Borst 1 institution for the worst types. The 1933 Act protected the juveniles from publicity by prohibiting the press revealing their identity. The magistrates may call for various reports on conduct and character but must inform the child the substance of them and as also the parent or guardian.

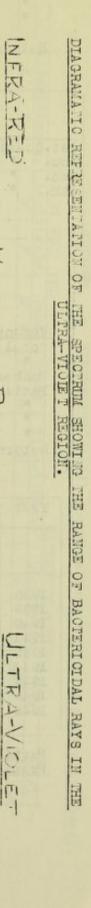
Juvenile courts have complete jurisdiction over all offences except homicide, and a sentence to a Borstal Institution is the only one which they cannot exercise but which must be given by a higher ccurt. No case of "care or protection" and "beyond control" can be tried cutside a juvenile court. At the age of 14 however a juvenile if charged for any indictable offence can claim the right to a trial by jury. Rights of appeal on facts and law or both exists. Each Juvenile Court consists of not more than three justices of the Peace and must include one man and one woman (if possible). Their clerk keeps them within the law, and the probation officer is the Welfare Officer of the Court. Besides the Probation Officer the Local Authoritymust be informed when any juvenile is to be brought before a juvenile court; and thereon the local authority must enquire as to the "home surroundings, school record, health and character" and make a report to the court, (usually the School Attendance Officer does this - provides the facts only).

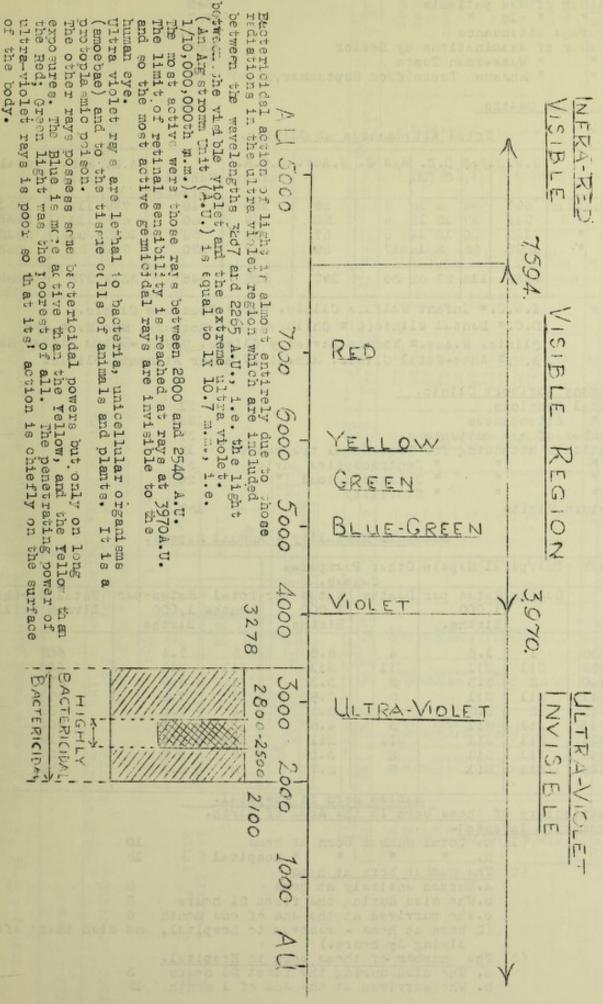
The Court can utilise the Probation of Offenders Act for trivial and other circumstances. Under this the case may be dismissed orm-pletely; put on probation for a period, release on condition of being under supervision or simply "bound over". Probation prevents the delinquent from being taken from the home.

A "fit person" craer gives the best chance of saving a delinquent from a life of crime.

Penal Actions: These are, whipping, detention in a remand home; imprisonment, and Borstal Institution. For prison the minimum age is 14 and for Borstal 16. The juvenile of 14 and upwards can only be sent to prison if he is certified to be too unruly or too deprayed for a remand home. A juvenile cannot be sent to an approved school unless his offence is one for which an adult could get imprisonment. A child under 10 can't be sent the re unless there is no other way.

Grea parents exist in all strata of people. A community can help much in this prevention of aslinquency by taking sarly care of the juvanilas in its midst. In my opinion a spacial voluntary committee of citizens keenly interested should enquire into each case to prevent court action.





28.	
Anta- Matal Clinic.	
Total Sassions	100
" Attandances	3339
Mumber of new patients	652
" " old "	2687
Avarage attendance	33.39
Mumber of Examinations by Doctor	3280
" Wasserman Tests	611
" Rhasus Tasts(from Saptambar, 1946)	207
Maternal Deaths	Nil.

Total Attendances at Clinics.

	I.W.C.		D.C. (C)(M		W.Aav.	U.V.R. Infants	School Chilaren		Min. Ail.	Potal.
lst.Quarter 2na. " 3ra. " 4th. "	697 944 1122 1099	34 37 20 25	10 1	7 6 4 6 17	29 52 57 59	160 159 59 117	40 60 56 170	100000000000000000000000000000000000000		1651 2236 2512 2263
	3862	116	27 6	36	197	5 25	346	3339	372	8652

I.W.C.= Infant Welfare Clinic. T.C.= Touchers Clinic.
D.C.= Dental Clinic(C)= Children, (M)= Mothers. Eye C. = Eye
Clinic. W.Auv.= Womens Advisory Clinic. U.V.R.=Ultra Violet Ray.
A.J.= Ante-Natal Clinic. Min.Ail.= Minor Ailments Clinic.

Womans Advisory Cl	inic.	
Total Sessions		21
" Attendances		196
Number of new pati	ents	37
Patients attending	for Post-Natal treatment	12
11	" Contraceptive advice	31
" "	" Gynaecological "	20
11	" Sterility	7
Return Visits	1129.7	159

Maternal Mortality - Annual Report.

Year	Puerper	ral Supsis		uerperal ses.		A LANGE OF THE PARTY OF THE PAR	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Rates per 1,000 Births.	Duaths	Rates per 1,000 Births.	Total Deaths	Rates per 1,000 Births	Total Births Live & Still
1938 1939 1940 1941 1942 1943 1944 1945	Nil 2 Nil 2 Nil 2 Nil Nil Nil Nil	1.6 N11 3.3 N11 3.5 N11 N11 N11	4 Ni1 2 5 2 3 Ni1 2 2	6.6 Nil 3.3 7.8 3.5 4.8 Nil 3.2 2.7	5 Nil 4 5 4 3 Nil 2	7.4 Nil 6.6 7.5 7.0 4.8 Nil 3.2 2.7	605 606 573 573 539 604 719 627 759

Particulars of those born in the Area of Blyth.

Premature Infants:
(1) a. Total number born at home 10
b. " " " hospital 18

(2) The number born at home.

a. Nursed entirely at home 8
b. Who aied during the first 24 hours 2
c. Who survived at the end of one month 6
(2 born at home - removed to hospital, and died there after

(3) The number of those born in Hospital.

a. Who died during the first 24 hours
b. Who survived at the end of 1 month 15

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Grand Totals	Total Births (Live and Still) 21	Local x	Maternity Home Notifications			
36	13	17	4	E	TIVE	I
	15	11	4	14	(4)	PEG
1	1	-1	1	le:	SII	LEGI PINAPE
	1	1	Н	1xj	STILL	APE
70	352	224 218 6	128	Distant.	LIVE	
5	353	218	135 4	Parl		
17	353 10	0	4	110	SII	MATE
Maria	7	2	4	12)	TT	
				the Statuttost.		

271 patients out of 741 Maternity cases confined at Maternity Homes & Hospitals II 36.5 per cent.

Dilston. Mona Taylor.

Preston.

Princess

Willington Ravensbourne Grosvenor The Quay. Nursing Home. Nurs. Home. Gables.

115

49

36

29

19

11

N

H

10

271

Priory Mursing Home.

Others.

TOTAL.

741

PREMATURE INFANTS. (REPORTED ON).

Month.	Prematurity Age. M	Wo.in Family.	Actual Weight.	Any special milk required.	Any expert advice necessary or	Remarks.
Jenuary February	6 weeks 2 months	31	21bs.14ozs.	777	ona Taylor Mary Maternity	Lived 2 days. Child lived 24 hours & 5 minutes. Mother Tox-
Vo noh	TOTAL PROPERTY OF A STATE OF A ST	A COLUMN TO STATE OF THE PARTY	Sale State of State o	Some Some	THOUSE ST.	Lived 3 weeks.
Haron	4 weeks	1	51bs. loz.	Own		
=	1 month	51	51bs. 20zs.	1	Princess Mary Maternity	Breast Fed.
=	10 weeks	No or other last	21bs, 8ozs.	1201	Princess Mary Maternity	Lived a few
Меу	1 month	6	61bs, 7ozs.	On N.D.M.	Gables Maternity	The second
7	1 1	3	jlbs. 8ozs.	On Ostermilk	At home.	
June	20		5\$10s.	1	Mona Taylor Maternity	Jaundiced.
4	4 4		41bs. 30zs.		Preston Maternity	
4	3 14		(twins) 61 bs.		Lt bons.	
4			41bs		Mona Taylor Maternity	
=	0	7	51bs. 7ozs.		Willington Quay "	On discharge51bs.10oz
July	6 weeks (twins)	3	Albs. Hozs.		Dilston Maternity	NETTIFEEDIS SEY ld.
4	1 month	3	51bs. 5gozsg	On Trufood	Princess Mary Maternity	Cangenital Mental
August	28weeks(twins)		31bs. each	1,9	Preston Maternity	Died after 74hour
September	8 weeks	7	41bs. 60zs.		cess	Healthy Baby.
October	2 months 8 weeks	N	31bs. 61bs,120zs.	7/4	Born at home.	Lived 12 hours. Congenital Heart. Lived 4 days.
=	8 months(twins)	4	41bs.&31bs.	On Ostermilk	Mona Taylor Maternity Home.Born 28.10.46.	Normal Bables.
November	4 weeks	3	61bs. 2ozs.		Willington Quay	Weak Baby.
December	1 weeks	124	41bs.13ozs. 41bs.14ozs.	Ostermilk No.1	"Birithy wat " Home.	Healthy Baby.

In England and Wales each year there are about 20,000 Still-Births, 18,000 Neo-Matal deaths (i.e. of infants under four weeks of age), and 15,00 deaths of infants from four weeks to one year. This total represents a great waste of life and all localities through their clinics, etc., must endeavour to reduce it. (The term "still-birth" is applied to any child born from it's mother after the twenty-eighth week of pregnancy and which did not show any signs of life or did not breathe). In 1939 the Still-Birth rate in England was 37 per 1,000 total births. The "Still-Birth" does not increase with increasing deasity as does infantile Mexitality. The cause acting on the child whilst unborn will, if it has not killed the child, might still act as a continuing factor as the cause of it's Neo-Matal death. In this six respect the two are related. In order of causes we have difficulties in Labour, Prematurity, ill-defined causes, deformities, Toxaemia, diselse of Mother, etc. Primiparae have a higher Still-Birth rate than votes who have borne more than one child. Ante-Matal care and the improvement in health from priorities for milk, eggs, and vitaming, have done much in reduction - still there is much to achieve. It is estimated that the Still-Birth rate of the ninth pregnancy is twice that of a first pregnancy and more than three-and-a-half-times of a second pregnancy.

It has been found that women who get an attack of derman Measles during the first four months of their pregnancy are greatly liable to have a child born of some deformity or complication or a "Still-Birth".

NEO - NATAL DEATHS.

Fatal outbreaks of Meo-Natal diarrhoea have broken cut in some Maternity Homes and elsewhere. The causes of diarrhoea so far known have been (1) food poisoning (2) bacterial dysenteries - with (1) and (2) being also in adults; (3) mild diarrhoea in bottle-fed infants (sometimes fatal), (4) true epidemic Meo-Matal diarrhoea. Some bacterial infection or toxin introduced is the usual cause but in these outbreaks the definite causa causans has not been determined. The great necessity for the strictest hygiene of persons, clothes, napples, vards, can again be emphasised, together with the sterilisation of all apparatus used in injections, etc., The question whether Toxaemia in mothers can produce these results requires some consideration.

"LIVE" AND "STILL" BIRTHS.

Every child born alive must be registered within 42 days primarily by the parents, or in default by some one present at the birth. Similarly every "stillbirth" must be registered and at same time the registrar must be handed a certificate of a doctor or midwife that the child was not born alive, or sign a statutory declaration. It is unlawful to bury a "stillborn" child without the sanction of the coroner or registrar. A "stillborn" is any child issued from its mother after the twenty-eighth week of pregnancy and which did not breathe or show any sign of life. Therefore a foctus born dead before the twenty-minth week need not be registered. To be "born alive" the child must be (1) fully extruded and (2) achieved an independent existence. It is not necessary that it should have breathed or that the cord should have been cut - but it must have shown some signs of active existence of life. By the Infant Life Protection Act 1920 and the Registration Acts a child is only capable of being born alive after the 28th, week. This does not exclude evidence of life in a foctus at an earlier age.

TOXARMIA CASES AMONG MATERNITY CASES.

Perioa - 28/2/46 to 7/11/46.

No. of Cases.	Toxaemia.	Complications.	Days in Hospital.
February 1	1	Hyaramnios.	28
March 3	1	THE TO SEAL SECTION OF	11. 22. 31.
April 4	4	1.Forceps 1.Mother Anaemic. 1. Still- Birth.	11. 11. 17. 16.
May 3	-	1. Post-partum Eclampsia 1. Pyramia	12. 11. 34.
August 3	3	Nil.	23. 14. 19.
September - 2	2	Nil.	10. 27.
October 1	1 .	Still-birth. Caeserian.	37•
November 1	1		14.
TOTALS: 18	12	7	Talke have been

None of the above Babies had Jaunaice.

18 Toxaemia Cases out of 64 confinements sent to Dilston in above period. This sives 1.8 per cent.

PREMATURE BABIES.

A PALL BURE			Perioa	livea.	1		24.7		H - THE PARTY	
Total	Still-	Few	32	12	24	2	3	4	3	
24 cases	Born.	Minutes	Hours	Hours	Hours	Days	Days	Days	waaks.	
with 27							No. of the last	200	Property and	
infants.	3	1 (a tain)	2 (twins)	1	1	1	1	1	(a twin)	
(3 cases		tain)	(twins)	The original			(a tain		(a twin)	
of twins)										
MESSES BRES	5	3	BE TOO	0.00	0.0.0				-1	
	Weeks	3% of 27								
									infanto	
SED BA	1	1				weeks	to 3	~	10	
		1 100		mor	iths			- 7.	4%of 27	
			-1	22				76	infants	
			Total	II dea				40.	7.% of 27	
					10 3	menths	· north		infants	

Trans	fal	abla	D	at	hs	for	Qu.	art	er .	ana,	a 3	ls	t.D	30	.19	46.		
	0	- 1	10.	- 15	15	- 25	25.	-35	35 •	- 45	45 -	55	55	- 65	65	-75	Cv	
Causes of Death	14	F	M	F	M	F	14	F	M	F	M	F	14	F	M	F	M	F
Brain Disease*	-	-	-	-	-	-	-	-	-	-	1		-	-	-	1	1	-
Heart "	-	-	-	-	-	-	-	-	-	-	-	-	-		2	1	2	2
Liver "	-	-	-	-	-	-	-	-	-	9-	-	-	-	1	-	-	-	-
Kianey "	-	-	-	-	-	-	-	-	-		1	7	2	-	-	-	-	-
Pneumonia	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cancer	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
Adrenal Tumor	11	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Patanus	-	-	1	-	-	-	-	-	-	-	-	-	-		-	-	-	-
Gen. Paralysis of												77.5			100	166		
the Insane.	-	-	-	-	-	-	-	-	1	-	-	-	-		-	-	-	-
Haem.after Abortion	-	-	-	-	-	-	-	1	-	-	-	-	-		-	-	-	
Totals	3	-	1	-	-	-	-	1	1		2		-	2	2	2	3	2

The Ausculatory Method of taking oloou pressure gives the pressure when the heart is pumping out the blood (the Systolic pressure) which registers the maximum pressure and also the pressure when the heart is at rest the diastolic pressure) which shows the capability of the heart. Many people seem to be obsessed with the high blood pressure and do not give eignificance to the diastolic pressure which shows how the heart reacts to the increased tension. In fact the particular value of this method of estimation is in it being a reliable method of estimation the diascolic pressure. In this method a band is put round the arm and it the diasoclic pressure. In this method a band is put round the arm and it is connected with a mercury (or air) manometer and a stethoscope, preferably of the phonendoscope variety. Failure to get a correct reading can arise from many cuases. Thus: (1) Position of the armlet - ½ an inch can give a different register (2) Where the centre of the bag is put (3) Accurately determining the position of the artery at the biceps tenden (4) Kind of stethoscope (5) Any pressure applied to the artery by the stethoscope (6) Distriction of the listener (examiner) (7) The proper appreciation of the sounds of the five phases (8) The noting of the special points at which these phases and (9) Blood volume. The whole value of the method depends upon the accurate determination of point 4 which represents the diastolic pressure (i.e. when silence begins). If any other point is taken diastolic pressure (i.e. when silence begins). If any other point is taken the whole value and object of the method is vitiated. If medical men can differ as to the pressures then one must not be surprised at midwives. Compatent observers can record different pressures on the same patient at the same time. The instrument at times requires testing against a standard one. Blood pressure represents resistance in some way to the blood. A gravid uterus must at times occasion resistance and a temporary rise of blood pressure is not pathological. Pressures above the mean are not necessarily pathological. "The diastolic pressure is the best simple index of mean pressure". (Rolleston & Monorieff). It is the effective minimum pressure which is important for the work of the heart. A high minimum means extra heart work and so leading ultimately to enlargement of the heart. Pregnancy has an unfavourable effect on kinney aisease. High blood pressure during the last three months of pregnancy may cause a risk of convulsions. You can have high blood pressure without arteriosclerosis; and arteriosclerosis without high bloca pressure. In early stages of high blood pressure the person may feel well and look healthy. Uring testing is essential to discriminate kidney aff. ction. A monograph by Bechgaard deals with a study of over 1,000 cases of hypertension. By this term he means a blood pressure of not less than 169/90 - the average was 190/110 taken after 15 minutes rest. Mortality was not influenced by obesity, or the height of the blood pressure provided it was below 200/130 in men and 220/130 in women. He defines normal blood pressure as being 140/90mm. In this country a blood pressure in people over 50 years is regarded as hypertonic if it is 170/105. Latest instrument (Tonoscillograph) gives in 2 or 3 minutes a permanent graph.

The normal for a man is roughly 100 plus half his age. In women it is usually 10-15mm mercury lower. In this country a systolic pressure over 150 or 150 mm is regarded as abnormal at any age, but its significance depends on other factors. The diastolic is generally 2/3rds. of the systolic up to middle age, and half the systolic after that.

I have gone through some of the blood pressures taken during 1946 by the midwives and summarise the results.

Of 96 cases where bloca pressures were taken on two or more occasions there were only 16 cases which had at any time on one or more occasions a bloca pressure of 140 or over. This represents 16.6%. In none were there any abnormalities. The total occasions bloca pressures were taken in this unselected group was 435 or an average of 4.5 occasions per case. Most of the bloca pressures were in normal ranges.

To understand what the discovery of the Rh. Factor in the bloca means in simple language, I must summarise briefly the knowledge of block groups in general. All persons belong to one of four main groups, (there are subgroups as well). These are known as A,B, AB, and 0, and generally referred to s the ABO Group. The blood of a person (a donor), is injected into another person's olocu (recipient), and if the injected blood is of a different group dangerous symptoms can arise, (as broakage of the rea bloom cerus and their somution hasmolysis as it is carled). All soluous foreign protein substances (rea blood corpuscies, blood serum, animal venoms, etc.) i.e. foreign to the particular subject, may act as an Antigen. An Antigen is a special constituent or product of the body which incites immune bodies or antibodies which act adversely on the homologous organism or neutralise it's poison. A serum for example, which contains antibodies antagonistic to a certain germ (bacteria), is called antibacterial serum, and one which neutralises it's toxin is known as antitoxic serum (as used in Diphtheria). Sometimes the injection of a proteid leads to what is called a Specific Sensitising effect so that when a second dose of the serum is injected, even after a short interval a sudden illness known as Anaphylactic Shock is developed. It was found that pregnant women or those who had recently been confined occasionally, on their first blood transfusion had serious reactions. In 1940 the explanation was found in the discovery of the Rh. factor (by Landsteiner and Weiner). They found that when rabbits or guinea pigs had blood injected into them from the Rhesus Monkeys that antioodies developed which reacted not only with the rea cells of those monkeys, but also with the cells of 65% of the white population. Such persons were thus called Rh. Positive, and the remaining 15% were Rh. legative. This discovery was applied by other workers for an explanation of the irregular actions where a Rh. Jegative woman reacted irregularly while transfused with Rh. Positive blood. They explained it as the Rh. factor of the transfused blood acted as an antigen and brought about iso-imminisation of the Rh. Negative recipients. A similar explanation was given of some footal abnormalities (Rh. groups), conjenital anaemia, and breakage of blood cells of infants (Arythoblastosis) as being caused by the action of Rh. antibodies. Later it was found that 90% of mothers of infants who had Haemolytic diseases were Rh. Begative and the infants Rh. Positive. Further studies of families showed that the Kh. factor is inherited. (As in the case of the block groups so with the Rh. factor there were sub-types - 3 each for Positive or departive Rh. factors.) In such individual the Rh. factor consists of two sees of three elementary antipens, and so a recipient on transfusion might be expected to develop antibodies against one of the antig as which be Rh. Positive blood the cells of the donor might live in the recipient's bleed without causing any reaction. In others on the first and other occusions of transfused blood severe reactions occur (head ches, rigors, januaice, blood in the urine, etc.,). These result from isc-immunisation of the Rh. Jecative recipient by the antigens of the Rh. Positive blood, and Rh. antibodies are present in the Serum. Once sensitis ation has been established it seems to be permanent on the recipient's constitution, and so a transfusion after many years can be followed by serious results. It has even been asserted (Diamond 1945); that sensitisation of the Rh. Jecative woman by transfusion of Rh. Positive blood leads to the most severe forms of haemolytic disease in subsequent pregnancies. Cappell, (1944), emphasises that females in or below reproductive period should be transfused only by Rh. types similar to their own, and without regard to this factor it is a narous.

Approximately one marriage in all ht involves a Rh. Positive man with a Rh. Megative woman, and in about one pregnancy in ten the fostus is Rh. Positive and the mother Rh. Megative. Sensitisation however, occurs in about one in themty-five which means that haemolytic diseases would arise in about one in 250 births. Thus Rh. incompatibility is the most important genetic classe of fostal deaths. The harmful antibodies pass through the Placenta ("after-birth"), and cause damage to the blood forming system of the infant. These antibodies are mainly associated with "clumping" of the cells or their breakage and solution of them.

At birth the appearance of the chila cannot be taken as a guide as to it being affected or not. Jaunaice is not the rule as the excess of biliruoin (from the destroyed cells), passes into the placenta and is removed by the mother's circulation. If affected the umbilical cord may look yellow. Marly si ns are discoloration of the skin and mucous membranes (such of lips and jums), as also haemorrhages into the skin. There should be no delay in finding the correct diagnosis. A sample of oloog is taken from the maternal and of the umbilical cord into a sterile bottle with an anti-coagulant (preferably heparin). It is centrifugalised, and if the infant is affected the super-natal fluid is found highly jaundiced. (There must be no mixture of Wharton's Jelly from the cord or with any of the mother's blood). With history of a provious diseased child, give a transfusion. When jaundice appears within a few hours of birth then Haemolytic disease can be suspected - but it may be delayed for 48 hours. (Physiological Jaundice rarely occurs before 48 Hours). suspicious signs are, rapidly deepening Jaundice, with drowsiness and difficulty in feeding. In such a case the child should be sent to hospital for diagnosis no treatment. With the child 10ml of the mether's bloca should be sent so as to uscide the type of blood to be transfused. (A normal block of a child of 71bs. (3.175 Kg) is 250ml. The amount transfused should be given up to 150ml, which amount is equal to three litres in an adult). 120 - 150 Ml. of Rh. Wegative blood should be early transfused of the child's blocd or Group O blood. When the disease is anticipated the cord should be clamped at the sarliest to prevent reflux of Placental blood. If the infant's blood (of a Heterozygous father), shows it to be Rh. Negative no treatment usually is necessary. If Anti-Rh. appluting are present in the mether's blood they will be in the milk also. The milk can be aram off, heated to destroy the agglutins, and given to the chila.

After the first recognition of Haemolytic also as in a family the father's blood should be examined to find out if he is Homozygous or Heterozygous to the Rh. factor. If Homozygous then the prognosis is bad as a large number of these pregnancies terminate in miscarrage, premature birth, or magrated fostus. In 10% of cases of Haemolytic alsease the mother is Rh. Positive. For the affected children the mother's blood is taken as the guide. Mothers' whole blood must not be used but the rea cells can be used after centrifusing and washing with saline, or a supply of matched blood received from the Blood Bank of a Transfusion Depot.

Rhesus Blood Testings - Number Taken.

Period - 28th. September - 31st. December, 1946

Fer	males.	uS ().munic	Males.		Tot Males.		Grand Total. Males & Femal	.89
1st. Fest.	2nd. Pest.	Taugat ma	23	12	23	114	137	
Female Negative.Po	es. ositive.	Negative.	Males. Positi	ive	neg.	& Pos.		
23	86	5	18		109	23	THE PERSON NAMED IN	

The Blood Testings are taken by Health Visitors (2) alternatively at the clinics - 2 clinics per week.

The 5 second testings taken at the eighth month of oregnancy proved to contain no Rhesus antibodies.

I have enquired of a number of mothers their opinion on this subject which I give below.

Result of Questioncaire to Mothers' ..

: - Some relief not necessarily chloroform.

• - 2 had Twilight Sleep.
Some relief other than Chloroform. (1 Twilight.)

X - Think every mether should have some relief.

Remarks made: -A second confinement case had experience of both chloroform and Gas-exygen - prefers latter; A fifth confinement case considers every woman for her first case should have chloroform. The term abnormal includes instrumental deliveries.

Of 74 normal cases 44 (59.4%) wanted some relief. Of these (74) 39 (43.3%) were first pregnancy cases of whom 25 (64.1%) wanted some relief and of these 18 would have wanted chloroform. Of them also 32 would like chloroform in any future confinement. Of 21 second pregnancy cases 8 even wanted some relief. Of a third pregnancy cases 6 wanted some relief. Of among 4th. to 6th. pregnancy cases 3 wanted some relief.

Of 90 cases 35 (30.0%) had some relief including 16 abnormal cases, and 35 (30.0%) did not want nor in the future any relief. One definitely prefers natural labour.

Thus two-thirds of the first cases wished some relief of pain. Of all the others 42.0% desired some relief also.

Relief of pain (Analgesia) during labour can be obtained by some drugs (e.g. Chloral, Paraldenyae, Bromides, etc.), according to the case. It may be obtained by certain inhalents. Thus:

1. (a) Chloroform either in capsules which the patient can break and inhale from, or gut on a cloth, as each pain comes on. (b) By the Medical attendant(or nurse in attendance with them) putting some on a cloth to inhale at such times. I have used either on the greater number of 5,000 cases. The capsules (each of 20 drops) cost 2/- for twelve.

2. The minnet apparatus with nitrous oxide (and oxygen). This apparatus can be used by midwives under certain conditions (of the C.M.B.). It requires co-operation of the patient and before this can be absolutely secured the patient requires come ante-matal tuition as to what she should do in the three stages of labour. Hysterical patients are non-oc-operative. Again the use of this gos and air mixture is contradictive in Heart disease or Heart affections are complaints and where there is his holded pressure.

3. Trichlersthylene is akin to chloroform and octhaniquia and its' vapour are not inflammable (like sther). It is "safer than chloroform but provides more Analyssia." (Hewer). Certain conditions have to be known. A purified form Trilene (coloured blue) is now available and has been found very useful for this special purpose and is cheap. It can be used with a clover inhaler without the bas and can be used by the patient. One cunce will last o to 5 hours and costs only sixpence.

It is not every women who wants an Analyssic. Where need and desire exist most doctors will meet them. With shortage of staff for

observation there may be at times a little difficulty.

The passage of an anaesthetic from the ultimate cells of the lungs to the bloca is physical i.e. it depends upon the laws of diffusion of gases. The diffusion cas on until the partial pressure of the gas on each side of the lining membrane is equal. The total blocd of a normal person at rest passes through the lungs once every half minute. The more liped anaesthetic is carried by the red cells of the blocd whilst the water-soluble ones are conveyed by plasma of the blocd.

Carbonic acid is the natural stimulant to the respiratory centre in the base of the brain. You can increase respiration by adding up to 5% carbonic acid gas to the inspired air or to exygen, but an addition to a greater extent than 10% will cause cessation of respiration even with exygen. Again exygen by itself is capable of producing loss of consciousness. Artificial respiration is used to everceme the lack of exygen in the block but if this carried out to excess so as to seriously reduce the carbonic acid necessary then the exygen clings to the Haemoglobin and there is lack of exygen to the tissues so that death can be produced by excessive artificial respiration.

CHILDBEARI IG SURVEY.

Extracts from the survey undertaken by the Royal College of Obstetrici as and Gynoscologists.

	Professional Group.	Black ccated Workers.	Manual Workers.
According to smployment	0%	10%	65 %
A fourth or higher number of pregnancy.	1 in 20	1 in 10	1 in 4
In population density of two or more for every bearcom and kitchen.	1 in 20	1 in 10	1 in 4
Ant:-Natal care from	3rd.month	4th.month	4th.month
Delivered by Specialist	1 in 10	l in 50	2 in 50
Home Delivery	1 in 5	1 in 3	1 in 2
Nursing Hems	1 in 3	1 in 17	1 in 17.

ANTE-NATAL CLINIC.

	New	Re-			New		
1946.	Patients	Visits_	Consult.	1946.	Patients		Consult.
Jan.	64	234	297	July	52	279	331
Fab.	65	168	232	Aug.	52	235	333
Mar.	61	177	238	Sap.	69	308	376
Apr.	43	246	278	Oct.	56	182	237
May.	48	261	309	Nov.	49	176	222
June	47	179	224	Dec.	43	224	244

Totals: New Patients. Re-Visits. Consult.

649 2719 3321 100 Sessions in the year - average of 35 per session.

POST-MATAL CLINIC. (Dr. Dorothea W. Sinton).

Total Sessions	21
Total Attendances	196
New Patients	37
Return Visits	159

Analysis of attendances.

Gynaecological	20
Post-natal	12
Sterility	7
Contraception	31

SCABIES 1946.

School Chilaran.

Number	of	Baths	242
	u	Drassings	121
11	11		137
ii ii		New Patients	80
îi	11	Racurrancas	1
li	ti	Old Patients Continuing	0
11	tr	Adult contacts	81
11	11	" treated	3
11	0	Cases referred by own Doctor	5

SCABIES.

Maternity & Chila Welfare.

Number	cf	Baths 6	5
11	11	Drassings (٥
11	H	Examinations by Maulcal Officer 5	5
"	11	Hew Patients 4	1
11	11	Recurrences (j
it.	11	Ola Patients Continuing (b
11	11	Contapts	-

LOCATION South Farm Met 110	TYPE	COMPLETED	IN PROGRESS
South Farm Estate, (Housing 2A, 2B, 2C). 3,5,7,9,11,13 Fifteenth Avenue. 91,93,95,97,99 Sixth 100,102,104, Avenue. 106,107. 16,16,20,22,24 Eighteenth 26,28,30,32,34 Avenue. 25,30,32,34,36,38,40, 25,27,29,31,33,35,37,	Tarran Pre-fab 2 Bedrooms. ao. ao.	10 10 18	and all all all all all all all all all al
39,41,43,45,Second Avenue. Newsham (Housing 3). 2,4,6,6,10,12,14 Links 16,18,26,30,32, View. 34. Remainder of Site.	Aluminium Pra-fab. 2 Bearcoms	13	36
North Farm. (Housing 1).	Aluminium Pro-fab. 2 Bearooms.	SAULTON DE UIE	57
	TOTALS:	57	93

SCHEDULG OF RENALEST HOUSES COMPLETED AD IT ROGRESS OF STREET DECEMBER, 1946.

LOCATION	PYPA	COMPLATED	IN PROGRASS
South View (Housing 21A). 1,3,5,7,9,11,15,) 15,17,19,21,23,)South 10,12,14,16,18,)View.	Permanent 3 Bearooms.	22	
20,28,30,32,34,		a man man la	a to sook thou
22,24,26 South View. 8,9,10 West Drive.	3 Bagrooms. 2 " 4 "		3 1 2
North Farm. (Housing 19). First Portion (A)	Permanent 1 Bedroom (Bung. 2 "		2 10 23
Secona Portion (B).	4 " 5 " Permanent. 1 Bearoom (Bung.		9 2
Digosto de del socio de del socio de de descrito de de	2 " 3 " 4 "		2 42 4
Newsham Road. (Tousing 22.)	Parmanent.		THE OF SHIPPED AND ADDRESS FOR SHIPPED
After Dourson Shingreds	1 Bearoom (Bung. 2 " 3 " 4 "		2 12 51 8
de ve as coloretmo di strub formath desc at add lacro-non bne lanc telbers	B.I.S.F. (Perm. Pre-fab.) 3 Bearooms		72
oustry by private soil	TOTALS:	22	25.4

SLUM CLEARA CE AREAS.

Popu tion.

1. Cowpan Colli my X	540
2. " Squ re X	277
3. " Row X	132
4. Forth Row - Isabella Pit	45
5. South dawsham	278 - Total 1272.

All the above Areas consist of property belonging to the Compan Com Company, Lta.,

6. Quaysius Areas 1 10 7. Must Repart Street Areus 1 - 3 X 530 8. Wykeham Patrace Area

Areas so's i - 8 Scheduled sovember, 1957.

9. Babsida Arads 1 - 10 1181 10. Cowpan Areas 1 - 3 103 - Total 2345 Grana Total: 3617. -Ar as so's 9 and 10 Scheduled 1938. Total Population involved by Survey at that X asactes Applicants interviewed. time.

Note: Phoenix Street Area is ready for Schedule.

PHOENIX STREET AREA.

I have submitted two reports on this. The area was surveyed in 1939 for slum clearance and at that time there were 108 houses. At present there are roughly 96 buildings occupied by a population of about present there are roughly 90 buildings occupied by a population of about 325. A house may be occupied by letting to 2,3, or 4 families. The conditions of all are damp and 70% of the houses have more than three various minimum conditions of repairs. Nearly all are beyond habitable, many are overcrowded and some have tuberculosis cases. The whole area calls for immediate treatment by slum clearance or purchase of the 96 buildings by loan and rebuilding house by house on each demolished site. Either can be done under the Housing Act on representation to the Minister of Health and I recommend this should be done, and am sure it will have sympathy as the conditions are vile and intolerable both to the people concerned as well as for the general public health. concerned as well as for the general public. health.

> THE WHITE PAPER ON THE HOUSING PROGRAMME FOR 1947 ISSUED BY THE MINISTRY OF HEALTH. (EXTRACT).

Zonal Conferences. In most districts not all the building labour employed is local, and it is therefore not possible to consider one district apart from its neighbours. Zonal conferences have already been arranged, in order to collate full information on building schemes and to enable represent atives of the Government Departments concerned and of the local authorities to act in concert in determining what ranges of building work of all kinds can be undertaken with the available labour.

In pursuing, therefore, the housing programme for 1947, the following

procedure will be adopted :-

(1) A conference for each zone will be held at some time within the next two or three months;

(2) Before or at each conference, the local authorities concerned will have before them the whole of the available information as to building

commitments and building resources for the zone;
(3) The best possible estimate will be made at the conference as to the total number of houses which can be completed in each district during the year. This estimate will include both traditional and non-traditional houses to be built by the local authorities, and houses to be built by other bodies (including houses to be built by private builders under licence, houses to be built by Housing Associations, and, in districts where such schemes are in hand, houses to be built by Government departments). Soon a schodule will be issued.

RIGISIER OF COMPLAINTS - 1946.

Work of Mr. Pringle f. of Cats destroyed "Dogs Visits re Pat infestat lat.June /46 to 31st.D. Visits re Bugs from Ma De Visits re disinfection (other than Infectious during the year 1946)	SOMMARY OF SANITARY Total of Informal N " Statutory Number of Milk Samp " Water " Caroasses	TOTALS: 97	Jan, 6 Web. 4 Mar. 4 May 21 June 25 July 25 August 15 Nov. 44	Month. Dustbins.
from tion DEC/4 arch/ec/46 n. of s. Dis	Motices Notices Notices Tok	96		Drains
in houses the to the folding seases	1 saued:	293	028 182 182 173 028 182 182 183 183 183 183 183 183 183 183 183 183	House- Defects.
946 - 31 93 93 49	1946 531 176 204 42 8316	17	400400114411	W. C.
100	1785 7855 7789 7789 7789 7789 7789 7789 7	32	24HWHWHWWW	
mber,1946. sits re Infectious sits re taking Sa Newburn	1944 652 288 6788 5788	66	8 6 7 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Water turned off.
Diseases ples of Wilk r Infestation rebaits laid. picon baits lai raps baited. pides recovered ato killed. loc killed.	PUSTAGE EX Medical Of Sanitary I Blood spec Swabs:	204	021 012 880 821 031 012 880 881 031 012 881 031 031 031 031 031 031 031 031 031 031	Food Inspected.
309 22 0rder 1943. Period 2250 1793 120 302 1816 192 490.	PEIDIRU fical. napecto imens:	15	ותוווויוווייו	Gutters.
A STATE OF THE PARTY OF THE PAR	RE. 1946 of Health: r:	214	25444445 247448 2570 250 250 250 250 250 250 250 250 250 25	Various.
n.1stAp	£29. 7. 5. 15. 1. 12.	1,034	104 104 177 177 177 177 177 177 177 177 177 17	TOTAL.
Jan. 1stApr.27th.1946.	5 02.00	200	200 mg nement out	REMARKS.

This method (now in Blyth) has been recognised by the Ministry of Health under the Milk (Special Designation) Regulations, 1941. The employment of this short-time method is conditional to (a) the milk being retained at a temperature of not less than 162°F for at least 15 seconds; (b) that the apparatus is fitted with full thermostatic controls, and (c) that a suitable sevice is provided to divert the flow of any milk which has not been properly 'hela'.

From the Public Health standpoint this process has been found, both in this country and in America, to kill all Pathogenic (disease-producing) organisms likely to be found in milk at a temperature of 180° F for 15 seconds. (It will be noted the Regulations give 2° F more for added safety). The great test of the efficiency of all pasteurisation processes is the destruction of the Enzyme Phosphatase in milk, and this process has been proved by the Phosphatase test to destroy this Enzyme. It is also important that the process should not destroy the nutritive value of milk and reports show that no alteration occurs. The cream line will not be damaged provided the process is carefully worked within the laid do m limits of temperature. (Higher temperatures will destroy it). It is imperative that the first flow of partially pasteurised milk should be aroun off before it reaches the cooling section. Efficient cleansing and sterilisation of the plant is necessary. Thermoduric (heat resisting) organisms are not killed and they depend upon the degree of bacterial contamination of the raw milk (from imperfect utensil cleansing at farms, etc.). Several types of the short-time process exist. The prime essentials of any type are (1) adequate heating surface (2) correct milk-to-water circulation ratio (3) sensitive thermometers (4) controlling devices.

The conditions of the Regulations are:

(a) Milk to be retained at not less than los F for at least 15 seconds, and immediately cooled to not more than 50 F; and

(b) Indicating thermometers and recording thermometers be used during the whole of the pasteurising process, apparatus shall be thermostatically controlled, be provided with a device to automatically divert the flow of milk which has not been retained at the required temperature and time.

The type of a paratus, thermometers used and methods employed shall be satisfactory to the licensing authority. Thus the milk must have a

primary heating to at least 1630 F.

There are several types of short-time pasteurisers which need not be some into here. It is however most important to note two special devices for the efficient working. The first is the Flow Controller to have a constant flow of misk. It is fitted into the pipe line and as the flow increases it operates a button which restricts the flow. The second is the flow diversion valve which directs back into the pipe-line any milk leaving the holder which is insufficiently heated. A blue light remains over the temperature recorder on normal working, but if the temperature falls a rea light appears with a wrning bell which indicates that the flow has been alverted. With an automatic control the person in char a cannot re-set the valve till the requisite temperature has existed for 20 seconds. For efficiency great care is nesded in cleansing, repair of gaskets, perfect orking of controls, constant hot water for heating the milk, a milk temp rature recorder, and controller, thermometers frequently examined (increase of temperature can damage the milk).

MILK TASTS AND H.T.S.T.

Phosphatase Test: Only aemonstrates approximately whether the time-temperature formula has been properly carried through.

H.T.S.T. Permitted under Provisional Milk (Special Designations) Regulations July 1941 which provided for an exposure at 1620F for 15 seconds.

There is as yet no H. F.S.T. plant available providing a positive holding pariod. The caus of securing the provision of a ficient plants in pasteurising depots still rests upon the Local Authority. It is for them to decide whether installations, methods, tests etc, are satisfactory.

Disgavantages of H.T.S.T.

Enzymes of milk: For their preservation low temperatures are essential.

Above low temperatures holding limits (145° to 150° F) the enzymes,
like some proteins, become decatured and lose their special properties.
The most favourable temperature for the action of anzymes lies between
950 F and 149° F (35° and 65° 50. The bacteliciaal apencies in milk are
killed at temperatures above 158° F (70°0), but remain active at 140°
to 145° F (60° to 62.7° C). The enzyme known as "Phosphatase" is destroyed
in pasteurisation for 30 minutes at 145° to 150° F (62.7° F to 65.5° C). Anylase and Lipase are renagred in ctive at somewhat lower temperature but remain active at 140° to 143° F (60° to 61.6°C). Why use a temperature cestroying any enzymes if they are valuable? At present 145° to 150° F are the limits laid down by the milk designation order for 30 minutes exposure (or 162°F without an upper limit for 15 seconds in 'H.T.S.T.). Cream rise is quicker and more definite at 10% pasteurising temperature than with higher or in raw milk.

METHYLE & BLUE REDUCTIO TEST.

It was found that Bacteria were capable of requeing Methylene Blue which was operative in mink devoid of intural Enzymes. Jensen's conclusions on the Enzymes of Milk was that Peroxidase come exclusively from the cow itself, Catalase from the Leucocytes out chiefly from mic-re-organisms, others entirely from these latter and some entirely from the fat alobules. The fat alobules have a protein envelope to which its! en zymes are attachea.

Different or anisms reduce methylene Blue with varying rapidity. It was found that Bacteria used up oxygen in the milk. The better the milk the longer it takes to reduce the aye, but in order that the cream and organisms be more evenly distributed the reduction test has been modified so that the test tubes have to be inverted at half-hour intervals. The influence of fat is shown in that a fat content of under 2% failed to reduce the dye in 4 hours, while cleam with a fat content of 18% reduced it in under one hour. Methylene Blue gives a weaker tint in the presence of fat than in its absence. Consequently complete visual reduction of the aye is reached earlier in a milk containing fat than in skim milk. Fat also adsorbs the aye leading to an earlier reduction time. Fat presents a larger surface for the enzymes reactions to take place. The conclusion is that fat in raw or pasteurised milk shortens the reduction time. At the same time it requires more or alisms in pasteurised milk than in raw milk to rauce the age. In raw milk organisms "clump" to other whilst in pasteurised wilk they are distributed so that plate counts of one against the other cannot be compared. Increase: of t aperature diminishes the amount of dissolved oxy en and accelerates the chemical process of reduction. We shall have to see how our tests in this respect work out on the High-Temperature-Short-time process bein, installed in Blyth. Imperfact cooling is a source of high bloterial count, and an excellent pasteurised milk may become subsequently contaminated. Sour milk will reduce the dye. gunlight oxidises unsatur tea fats and so reduces Mathylene Blue. Weither raw nor pasteurised milk ever reduces Methylene Blue under aerobic conditions in the absence of serms and so the test is an index of bacterial activity. The inthe absence of active phosphatase. Acialty test: The normal is 0.16% and mastitis will sleatly requee this. Milk of cons with high solias non-fat will ive 0.2%. If over 0.22% the

milk is unfit for pasteurisation.

