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ANNUAL REPORT

OF THE

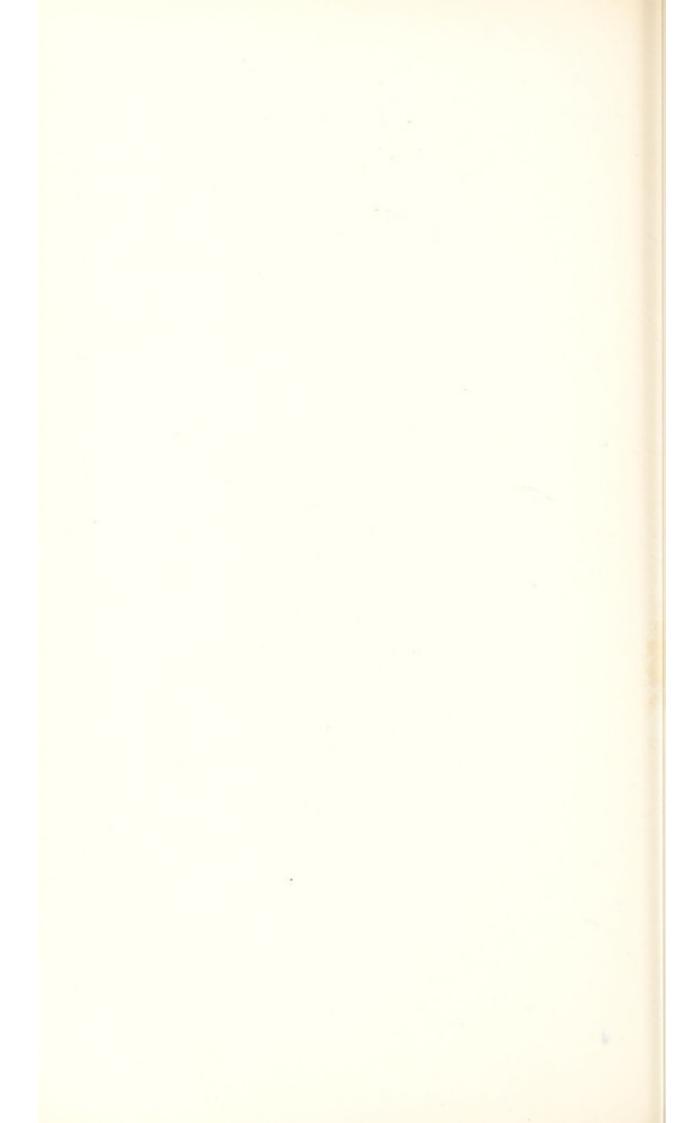
Medical Officer of Health

FOR THE YEAR

1947,

BY

CHARLES L. ELDER, M.B., CH.B., D.P.H.





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CHARLES L. ELDER, M.B., CH.B., D.P.H. Digitized by the Internet Archive in 2017 with funding from Wellcome Library

MEMBERS OF THE HEALTH COMMITTEE, 1947-1948.

Chairman:—Councillor J. W. WELCH, J.P.

HIS WORSHIP THE MAYOR (COUNCILLOR F. C. PETTE, J.P.).

COMMITTEE-

Alderman L. G. ALLEN.

Councillor Mrs. E. Devenport.

Alderman A. H. Cocks.

Councillor E. A. Dickinson.

Alderman A. Cooper.

Councillor W. ECKERT.

Alderman T. Curran.

Councillor W. GROSVENOR,

Alderman A. Marshall.

M.S.F., M.S.S.Ch.

Alderman T. Meehan, O.B.E., J.P. Councillor Edward Harford.

Alderman B. Ramsey.

Councillor R. R. KITCHING.

Alderman W. Turford, J.P.

Councillor J. Loughran.

(Resigned May 1948).

Councillor M. C. NEWTON.

Alderman E. Turner.

(Resigned May, 1948). Councillor W. RANDALL.

Councillor J. A. Brown, J.P.

Councillor L. TAYLOR.

Councillor Mrs. L. Burton.

Councillor Mrs. M. SAGAR.

CO-OPTED MEMBERS :-

Miss H. KIRKBRIDE.

Dr. J. E. Howell.

Dr. B. F. Longbotham.

Mr. C. W. L. HEATON.

MEMBERS OF THE SANITARY AND BATHS COMMITTEE, 1947-1948.

Chairman :—Alderman A. H. COCKS.

HIS WORSHIP THE MAYOR (COUNCILLOR F. C. PETTE, J.P.).

COMMITTEE :-

Alderman L. G. ALLAN.

Councillor Mrs. E. Devenport.

Alderman A. Marshall.

Councillor W. Grosvenor,

Alderman W. Turford, J.P.

M.S.F., M.S.S.Ch.

(Resigned May, 1948).

Councillor EDWARD HARFORD.

Councillor Ernest Harford.

Alderman E. TURNER.

Councillor M. C. NEWTON,

Alderman J. S. Bolton.

(Resigned, May, 1948).

MEMBERS OF THE HOSPITALS COMMITTEE, 1947-1948.

Chairman:—Councillor J. W. WELCH, J.P.

HIS WORSHIP THE MAYOR (COUNCILLOR F. C. PETTE, J.P.).

Committee :--

Alderman A. Cooper.

Alderman J. Nugent.

Councillor S. G. Bennett.

Councillor Mrs. L. Burton.

Councillor W. Eckert.

Councillor L. Taylor.

MEMBERS OF THE MATERNITY AND CHILD WELFARE COMMITTEE, 1947-1948.

Chairman:—Councillor MRS, L. BURTON.

HIS WORSHIP THE MAYOR (COUNCILLOR F. C. PETTE, J.P.).

COMMITTEE :--

Alderman A. Cooper.

Alderman J. Nugent.
Councillor Mrs. E. Devenport.
Councillor T. Gent.
Councillor R. R. Kitching.

Councillor Mrs. M. Sagar.
Councillor J. Slater.
Councillor L. Taylor.
Councillor J. W. Welch, J.P.

CO-OPTED MEMBERS :-

Mrs. E. Gaunt, Mrs. M. E. Hewitson, Dr. W. B. Levie.

STAFF OF THE PUBLIC HEALTH DEPARTMENT, 1947.

Medical Officer of Health and Chief Medical Adviser :-

T. LLOYD HUGHES, M.D., Ch.B., D.P.H., Barrister-at-Law. (To 31.10.47). CHARLES L. ELDER, M.B., Ch.B., D.P.H. (From 1.12.47).

Deputy Medical Officer of Health :-

Charles L. Elder, M.B., Ch.B., D.P.H. (To 28.2.47).

A. Menzies, M.B., Ch.B., D.P.H. (From 1.3.47).

Clinical Tuberculosis Officer :-

M. Walton, M.B., B.S., D.P.H.

Assistant Clinical Tuberculosis Officer and Director of Mass Miniature Radiography Unit:—

A. M. Forrest, M.B., Ch.B., D.P.H. (From 1.10.47).

Senior Assistant Medical Officer of Health for Maternity and Child Welfare:

Bethia M. Newlands, M.B., Ch.B., D.P.H.

Assistant Medical Officer of Health for Maternity and Child Welfare :-

Joan B. Crook, M.B., Ch.B. (From 8,1.47 to 12.10.47). Elizabeth Webster, M.B., Ch.B., D.P.H., (From 1.9.47).

Clinical Venereal Diseases Officer:

A. A. WILLIAMS, M.B., B.S., M.R.C.S., M.R.C.P.

MATERNITY HOSPITAL.

Medical Superintendent (Administrative) :-

T. LLOYD HUGHES, M.D., Ch.B., D.P.H., Barrister-at-Law. (To 31.10.47).

CHARLES L. ELDER, M.B., Ch.B., D.P.H. (From 1.12.47).

Consulting Obstetrician :-

G. F. Longbotham, M.B., C.M. (To 12.3.47).
Bryan Williams, M.D., F.R.C.S., F.R.C.O.G. (From 13.3.47).

Resident Medical Officer :M. O. Will, M.B., Ch.B.

Matron :-

H. Kirkbride, S.R.N., S.C.M.

Senior Clerk :--MRS. F. HAWKEN.

MIDDLESBROUGH GENERAL HOSPITAL.

Medical Superintendent :-

T. LLOYD HUGHES, M.D., Ch.B., D.P.H., Barrister-at-Law. (To 27.7.47). E. W. Grahame, M.D., Ch.M., F.R.C.S. (Edin.), F.R.C.S. (Eng.) (From 28.7.47).

Medical Superintendent and Senior Surgeon :-

E. W. Grahame, M.D., Ch.M., F.R.C.S. (Edin.), F.R.C.S. (Eng.) (From 28.7.47).

Senior Surgeon :-

W. Britain Jones, M.B., B.S., M.R.C.S. (To 27.7.47).

Deputy Medical Superintendent and Physician :-

A. Alun Williams, M.B., B.S., M.R.C.S., M.R.C.P.

Resident Medical Officers :-

- J. J. Kinsella, M.B., Ch.B., L.M. (To 7.2.47).
- H. Cambass, L.R.C.P., L.R.C.S., L.R.F.P. and S. (To 6,7.47).
- F. G. Orton, M.B., B.S. (From 20.1.47. To 31.7.47).
- D. Refson, M.B., B.S. (From 31.7.47).

Consulting Ophthalmic Surgeon :— *A.E.P. Parker, f.r.c.s.

*J. B. T. KESWICK, M.B., Ch.B.

*WILLIAM IRWIN, M.B., B.Ch., D.M.R.E.

Consulting Orthopaedic Surgeon :*J. B. Reid, f.r.c.s., M.Ch., Orth.

Consulting Gynaecologist :-

Bryan Williams, M.D., f.R.C.S., f.R.C.O.G. (From 25.3.47).

Consulting Tuberculosis Officer :- M. Walton, M.B., B.S., D.P.H.

Visiting Anaesthetist :-

C. W. Fleischmann, M.B., Ch.B., D.A. (From 25.6.47).

Visiting Psychiatrist :-

T. M. CUTHBERT, M.R.C.S., L.R.C.P., D.P.M.

Visiting Dental Surgeon :-

L. T. DAVIDSON HEPPELL, L.D.S.

Matron :-

Mrs. E. Armett, S.R.N., S.C.M.

Pharmacist :-

G. T. KNIGHT, Phc., M.P.S.

Venereal Diseases Almoner :-

MISS E. A. HODGSON.

Senior Clerk :-

Mrs. E. Louks, f.c.c.s.

HEMLINGTON EMERGENCY HOSPITAL.

Medical Superintendent :-

T. LLOYD HUGHES, M.D., Ch.B., D.P.H., Barrister-at-Law. (To 31.10.47). CHARLES L. ELDER, M.B., Ch.B., D.P.H. (From 1.12.47).

Deputy Medical Superintendent :-

M. D. Leitch, M.B., Ch.B. (To 31.5.47).P. W. Griffin, L.R.C.P. and S., I. (From 7.7.47).

Resident Medical Officers :-

URSULA BARRY, M.B., Ch.B. (To 31.7.47).
M. E. GUEST, M.B., Ch.B. (To 19.7.47).
EILEEN STEEL, M.B., Ch.B. (To 31.7.47).
J. A. SMITH, M.B., Ch.B. (From 1.8.47).
F. G. ORTON, M.B., B.S. (From 1.8.47).
N. H. WASS, M.B., B.A.O. (From 1.10.47).
C. BOYLE, M.B. (To 17.12.47).

Visiting Surgeons :-

*D. C. DICKSON, F.R.C.S. *C. C. McCallum, F.R.C.S.

Orthopaedic Surgeon :-

*J B. Reid, f.r.c.s., M.Ch., Orth.

Physician :-

*J. INKSTER, M.D., F.R.C.P.

Ear, Nose and Throat Surgeon :-

*J. B. T. KESWICK, M.B., Ch.B.

Ophthalmic Surgeon :-

*A. E. P. PARKER, F.R.C.S.

Psychiatrist :-

*M. A. ARCHDALE, M.B., B.S., D.P.H.

Radiologist and Electro-Therapeutist :-

*W. IRWIN, M.B., Ch.B., D.M.R.E.

Anaesthetist :-

*D. N. POWER, M.D.

Dental Surgeon :-

*L. T. DAVIDSON HEPPELL, L.D.S.

Matron :-

MISS D. GARDNER, S.R.N., S.C.M.

Pharmacist :-

G. W. WATCHORN, M.P.S.

Senior Clerk :-

MISS A. WELFORD.

WEST LANE HOSPITAL.

Medical Superintendent :-

T. LLOYD HUGHES, M.D., Ch.B., D.P.H., Barrister-at-Law. (To 31.10.47). CHARLES L. ELDER, M.B., Ch.B., D.P.H. (From 1.12.47).

Deputy Medical Superintendent :-

CHARLES L. ELDER, M.B., Ch.B., D.P.H. (To 28.2.47). A. MENZIES, M.B., Ch.B., D.P.H. (From 1.3.47).

Tuberculosis Physician :-

M. Walton, M.B., B.S., D.P.H.

Resident Medical Officer :-

K. I. BRUCE, M.B., Ch.B.

Matron :-

MRS. B. GARDNER.

Senior Clerk :-

MRS. B. WALLACE.

District Medical Officers and Public Vaccinators :-

E. H. Moseley, M.B., B.S.

C. S. O'HAGAN, M.B., B.S.

Chief Sanitary Inspector :-

HENRY WHITFIELD, Mem.R.S.I., Mem.S.I.A.

Deputy Chief Sanitary Inspector :-

T. E. PETERSON, Mem.R.S.I., Mem.S.I.A.

(To Oct. 1947). TS. E. Ellis.

F/HOLLOWAY. (From May, 1947).

TS. WALKER. (To Feb. 1947).

TF. R. ALLAN.

IL. Himsworth.

D. B. COULL. (To May, 1947).

†K. W. WILLANS.

Shops Inspector :-

R. G. Thompson.

Chief Clerk (Sanitary Department).

P. E. TAGGART.

Veterinary Surgeon :-

*W. G. HAGGIE, M.R.C.V.S.

Borough Analysts :-

*E. W. Jackson, f.i.c.

*A. Scholes, f.i.c.

Health Visitors :-

M. R. White, S.R.N., R.S.C.N., S.C.M., H.V. Cert—(Superintendent),

E. Armstrong, S.R.N., S.C.M., H.V. Cert.

*A. Blackett, S.R.N., S.C.M., H.V. Cert. (To 30.4.47).

M. Buchanan, S.R.N., S.C.M., H.V. Cert.

I. P. Burt, S.R.N., R.F.N., S.C.M., H.V. Cert. (From 16.9.47).

N. COURTNEY, S.R.N., S.C.M., H.V. Cert.

E. Gray, S.R.N., S.C.M., H.V. Cert. (To 31.5.47).

V. Gray, S.R.N., S.C.M., H.V. Cert. (From 1.11.47).

K. M. Imeson, R.S.C.N., S.C.M., H.V. Cert.

M. Marks, S.R.N., S.C.M., H.V. Cert. (To 1.11.47).

I. Mathison, S.R.N., S.C.M., H.V. Cert. (To 31.8.47).

I. Paling, S.L.N., S.C.M., T.A. Cert., H.V. Cert.

Health Department Nurses :-

E. Howard, S.R.N.

G. Lafferty, S.R.N., S.C.M.

E. Wilson, S.R.N., S.C.M.

Tuberculosis Nurses :-

D. E. HALL, S.R.N.

A. S. Haywood, S.R.N., H.V. Cert.

D. COLTHORPE, S.R.N.

Tuberculosis Almoner .:-

FREDA L. McCarthy.

Welfare Centre Attendants.

Mrs. J. M. Craggs. (From 6.1.47).

Mrs. J. Kane. (From 31,5.47).

Infant Life Protection Visitor :-

A. G. COWLEY. (To March, 1947).

Municipal Midwives :-

M. Robinson, S.R.N., S.C.M. (Supervisor).

M. Abbott, S.C.M.

F. Barker, S.C.M.

M. Bell, S.C.M.

M. Brown, S.C.M.

I. Chambers, S.R.N., R.F.N., S.C.M.

H. Clark, S.R.N., S.C.M.

M. Fairbairn, S.C.M.

A. Gibson, s.c.m.

M. K. Halfpenny, S.R.N., S.C.M. (To 31.10.47).

M. L. Harrison, S.R.N., S.C.M. (To 28.2.47).

M. Hatton, S.C.M. (From 1.8.47).

E. Heward, S.R.N., S.C.M. (From 24.10.47).

L. Jackson, S.C.M.

E. Jones, S.R.N., S.C.M. (From 1.5.47).

D. Lewis, S.R.N., R.F.N., S.C.M.

V. Lewis, S.R.N., S.C.M.

E. McIntosh, s.c.m.

C. McKinlay, s.c.m.

B. A. O'CONNELL, S.R.N., S.C.M.

A. Oldham, S.C.M.

E. Peart, S.C.M.

S. J. Scrimgour, S.C.M.

D. Spencer, S.R.N., S.C.M.

C. Stephenson, S.R.N., S.C.M. (From 7.2.47).

K. M. Tiernan, S.R.N., S.C.M.

A. A. Townsend, S.C.M.

S. WETHERALL, S.C.M. (To 31.1.47).

Ambulance Officer :-

ARTHUR G. POOLEY, M.M.

Vaccination Officer :-

J. J. Walsh.

Chief Clerk :-

John W. Rawdon, C.R.S.I.

Senior Clerks :-

W. H. DICKINSON.

S. SMALES.

J. H. CARGILL.

Shorthand Typists and Clerks :-

Miss M. Robson.

Miss G. Hudson.

MISS S. HOLLAND.

MISS M. TIMNEY.

Miss J. C. Woolard.

Miss M. M. O'Rourke. W. D. Surtees.

MISS E. VALLANCE.

MRS. E. TURNER.

Miss I. Andrews.

Miss P. Bell.

Miss T. Brown.

Mrs. J. Cooper.

Mrs. O. Grosvenor.

MISS M. HONEYWELL.

Mrs. E. C. Morphett.

MISS E. WARIN.

^{*-}Part-time.

¹⁻Meat Certificate of R.S.I.

^{†—}Meat Certificate (Scotland).

ANNUAL REPORT of the MEDICAL OFFICER OF HEALTH.

HEALTH DEPARTMENT,
MUNICIPAL BUILDINGS,
MIDDLESBROUGH,
JULY, 1948.

To the Chairman and Members of the Health Committee.

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present to you the Annual Report on the work of the Public Health Department for the year 1947. The Report constitutes work which was done on behalf of the then existing Health, Hospitals and Maternity and Child Welfare Committees, and comes to you as the newly created Health Committee under the National Health Service Act, 1946.

The Committee will appreciate that for the major part of the year the Department was under the direction of the then Medical Officer of Health, Dr. T. Lloyd Hughes, who resigned on the 31st October, 1947, to take up his appointment as Senior Administrative Medical Officer to the Liverpool Regional Hospital Board. I am sure the Committee will join with me in wishing him every success in his new appointment and will express their appreciation of the service he rendered to the various Committees.

Vital statistics are presented and analysed in some detail and comparison made with other areas and previous years.

The birth rate for 1947 was 25.85 per 1,000 population as compared with 24.67 in 1946, and 20.92 in 1945. This represents a substantial increase and a much higher figure than that for England and Wales which is 20.5 nett and for the 126 County Boroughs and great towns which is 23.30 per 1,000 population. This continued increase has resulted in increased strain on the staff at the Maternity Hospital, the Domiciliary Midwifery Service and the Health Visitors. The work at the Maternity Hospital has been particularly onerous due to the lack of accommodation and the Midwives and Health Visitors have suffered because of depleted staffs during the year. Great praise is due to all these Services for the excellent work rendered by all under difficult conditions.

The death rate of 12.77 per 1,000 population showed a slight increase over 1946 when the figure was 12.35. The steady fall experienced since 1940 has, therefore, been arrested.

The maternal mortality rate of 0.55 per 1,000 births is the lowest ever recorded and shows a pleasing reduction from 1.47 per 1,000 births in 1946, and 2.22 per 1,000 births in 1945. It is justifiable to attribute this in no small measure to the improved obstetric facilities recently provided.

The infantile mortality rate of 64 per 1,000 live births, shows an increase on the figure of 56 per 1,000 live births in 1946, but is still the second lowest figure ever recorded in Middlesbrough. The increase over 1946 has been largely attributed to deaths from Infantile Gastro-Enteritis occurring in the first year of life, an outbreak of which affected the town during the year and which was evident to some extent throughout the country. Many of these deaths occurred in the poorer areas of the town and were probably contributed to by the hot, dry summer, the prevalence of flies and the general lacking in hygiene in these areas of the town. Apart from these deaths other causes remained at approximately the same figure as for 1946 and once more reflects great credit on the Maternity and Child Welfare and Hospital Services. Nevertheless one must remember that this figure is 50% higher than the comparable figure for England and Wales and much work remains to be done in industrial areas such as this to reduce the infantile mortality rate, which has not yet reached the lowest to which it can be reduced.

The illegitimate births have decreased from 282 in 1946 to 227 in 1947. It is hoped that the figure for 1946, which was the maximum reached since the onset of the war, will prove to have been the peak figure and that soon we may see a continued reduction. A pre-war figure was 125.

1,204 new cases were treated at the Venereal Diseases Clinic during the year as compared with 1,444 in 1946. Here again, as in the illegitimate births, a reduction has been seen for the first time since the onset of the war and it is hoped that we may be seeing a decreased incidence of this disease. Improved facilities for treatment, extra effort in bringing contacts and others for treatment will probably tend to bring a bigger percentage of actual cases to the Clinic and it may well be that there is a greater diminution in incidence than is represented by these figures.

An increased number of infectious diseases was notified, 5,020 cases being the figure for 1947 as against 3,697 in 1946. The outbreak of Measles experienced during the last three months of 1946 was continued well into 1947 and partly accounts for this increase, the remainder resulting from increased incidence of Scarlet Fever which was of a mild nature and Whooping

Cough. It is pleasing once more to report a fall in the number of cases of Diphtheria, 41 only being notified during the year, resulting in 1 death. The number of notified cases is again a new low record and is undoubtedly due in large measure to the efforts of the Department in fostering immunisation against Diphtheria. Although the number of school children immunised has reached the satisfactory figure of 75% the number of preschool children immunised does not yet exceed 50% and a further appeal must be made to parents to realise that the seriousness of this disease can be almost completely prevented by taking advantage of the facilities offered for immunisation. It is desirable that this should be done as far as possible before children go to school and indeed before they start mixing with mass as of children.

New notifications for Tuberculosis numbered 285 for the year as compared with 245 in 1946 and 238 in 1945. The Tuberculosis death rate was 0.93 per 1,000 population against 0.98 per 1,000 population in 1946. These figures compare unfavourably with the figure for England and Wales which was 0.54 per 1,000 population. Improved diagnostic facilities, increased opportunity for X-Ray examinations and increase in the staff of the Tuberculosis Department may have accounted for the increased number of new notifications, but it is regrettable in this area that many cases are still found too late and many patients are reluctant to accept the facilities offered for treatment in the early stages. The inception of Mass Miniature Radiography will probably initially increase the number of new notifications due to early detection of the disease and it is hoped that there will be sufficient provision of beds so that patients can receive adequate treatment in the early stages of this disease. The segregation of the known positive cases, especially among children, would do much to diminish the incidence of this disease, but it is not always possible to accommodate all such cases and many of the cases are reluctant to enter Sanatoria when they feel that they can no longer be cured. The menace of Tuberculosis will never be overcome until it is appreciated by all sections of the community that this is an infectious disease and until it is treated as such, although much good can be done by the teaching of general hygiene measures to known positive cases who remain at home: nevertheless, it means that in many parts of the town whole families are exposed to concentrated doses of this infection under very poor living conditions.

The general Health Services have continued to function satisfactorily during the year. Many developments which have not been possible due to the difficulties of the times have been incorporated in the proposals submitted under the National Health Service Act.

Although under the National Health Service Act the Hospitals which the Middlesbrough Corporation have administered will be passing to the National Service, services in the Hospitals have been developed wherever possible. Indeed, realising that the transition will be inevitably a difficult one many developments have been speeded up so as to ensure that the Hospital Services will be as efficient as possible before the appointed day.

At the General Hospital, with the retirement of the Senior Surgeon, the Medical Officer of Health relinquished his duties as Administrative Medical Superintendent and Mr. E. W. Grahame was appointed Medical Superintendent and Surgeon and commenced duties on the 28th July, 1947.

In addition to Mr. Grahame, I would welcome to the town's service, Mr. Bryan Williams, who took up duty as Consulting Obstetrician and Gynaecologist. With his arrival in March, 1947, it was possible to set up a Gynaecological Department and a Sterility Clinic at the General Hospital.

Dr. Walton, the Clinical Tuberculosis Officer, with the ready co-operation of the Radiologist, Dr. Irwin, inaugurated a Chest Clinic during the year, which is referred to later in the body of the Report.

The Area Pathological Laboratory, which was inaugurated in 1946, expanded greatly during the year and I am indebted to Dr. Stanley Wray for his report on this Service.

Out-Patient facilities were also afforded Dr. T. M. Cuthbert and Dr. G. McCoull to deal with Psychiatric and Mental Deficiency cases respectively.

Conferences with the Consulting Adviser to the Ministry of Health led to the inception of a Mass Miniature Radiography Unit for Tees-side to be established at the General Hospital and towards the end of the year the first staff appointments to this Unit were made. Courses of training were commenced and the Unit is expected to be ready for use early in 1948.

Preliminary discussions also took place with the Director of the Medical Research Council Laboratory Service towards the establishment in Middlesbrough of a Public Health Laboratory and it is hoped that this Laboratory will be set up at an early date and be established in conjunction with the Area Pathological Laboratory by agreement with the Regional Hospital Board.

It had been hoped to set up Radio-Therapeutic facilities for the treatment of Cancer at the Middlesbrough General Hospital and although discussions had reached a far advanced state, it was eventually decided that this matter should be left to the Regional Hospital Board. I have already referred to the appointment of Mr. Bryan Williams as Obstetrician. Soon after his arrival and in conjunction with the Ambulance Service it was possible to establish an Obstetrical Flying Squad which was made available to the people of Middlesbrough for serious obstetric emergencies. Improved facilities for the nursing staff of the Maternity Hospital were made with the opening of the Eastcote Nurses Home.

At Hemlington Hospital, preliminary steps were taken to reduce the bed state from its war-time figure to modern civilian standards. The ultimate reduction in the bed state of this hospital will probably be from 480 to 200. The hospital continued to be a Training School for Assistant Nurses. With the decreased use of the hospital for military personnel it was possible to make greater use of it for civilian cases and arrangements were made for long stay Local Authority cases to be placed here and in addition facilities were offered to other hospitals in the area to relieve their overcrowded waiting lists.

Little change has taken place in the other Health Services of the town, but brief mention might be made of the inauguration of Training Courses for Student Health Visitors, which is done in collaboration with other Authorities. It is hoped by this means to implement the Health Visiting Staff which has been carrying a heavy burden owing to its lack of numbers.

As will be seen from pages 4 to 10 staff changes took place during the year. Whilst I have made reference to certain new senior appointments, I should like to refer to the retirement of Mr. W. Britain Jones from his position as Senior Surgeon at the General Hospital and also to the retirement of Dr. George F. Longbotham from his position of Consulting Obstetrician to the Maternity Hospital: both these gentlemen had rendered 30 vears service. Their valuable services and unfailing loyalty to their respective Hospitals and to the Public Health Department generally will be greatly missed and every good wish is extended to them in their retirement. It is pleasing to record that they are both able to continue with other duties. I should like to pay my tribute to all members of the staff, medical, nursing and clerical for their loyal and whole-hearted co-operation. The efforts made by them, however, spectacular or otherwise, have contributed in no uncertain measure to the health and happiness of most of the citizens of Middlesbrough.

I also acknowledge most gratefully the interest and support of the Chairman and Members of the Health Committee and of the Chairman and Members of the other Committees of the Council concerned with the work of the Health Department. I would also pay tribute to the ready help and co-operation given at all times by all the chief officials of the Corporation and their staffs.

I am, Mr. Chairman, Ladies and Gentlemen,
Your obedient Servant,

Charles L. Elder

Medical Officer of Health.

SECTION A.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

Area (in acres) incl	uding	173 acr	es o	f tidal w	ater		7,304
Estimated Civilian	Popu	lation (Mid-	1947)			140,460
Number of Inhabite	ed Ho	uses (en	id of	1947)			37,034
Rateable Value							£768,041
Product of a penny	rate						00.010
Number of Live Di	mela .						
Number of Live Bi	runs			Male	Fem	ale	Total
Legitimate &	Illeg	itimate				43	3,631
Illegitimate	_			132		95	227
N C CUIL D	41						
Number of Still Bir	tns-						
Legitimate &	t Illeg	itimate		61		50	111
Illegitimate				- 3		6	9
Deaths: Registere	d			1,089	8	35	1,924
Nett				1,022	7	71	1,793
Deaths from :—							
Typhoid and I	araty	phoid F	ever	·s			_
Measles							6
Scarlet Fever							-
Whooping Cou	gh						1
Diphtheria							1
Influenza							18
Violence							51
Diarrhoea (uno	ler 2 y	vears)					52
Cancer							270
Deaths (under 1 ye	ar) :			Male	Fem	ale	Total
Legitimate				130		89	219
Illegitimate				4		9	13
Total				134		98	232

Birth Rates and Death Rates, 1	947.	196	County
	Middlesbrough	England Bor	oughs &
Rate per 1,000 Population :-	Alderon one		
Live Births	25.85	20.5	23.3
Still-births	0.79	0.50	0.62
Annual Death Rate per 1,000 Population :—			
All causes	12.77	12.0	13.0
Typhoid and Paratyphoid Fevers	0.00	0.00	0.00
	0.00	0.00	0.00
Smallpox Measles	0.01	0.01	0.02
Measles	0.00	0.00	0.00
Diphtheria	0.00	0.01	0.01
Influenza	0.13	0.09	0.09
Whooping Cough	0.00	0.02	0.03
Diarrhoea and Enteritis (under 2 years) Maternal Mortality Rate per 1,000 Total Births:— Puerperal Sepsis and post Other puerperal causes All puerperal causes	14.32 abort	5.8 0.16 1.01 1.17	8.0
Death Rate of Infants under	one year of a	ge :	
All infants per 1,000 live birth Legitimate infants per 1,000 leg live births	s 64 ritimate 64	41*	47
Illegitimate infants per 1,000 illegitimate live births	57		
Comparative Rates:			
Birth Rate (live births)	-25.85	20.5	23.3
Death Rate	12.77		13.0
Infant Mortality Rate	64	41	47
Maternal Mortality Rate	.55	1.17	

Notifications.—Rates per 1,000 Civilian Population.

		Middlesbrough	England and Wales	126 County Boroughs and Great Towns including London
Typhoid Fe Paratyphoid Cerebro Spin Scarlet Feve Whooping C Diphtheria Erysipelas Smallpox Measles Pneumonia	l Fever nal Fever	0.16 3.71 2.32 0.29 0.23 19.61 11.82	0.01 0.01 0.05 1.37 2.22 0.13 0.19 0.00 9.41 0.79	0.01 0.01 0.06 1.54 2.41 0.15 0.21 0.00 9.13 0.89
Rates per 1,0 Births (Liv Puerperal Fe	re & Still).	16.30	7.16	8.99

WARD STATISTICS.

Ward		No. of cases of Infectious Disease per 1,000 population	Death Rate	Birth Rate	Infant Mortality Rate
Ayresome		31.16	11.28	24.55	60
Acklam		28.04	12.47	19.19	55
Cannon		45.76	13.57	32.64	79
Cleveland		45.70	12.25	29.70	79
Exchange		37.47	14.08	27.12	60
Grove Hill		31.26	11.58	21.49	33
Linthorpe		25.61	10.84	16.85	37
Newport		43.56	14.30	33.85	84
Ormesby		41.30	12.28	29.32	56
Rt. Hilda's		42.53	17.48	30.88	69
Vulcan		41.53	13.95	26.35	97

ANALYSIS OF VITAL STATISTICS.

- The estimated population for 1947 is 140,460, which is an increase of 2,730 on that for the year 1946.
- (2) Live births increased during the year to a figure of 3,631 as compared with 3,398 for 1946. The birth rate is, therefore, 25.85 per 1,000 population as compared with 24.67 for 1946, and is considerably higher than the figure for England and Wales and also for that in respect of the 126 County Boroughs and great towns.

(3) The death rate has increased slightly for 1947, the rate being 12.77 per 1,000 population as compared with 12.35 for 1946. There were 92 more deaths in 1947 than in 1946.

- (4) The maternal mortality rate is 0.55 per 1,000 births as compared with 1.47 in 1946.
- (5) The number of deaths from Cancer is 270 as compared with 232 for 1946.
- (6) The infantile mortality rate of 64 per 1,000 live births shows an increase upon the figure for 1946 which was 56 per 1,000. This compares unfavourably with the figure for England and Wales which is 41 per 1,000 and with the figure for the 126 County Boroughs and great towns which is 47 per 1,000. There were 232 deaths in 1947, in infants under the age of one year as compared with 216 in 1946. 117 of these deaths were in the neo-natal period or first four weeks of life.

Prematurity again accounted for a large percentage of these neo-natal deaths, there being 52 cases in this category. It is hoped that in the near future it will be possible to establish a Paediatric Department in Middlesbrough which, in collaboration with the Obstetricians, might help to reduce this very grave problem. Taking the infantile mortality figures as a whole, apart from prematurity, the main causes of death were:

N.B.—Very often these diseases simulate one another in infancy, many of the cases of Gastro Enteritis succumbing terminally in a condition resembling Broncho-Pneumonia.

It seems probable that much of this preventable infant mortality could be avoided when environmental circumstances and housing conditions are improved. The raising of the economic status of the family and improved knowledge of hygiene and a higher standard of infant care and feeding would do much to prevent many of these infant deaths. Extended facilities for Mothercraft teaching, increased Health Visiting staffs and Health Education will all play their part, but it is felt that the greatest single factor will be the early provision of better housing conditions for the people.

MIDDLESBROUGH GENERAL HOSPITAL.

Mr. Ernest W. Grahame, Medical Superintendent and Surgeon, reports:—

There was a great increase in the number of admissions to the Middlesbrough General Hospital during the year 1947 amounting to no less than 20% more than in 1946. Most of the patients were in hospital for periods of less than four weeks showing that the nature of the work was becoming more acute. In order to make room for the acute sick, it was necessary to reduce the number of infirm patients and to start a waiting list for all types of patients when the shortage of hospital beds became apparent.

This figure was made worse by the shortage of nursing staff which reached a very low level in the Autumn of 1947. One ward was closed and others were kept open with difficulty. Towards the end of the year, there was a better intake of Student Nurses and at the end of the year the position was more satisfactory.

The increase in the work of the hospital was shared by all departments, i.e., Out-Patient, X-Ray, Physiotherapy and Theatre. The medical and surgical out-patient clinics were re-organised and the minor cases separated from them. The appointment of Mr. Bryan Williams as Gynaecologist resulted in completely new Out-Patient and In-Patient Departments with very large attendances.

The opening of the new Physiotherapy Department gave greatly improved accommodation to a rapidly expanding department and offered better facilities for both patients and staff. Certain structural improvements are still needed in this department.

The setting up of the Area Pathological Laboratory in the hospital filled a very big gap in the medical services, not only of the hospital, but of the whole area.

The re-grouping of the wards led to increased efficiency in the hospital.

Many serious structural deficiencies still remain in the hospital, but before embarking on any alterations, it would be necessary for the plans of the Regional Hospital Board to be formulated with regard to the various hospitals in Middlesbrough and a decision reached as to what particular use is to be made of existing buildings.

In conclusion, Mr. Grahame pays tribute to the co-operation of the staff at the hospital, especially in the difficult period of the year when there was an acute shortage of nurses.

Admissions:— Total number of admissions (including		
infants born in Hospital)		3,612
MORTALITY:-		330
Total number of deaths		550
DISCHARGES:-		3,252
Total Italianos of another S		0,202
DURATION OF STAY OF PATIENTS DISCHARGED OR DIED:—		
(1) Under rour weeks	,830	
(2) Four weeks and under emission	631	
(3) Thirteen weeks or more	121	
OCCUPIED BEDS:-		200
(a) Average during the jour		209
(b) Highest number, 254 on 25th November, 1947	7.	
(c) Lowest number, 156 on 1st January, 1947.		
THE TRAINING OF NURSES :-		
The Examination results are as follows:—		
STATE FINAL EXAMINATION PASSED BY 6 CAN	NDID	ATES.
STATE PRELIMINARY EXAMINATION:		
Parts 1 and 2 passed by 3 Candidates.		
Part 1 passed by 2 Candidates.		
Part 2 passed by 9 Candidates.		
DENTAL DEPARTMENT:	1	947.
Number of individuals seen		
Number of attendances for treatment	••	640
EAR, NOSE AND THROAT DEPARTMENT :-		
Number of cases dealt with during the year		505
Number of attendances		635
Number of operations		428
OPHTHALMIC DEPARTMENT:-		
Number of cases seen during the year		204
Number of attendances		295
Operations performed		31

		3.3			
ORTHOPAEDIC D	EPARTMENT :				
	seen				999
Number o	f attendances				749
Number o	f operations				143
					00
GYNAECOLOGICAL	DEPARTMENT	:			
Patients	seen				439
Number	of attendances				772
Number	of operations	* *			20
STERILITY CLINIC	:				
Patients	seen				54
Number	of attendances				88
MINOR AILMENTS					
The Minor Assistance of the Mi	ma cases sent	by Dis	discha	morad	nationts f
Number of	patients seen				1 204
Number of	attendances				
					0,202
X-RAY AND ELEC					
Dr. Irwin, M. Departments, whi one being in char pupil Radiographe Department.	ge of A-Kay I	Denarta	specia	lly tra	ained Sisters,
The equipment	t includes :				
(1) A Diagno:	stic X-ray App	aratus.			
	rapy Apparatu			tmen	t of Cancer
(3) Other ele Infra Red Ionisation	ectrical equip Ray, Ultra Vi and treatmen	ment, iolet, R t by I	i.e., 1 ladiant laradisn	Kroma Heat	yer Lamp, Diathermy.
Number of]	patients seen				4,378
Number of a	attendances				
Treatments wer	re given as fol	lows :-	_		
X-RAY DEPARTMENT	NT :				
	creenings				0.540
Treatments					9,542
					194

DEEP THERAPY DEPARTMENT :-			
Treatments			736
ELECTRO-THERAPEUTIC DEPARTME	NT:-	-	
Diathermy Treatments			 524
Stimulations			 452
Radiant Heat			 790
Short Wave Therapy			 368
Infra Red Ray Treatments			 120
Massage			 970
Remedial Exercises		:.	 478
SUNLIGHT DEPARTMENT:-			
Treatments			 1,733

OPERATIONS :-

The number of major surgical operations performed under general anaesthetic (excluding dental, ear, nose and throat, and ophthalmic operations) was 418. Of these, 297 were abdominal sections.

HEMLINGTON EMERGENCY HOSPITAL.

This Emergency Hospital continued to function during the year, but gradually throughout the year there was seen an alteration in the type of patient being admitted. The number of service patients diminished and more and more use of the hospital was made by civilian sick. During the year the bed state was reduced from its overcrowded war-time figure of 480 to 280, allowing of better spacing between beds.

The hospital continued to be recognised by the General Nursing Council as a Training School for Assistant Nurses, but difficulty was still experienced during the year in obtaining a sufficiency of nursing staff to keep even the reduced number of beds open. Broadly speaking, the hospital probably worked to about 50% of its capacity and providing sufficient nursing staff can be obtained, will undoubtedly be a very important and valuable addition to the hospital resources of this area.

Transport to the hospital is still proving to be a difficulty, both for the public and the nursing staff, many of whom are non-resident. Steps are being taken to improve transport for the public and a special vehicle is being obtained for the transport of nursing staff.

Tribute should be paid to Dr. M. D. Leitch who retired from his position as Deputy Medical Superintendent on the 31st May, 1947, and to his successor Dr. P. W. Griffin, who commenced on the 7th July, 1947, and to the Matron and her nursing staff, who have done much to make this hospital popular with the public.

From the following figures it will be seen that the volume of work undertaken during the year has been considerable.

Service	Patients	in Hospita	al, 1st	Janua	ry, 1947	7	 41
2.5	25	Admitted					 293
33	,,	Discharge	d to I	Inits			 282
77	,,	Discharge Mercl	d to E	Iome A Navy	Address,		 3
"	,,	Discharge On L	d to E		Address,		 12
**	"	Discharge Leave	d Hon	ne on I			5
**	,,	Transferre	d				 13
11	35	Boarded					 10
22	,,	Deaths					
>1	,,	Remaining	g in H				• •
		1948					 9

Ministry o	of Pensions'	Patients	in Hospital 1947	l, 1st Ja	nuary,		9
			Admitted				8
"	,, ,,	,,	Discharged				16
22	,, ,,		Remaining		nital		-
,,	22 22	31		nuary,			1
Transferre	ed Civilian	Sick in He	ospital, 1st	January	, 1947		28
,,	,,	,, Adm	issions (L.C	.C.)			
,,	77	,, Adm	issions (Hul	ll Area)			4
,,	,,	,, Disc	harged to H	lome Ac	ldress		2
,,	,,	,, Tran	sferred				10
,,	,,	,, Deat	hs				2
,,,	,,		aining in H	ospital,			
- 11		**	1st January	7, 1948			18
Civilian I	Patients in	Hospital,	1st January	7, 1947			29
,,		mitted					405
**		scharged t	o Home Ad	ldress			352
		ansferred					6
"	Die		o W.L.A. F	Hostel,			
"	,,		y				5
,,							2
,,	,, Re		n Hospital,	1st Jan	uary,		00
		1948					69
Admissio	ns during 1	947					710
Discharge	es during 19)47				* *	716
	uring 1947						4
Number	of Operatio	ns during	1947				502
Number	of Out-Pati	ents duri	ng 1947				178
Average	daily numb	er of occu	pied beds		(da	ys)	38
	daily numb						103

Civilian Patients remaining in Hospital, 1st January, 1948, include:—

- 40 Tuberculosis Dispensary Cases.
- 21 North Ormesby Hospital Contributors.
 - 1 Eston Hospital Contributor.
 - 6 Middlesbrough General Hospital Cases.
- 1 War Worker.
- 18 Transferred Civilian. (16 L.C.C. and 2 Hull Area).
- 1 Ministry of Pensions' Case.

- Dental Department:—
 47 patients received 68 treatments.
- Ear, Nose and Throat Department:— 52 patients received 60 treatments.
- OPHTHALMIC DEPARTMENT:—
 5 patients received 6 treatments.
- X-RAY DEPARTMENT:—
 514 patients received attention.
 1,094 films and screenings.
 122 screenings.
- Physiotherapy and Rehabilitation Department:—
 142 patients received 2,909 treatments.
- OCCUPATIONAL THERAPY DEPARTMENT:— 316 patients made 937 articles.

LABORATORY FACILITIES.

Whilst, in the main, general pathological work is carried out in a small way at each of the local hospitals, the setting up of the Area Pathological Laboratory at the General Hospital has filled a long felt want in this area and has meant the sending to this Laboratory of the major hospital pathology in this district. The Public Health Laboratory at Northallerton has continued to function in its particular sphere and all specimens of a public health nature have been sent to this laboratory. It is hoped that during 1948, it will be possible to set up a Public Health Laboratory in Middlesbrough in conjunction with the Area Pathological Laboratory.

I am indebted to Dr. F. J. Hallinan for the following figures of specimens sent to the Public Health Laboratory, Northallerton, from the Middlesbrough area, which shows the volume of work being done by this laboratory for this area:—

Throat and	Nasal S	wabs		 	3,342
Faecal and I	Rectal S	wabs		 	629
Urine				 	101
Blood				 	262
Milk: 314 G	raded,	6 Ungr	aded	 	320
Miscellaneou	s			 	1,464

I am indebted also to Dr. Stanley Wray, Pathologist in charge of the Area Pathological Laboratory for the following report on the work of his Laboratory:—

"In April, 1947, the new Laboratory at the General Hospital was opened for use. Since then the year has been one of achievement and progress.

In the early stages of the new Laboratory, work was undertaken chiefly for the General Hospital, but then as expansion proved possible, other hospitals in the district asked for our assistance. Thanks to the loyal help given by the Local Authority and in particular, the Medical Officer of Health, at first Dr. Lloyd Hughes and later Dr. Elder, and to a very hard working and conscientious staff, all these requests were met. By the end of the year we were serving seventeen hospitals and institutions within an area of approximately 30 miles of Middlesbrough in addition to a growing domiciliary service. From very humble beginnings we achieved a monthly output by the end of the year of 7,681 units in the Hospital Laboratory itself and became responsible for 2,490 units in subsidiary Laboratories. This amount of work corresponds to a monthly average of 2,500 specimens examined.

During this development stage, we have also examined blood for grouping and Rhesus factor from all ante-natal patients from the Maternity Hospital and some of the Clinics in the district. This is an important step forward and is amply justifying itself. We hope to be able to go further with this scheme in the near future.

A great advance has been made with the Transfusion Service for this Area. The Laboratory has now been made responsible for this by the Regional Transfusion Service and has been equipped with one of the most modern refrigerator units. The main Blood Bank is now held at the General Hospital. Smaller banks are kept at the other larger hospitals in the district. This service works in close co-operation with the "Flying Squad" already established at the Municipal Maternity Hospital.

A further considerable benefit has been afforded the Coroners in and around Middlesbrough for investigations of medical legal problems. This service has been used to the full.

The investigations for the Special Treatment Centre are also now carried out in the Central Laboratory, which has been appointed as an approved Centre for this work by the Ministry of Health.

Plans are being made for the further extension, not only of the Central Laboratory service, both in scope and building, but also in the subsidiary laboratories served by this organisation. By this means, we hope to achieve a more intimate co-operation between the hospitals staffs and the pathological service.

We can be justly proud of our combined achievements during this past year and look forward to further developing the amount and scope of work in the coming year."

Chemical analyses continued to be carried out by the Borough Analysts, Messrs. Jackson and Scholes.

Bacteriological and chemical examinations of samples of water were also carried out at the Tees Valley Water Board's Laboratories by Dr. E. V. Suckling of the Counties Public Health Laboratory.

Details of water examination are referred in the section devoted to Water Supply on pages 55 to 57.

TREATMENT AT SPECIAL CENTRES.

During the year continued use was made of the facilities offered to patients in the Middlesbrough area to receive specialist treatment at Special Centres where facilities did not exist locally. These facilities have been much appreciated by medical practitioners and patients alike.

I append a statement of the number of people referred to such centres.

			Male	Female	Т	otal
Shotley Bridge Emergency Hospital	Thoracic Surgery	y	15	7		22
Shotley Bridge Emergency Hospital and the Royal Victoria Infirmary	Cancer		15	19		34
Royal Victoria Infirmary	Plastic Surgery Surgery Dermatology			3 1		5 1
Newcastle General Hospital	Neuro-surgery Genito-urinary			17 1		47 1
	Total		62	48		110

NURSING HOMES.

	No. of	No. of	beds provid			
	Homes	Maternity	Others	Total		
Homes first registered during the year	Nil.					
Homes on the Register the end of the year	r at 1	8		8		

The only Nursing Home registered is the Ascot Nursing Home which has been inspected and found to comply with the Regulations.

Exemption from registration was granted in the case of the North Riding Infirmary, the North Ormesby Hospital and the Carter Bequest Hospital.

MENTAL DEFECTIVES.

The Middlesbrough Corporation is a partner in the Prudhoe Hall Colony Joint Board. On the 31st December, 1947, 128 Mental Defectives were in residence there. The Education Committee have a Special School for Mental Defectives at which 66 Boys and 82 Girls are in attendance. Other mental defectives were receiving institutional treatment on the 31st December, 1947, as follows:—

Holgate Institution					5
Rampton State Instit					4
					4
West Hartlepool Publ	ic Assis	tance I	nstitut	ion	2
St. Joseph's Home					2
Moss Side Institution					3
Etloe House					1
Royal Albert Institut					
Feld Heath House					1
Whittingham Hall					2
Monkton Hall Home					1
South Shields Public A					
Bishop Auckland Pub					1
Harton Institution					1
Howbeck House					2
Number of Patients on Licen	ce at the	e end o	f the ve	ear we	re :
From Prudhoe Ha				14	
Lisieux Hall				1	
	Total			15	
After Com. D. : 11					

After-Care.—During the year "After Care" visiting was undertaken by the Local Voluntary Association in the case of the following patients:—

Males		 187
Females		 154
Tota	al	341

Upon investigation the following Patients were found to be :-

		Male.	Female.
		-	-
Working	 	123	72
At home, not working		19	51
Unemployable	 	31	22
In H. M. Forces	 	4	1
Not Known	 	4	7
M. Navy	 	3	
Imbecile	 	2	
Evacuated	 	1	
Land Army	 		1
Total	 ۸.	187	154

Occupation Centre.

During the year, 17 patients were employed at the Occupation Centre, viz., 15 Males and 2 Females.

INSULIN.

The scheme of supplying Insulin to diabetics is becoming more widely known and during the year there were 15 new applicants. There are now 30 patients taking advantage of the facilities afforded.

MATERNITY AND CHILD WELFARE.

MUNICIPAL MATERNITY HOSPITAL.

The Municipal Maternity Hospital situated in Park Road North, provides the following accommodation:—

Number of Materr	nity	beds	 	 50
Ante-Natal beds			 	 5
Isolation beds			 	 3

The following figures outline the work carried out at the Hospital during the year :—

Total number of Maternity ca	ses admit	tted		1,485
Ante-Natal cases admitted				234
Total number of deliveries :	Live Bi Still bir			1,154 91
Total number delivered by n	nidwives			1,108
Total number delivered by	loctors			137
Average duration of stay of ca	ases in ho	spital	:	
(a) in ante-natal beds				5.3 days
(b) in lying-in wards				12.03 days.
Number of cases notified as P	uerperal	Pyrex	ia	44
Number of cases notified as P	emphigus			9
Number of cases notified as O	phthalmia	a Neon	nator	um 2

It will be seen from the above that the pressure on the beds referred to in previous reports has been maintained during the year.

Maternal deaths

The priority system, whereby cases are admitted only if they come within certain categories has been continued so that the accommodation at the hospital is put to the best possible use.

The types of cases admitted are :-

- (a) Abnormal Cases.
- (b) Cases requiring Caesarean section.
 - (c) Cases where home circumstances are unsatisfactory.
 - (d) Primiparae.

Whilst the position cannot be completely eased until extensions are built, initial steps were taken to set up a Maternity Annexe at Hemlington Hospital and it is hoped that this will be open and available for use in 1948. More and more use has been made of the hospital for emergency admissions of patients from outside Authorities and the following table is of interest to show the increase which has taken place over the last 9 years in such admissions from the North Riding area and from Thornaby.

North Riding.	Thornaby
	-
52	
48	8
82	10
114	11
108	9
112	16
155	25
154	22
170	48
	52 48 82 114 108 112 155 154

It is hoped that when the Regional Hospital Board take over in 1948, consideration will be given to the needs of Middlesbrough patients for this hospital and that no greatly increased use of it by outside Authorities will be encouraged until more beds are available. Otherwise it might mean that the citizens of Middlesbrough who had the foresight to provide this hospital for themselves may suffer severely due to the lack of facilities available in surrounding Authorities' areas.

Reference has already been made to the retirement of Dr. G. F. Longbotham and to the appointment of Mr. Bryan Williams, but it is appropriate at this point once more to pay tribute to the work of both these gentlemen at the hospital and to the untiring efforts of the Matron.

ANTE-NATAL CLINICS.

Ante-Natal Clinics continued to be held at the hospital four mornings weekly. Patients booked for delivery at the hospital attended regularly as required by the Medical Officer. Women who are being confined at home by Municipal or Private Midwives are also sent by arrangement.

Number of attendances :—	First Visits	 1,258.
	Revisits	 7,563

Of the number of mothers in Middlesbrough who gave birth to children during the year 33.97% paid at least one visit to the Hospital Ante-natal Clinic.

POST NATAL CLINICS.

The Post-Natal Clinic is held at the Hospital on one afternoon per week. The total number of attendances during the year was 793 which is a pleasing increase on the figure for 1946 of 536.

Caesa	rean Sections.						
	Number of Caesarean s	ections	during	1047			49
	Booked cases	ccions	during	1341		-	43
	Middlesbrough emergen	oioe				27	
	North Riding emergenc	ine				6	
	Thornaby emergencies	108				8	
	, consequences					2	
Mater	nal Deaths.						
	Number of maternal de	aths					1
	Cause: Shock and exha difficult labour	austion					
Still b	irths.						
	Number of still births						
					٠.		91
	Causes :						
(a)	Maternal health and F	Rhesus	Factors	3.			
	Toxaemia					20	
	Eclampsia					2	
	Toxaemia and Anaemia					2	
	Severe Anaemia					ĩ	
	Advanced heart disease,	toxaei	nia and				
	anaemia					1	
	Heart disease					1	
	Coal-gas poisoning					1	
	Syphilis					1	
	Rhesus Factor:					5	
(b)	Obstetrical Complication	n Facto	or.				
	Placenta Praevia					-	
	Unexplained ante-partur	n haen	orrham			7	
	Premature separation of	placen	ta.			4	
	Prolapse of Cord	Patroca	· ·			1	
	Cord round the neck					3	
	Operation on cervix dur	ing pre	gnancy			1	
	Asphyxia due to inspissa	tion of	mucus	in		1	
	uterus					1	
	Forceps delivery					1	
	Malpresentations					10	
	Breech			6			
	Transverse Face			2			
				1			
	Occipito-posterior			1			

(c)	Infant Factor. Abnormalities	 		 10
	Hydrocephaly	 	7	
	Anencephaly	 	3	
	Prematurity	 		 5
(d)	Combined Factors.			
	Toxaemia of a of infant Toxaemia of a	 		 3
(e)	Unknown Factor. Unknown Cau			 9

These figures show that exclusive of the Rhesus factor 31.87% of still-births were due to the condition of the mother's health during pregnancy; toxaemia of varying degrees of severity being the chief complaint. To account for the incidence of toxaemia would require precise information on the mother's previous medical history, her home circumstances, her diet during pregnancy and details of ante-natal care.

An effort has been made to collect information on this latter factor, but it has not been possible in about one-third of the cases to obtain a satisfactory record of ante-natal care as the patients were admitted to the Hospital from areas outside the Borough. Of the local cases two-thirds did not have adequate supervision in the ante-natal period chiefly because they failed to attend ante-natal clinics when asked to, or because they disregarded the advice given. In the remainder it seemed impossible to prevent the onset of toxaemia or there was some complication which contributed to the still-birth.

Neo-Natal deaths.			-
Number of Neo-Natal deaths		 	35
Certified causes of death.			
Prematurity		 	15
Prematurity and Atelectasis		 	2
Causes Unknown		 	6
Causes Known		 	11
Placenta praveia		 	4
Toxaemia of Pregnancy	7	 	1
Chronic Renal Disease		 	2
Thyrotoxicosis in Moth	er	 	1
Twin Pregnancy		 	2
Fall at 26 weeks		 	1

Atelectasis							7
Cerebral Haeme	orrhage	e					4
Forceps Prolonge	Delive d Lab	ry				2	*
Rupture	or Ane	eurysm	of Circ	le of W	illis	1	
Congenital Hear							2
Circulatory Fail	ure						1
Asphyxia							2
Asphyxia Inhalatio	Pallie n of L	da due	to prob	apsed e	ord	1	-
Haemorrhagic I	Disease	of the	New B	orn		1.	,
Erythroblastosis			TICH D	orn			1
Ely ell'oblastosis	s roets	alis					ł
Puerperal Pyrexia							44
Ophthalmia Neonatorui	m						2
Pemphigus							0

Puerperal Pyrexia.

Of the forty-four cases of Puerperal Pyrexia notified from the Municipal Maternity Hospital, thirty-six were Borough residents and eight were from outside areas. Thirty-four of the local cases were delivered in the Hospital and two were admitted after delivery. Nineteen cases were transferred from the Maternity Hospital to West Lane Fever Hospital, two to the General Hospital and one to St. Luke's Hospital.

The table given below shows the variety of causes of pyrexia, or rise of temperature, in the cases notified. The number transferred to the Fever Hospital represents those cases in which a true infection was suspected and where in the interests of the other patients in the Maternity Hospital removal had to be carried out.

In fourteen of those cases examination by bacteriological methods was carried out, but in only six cases was there proof of any infecting organism including one causing an intestinal infection from which the patient had suffered before admission.

The incidence of pyrexia—42 cases out of the 1,245 actually delivered in the hospital or 3.37% is not a high one, as in many cases, it was an inevitable reaction to some complication. One has to take into account also the emergency nature of a considerable proportion of the work, and the fact that cases may have been infected before admission.

Causes of Pyrexia :-Endometritis Pelvic Cellulitis Pelvic Peritonitis, Ruptured Salpinx ... Breech, Ante-partum Haemorrhage Local Sepsis . . Thrombosis of Pelvic Veins Small Embolus from Leg Hydronephrosis and Bacillus Coli Infection Metritis and Mastitis Severe Anaemia, Blood Transfusion Toxaemia and Accidental Haemorrhage, Blood Transfusion ... Heart Disease, Anaemia, Toxaemia, Accidental Haemorrhage Retained Placenta, Blood Transfusion Pneumonia Food Poisoning Puerperal Mania ... Episiotomy Difficult Delivery Breech Forceps Caesarean Section, Obstructed Labour Undetermined Causes Bacteriological Findings. H. S. Group A. 3 H. S. & B. Coli . . 1 . . Staph. Aureus . . . Salmonella Typhi-Muriun 1

MIDWIFERY.

Midwives.

The number of Midwives who in January, 1947, notified their intention to practise in Middlesbrough was 52. This number included the Supervisor of Domiciliary Midwives, one part-time domiciliary midwife, 6 in private practice, 13 on the staff of the Municipal Maternity Hospital and 10 on the staff of the Middlesbrough General Hospital.

Out of a total number of 3,745 births notified in the area, 3,426 were attended by midwives. In the remaining 319 cases the midwives acted as maternity nurses. The number of cases in which Medical Aid was summoned by district midwives under Section 14 (I) of the Midwives Act, 1918, was 600.

Domiciliary Midwifery Service.

At the beginning of the year, there were 22 domiciliary midwives including one employed part-time and one Supervisor of Midwives. During the year, 3 midwives resigned and 5 were appointed, making a total at the end of the year of 24 midwives and one Supervisor.

The services of the midwives were again allocated to six districts, thus:—

North Ormesby and Brambles F.	arm	
Estate		 4 midwives
Central Town District		 5 ,,
Newport and Cannon District .		 8 ,,
Ayresome and Linthorpe District	t	
Acklam District		 2 ,,
Grove Hill District		
Total number of Bookings		 2,451
Total number of Deliveries		 2,175

The total establishment of midwives provided for was 26, exclusive of the Supervisor, but at no time during the year was this number of staff reached. The maximum number at any one time was 24 and then only for a period of five months.

Had this figure pertained throughout the year, the average number of deliveries per midwife would have been 95. In actual fact the work was rather heavier during the first half of the year when the number of staff was 21 or 22, than when there was an increase to 24. The average number of deliveries per annum per midwife was too much in excess of the figure 66 recommended by the Rushcliffe Committee as to allow for adequate ante-natal care as well as attention at confinements.

Deliveries by Midwlves during 1947.

Domiciliary Midwiy	es		 2,175
Maternity Hospital		vives	 1,108
Private Midwives			 143
To	otal		 3,426

Attendances at Deliveries acting as Maternity Nurses.

Domiciliary Midwives	 124
Maternity Hospital Midwives	 137
Private Midwives	 27
Midwives in other Institutions	 31
Total	 319

Puerperal Pyrexia.

The number of cases of Puerperal Pyrexia occurring in mothers delivered on the Borough districts was 17. Thirteen of the patients were admitted to West Lane Fever Hospital, one to the Middlesbrough General Hospital from which she was transferred to West Lane, three were nursed in their homes, two of the latter by Municipal Midwives and the other by a nurse from the District Nursing Association.

The causes of the pyrexia have been classified as follows :-

Endometritis				5			
Pelvic Cellulitis				1			
Local Sepsis				1			
Ragged Membranes				2			
Acute Mastitis				1			
Coryza				1			
Influenza				1			
Administration of S	Administration of Sulphonamide						
Difficult Delivery (Forcep	s)		1			
Undetermined Caus	ses			3			

Of the fourteen cases admitted to West Lane Fever Hospital bacteriological examination was carried out in seven cases, with the result that a definite causative infection was found in five cases.

As there were 2,278 mothers delivered on the districts including the two admitted to West Lane Fever Hospital immediately after delivery the incidence of pyrexia among the domiciliary cases was 0.75%.

Bact	eriological Findings.					
	H. S. and B. Coli.				1	
	H. S. Group A.					
	Staph. Alb					
	B. Coli.				2	
					1	
					5	
Still	Births.					
	Total number of Still Bir	eths in	the B	orong	h	140
	Number already recorded Municipal Materni	d unde	er	orong		9
	Number of Still Births in	the I	District	8		4:
						4
Ca	uses :—					
	(a) Maternal Health fact	or :-				
	Toxaemia of Moth	er			2	
	General ill-health	of Mot	ther		3	
	Syphilis				1	
	(b) Obstetrical Complica	tion F	actor :	22.52		
	Prolapse of Cord				1	
	Short Cord				1	
	Cord round Neck				3	
	Pressure on Cord Forceps Delivery .				1	
	Malpresentations		* *		7	
	Breech			5	,	
	Breech with Cor	d		0		
	round Neck			1		
	Occipito-posterio					
	Forceps Del	ivery		1		
	(c) Infant Factor :-					
	Malformation				8	
	Anencephaly			3		
	Hydrocephaly			3		
	Hydrocephaly					
	Spina Bifi Enlarged			1		
	Prematurity .	TMAGE		1		
					3	
	(d) Unknown Factor:—					
	Unknown Causes				10	

Neo-Natal Deaths.

ico-manar Bourney		
Total Number of Neo-Natal Deaths in the B	orough	117
Number already recorded under Municipal		
Maternity Hospital		35
Number of Neo-Natal Deaths in the District	s	82
Certified Causes of Death :—		
	-0	
Prematurity	52	
Causes Unknown	27	
Causes Known	25	
Cardiac Failure in Mother 2 Pneumonia in Mother 3		
Bronchiectasis in Mother 1		
Infective Hepatitis in		
mother 1		
Fall during Pregnancy 1		
Haemorrhage during		
Pregnancy 2		
Twin Pregnancy 15		
A to To a to a line	9	
Atelectasis	-	
Cerebral Haemorrhage following	4	
Birth Injury	2	
Congenital Heart Disease	4	
Broncho-pneumonia	2	
Haemorrhagic Disease of the New-born		
Erythroblastosis Foetalis	3	
Congenital Syphilis,		
Cirrhosis of Liver	1	
Gastro-Enteritis	3	
Pemphigus Neonatorum with		
Gastro-Enteritis	1	
Ophthalmia Neonatorum with		
Marasmus	1	
Laryngismus Stridulus	1	
Asphyxia due to inattention		
at Birth	1	
Jaundice	1	
Congenital Malformations	4	
Unspecified 1		
Spina Bifida 2		
Cleft Palate and Dropsy 1		

Deaths in the Neo-Natal period, that is within the first four weeks of life, accounted for 47% of the deaths of infants under one year, a decrease of 18% on the percentage in 1946. Of these neo-natal deaths, prematurity was the certified cause in 57%. in 57%.

Maternal Deaths.

Total	Number	of M	Iaternal	Deat	hs in	the		
	Borough							3
Numb	er alread	y rec	orded	under	Munio	cipal		
Numb	Maternity	Hosp	latic				1	
Numbe	er of Mate er of Ma	aterna	Deat	hs in	Hosp	itals	1	
	other than	n the l	Materni	ty Hos	pital		1	

One of these patients was not a Middlesbrough "resident." The Maternal Death Rate for the Borough shows the low total rate of 0.55 per 1,000 births. For the Maternity Hospital the death rate was 0.27 per 1,000 total births in the area and 0.8 per 1,000 deliveries.

HOME HELP SCHEME.

During the year it was possible to maintain an average of twelve Home Helps to give domestic help following confinements. The maximum number enrolled was seventeen and the lowest number eleven. The service worked successfully and was able to meet all demands made on it.

The following as	re the	details	of the	year's	work	:
Bookings						235
Cases attended						155
Cancellations	· · ·	l4 41		C 41		31
Cases still on th	ie boo	oks at th	e end	of the y	ear	49

HEALTH VISITING.

Health Visitors.

During 1947, there has been a number of resignations as well as appointments made on the Health Visiting staff. Although we began 1947 with 7 full-time Health Visitors, I part-time Health Visitor and a Superintendent Health Visitor and finished the year with 8 full-time Health Visitors and a Superintendent Health Visitor, the staff was reduced considerably between May and September.

Help had to be obtained from the Public Health Nurses of the Department to enable us to staff the Infant Welfare Centres. In consequence, the work of the Health Visitors had to be drastically curtailed. This is shewn markedly in the reduction of home visits paid, and there is also the fact to be acknowledged that the visits themselves were in many cases less valuable than they should have been owing to the shortness of time that the individual Health Visitor could give to each visit.

From March to December, Linthorpe area was without a Health Visitor, as were North Ormesby and Cargo Fleet districts from May until the middle of September. From January until the 1st November, Cannon and Newport areas were also without Health Visitors. This meant that Health Visitors from other districts who were already trying to visit numbers far in excess of previous years had to cover these four large areas so far as primary visits to new births were concerned.

Home Visiting.

There has been a total of 3,745 births. Every attempt has been made to do the primary visits on the fifteenth day or as soon as possible afterwards, and 3,545 of these were paid.

In the early part of the year an attempt was made to modify the home visiting system throughout, and to omit all visits to children between three and five, except where such a visit was incidental to one to a smaller child or where a special visit was called for, but as the year went on even such a drastic modification as this completely broke down, and the Health Visitors' time was to a large extent taken up with the primary and premature baby visits, and in staffing the Infant Welfare Centres. That the routine home visits generally decreased alarmingly in spite of very great effort on the part of the staff is obvious from a comparison of the figures for 1947 with the three previous years.

1947	1946	1945	1944
Birth Enquiry or First			
Visits 3,545	3,217	2,542	2,724
Visits to children 0—1			10.001
(excluding above) 7,660	13,134	12,309	13,394
11,205	16,351	14,851	16,118
Visits to Children 1—5 11,083	20,576	20,906	22,340
Visits to Expectant Mothers 190	385	45	120
(*Visits to Special Cases 127	000		211
Visits to Special Cases 121	210	197	
*Infant Death Enquiries 116		*	82
Ante-Natal Investigations 305			
†Evacuee visits which			
included children and			
the aged		340	
Ineffectual Visits 2,334	4,921	4,606	4,535
Total 14,155	26,092	26,094	27,288†
Total 0—1 11,205	16,351	14,851	16,118
10tai 0-1 11,200	10,001		
Grand Total 25,360	42,443	40,945	43,406

*During 1945 and 1946, Visits to Special Cases and Infant Death Enquiries were classified under one heading.

[†]Evacuee visits were carried out during 1945 only.

The investigation of all new cases applying for admission to the Municipal Maternity Hospital where any doubt has existed as to their need for priority consideration, has been undertaken by this department and shared by the staff. 305 visits have been made during which advice on ante-natal care and suggestions for making a home confinement possible have been given.

The two camps of "Squatters" have been visited regularly during the year.

Efforts have been made to keep trace of children moving out of the area and 448 children have been transferred out to other local authorities.

The number of children recorded as received from other authorities was 355.

A certain number of children have been lost sight of and those such whose records are in this department dating from 1943 number 530. An analysis of this number in age groups is as follows:—

This is a small figure when one considers the under five child population approximately 13,500 with its fluctuations of transfers out of and into the Borough for which the Department has been responsible during these five years.

Child Life Protection and Adoptions.

This year the department has taken over the work of Child Life Protection and the arranging and supervision of cases for Adoption within the area.

There were ten foster-mothers on the register at the end of the year, each of whom had the care of one child. Not all the homes are of a very good standard, but owing to a great unwillingness of people to offer as foster-parents, there is little we have been able to do but accept the person chosen by the parent, and by constant supervision and encouragement, endeavour to improve matters.

During the year the number of visits and interviews arranged in relation to adoptions was 389. The children for whom this department was third party or was asked by other Authorities or Adoption Societies to assume responsibility for children being transferred into the Borough have been carefully supervised. The number of children in whose care this department participated and for whom Court Orders legalizing the adoptions were signed was 36.

N.S.P.C.C. Cases.

Visits to children under the care of the N.S.P.C.C. Inspector have again been paid, either at the request of the Inspector or as part of the special supervision given from this department to such cases. The Medical Officers, Superintendent Health Visitor and Health Visitors have all taken their part in this visiting. On two occasions the Senior Assistant Medical Officer, and on one occasion the Assistant Medical Officer gave evidence in Court when parents were convicted of neglect.

A Health Visitor has been teaching "Mothercraft" one evening per week at the Hugh Bell School; part of the practical work has been taught at the American Red Cross Centre. At the end of the year the class was still in progress.

Boarded-out Children chargeable to the Social Welfare Committee.

There were 13 children boarded-out within the County Borough of Middlesbrough. 11 of the children are with relatives and 4 of these are re-chargeable to other authorities.

The children boarded-out are visited at least once each month and such visits are recorded on the respective case papers.

Premature Births.

There has been a steady increase in the number of premature infants since 1945, when we first began to keep separate records. The numbers for these years are as follows:—

1947	1946	1945
244	216	180

The routine practice of paying two visits in the first four weeks of life has been continued in most cases, but it is regretted that the pressure of new births and the very limited staff has made it difficult to visit as often as the frailty of the infant demanded.

These births are classified as follows:—		
Born at Home		144
Nursed at Home and died within 24 hours , , , , Survived 24 hours, died	13.	
within 4 weeks	8	
,, ,, ,, Survived 4 weeks	96	
Removed from Home and died within		
24 hours	Nil	
,, ,, survived 24 hours, died		
within 4 weeks	22	
" " " survived 4 weeks		
,, ,, ,, before one month—		
transferred	1	
		144

									100
Во	rn	in		and died				14	
	22	22	**	lived 24	hours, o	lied w	ithin		
				4 we	eks			10	
	22	**	11	survived	4 weeks			64	
		,,		transferre	ed alive	e befo	re		
				4 we	eeks			12	
									100

For the special care of premature babies, hot water bottles can be obtained on loan from the Department and Midwives have been supplied with special feeders, mucus catheters and subclinical thermometers.

CHILD WELFARE CENTRES.

The Child Welfare Centres were closed during four weeks in August.

It has been difficult at times during the year to find enough staff to enable the Centres to function and help was given by the Public Health Nurses attached to the Health Department.

THORE TECHNOLIST THEIR OF THE	erectare cr	co cu	C Heaten De	par oment.
Details of the attendant	dances	are gi	ven below:-	
Number of Child the first time Number of Child				2,353
the first time Total number of a				136
0-1				19,236
Total number of 1—5				2,301
				21,537
Number of Childre Number of Child	ren ad	vised	by Health	
Visitors Number of Session				20,560 458
The following table the year at each Centre	shows			
			0-1	1—5
Elizabeth Purvis			3,358	511
Cannon			3,075	357
Ayresome			4,185	372
American Red Cro	SS		1,671	235
Whinney Banks				
Grove Hill			2,386	266

2,096

19,236

219

2,301

North Ormesby

Number of Children recommend for special treatment from			
Child Welfare Centres			276
These may be classified as follo	ws :-	-	
Artificial Sunlight Clinic Orthopaedic Clinic (Central		76	
School Clinic) Orthopaedic Clinic (General		51	
Hospital) Ophthalmic Clinic		43	
(Strabismus 24) (Others 22)		46	
Ear, Nose and Throat Clinic		14	
Dental Clinic		10	
Skin Clinie T. B. Clinie		8	
Orthoptic Clinic		3	
Speech Clinic		2	
Child Guidance Clinic		2	
For X-ray examination		6	
To Newcastle Royal Victoria Infirmary		7	
		276	

The cases referred to Newcastle were:-

Cleft Palate ... 4 Naevus 3

It was decided in September to open the Whinney Banks Centre on an appointment basis. This has been much appreciated by the mothers attending as it has meant in the main an avoidance of delay and a quieter atmosphere has resulted from there being a limited number of mothers and children in the building at any given moment.

It has been necessary to discourage weekly or fortnightly visiting, where the child has been satisfactory and appointments of 3-4 or 6 weeks ahead have been made. This has enabled the Health Visitor to spend a little more time on each child and mother attending and as the home visits in the area served by Whinney Banks have been greatly reduced this has been found to be necessary for advice and teaching. The mothers have been told that if for any reason they require advice before the date of their appointment it is quite in order for them to attend. No hardship is therefore experienced by the system.

Following talks to the mothers at North Ormesby Centre, explaining the system, and a Press notice from the Health Department, this Centre was put on an appointment basis towards the end of the year. It is too early to report on the success or otherwise of the scheme at the moment.

The work of the Department as a whole and that of the Centres in particular has been improved by the appointment of two Centre Attendants. These Attendants work twenty hours per week and their duties include weighing of infants at some Centres charting of weights and the care of stores and linen. In view of the shortage of trained staff their work has been most valuable and whilst in no case can they be used as a substitute for qualified Officers, they have been able to relieve the Health Visitor of clinic preparation and certain routine matters and to enable her to give a more detailed attention to the mothers and infants. They have also relieved the Superintendent Health Visitor of the distribution of stores and the repair of linen.

Appointment of Assistant Medical Officer for Maternity and Child Welfare.

On 8th January, 1947, Dr. Joan Crook who had been appointed part-time Assistant Medical Officer, took up duty and conducted one ante-natal and one child welfare clinic per week. Later when the increased work at the Maternity Hospital debarred the Resident Medical Officer from continuing to attend at outside clinics, Dr. Crook took over these clinics also. Dr. Crook resigned from her post on 12th October.

Prior to Dr. Crook's resignation, Dr. Elizabeth Webster was appointed whole-time Assistant Medical Officer. She commenced duty on 1st September. Dr. Webster's time has been divided among ante-natal and child welfare centres, assisting at ante-natal clinics at the Maternity Hospital, examination of children in the Day Nurseries and for a small proportion of the time assisting in the Departmental Office.

District Ante-Natal Clinics.

From 9th January, 1947, the ante-natal clinics which up till that date had been held fortnightly at American Red Cross and North Ormesby were conducted weekly and from 4th November, 1947, the Grove Hill Centre, where there had also been a fortnightly clinic was held weekly. Thus at the end of the year, there were eight sessions every fortnight in place of the former five per fortnight. The comparative figures for 1946 and 1947 given in the table below, show the notable increase in both first and re-attendances at American Red Cross and North Ormesby Centres.

The number of women who made at least one visit to a district ante-natal clinic represents 30.12% of the total number who gave birth to children during the year.

Cannon Street Clinic 1st Attendances 437 478 Re " 1,002 875 American Red Cross Clinic 1st Attendances 217 122 Re " 527 131 Grove Hill Clinic 1st Attendances 248 253 Re " 552 406 North Ormesby Clinic 1st Attendances 214 154 Re " 415 245 Total 1st " 1,116 1,007 Re " 2,496 1,657				1947	1946
3 612 2 664	American Red Cross Clinic Grove Hill Clinic North Ormesby Clinic	Re 1st Re 1st Re 1st Re 1st	Attendances Attendances ,,, Attendances ,,, ,,,	 $\begin{array}{c} 437 \\ 1,002 \\ 217 \\ 527 \\ 248 \\ 552 \\ 214 \\ 415 \\ 1,116 \end{array}$	478 875 122 131 253 406 154 245 1,007

During March, a beginning was made to post-natal work, the mothers being seen at the same session as the ante-natal cases. A total of 75 mothers attended post-natally, 69 at American Red Cross Centre and 6 at Grove Hill.

A further development of the work was the installation of routine blood testing. The numbers of tests which were carried out at the Area Laboratory at the Middlesbrough General Hospital were 126 Kahn and 109 for the Rhesus factor. As 10 gave a Rhesus negative blood, samples from the husbands were obtained where possible and 5 such were taken.

Number of for fur	f expectan ther exami	t mot	hers or tr	recommended eatment		151
Expectant	mothers re	eferred		examination	74	
.,	**	3.5		Consultant Obstetrician	47	
,,	"	**		General Hospital	3	
,,	,,	,,	,,	Clinical Tuberculosis		
				Officer Dental Clinic	3 22	
,,	22	"	2.2		2	
,,	,,	"	2.2	Skin Clinic		
					151	

The number of breast abscesses in Nursing Mothers reported during the year was 2. There were 3 other cases of mastitis.

Convalescent Treatment-Mothers and Babies.

The Yorkshire Homes for Mothers and Babies, one at Withernsea and one at Harrogate, were re-opened in 1946 for the summer months. Two mothers with their respective babies were admitted for two weeks. A third mother and her baby were also sent for convalescent treatment, but returned after a few days because the mother felt "unsettled" away from her home.

Illegitimate Children.

The following table shows the figures for illegitimate births for the past six years:—

1942	 	 	125
1943	 	 	190
1944	 	 	258
1945	 	 	223
1946	 	 	276
1947	 	 	227

There is still a definite need for a Hostel for Unmarried Mothers where they can live at least during the latter weeks of pregnancy when they are often unwelcome in their own homes, or to which they can return after the birth of their babies while seeking work or becoming fit for work. It is equally important that there should be a Residential Nursery for the children of a proportion of these mothers as often there are hasty and unsatisfactory arrangements made by the mothers for the care of these children.

The Day Nurseries have been made use of to a considerable extent by unmarried mothers who are in employment.

The only Home in the Borough which admits unmarried mothers is St. Teresa's Home, Borough Road, which is the Roman Catholic Diocesan Rescue Society's Home and where there is accommodation for six mothers and six babies.

Diphtheria Immunisation.

The percentage of children under five years of age who have been immunised has remained more or less stationary. The extent to which parents living in different parts of the Borough take advantage of the facilities offered them for

Diphtheria Immunisation is shown in the following Table of Health Visitors districts with corresponding immunisation percentage of children for whom records are in existence:—

		,		18.7%
Cannon	* *			
Newport				 26.6%
North Side				 23.68%
North Ormesby				 32.91%
Newlands				 37.07%
Brambles Farm	and T	own Ce	entre	 37.30%
Whinney Banks				 36.33%
Grove Hill				 42.81%
Linthorpe				 45.04%
Ayresome			* *	 52.55%

The Department took part in the propaganda for Diphtheria Immunisation by Health Visitors and the Immunisation Clerk being in attendance at the Odeon Cinema, when a film dealing with the danger of Diphtheria to children was shewn.

Orthopaedic Treatment.

In order to facilitate the examination and treatment of children requiring orthopaedic treatment the Committee agreed that such children could attend the Orthopaedic Clinic at the Middlesbrough General Hospital, the fee of 2/6d. to be paid by the Committee. It was agreed that for in-patient treatment the Committee would accept financial responsibility on the same basis as for children admitted to the Adela Shaw Hospital, Kirbymoorside. This scheme came into effect in September and enabled certain cases to be treated without waiting for the visits of the Orthopaedic Surgeon or his Assistant from the Adela Shaw Hospital. The number referred to the General Hospital is shown on page 47.

During the year 19 new cases were referred for examination by the Orthopaedic Surgeon from the Adela Shaw Hospital and 16 attended. 85 were invited for re-attendance and 65 attended. 6 children were referred for in-patient treatment and by the end of the year 3 of these had been admitted. 1 child who had been admitted the previous year was discharged.

Training of Health Visitors.

The subsidising of Student Health Visitors to which the Committee had agreed in November, 1946, was put into effect when in October, four students commenced training under the Health Department of the City of Newcastle-on-Tyne and two under the County of Durham Board for Training of Health Visitors.

National Certificate for Nursery Nurses-Training of Students.

The lecture courses for students from the Nursery Classes and from the Day Nurseries for the National Nursery Certificate were arranged through the Maternity and Child Welfare Department. The Senior Assistant Medical Officer took part in the lectures for Courses I and II and the Superintendent Health Visitor for Course II.

Infant Food Depot.

During the year, there were sold and distributed more than 50,000 packets of proprietary milk foods and vitamin foods as well as Ministry of Food products, from the premises at 28 Dunning Street.

Because of the congestion at rush periods, special consideration was given to the further adaptation of the premises and the removal to larger and more suitable accommodation without any satisfactory outcome.

Finally, the matter was deferred for future consideration in view of the impending changes under the National Health Service Act.

DAY NURSERIES.

Three Day Nurseries are maintained at the following places:—

Mosman Terrace, North Ormesby 60 places.
Parkside 60 places.
West Lane 60 places.

and have been fully utilised throughout the year.

Mothers who are compelled by domestic or financial reasons to take up employment, may have their children cared for at the Nurseries and in this way many women have been made available for essential work.

Children up to five years of age are accepted provided accommodation is available and a charge of 2/- per day is made for maintenance. This charge may be reduced when it is likely to result in financial hardship.

Each child has to be immunised against diphtheria before admission and regular medical inspection is undertaken by the Medical Staff of the Public Health Department.

The Nurseries have been approved for training purposes by the National Nursery Examination Board and Student Nurses are thus able to obtain their Nursery Nurses Certificate whilst employed in the Nurseries.

DOMESTIC HELP SERVICE.

This Service was introduced in 1945 and has gradually developed until during 1947, up to 15 Domestic Helps were engaged in providing assistance for families whose normal domestic arrangements were disrupted by illness or similar cause.

During the year, 82 families received help in this way and the Domestic Help Service has done excellent work and has established a high reputation. The period of assistance given depends on the nature of the case and the degree of need and is always subject to review, but the average duration of the period for which help is given is four weeks. Charges to householders are based on a sliding scale according to income.

Applications are made to the Public Health Department, Municipal Buildings, where the Domestic Help Service has been organised by a Senior Clerk in the Department. In preparation for the expansion of the Service under the National Health Service Act, 1946, as from 5th July, 1948, a full time Domestic Help Organiser has been appointed, who will co-ordinate the Service with the Home Help Scheme.

The following are details of the year's work:

Applications Received			 86 cases.
Full-time Help given			 79 cases.
Part-time Help given			 3 cases.
Cancellations			 4 cases.
Receiving attention at	end o	of year	 10 cases.

AMBULANCE SERVICE.

The vehicle strength of the Public Ambulance Service has been maintained at 4 ambulances and 1 sitting case car. Orders have been placed for 3 new ambulances and 1 new sitting case car to replace some of the older vehicles which continue to give fairly satisfactory service despite their ages which range from 17 years to 10 years. Good use was again made of the sitting case car, particularly for the conveyance of patients proceeding for special treatments in hospitals outside the Borough.

An extra service now provided by the Ambulance Service is that of receiving calls for the newly formed Obstetrical Flying Squad and providing the necessary transport for the Squad. Since the inception of the Flying Squad the Ambulance Service has been called upon three occasions.

The personnel strength of the Ambulance Service remained unchanged, viz., 7 male drivers; 3 male and four female attendants and 2 male and 1 female telephonists. Both of the male telephonists are registered disabled persons.

As in previous years the ambulance staff continued to render valuable assistance on numerous occasions to the General Hospital, particularly at times when the Porter-Drivers employed by the hospital were not readily available.

The following figures show the work carried out during the year by the Ambulance Service :—

Number of calls				 2,847
Number of Patient	s Rer	noved		 2,874
These figures are made	up as	follows	s :	
Street Accidents an				 317
Works Accidents a	nd Ill	nesses		 497
Maternity Cases				 281
Private Removals			*.*.	 1,663
Police Cases				 32
Coroner's Cases				 84
Total Mileage				 25,413 miles
Petrol consumed				 2,530 galls.

Removals Outside the Borough.

Patients for special treatments were conveyed to and from hospitals outside the Borough as follows:—

Royal Victoria Infirmary, Newcastle				39 patients		
General Hospital, Newcastle			28	,,		
E.M.S. Hospital, Shotley Bridge	, Co. Di	ırham	41			

Other private removals to hospitals and nursing homes outside the Borough included:—

				5	patients.
doefie	(ble				3.2
agein	ici)				33
3)	2.10	40.40		1	,,
e (Yo	rks)			0	7.7
- 120				-	2.3
				1	,,
7.7	100			.)	22
				-	2.7
				1	
h				1	1.7
				1	3.3
orthu	mberlar	nd)		1	
		1)			5.7
				1	22
				1	7.9
				T	33
	e (Yo ··· ·· h orthu	edgefield) e (Yorks) h orthumberlar	edgefield) e (Yorks) h orthumberland)	edgefield) e (Yorks) h orthumberland)	edgefield)

SECTION C.

SANITARY CIRCUMSTANCES IN THE AREA. WATER SUPPLY.

Mr. T. S. R. Winter, Assoc.M.Inst.C.E., A.M.Inst.W.E., Engineer and General Manager of the Tees Valley Water Board, contributes the following information concerning the Middlesbrough water supply.

The water supply of the area has been satisfactory in quality

and, to domestic consumers, in quantity. .

Eight bacteriological samples of raw water were examined per month. The water is examined as it leaves the treatment works, and also at points in the area. Approximately 70 samples per month were taken for bacteriological examination, all of which were satisfactory. A summary of chemical and bacteriological analyses is enclosed.

The water supply is not liable to have any plumbo-solvent

action.

The water is purified by slow sand filters, followed by treatment with ammonia and chlorine. Water which has been standing in open service reservoirs is also treated with ammonia and chlorine before passing into distribution.

SUMMARY OF CHEMICAL AND BACTERIOLOGICAL ANALYSES.

RIVER TEES SUPPLY, DARLINGTON.

Average Results—1947.

Appearance—Clear and bright.
Odour and Taste—Nil.

Odour and Taste—N	11.				
			Average	Maximum	Minimum
"U			7.4	7.6	7.1
pH Colour (Hazen)		•	40	130	15
Chlorine in Chlorides			9	13	6
Total Hardness			105	175	65
Temporary Hardness			78	125	40
Permanent Hardness			27	50	10
Total Alkalinity			78	125	40
Free Carbon Dioxide			5	7	3
Total Solids, dried at	180°C		156	235	100
Nitrogen in Nitrates			0.6	2.0	0.0
Nitrogen in Nitrites			0.01	0.10	0.0
Free Ammonia			0.033	0.092	0.000
Albuminoid Ammonia			0.042	0.092	0.020
Oxygen Absorbed in	R hrs				
at 37°C			3.67	10.00	1.40
	2.0		0.09	0.20	0.3
Iron					

Chemical Results expressed in parts per 100,000. Bacteriological Results.

*Present on one occa	asion o	only.		
C1. Welchii Reaction, 10 m			Absent	Absent
C1. Welchii Reaction, 100			Present	Absent
Presumptive B.Coli per 100 ml		Nil.	1*	Nil.
Bacteria on Agar at 20°C. per ml. 3 days	٠.,	60	800	1
Bacteria on Agar at 37°C. per ml. 2 days		11	55	2
Bacteria on Agar at 37°C. per ml. 1 day		7	42	0

LARTINGTON GRAVITATION SUPPLY.

Summary of Results—1947.

Appearance — Clear and Bright.

Taste and Odour - Nil.

			Average	Maximum	Minimum
рН			7.0	7.1	6.9
Colour (Hazen)			62	85	45
Chlorine in Chlorides			6	8	4
Total Hardness			48	55	35
Temporary Hardness			37	45	25
Permanent Hardness			11	25	5
Total Alkalinity			37	45	25
Free Carbon Dioxide			6	8	4
Total Solids, dried at	180°	C	84	100	70
Nitrogen in Nitrates			0.2	0.8	0.0
Nitrogen in Nitrites			0.01	0.01	0.00
Free Ammonia			0.053	0.150	0.000
Albuminoid Ammonia			0.059	0.096	0.036
Oxygen Absorbed in 3	hrs.	at		0.000	0.000
37°C			5.53	7.50	3.60
Iron	٠.		0.13	0.23	0.05

Chemical Results expressed in parts per 100,000.

Bacteriological Results.

Bacteria on Agar at 37°C. per ml. 1 day 10	40	0
Bacteria on Agar at 37°C. per ml. 2 days 15	55	4
Bacteria on Agar at 20°C. per ml. 3 days 17	160	3
Presumptive B. Coli. per 100 ml Nil.	1*	Nil.
Cl. Welchii Reaction 100 ml Present	Present	Absent
C1. Welchii Reaction 10 ml Absent	Absent	Absent
*Present on one occasion only.		

SEWERS AND DRAINS.

Drainage and Sewerage.

During the year the following works have been carried out :-

	Drains	Sewers
By Corporation	 7,780 lin. yds.	9,420 lin. yds.
Private Enterprise	 1,380 lin. yds.	780 lin. yds.
Total	 9,160 lin. yds.	$10,\!200$ lin. yds.

The Chief Sanitary Inspector is responsible for the following Section:—

PUBLIC CLEANSING.

HOUSEHOLD AND TRADE REFUSE.

Collection.

There are 35,613 inhabited houses and shops in the town.

The collection of household refuse is made by 20 motor and 1 electric collection vehicles.

No charge is made for the collection of any trade refuse that has a commercial value, such as paper, tins, rags, etc.

Disposal.

During the year, 35,808 tons of refuse were disposed of as under, as against 36,194 tons during the previous year:—

Metho	d of D		Tonnage	Percentage	
Separation and	Incine	ration		30,709	85.76
Food Waste Concentrator				1,145	3.20
Controlled Tipp	ing			521	1.45
Barged to Sea				441	1.23
Organic Plant				344	0.96
Miscellaneous				2,648	7.40
	Т	otal		35,808 tons	100.00%

Of the 1,145 tons of Kitchen Waste treated in the Food Waste Concentrator, 402 tons were brought in from other Local Authorities.

The constituents of the refuse at the Refuse Disposal Works after separation were as follows:—

			Tons	Percentage
			-	-
Dust			 11,382	37.06
Cinders			 2,863	9.31
Metals			 522	1.69
Rags			 4	0.01
Bones			 4	0.01
Bottles			 70	0.22
Paper			 164	0.53
Miscella	neous		 6	0.02
Balance	to Fir	08	 15,694	51.15
	Tot	tal	 30,709 tons	100.00%

The amount and value of materials recovered, including Organic Salvage, were as follows:—

			We	ight.		Va	alue	
		Tons	Cwts.	Qrs.	Lbs.	£	s.	d.
Waste Paper		607	7	1	0	4,026	9	6
Ferrous Metals:								
" Black " Scrap		152	9	1	0	323	13	11
"Destructor" Se	erap	1,171	17	0	0	2,647	9	3
Non-Ferrous Metal	.s:							
		Tons	Cwts.	Qrs	Lbs.	£	s.	d.
Aluminium Scrap		1	8	3		55	6	11
Copper Scrap			15	3		29	2	6
Brass Scrap		1	9			41	7	6
Zine Serap			4	1		2	11	0
Lead Scrap		1	1	1		53	2	- 6
Pewter Scrap			1		16	9	12	0
Textiles		4				29	3	8
Bottles, Jars, etc.		53		2		574	11	5
Cinder Fuel		1,108	19			554	9	6
Stable Manure		158	14			81	2	0
Concentrated Kitchen	Waste	577	3			2,590	9	3
Bones		4	6			24	14	6
Fish Meal		72	15			1,329	9	6
Miscellaneous			16	2		7	11	6
Т	otal	3,916	7	2	16 £	12,443	6	5

The value of materials recovered, £12,443 6s. 5d., shows an increase, of £1,057 16s. 3d., compared with the total for the previous year, namely, £11,358 10s. 2d.

In addition to this, the Department have made a claim on the Board of Trade for £121 19s. 4d., on account of additional waste paper recovered above the amount for the year 1946.

Since the inauguration of the Separation Plant in 1939, the amount of materials recovered is £85,566 2s. 0d.

The costs of collection and disposal for the year 1947 from the figures in the Estimates supplied by the Borough Treasurer are as follows:—

	Total Cost.	Cost per Ton.	Cost per House
Collection	 £34,563	20/1d.	19/5d.
Disposal	 £9,527	5/4d.	5/4d.

The 376 small bins distributed in 1946 to householders in a suburban district for the reception of Kitchen Waste, continued to give satisfaction to the householders.

Of the original 200 Communal bins in the streets, only 100 are in use. With the removal of the street air-raid shelters, it was impossible to find new sites, as a large number of houses abut on to 3 ft. and 9 ft. back streets in which it was impossible to site bins without causing obstruction.

Several bins were stolen, but it was not possible to apprehend the culprits.

During the inclement weather of January/March, a satisfactory collection service would have been maintained but for the action of householders in piling snow in the back streets, which caused grave inconvenience, not only to the refuse collectors, but to the householders themselves, as it was often found impossible for coal merchants and others to deliver goods.

I cannot speak too highly of the refuse collectors who carried out their duties in such a manner as to receive the approbation of the Health Committee by a special resolution of thanks.

During the year the collectors were provided with Protective Clothing (Coat and Shoulder Cape) without the surrender of personal clothing coupons.

On 1st August, two Motor Mechanics commenced the servicing of the Department's vehicles. Previously this was executed by a local garage. I am convinced that this alteration has been to the benefit of the Department. Vehicles which were previously off duty for days are often in commission again in a matter of hours as immediate attention is given to minor defects, which may if not attended have produced major complications.

The shortage of spare parts, and the difficulty of obtaining certain types of tyres led to serious delay which in normal times would never have occurred. Questions asked in Parliament regarding the supply of tyres did not bring any immediately tangible improvement in supply. Despite all difficulties, a weekly collection service was maintained from April.

I would again draw attention to the amount of burnable cinder recovered from refuse (1,109 tons); in particular to the cost per ton for collection and the fact that during the inclement weather, 407 tons were sold to householders at 6d. per cwt. Householders should sift this useful fuel at the grate and not put it into the dustbin.

SANITARY INSPECTION OF AREA.

Description of Work carried out	t.		
Number of Inspections ma	ade		. , 9,030
Number of re-inspections	made		. 10,259
Number of Food Inspection	ons		. 1,799
Number of Interviews			. 275
Smoke Tests applied to ne	ew dr	ains .	. 219
Smoke Tests applied to ol	ld dra	ins .	. 17
Drains cleared with Coope	r's Va	cuum Pum	p
(Free of cost to owne	ers)		. 1,868
		Notices Served include:	Nuisances Abated include:
Drainage:			
Cleanse and Repair		692	681
Defective Sink Waste Pip	es	280	163
Defective yard gullies		50	34
Absence of gully grates		27	13
Defective gully covers		32	21
Waterclosets:			
Burst water pipes		2,063	1,499
Defective basins		583	410
Defective cisterns		411	258
Defective doors		270	174
Dilapidated seats		158	104
Defective roofs		206	122
Defective joint between			
flushpipe and water	eloset	139	80
basin		123	80

Houses:

Defective roofs			1,372	847
Defective water spo				
fallpipes			1,677	1,156
Defective sinks			91	60
Accumulation of ref			3	3
Defective yard surfa			141	73
Defective floors			279	180
Burst water service			583	481
Dilapidated Dustbir			1,568	1,328
Defective chimneys			109	70
Defective ceilings			228	145
Defective sashcords	and '	windows	577	325
Defective fireplaces			150	99
Defective fireranges			182	98
Defective walls			1,291	764
Defective ovens			6	5
Dilapidated setpots			102	58
Defective handrails			42	20
Defective flues			81	50
Defective yard door	s		312	200
Defective back pass		arfaces	3	2
Defective coalhouse			130	73
Defective coalhouse				
doorframes			61	44
Defective house doo	rs		302	184
Absence of washing				
accommodation			241	175
Miscellaneous works	not			
classified			418	278

Summary:— Notices served .. 8,965 to cover 14,844 nuisances.

Nuisances abated . . 10,277.

The rigid control of building materials and the Ministry of Health instructions, vide Circular 171/46, that property repairs would have to be deferred, has greatly retarded property repairs.

Property owners generally, realize that very little maintenance work was done to dwelling-houses during war years, owing to fear of demolition by the enemy, and that it was essential that their properties should be repaired, and were willing to execute the necessary repairs as required by the Department. These necessary repairs were mainly those to keep houses free from dampness, and the upkeep of amenities.

Representations were made to the Department for increased allocations of timber. Notwithstanding requests by the Town Council to the Timber Control, it was not found possible to increase the supply. Metal spoutings and fallpipes were also in such short supply that even some new houses stood for four months without having these necessary components fitted.

Between 1921—1924, 10,000 privy pan closets were converted to the water carriage system, and a vertical inlet basin was fixed. During the first quarter of the year a large number of these basins were found to be defective. The Ministries of Health and Works earmarked the output of British Standard Specification basins for new houses, and manufacturers were instructed to concentrate on these, with the result that very few of the type used in the Borough were produced. Owing to the restricted supplied it can well be understood how it was that the Department were faulted by house tenants who were not in a position to understand.

Number of Housing Cards compiled .. 985

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

Apparently dangerous str	ructures	 18
Miscellaneous		 8

Infectious Diseases.

During the year 915 houses have been inspected, incurring 76 re-inspections, compared with 761 inspections and 93 re-inspections last year, owing to cases of Infectious Disease (including Tuberculosis), and reports thereon have been made.

The number of inhabited rooms disinfected owing to cases of Infectious Disease was 1,399 as compared with 1,098 last year.

Offensive Trades.

Number on Register	 		29
Tripe Boiling	 	6	
Fat Melting	 	6	
Blood Drying	 	2	
Fat Extracting	 	4	
Size Making	 	1	
Hide and Skin Dealers	 	1	
Rag and Bone Dealers	 	8	
Gut Scraping	 	1	
Number of inspections	 •		30
Number of Notices to limewash	 		5

The whole of the Offensive Trades on the Register have been conducted satisfactorily and in no instance where any minoralteration or improvement has been suggested has there been anything but a ready response to carry out the same.

Fish Friers:

Number on Register			126
Number in use		117	
Number not in use		9	
Number discontinued during the year			-
Number registered during the year			2
			205
Number of notices to limewash			24
Number of letters sent re minor contr.	aven	tions,	
alterations to premises, etc.			42

Rats and Mice Destruction Act, 1919.

The Voluntary Rat Club and the Official Rat Catcher have continued their operations against these pests as follows:—

	No. of Visits.	Rats Killed.	Baits Laid.	Mice Killed.
Official Rat Catcher Voluntary Rat Club	2,598 108	3,733 570	1,466	459
Total	2,706	4,303	1,466	459

SANITARY CONDITION OF THEATRES AND MUSIC HALLS.

There are 13 places of public entertainment within the Borough, 11 Cinemas and 2 Music Halls.

The Public Health Act empowers local authorities to inspect the sanitary condition of Cinemas, Music Halls, etc., and 31 visits were paid during the year, resulting in a good standard of cleanliness being maintained.

Hairdressers:

Section 286 of the Middlesbrough Corporation Act, 1933, makes it compulsory for all hairdressers and barbers to be registered with the Local Authority.

Number on Register			139
Number discontinued during the year			9
TI GHILLOUS TOWNS			11
Number of change of occupiers			8
Titilinor or mobelling			33
Number of letters sent re minor con	trave	entions,	
alterations to premises, etc.			25

In all cases where a new business has been established, washhand basins with properly trapped waste discharge pipes to external gully have been provided, together with an adequate hot water supply.

In the case of old established businesses, where these facilities do not at present exist, an effort is being made to have them brought up to the standard required.

Shops and Offices within the Borough.

SUMMARY.

21						11
Cinemas						60
Coal Dealers						373
General Dealers						225
Drapers, Clothie	rs, Out	fitters				172
Grocers						80
Fruiterers, Flori	sts, Ga	medea	lers			95
Rokers and Con	fectione	ers				90
Newsagents, To	bacconi	sts, Co	onfectio	ners,		004
Libraries, S	Statione	ers				204
Chamists Herbs	alists, I	rug S	tores			45
Root and Shoe	Retaile	rs and	or Ker	airers		104
Ironmongers, P	lumber	s. Har	dware			72
Hairdressers						139
Fish Friers.						117
Fish Friers.						41
Fishmongers						142
Butchers		Votah	Panaire	ors		28
Jewellers, Optio	mans, v	vaten	ropan	010		18
Dairies and Far	rm Pro	auce	Danlana	Motor	Cycles	134
Radio, Cycle ar	id Elec	trical	Dealers	, MOTO	Cyclos	94
Whologola Deal	Arg			0.0		47
Furniture Deal	ers and	Broke	ers	TT	-1-	56
Cofoe Snack B	ars. Ice	Crear	n Saloo	ns, Hot	eis	83
Miscellaneous	Crades					00
					-	7
		Tot	tal			2,340
Number of visi	ts paid					2,356

Additional Sanitary and Washing Accommodation was. provided in 5 instances:—

Offices	 	Nil.
Shops	 	5

Camping Sites.

There are no camping sites, as such, in Middlesbrough.

Verminous Premises. Number of Inspections 349 Number of Premises defested by Corporation 120 Warning letters sent to tenants ... 126 Warning letters sent to owners 20 Reports to Medical Officer of Health 25 Reports to Housing Department ... 24 Other warning letters sent ... 18 Houses defested by Corporation. Ants: Private Houses 32 Other Premises Bed Bugs :-Private Houses 55 Other Premises 2 Cockroaches :-Private Houses 11 Other Premises 11 Crickets :-Private Houses Other Premises Fleas :-Private Houses Other Premises 1 Flies :-Private Houses 1 Other Premises

The 32 houses treated for the eradication of ants had been infested for over 30 years. Early in the year the houses were sprayed with "Gammexane" spray L.044. For six months after treatment the tenants reported that the treatment had been entirely satisfactory and were unanimous in saying that this was the first effective step that had been taken to rid their houses of this pest.

With the lighting of winter fires a few ants did appear in the neighbourhood of the fireplaces. The premises were again treated, and no further complaints were received.

The work of defesting Corporation Houses found to be verminous is now carried out by the Housing Department's staff.

Factories Act, 1937.

There are 537 Factories on the Register, as follows:-

			With Mechanical Power.	Without Mechanical Power.
Bakehouses			40	12
Joiners and Undertaker			43	6
Printers			15	2
Motor Engineering			58	4
Motor Engineering			27	_
Boot Repairs			17	4
Tailoring, etc			8	17
Mantle Alterations, etc.			9	6
Upholstery			7	3
Cabinet Makers			42	
General Engineering				9
Electrical Engineering			- 13	9 2 3
Sugar Boiling			3	. 3
Laundries			9	-
Monumental Masons			3	1
Miscellaneous			140	34
Miscellancous				
		Totals	434	103
Number of Inspections (Building and Engin	inc	luding v ring Cor	works of estruction)	325

On the whole, the Factories and other premises were found to be in a satisfactory condition and no legal proceedings were instituted.

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

NOTICES RECEIVED FROM HIS MAJESTY'S INSPECTOR OF FACTORIES:—

Removed from Register	 	 	
Change of Business	 	 	
New Premises	 	 	
Sanitary Defects etc.	 	 	

NOTICES SERVED UNDER THE ACT :-

To cleanse, redecorate, etc.		 15
Sanitary defects		 26
To provide refuse receptacles		 1
To provide adequate lighting		
Miscellaneous	* *	 12
lumber of Fire Certificates issued		 12

Sanitary Conveniences in	N FACT	CORIES		
Insufficient				
Unsuitable or defective				
Non-separation of Sexes				-
HOME WORK (SECTIONS 110	& 111)	:		
16 Lists of Out-workers were received in the first 14 for the second half.	or H	lome-w f the ye	orkers) ear and	
Number of Lists of Out-w	orkers	receive	d	30
Number of Employers				16
Number of Out-workers				
Number of Out-workers-				49
Number of Out-workers-	-2nd h	alf of y	ear	40
RESTAURANTS, KITCHENS, E	тс. :—			
Number on Register				54
Number Inspected				54
Number of Inspections				72

Rag Flock Regulations 1912.

16 samples were taken under the Regulations during the year. The Public Analyst reported that all these samples conformed to the standard of cleanliness specified in the Rag Flock Regulations 1912.

Fertilisers and Feeding Stuffs Act, 1926.

One sample was procured at the request of another Authority and proved satisfactory.

Pharmacy and Poisons Act, 1933.

Poisons Rules, 1935.

128 premises with the persons nominated to sell poisons under the above rules are now registered—an increase of 81 during the year.

The increase is due to one wholesale firm selling disinfectant to general shops.

Upon registration, each person nominated was informed by letter of the need for separation of the commodity from foodstuffs, and where this was impossible, to store same upon the floor of the shop.

An inspection was made at each of the premises during the year.

Public Mortuary.

The Public Mortuary is situated at the Borough Engineer's yard in Commercial Street.

Satisfactory arrangements exist for the supervision and cleaning of the Mortuary, which however from a structural point of view is far from satisfactory.

When the time is opportune, a modern building centrally situated with adequate provision for postmortems and with appropriate ancillary facilities should be provided.

During the year, 74 bodies were removed to the Mortuary.

SECTION D.

HOUSING.

	1100	SING.				
Numl	ber of new houses erected in	n the B	orongh	during	the weer	
	1. Erected by the Local	Authori	tv	· ·	344	
	2. Erected by Other Per	rsons			69	
	 Houses Demolished 				5	
Numb	per of new houses erected in	the Bo	rough	during t	he year :-	
follow	he Ward distribution of ts:—	he new	house	es referre	ed to is	as
	Linthorpe Ward			30		
	Ormesby Ward			2		
	Ayresome Ward					
	Grove Hill Ward			187 194		
	Total			413		
Housin	g Statistics :—					
1. Ins	spection of dwelling houses	during	or the	789r ·		
	Total number of dwelling housing defects (under Housing Acts)	houses	inspec	ted for	0.050	,
(b)	Number of inspections ma	de for t	he pur	pose	9,976	
2.(a)	Number of dwelling hou sub-head (1) above) which recorded under the Ho Regulations, 1925 and 193	n were i	Consol	ed and	000	
(b)	Number of inspections ma	de for	the nu	rnoso	985	
3.	Number of dwelling hous state so dangerous or inju- be unfit for human habita	es foun	d to b	e in a	1,001 981	
4.	Number of dwelling house referred to under the p found not to be in all resp	s (exclu	sive of g sub- easonal	those head)	8,969	
2. Rem of fo	nedy of defects during the				0,000	
	Number of defective dwelli fit in consequence of infor Local Authority or their of	mal ac	ses ren tion b	dered y the		
	and a second street of	Hers			3,249	

		under Statutory Powers during the year :-
	(a) P	roceedings under Sections 9, 10 and 16 of ne Housing Act, 1936 :—
		Number of dwelling houses in respect of which notices were served requiring repairs
	(2	2) Number of dwelling houses which were rendered fit after service of formal notices:— (a) By owners
	(b) P	roceedings under Public Health Acts :
	()	Number of dwelling houses in respect of which notices were served requiring defects to be remedied
	(:	 Number of dwelling houses in which defects were remedied after service of formal notices:—
		(a) By owners 1,442
		(b) By Local Authority in default of owners
	(c) I	Proceedings under Sections 11 and 13 of the Housing Act, 1936:—
		1) Number of dwelling houses in respect of which Demolition Orders were made —
	(2) Number of dwelling houses demolished in pursuance of Demolition Orders —
	(d) I	Proceedings under Section 12 of the Housing Act, 1936:—
	(1) Number of separate tenements or under- ground rooms in respect of which Closing Orders were made (Underground room)
	(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room having been rendered fit
Ł.	Hous	ing Act, 1936—Part IV—Overcrowding:—
	(a) (
	(i	i) Number of families dwelling therein —
	(ii	i) Number of persons dwelling therein —

(b)	Number of new cases of overcrowding reported during the year	_
(c)	(i) Number of cases of overcrowding relieved during the year	_
	(ii) Number of persons concerned in such cases	_
(d)	Particulars of any cases in which dwelling- houses have again become overcrowded after the Local Authority have taken steps for the abatement of overcrowding	_
(e)	Any other particulars with respect to over- crowding conditions upon which the Medical Officer of Health may consider it desirable	
	to report	_

Without carrying out a complete survey, it is impossible to complete statistics of overcrowding. The Housing Department have a complete list of applicants who are overcrowded, and to carry out a census would be wasted effort, owing to the fact that as new houses are being built, overcrowded persons are being re-housed under a points system and any census taken would be altered from day to day.

Overcrowding.

During the year, 16 visits were made to houses known to be overcrowded.

Rent and Mortgage Interest Restrictions (Amendment) Act, 1933.

During the year 9 certificates of disrepair were issued by the Town Clerk's Department.

Houses Let-in-Lodgings.

Number of Houses	 46
Number of Inspections	 52
Number registered during year	 3
Number discontinued during year	 11
Number of Notices and Letters	
re repairs, cleanliness, etc	 8

Circular letters respecting the necessary cleansing are forwarded annually to the responsible occupiers of all houses.

Common Lodging Houses.

Number of Houses				4
Number of Keepers				4
Number of Inspections				30
Number of Lodgers accor	mmoda	ted nig	ghtly	219
Number registered durin				1
Number closed or discon				1
Number of Notices and l	Letters ss, etc.			9

Squatters Camps.

During August 1946, two Anti-Aircraft Sites were occupied by squatters, comprising 78 families (76 Males, 78 Females and 82 Children).

Weekly inspections were made to ensure that the hutments and sanitary accommodation were kept in satisfactory condition.

No difficulties were experienced, and the squatters conducted themselves in a satisfactory manner.

Number of Inspections . . 18

SECTION E.

INSPECTION AND SUPERVISION OF FOOD.

The Chief Sanitary Inspector is mainly responsible for this Section.

Bacteriological Examination of Milk.

247 samples were procured during the year and submitted for examination. 149 or 60.3% were found to be clean and 98 or 39.7% dirty.

Total number of	samples	taken	durin	g the yea	r 247
Ordinary Graded M					4 243
SUMMARY:		Cle	an.	Dirty.	Total.
Ordinary Milks			2	2	4
Graded Milks		1	47	96	243
Totals		1	49	98	247
Samples were Found	то ве (LEAN	as Fo	LLOWS :-	_
On 1st Test					117
On 2nd Test					17
On subsequent T	ests		• •		15
					149

Graded Milks.

SUMMARY:

		Clean.	Dirty.	Total.
Tuberculin Tested	1	61	33	94
Tuberculin Tested				
(Certified)		41	12	53
Accredited		45	51	96
Ungraded		2	2	4
Totals		149	98	247

	P	No. of roducers.	No. of Samples.	No. Clean.	No. Dirty.
Inside the Borough Outside the Borough		5 30	35 208	30 117	5 91
Total		35	243	147	96

Of the number of Graded Milks dirty, 91 samples were from outside the Borough, having been procured from 28 producers. Notification of the results, was given to the County Health Inspector, who procured samples at the farms. These latter samples were all reported as satisfactory.

All churns within the Borough are steam treated before return to the farms. As a rule, farmers do not again treat the churns, and there is thus a likelihood of contamination occurring between the time of treatment and churn filling at the farm. A. M. and P. M. Milkings are often mixed, and this may also result in unsatisfactory samples.

Pasteurised Milks.

Bacteri

	ımber mitted	Number satisfactory	Number un-satisfactory
	_	_	_
iological Test	 70	59	11

1 unsatisfactory on account of insufficient pasteurisation.

10 unsatisfactory on account of—failed Methylene Blue test within specified periods.

Biological Examination of Milk.

Number of samples submitted.	Number free from Tubercle Bacilli.	Number containing Tubercle Bacilli.
123	121	2 .

The following table shews the number of samples submitted for Biological Examination which were returned as "Positive" for Tubercle Bacilli during the past five years:—

1943	 	 	4
1944	 	 	4
1945	 	 	1
1946	 	 	2
1947	 	 \	2

Number of Dealers, Times	
Number of Producer's Licences granted for Accredited Milk	5
Number of Dealer's Licences granted for Accredited Milk	
Number of Supplementary Licences granted for Accredited Milk	1 -
Number of Pasteuriser's Licences granted	3
Number of Dealer's Licences granted for Pasteurised Milk	2
Number of Dealer's Bottling Licences granted for Tuberculin Tested (Pateurised) Milk.	
Number of Bottler's Licences granted for Pasteurised Milk	_
Number of Producer's Licences granted for Tuberculin Tested (Certified) Milk	2 -
Number of Dealer's Licences granted for Tuberculin Tested (Certified) Milk	
Number of Producer's Licences granted for Tuberculin Tested Milk	_
Number of Dealer's Licences granted for Tuberculin Tested Milk	5
Number of Bottler's Licences granted for Tuberculin Tested Milk	2
	20 2
Purveyors of Milk.	
(a) Shops from which Loose Milk is Sold :-	
1946	1917
(1) Where Dairy Produce only is sold 7	5
(2) Confectionery and milk 14	6
(3) General shops 7	1
(4) Dwelling houses without rounds	
(5) Dwelling houses with rounds 3	_
(6) Sale of milk on rounds only 4	_
35	12

(b) BOTTLED MILK:

DOT	TLED MILK.			1946	1947
(1)	Accredited Milk		 	_	
(2)	Pasteurised Milk		 	27	63
(3)	Tuberculin Tested	Milk	 	7	8
(4)	Loose Milk		 	35	12
				69	83

The following table shews the average fatty content of the samples procured during the last five years :—

Year.	Number of samples taken.	Average Fat content.
1943	20	3.69%
1944	36	3.36%
1945	17	3.72%
1946	41	3.59%
1947	89	3.37%

With the exception of three small dairies, the whole of the milk for the Borough is supplied by three large dairies, with the result that the milk is "Mixed," thus shewing a high average fat content.

Ice Cream Dealers.

Sections 272, 273 and 274 of the Middlesbrough Corporation Act, 1933, make it compulsory for all manufacturers of ice cream to be registered with the Local Authority.

Number	on Register	 	163
	of Visits	 	95

The results of the analyses were forwarded to manufacturers and the meaning of the terms used was explained. Prior to "Follow-up" samples being procured, interviews with manufacturers and visits to premises were made, including an enquiry into methods and inspection of equipment. As a result, a considerable improvement was obtained, as a glance at the above table will prove.

All persons retailing and/or manufacturing Ice-cream were requested to submit themselves voluntarily to the "Widal" etc. tests for typhoid fever infection. It is pleasing to record that 95% responded, and all proved negative.

ICE CREAM SAMPLES TAKEN 23.7.47 to 23.10.47.

TABLE 1-RESULTS OF "COLD-MIX" SAMPLES.

Time taken to reduce Methylene Blue.	Coliform Organisms (Not Present)	Colifo	Coliform Organisms (Present) Tubes.	iisms		Number with Pl (Thous	Number of Specimens with Plate Count. (Thousands per ml.)			Grading	gu	
(Hours).		-	01	00	0-10	101-100	101-1000	1000	-	0	0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$::=	:::	:::	. 01 10	::=	; ; 01	::-	: 01 01	1:::	:01	::	* : :
RESULTS OF	"FOLLOW-UP"		SAMPLES OF	THOSE	REPORTED	D AS GRADE	DE 4.					
44 4—21 2—0 2—2	:::	:-:	: :-	: :-	:::	:::	:	: :-	:::	-	::	: : °
			TABLE	LE 2-RI	2-RESULTS	OF "HOT-MIX"	-MIX " SAMPLES.	LES.				
$\frac{4\frac{1}{2}}{4-2\frac{1}{2}}$ 6 6 23	- 07 tf	0	· 01	. 62 51	- ;-	: * *	: 07 =	: :1	- :	: 9	::	::
RESULTS OF	"FOLLOW-UP" SAMPLES OF	" SAM	PLES 0	F THOSE	ABOVE	REPORTED	AS GRADES	3 and 4	:	:	7	91
4½ 8 4—2½ 4 2—0 16	2001-	- :0	: :-	- 23 9 0 9	63 :	13 61		:	œ : :	:4:	.::9	: :2
69	23	00	29	600	9	×	96	00				

Cowsneds.					
Number	of Cowsheds			 	10
Number	of Registered	Cowkee	pers	 	10
Number	of Cows kept			 	270
Number	of inspections	s made		 	14

Dairies and Milkshops.		Outside the Borough.
Number on Register	21	
Number discontinued since		
January, 1947	2	-
Number registered since		
January, 1947	-	
Number of Licences transferred	_	-
Number of Inspections	22	
Number of letters sent re minor contraventions, alterations		

Meat and Other Foods.

SLAUGHTER OF ANIMALS ACT, 1933.

to premises, etc. ..

Number of Notices to Limewash

There are now 71 persons on the Register of Licensed Slaughtermen.

Slaughterhouses.

				Registered.	Licensed.
December, 1920				39	3
January, 1947				23	2
December, 1947				23	2
Public Slaughter				1	
Number of Insp	ection	s (At	two		
Slaughterho					
Health (Mea	t) Reg	gulati	ons.)	1	352
Number of Notice	es to I	imev	vash		-
Number of Noti	ces to	prov	ide ref	use	
receptacles					
Number of notif	ication	s of	change	of	
occupier					
Letters re Cleanli	ness, R	epair	rs, etc.		-

Manufacture of Foodstuffs.

Sections 291 and 293 of the Middlesbrough Corporation Act, 1933, make it compulsory for all premises used or proposed to be used for the preparation of Potted, Pressed, Pickled or Preserved Meat (including Sausages), to be registered with the Local Authority.

The total number of such premises on the register is 122.

Public Health (Meat) Regulations, 1924.

The Ministry of Food took over the slaughtering and allocation of all animals slaughtered, on the 15th January, 1940.

The Public Abattoir and the Co-operative Society's Abattoir in Saltwells Road are used; a qualified Inspector is employed upon inspection at each of these premises.

The following have been slaughtered and inspected before

removal from the slaughterhouses :-

	Speci	ies	Public Abattoir	Saltwells Road Abattoir
Bulls			 178	108
Bullocks			 2,430	1,175
Cows			 1,480	1,247
Heifers			 2,372	1,231
Calves			 5,907	3,592
Sheep			 19,541	11,787
Pigs			 310	181
			32,218	19,321

Carcases Inspected and Condemned.

	Cattle	z .		Sheep	
		Cows	Calves	Lambs	Pigs
Number killed	7,494		9,499	31,328	491
Number inspected		2,727	9,499		491
ALL DISEASES EXCEPT TUBERCULOSIS:					
Whole carcases					
condemned	11	17	14	18	4
Carcases of which some part or organ was					
condemned	3,984	806	63	1,816	7
Percentage of the number inspected affected with disease other than tuberculosis	53.31	30.18	0.81	5.85	2.24
TUBERCULOSIS ONLY :					
Whole carcases condemned Carcases of which	13	150	3	_	4
some part or organ					
was condemned		1,463	12		3
Percentage of the number inspected affected with					
tuberculosis	4.99	59.15	0.16		1.42

Of the 51,539 animals slaughtered, 42,790 or 83.024% were found to be sound and unaffected by disease of any nature; 2,009 or 3.898% were found to be affected with tuberculosis and 6,740 or 13.077% were found to be affected with other diseased or conditions.

Particulars of Surrenders and Seizures of Unsound Animals and Meat:—

Number of Seizures (with Number of Voluntary subsequent destruction) of Surrenders of diseased diseased carcases or part carcases or part carcases carcases or internal organs or internal organs by: Other Other Tuberculosis Conditions Totals Tuberculosis Conditions Year. 6,503 5,452 1,051 1943 7,899 6.854 1.045 1944 7,674 6,495 1,179 1945 7,645 6,236 1,409 1946 8,749 6,740 1947 2,009 Organs only Part carcases Whole carcases affected affected affected Year 6,240 54 209 1943 7,567 63 269 1944 7,366 33 275 1945 7,247 124 274 1946 8,278 237 234 1947

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

human cons	sumption	1. (41)	Wele sulfelide	Tota territa cana	
			Number	Stones	Lbs.
Beasts			191	5,871	- 5
Pigs			8	91	8
Sheep and			18	50	10
Calves			17	44	11
Beef				2,263	21/4
Pork				18	$\frac{5\frac{1}{2}}{2\frac{3}{4}}$
Mutton				279	$2\frac{3}{4}$
Veal				2	11
Offal				6,126	$10\frac{1}{2}$
Fish				780	$0\frac{1}{2}$
Rabbits				6	10
Canned Fo	oods (Fis	h, Mea	it, Fruit,		***
	k, etc.)			695	113
Vegetable	s			271	$6\frac{1}{2}$
Miscellane				1,028	0
		Total		17,530	$10\frac{3}{4}$

The total weight of butchers' meat and other foodstuffs surrendered during the year amounted to 17,530 stones $10\frac{3}{4}$ lbs. as compared with 16,297 stones 3 lbs. in 1946 and 15,193 stones 5 lbs. in 1945.

Of the 14,748 stones 10 lbs. of butchers' meat condemned, 8,657 stones 12 lbs. were affected with tuberculosis.

During 1946, 612 stones of imported Beef and Mutton were surrendered as unfit for human consumption. During 1947, 2,542 stones were surrendered. This abnormal increase can be accounted for by the hot dry summer experienced, and the delay in transport by rail. In one case, one unventilated truck containing mutton was delayed for five days; practically the whole consignment was unusable.

During the past five years, the incidence of tuberculosis in animals slaughtered for human consumption was as follows:—

Year.	Number of Animals Slaughtered.	Number.	Percentage.
1943	64,683	1,051	1.624
1944	51,359	1,045	2.035
1945	60,504	1,179	1.948
1946	67,493	1,409	2.087
1947	51,539	2,009	3.898

Adulteration.

Public Health (Preservatives, etc., in Food) Regulations, 1925-9.

During the year, 188 samples were analysed for the presence of preservatives, all being declared genuine.

Informal or Test Samples.

405 informal and 88 formal samples were taken as below, during the year, all of which were submitted to the Public Analyst for analysis.

			Inf	formal.	Formal.
Bacon				38	
Baking Powde	er			5	
Butter				48	
Cheese				43	
Cocoa				4	
Golden Raisir	g Pow	der		1.	
Ham				2	
Jam				47	
Lard				13	
Lard (Compo	und)			35	
Margarine				48	
Marmalade				1	
Meat Paste				1	
Milk				1	88
Milk (Dried)				3	
Mixed Spice				4	
Mustard				4	
Pickles				1	
Sauce				11	
Sugar				47	
Tea				48	
				405	88
T	otal			4	193

473 samples were returned Genuine, and 20 samples Not Genuine. (See Magisterial Proceedings).

Margarine.

Number of Manufacturers		 -
Number of Wholesale Dealers		 24
Number of Premises Registered	1	 24

Butter.

There are three factories registered for making butter.

Magisterial Proceedings.

Number of Case. Complaint. Result. 1. Contravening Food and Drugs Act 1938. Fined 20/- on each Section 13. of two charges. 2. do. Fined £5 0s. 0d. on each of two charges, continuing penalty of £2 10s. 0d. per day on each charge. 3. Contravening Food and Drugs Act 1938, Fined £10 0s. 0d. and Section 24. £5 5s. 0d. Costs. Selling milk containing 10.8% Extraneous Water. 4. Contravening Food and Drugs Act 1938, Fined £3 0s. 0d. on Section 3. each (2) charge "Selling Milk 12.0% and and Costs £4 4s. 0d. 12.6% Deficient in Milk Fat." õ. Contravening Food and Drugs Act 1938, Fined £5 0s. 0d. on Section 24. each (3) charge, "Selling milk containing £2 0s. 0d. on a Extraneous Water, not less further charge, than 11.5%, 10.1%, 10.5%, and 2.8%. plus Costs £8 8s. 0d. 6. Contravening Food and Drugs Act 1938, Fined £6 0s. 0d. on Section 24. each (4) charge, "Selling milk containing and Costs £6 6s. 0d. Extraneous Water, not less than 21.7%, 24.%3, 21.4% and 16.1%." 7. Failing to comply with "Cleansing Order under P.H. Adjourned

Act, 1935, Section 83."

"Sine die."

PUBLIC BATHS.

I am obliged to Mr. Sidney Fisher, the Baths Superintendent, for the following information:—

Attendances during the year 1947.

Central Baths.

First Class Swimming Bat Second Class Swimming E	h Bath	· · ·	 $109,893 \\ 24,217$
		Total	 134,110
Gents' Slipper Baths .			 40,878
Ladies' Slipper Baths .			 8,296
Tot	tal		 49,174
Turkish Baths			 1,939
- T 1			 1,716
- *: ** Th (1			 467
Brine Foam Baths			 228
То	tal		 4,350
Cannon Street Baths.			14,504
Ciciros Cirippor			 3,499
Ladies' Slipper Baths			
To	tal		 18,003
Dacre Street Baths :-			10,868
Gents' Slipper Baths	• •	* * *	 6,118
Ladies' Slipper Baths			 0,110
To	otal		 16,986
Schoolchildren :— Total			 20,387
Youth Organisations :—Total			 6,894
Grand Total			 249,904
Grand Total			0 1 1

The increase in the attendances at the Central Baths continued and 1947 might have proved a record year, but for the fact that the Baths were temporarily closed during the Infantile Paralysis epidemic.

There was a great demand for slipper baths, no doubt due to the acute shortage of coal, towels and soap, but even so, the time has come when many more slipper baths should be provided for the public.

The Zoto-Foam and brine baths were well patronised, also the Turkish and Russian baths, proving beneficial to many sufferers from rheumatic complaints.

The filtration and chlorinating plants functioned well, but it is hoped to have a new chlorinating plant installed in the filter house during the early part of next year; the present plant having been in operation for 15 years.

SECTION F.

PREVALENCE OF AND CONTROL OVER INFECTIOUS AND OTHER DISEASES.

The total number of notifications received during the year was 5,020 compared with 3,697 in the previous year.

Diphtheria.

The cases notified numbered 41 against 52 in the previous year: there were no deaths.

Scarlet Fever.

There was an increase in the cases notified. 522 notifications were received as against 362 for the year 1946. The individual cases, however, continued to be of a mild type. There were no deaths.

Enteric Fever.

There was no evidence of this disease.

Cerebrospinal Fever.

Notifications of Cerebro Spinal Fever increased from 20 cases in 1946 to 23 in 1947. There were 4 deaths.

Erysipelas.

There were 33 notified cases.

Puerperal Pyrexia.

Sixty-one cases were notified.

Paratyphoid Fever.

There was no evidence of this disease.

Dysentery.

Notifications of Bacilliary Dysentery numbered 4, as against 9 for the year 1946.

Measles.

During the year, 2,755 notifications were received as compared with 931 for the year 1946. There were 6 deaths. All cases were visited and kept under observation by Health Department Nurses.

Chickenpox.

679 notifications were received of whom 391 occurred in school children. All cases were visited by Health Department Nurses.

Whooping Cough.

There were 326 cases notified during the year with one death as compared with 514 cases and one death in 1946. All cases were visited by Health Department Nurses.

Ophthalmia Neonatorum.

Seven cases were notified, all of which recovered with unimpaired vision.

Influenza.

There were 18 deaths from this disease as compared with 17 in the previous year.

Influenzal Pneumonia.

Three cases were notified.

Acute Primary Pneumonia.

There were 163 cases notified, and there were 44 deaths

Smallpox.

No case occurred during the year.

Anterior Poliomyelitis.

There were 14 cases of this disease during the year, none of which was fatal. The first case appeared in May and the last one in October with maximum incidence in August and September.

The cases were scattered with the majority occurring in the western half of the town.

The ages varied from nine months to 20 years, five cases being under five years, seven cases age group 5—14 years, and two cases age group 15—24 years.

All cases were treated at West Lane Hospital where full facilities exist, including two iron lungs.

Special precautions taken included the showing of the Ministry of Health film to all doctors and nurses, the closing of Saturday morning matinees for children and the stopping of organised bathing facilities and of special Saturday morning swimming sessions for school-children.

Gastro-Enteritis.

There was a high incidence of Gastro-Enteritis during the year; 57 deaths were notified, which compares with 13 in 1946 and 52 in 1945.

A high incidence was evident throughout the country and may be attributed to the hot, dry summer with its increased liability to the dust contamination of food and drink.

Vaccination Returns.

	1946.	1947.
Number of Births Notified	3,392	3,606
Successfully Vaccinated	1,036	1,188
Died Unvaccinated	188	226
Insusceptible to Vaccination	7	9
Declaration of Conscientious Objection	1,559	1,796
Postponed, whereabouts unknown, or		
removed	447	288
Percentage Successfully Vaccinated	30.53	32.94
Had Smallpox	-	_

DIPHTHERIA IMMUNISATION.

The work of Diphtheria Immunisation carried out by the Public Health Department in the year 1947, is shown by the following figures:—

No. of children under 5 years of a	ige	
immunised		 1,756
No. of schoolchildren immunised		 381
No. of reinforcing injections		 2,355

The following are the percentages of the total number of children in the town who have been immunised in the two groups:—

Percentage of children under 5 years of		
age immunised	٠.	49.08%
Percentage of schoolchildren immunised		75.03%

A reasonably high level of immunisation has therefore been maintained during the year.

This fact is reflected in the comparatively few cases of diphtheria notified in the town during the year, which numbered 41 and there being only one death due to diphtheria in 1947.

It is necessary to press ahead however, to secure if possible, that every child is immunised against diphtheria as soon as possible after the age of 8 months. It is only when at least 75% of all children in the town are immunised that we can be certain of a marked reduction in the incidence of diphtheria.

Full use of publicity material has been made during the year to advertise the efficiency of Diphtheria Immunisation and the facilities available locally. Free facilities exist at schools, school clinics and infant welfare centres for the carrying out of this work.

WEST LANE HOSPITAL.

This hospital provides 189 beds for infectious diseases and 36 beds for adult female Pulmonary Tuberculosis.

Whilst no major changes took place at the hospital during the year the hospital was extremely busy and coped with an increased number of cases compared with 1946. The hospital admits infectious diseases not only from Middlesbrough, but from Thornaby and wide areas of the North Riding and is always ready to accommodate special cases from other Authorities who do not possess the necessary facilities. Many Service patients have been admitted from as far as Catterick and Barnard Castle.

50% of the admissions during the year were due to Scarlet Fever which was, however, of a mild type and the most serious infection that the hospital had to deal with was that of Gastro-Enteritis in young babies and of this, the death rate, although high, compares more than favourably with other areas of the country.

The standard of work at the hospital has remained at a very high level and reflects great credit on the Matron and nursing staff. Matron, Mrs. B. Gardner, will be due for retirement in 1948 and she will be greatly missed from this hospital which she has served so faithfully for the past 25 years.

During the year, 8 nurses were presented for the Final Fever Certificate and 8 for the Preliminary Certificate of the General Nursing Council. All the candidates were successful and thus maintained the 100% pass which has been a feature of the past few years.

This fact reflects great credit on the Sister Tutor who has been largely responsible for the training of the nurses and on the Medical staff who have undertaken lectures. The following table indicates the admissions, discharges and deaths in the isolation part of the hospital during the year for the various diseases; all figures relating to actual diagnosis as established at the hospital. (The admissions etc. to the sanatorium section are reported under the section dealing with tuberculosis).

	R	emaining 31/12/46.	Admitted 1947.	l.Discharge 1947.	d. Died. 1947.	Remaining 31/12/47.
Diphtheria		9	57	56	2	8
Scarlet Fever		31	610	616		25
Tonsillitis		2	75	76		1
Dysentery Non-Specific			5	3	1	Î
Enteritis		1	118	77	39	3
Cerebro Spinal			- CO.		.00	9
Meningitis			21	17	3	1
Tuberculous						
Meningitis .			3		3	
Lymphocytic				1.5	·	
Meningitis .			2	2		
Streptococcal				_		
Meningitis .			3	2	1	
Pneumococcal				2		
Meningitis .			2	1	1	
Puerperal Pyrexia		1	35	34		2
Ophthalmia				01		2
Neonatorum .		1	6	6	1	
Domahiana			6	. 5	î	
D. P			16	16		
Polio-encephalitis.			2	10	9	
Envisional and			11	10	2	
Pneumonia (Lobar)		1	4	4	1	
Broncho Pneumoni			6	3	3	
Measles		8	70	75	2	i
German Measles .			13	13	-	1
Whooping Cough .			13	11	i	i
Chickenpox .			- 6	6		1
Mumps			3	3		
Miscellaneous .		2	120	112	2	8
	***	56	1,207	1,148	64	51

Analysis of Diphtheria Cases.

$\begin{array}{c} {\bf Immunised} \\ {\bf Non\ Immunised} \end{array}$	 6 3	19 38	21 35		4
	-				_
	9	57	56	2	8

Diphtheria.

There were 57 cases of Diphtheria admitted during the year, two of whom died. Both these fatal cases occurred in unimmunised children under six years of age. The majority of the cases were infected with the Gravis type of organism. The complication rate in the remaining patients was very low.

Scarlet Fever.

There were 610 cases admitted during the year, with no deaths as compared with 463 cases and no deaths in 1946. The cases continued of a mild type with a low complication rate. The septic complications which did occur (ear, glands, sinuses etc.) responded most satisfactorily to modern chemo-therapy.

Enteritis.

There were 118 cases of non-specific enteritis admitted during the year, with 39 deaths as compared with 64 cases and six deaths in 1946. The majority of cases were under two years of age and all the deaths with two exceptions occurred in children under one year. In most of the fatal cases, no causative bacterial agent could be isolated and no response was obtained to treatments.

Cerebro-Spinal Fever.

Twenty-one cases in all occurred throughout the year, with 3 deaths as compared with 18 cases and 2 deaths in 1946. The infection is always of a serious nature. One patient was referred to the neurosurgical unit at Newcastle on account of a residual defect. The remainder recovered completely.

Tuberculous Meningitis.

Three cases occurred, all fatal, the same number as in 1946.

Acute Anterior Poliomyelitis.

Sixteen cases in all were treated in the hospital between May and October. The majority of cases were of a less severe variety, and the speed of recovery of muscle power was in many case beyond expectation. Three patients were transferred to other hospitals for further treatment, whereas the remainder were discharged home under the care of an orthopaedic surgeon, if not completely recovered, for continued out-patient treatment and supervision.

Puerperal Pyrexia.

Thirty-five cases were admitted with no deaths, as compared with 33 cases and no deaths in 1946. The majority of these were of a mild nature, responding well to modern treatment, and causing no anxiety so far as life was concerned.

Ophthalmia Neonatorum.

Six cases were admitted during the year. In most instances the ophthalmia cleared up rapidly with sulpha or Penicillin treatment. One infant died from an inter-current infection.

Pemphigus Neonatorum.

Six cases were admitted during the year. The skin lesions responded readily to modern chemo-therapy. One infant died from an inter-current infection.

Measles.

Seventy cases were admitted with 2 deaths, as compared with 44 cases and 2 deaths in 1946. The majority of the 70 cases were admitted on account of the development of Bronchopneumonia.

Whooping Cough.

Thirteen cases were admitted during the year, with one death. Most of these were admitted on account of a complicating Broncho-pneumonia.

SCABIES.

The work at the Municipal Scabies Treatment Centre, housed in premises adjacent to the Public Baths, has been fully maintained during the year. Facilities exist for the treatment of adults as well as schoolchildren and infants.

Attendances at the Middlesbrough Scabies Clinic for the year ended December, 1947.

			word work	
Adults :				
Male				 116
Female				 142
			Total	 258
SCHOOL-CHILDREN	:			
Male				 141
Female	* *			 162
			Total	 303
UNDER SCHOOL A	GE :-			
Male				 38
Female				 35
			Total	 73
Total nu	mber o	f pati	ents	634
Total nur				 2,134

TUBERCULOSIS.

I am indebted to Dr. M. Walton, Clinical Tuberculosis Officer, for the following report:—

Notifications.

There were 285 persons notified as new cases of tuberculosis during the year. This is an increase of 40 compared with the year 1946, i.e., an increase of approximately 15%.

The distribution of this number of cases is as follows:

Males 126.

Females 97.

Children under 15 years, 62

Deaths.

127 persons died from tuberculosis in Middlesbrough. This gives the rate of 90 per 100,000.

Of the 127 deaths, 82 were males and 45 were females. Pulmonary tuberculosis accounted for 120 of the deaths and 7 non-pulmonary. The age and sex distribution of the total deaths from tuberculosis is as follows for 1947.

Males:

Age group	5	-10 -	-15	-25	-35	-45	-55	65	65+	Total
No. of cases	1	1	1	7	9	18	23	18	4	82

Females:

Age group	5	-10	15	-25	-35	-45	-55	-65	65+	Total
No. of cases	5	1		15	9	8	4	2	1	45

Case Finding.

Chest Clinic:

Through the co-operation of the Medical Superintendent and the Consulting Radiologist at the General Hospital, a weekly session was opened in the out-patients' department on 30.1.47 The session is held on a Thursday at 1-30 p.m. and cases referred from the general practitioners are x-rayed, a detailed history taken and examined. At the same time, a wet film is available for scrutiny.

That this "chest clinic" is used more by the general practitioners than the Dispensary, is seen by comparing the number of cases seen during 1946 and 1947. During 1947, 1,300 new patients were seen at the Chest Clinic whereas in 1946, 689 cases were referred to the Dispensary for the first time. A clinic operating in a general hospital avoids the stigma unavoidably attached to the Tuberculosis Dispensary.

Contact Examination:

All "contacts" of cases of tuberculosis are reviewed. Irrespective of symptoms, those over the age of 5 years are x-rayed and those under 5 years are tuberculin tested and the positive reactors chest x-rayed.

During the year, 609 contacts were reviewed and 35 cases of tuberculosis discovered. The following table indicates the age and sex distribution of contacts.

Malan	17
Males.	Females

Age Group	No.	Abnormal Shadows	Notfied Tuberculous	No.	Abnormal Shadows	Notified Tuberculous
ó—1				3		
1-2	9			9	1	1
2-3	6			15	3	2
3 - 4	8	3	1	14	2	1
4-5	22	3	3	14	1	5
5-10	45	5	2	90	21	
10-15	38	5	3	74	4	1
15-25	30	3	1	47	2	1
25-35	25	3	1	56	9	8
35-45	14	2	2	52	9	٠
15-55	10	2	1	19	3	1
55-65	2	1	1	7	1	
Over 65						

The figures for age group 5—10 and 10—15 in females includes a radiological survey of a girls' institution when two open cases of pulmonary tuberculosis were discovered.

A survey was commenced during the last five months of 1947 to ascertain the size of the problem of childhood tuberculosis in Middlesbrough and its relation to over-crowding.

Method of Investigation.

 Age 0—5 years children contacts were tuberculin tested with Tuberculin Jelly (Allen & Hanbury) and the positive reactors chest x-rayed.

Definition.

Contact Child is one who is or has been in domestic relation to a case of tuberculosis.

Negative case contact is one who has been in contact with a case of tuberculosis from whom the tubercle bacillus has never been isolated.

Positive case contact is one who has been in contact with a case of tuberculosis excreting the tubercle bacillus.

Over-crowding:

34

Over-crowding exists when the case of tuberculosis has not separate sleeping accommodation.

Table 1.

Tuberculin Reactions of Total Tested.

Positive Contacts.

No. Positive. Percentage. No. Positive. Percentage.

36

8

22%

Table 2. Age Distribution of Contacts.

63%

Positive Contacts. Negative Contacts.

Age/yrs.	No.	+ve	%	Age/yrs.	No.	+ve.	%
0-1	1			01	2		
1-2	14	6	43%	1-2	4	1	25%
2-3	17	9	53%	2-3	7		
3-4	6	5	83%	3-4	9	2	22%
4-5	7	6	86%	4-5	5	1	25%

Table 3.

54

Relation of tuberculous infection to overcrowding in Positive contacts.

			,		
No.		Percentage.			
14	13	93%	36	8	25%

The Survey.

The figures are small but only five months work has been included.

They agree substantially with the results of many other surveys conducted over the country. In table 1 is shown the greatly increased risk of developing tuberculosis in a contact of an "open case" as opposed to a "closed case." In table 2 is shown the increasing percentage of positive reactors as the age scale is ascended until 3-4 age group 83% are already infected in contact with open cases, whereas the figures for the closed cases are never higher than 25%.

In table 3 is graphically illustrated the effect of over-crowding in the spread of tuberculosis. In over-crowded positive households, 93% of contact children develop tuberculous infection. In non-overcrowded positive households, 25%.

The Problem is twofold. A. Prevention.

B. Treatment.

- A. Prevention of childhood tuberculosis depends on-
 - (i) early diagnosis and isolation of positive cases;
- or (ii) removal of the child from the tuberculous household.;
- or (iii) vaccination of tuberculin negative children with B.C.G.

All are ideals towards which we are moving, but none is capable of immediate introduction in Middlesbrough because—

- the home factor—some patients refuse treatment and stay at home.
- (ii) parents refuse to allow children to be taken from them.
- (iii) B.C.G. has not been introduced as yet in this country.

B. Treatment.

In general, cases fall in two groups.

- (i) Symptomless Primary Complex—if home conditions are good and the cause of infection has been removed they are best kept at home under serial observation by x-ray.
- (ii) All other cases of clinical tuberculosis—treatment in a suitable institution, sanatorium or hospital is required.

In the five months, August—December 1947, there have been 36 cases of clinical tuberculosis in children under the age of fourteen years, distributed as follows:—

Age.	No. of Cases.
0—3 yrs.	9
3—6 ,,	9
6—9 ,,	7
9—12	4
Over 12	7

Beds available in Middlesbrough for children with tuberculosis include—

in the children's ward at Hemlington Hospital, any beds not occupied by bone tuberculosis, usually 3. 8 beds in Poole Sanatorium.

All clinical tuberculosis cases in childhood are long term cases being in hospital, on an average, one year. Those over the age of five years are in need of schooling and negotiations for a further ward at Hemlington are in progress at the time of this report.

For children under three years, i.e., cot babies, it is a question of isolation from their infective homes until the dangerous years of heavy mortality have passed.

The mortality in childhood bears a great deal on the age of infection.

Age in years at first infection.	Mortality (Wallgren).
0—1 yr.	35%
1—3 ,,	15%
3—7 ,,	4 %
7—14 ,,	0.8%

In this short survey no mention has been made of infection by bovine bacilli in milk and many omissions in the pathogenesis of childhood tuberculosis have been made. However, if the need for further bed accommodation for childhood tuberculosis has been made apparant, then some reward has been given to the untiring efforts of the Health Visitors on whose work this survey was completed. Mass Radiography.

During the year, the Unit allotted to Middlesbrough has been built up and hopes to start work in the early part of 1948.

A Medical Director, organising secretary and senior radiographer were appointed and in November they attended a course of instruction for one month at the Ministry of Health Unit in London.

The Unit is based at the General Hospital where suitable alterations to Block 17 are planned. It will eventually be mobile and extend its service outside the County Borough. The Unit is working as an integral part of the tuberculosis service, the Medical Director is also Assistant Tuberculosis Officer.

Dispensary Supervision.

Cases are reviewed from time to time at the Dispensary at 35 Grange Road. During the year an appointment system was introduced and each patient is given a time and date for his/her next appointment, thereby saving time spent in the waiting room. This arrangement is popular with the patients and also allows for a close check on attendance of "shy" attenders. There were approximately 3,000 attendances at the Dispensary during the year. Clinics are held on a Monday and Wednesday morning and also Monday evening for patients who are working.

The three Health Visitors made 6,800 visits to homes of cases during the year. 900 pathological specimens, mainly sputum and laryngeal swabs, were examined during the year.

The use of Calciferol in the treatment of lupus vulgaris has brought satisfactory results to many old standing cases who have suffered years of treatment by other methods.

Three cases have been referred for plastic surgery of the face—following retrogression of the skin tuberculosis. Encouraging results have also been obtained with Calciferol in the treatment of tuberculous adenitis and epididymitis.

A. P. Clinics.

80 patients attend as out-patients for refills of pneumoperitoneum and pneumothorax. Through the courtesy of the Radiological Department at the General Hospital, facilities for screening and radiological control are afforded at twice weekly clinics held at the General Hospital on a Tuesday and Friday morning at 9 o'clock.

During the course of the year, 2,880 refills were given.

X-Ray Examination.

Including Chest Clinic radiographs and Dispensary surveillance radiographs, 2,402 films were taken during the year. Once again it is our privilege to pay high tribute to the consistently high standard of work and continued courteous co-operation of the radiological department at the General Hospital.

Occupational Therapy.

During the year a full time occupational therapist was appointed to work in the tuberculosis service and provide diversional occupational therapy for patients in sanatorium beds at the General Hospital, West Lane and Hemlington, as well as patients under supervision at home.

Leatherwork classes are held at Grange Road on two afternoons per week and are well attended by out-patients. Among the handicrafts available are embroidery, leatherwork, rug-making, weaving, feltwork, etc. The occupational therapist links up his department with the woodwork centre established in 1946 by the Care Committee in Meath Street.

Pulmonary Tuberculosis Patients dealt with under the Scheme of Allowances (266T), year ended 31st December, 1947.

Patients referred for investigation				163
Current cases at 31.12.47 including 21 brought forward from 1946 Discontinued (for reasons stated be Ineligible)			61 69 33
				163
Discontinued :-				00
Working or fit for work				22
Died				20
Not Tuberculous				5
Awarded Ministry Pension				5
Admitted Hospital and in receipt	of sic	kness]	Benefi	t 7
Married				t 7 4
Self discharged from hospital				1
Compensation claim paid				1
Eligible for Old Age Pension				1
Eligible for sickness benefit				1
Refused allowance				1
Ex hospital				1
				00

Nature of Allowances Granted.

Maintenance. Discretionary. Special.

The amount disbursed during the year ended 31.12.47, was-£5,615 6s. 0d.

Institutional Treatment.

POOLE SANATORIUM.

164 patients from Middlesbrough received treatment in this sanatorium during the year. This is an increase of 68 over the previous year. There has been a greater number of transfers between the beds in Middlesbrough and those at Poole, thus utilizing the advantages of the excellent thoracic surgery unit to the full. Pneumothorax patients who need adhesion section are transferred to Poole for this operation and when the treatment is satisfactorily established, returned to the Middlesbrough hospitals for continuation of in-patient treatment. In this way, the maximum benefit of Poole is extended to the maximum number of cases.

The index of such increase in treatment is seen in the figures given in the preceding paragraph for pneumothorax and pneumoperitoneum refills.

The Children's Block was opened on 6.5.27 and affords Middlesbrough 8 beds. These have been kept fully occupied and the children without exception, have done well. Full teaching facilities and occupational therapy are available for the children.

70 patients remained in the Sanatorium on 31.12.47.

WEST LANE SANATORIUM.

147 female patients were treated in the sanatorium during the year.

6 beds reserved for cases from Durham County were fully occupied for the year.

600 artificial pneumothorax refills were given; 39 phrenic nerve operations were performed.

GENERAL HOSPITAL SANATORIUM BLOCK.

277 male patients were treated during the year. 6 beds reserved for cases from North Riding of Yorkshire were fully occupied.

550 artificial pneumothorax refills were given; 26 phrenic nerve operations were performed.

HEMLINGTON HOSPITAL.

87 patients were treated in this hospital. Through arrangements with the Medical Superintendent, beds were made available for non-tuberculous chest conditions and "closed" tuberculous cases, e.g., pleurisies, bone and joint and gland patients. The children's ward has been of inestimable value particularly for the type of case such as "primary complex" and pleural effusion. The Consultant Orthopædic Surgeon, Mr. Reid, supervises the treatment of the bone and joint cases and good results have been achieved.

29 cases remained in hospital on 31.12.47.

SHOTLEY BRIDGE THORACIC SURGERY CENTRE.

7 patients were transferred to Shotley Bridge Emergency Hospital for thoracic surgery. They included malignant lung, bronchiectasis, lung abscess and hydatid disease of the lung.

Conclusion.

Middlesbrough is particularly fortunate in that there are 170 beds available for the treatment of tuberculosis. Except for children, the average time between diagnosis and admission to hospital is rarely more than one month.

With the advent of the National Health Service scheme and the distribution of beds on a regional basis, the County Borough will probably suffer from curtailment of accommodation available.

At present, open cases diagnosed in the hospitals in the town are immediately transferred to tuberculosis wards, a feature appreciated by the general practitioners and surgeons.

The allocation of "extra points" in the distribution of houses to tuberculous families by the Housing Committee ensured the rehousing in more suitable surroundings of many of our patients. This scheme has much to commend it and in reducing the overcrowding, is directly diminishing the rate of infection in tuberculous households.

The propaganda leaflets issued by the National Association for the Prevention of Tuberculous, form a useful adjunct to the more personal advice given by the Health Visitors. In particular, the leaflet dealing with the hygiene of the home is very valuable and is distributed to each patient.

VENEREAL DISEASES.

It will be seen from the figures in the appended tables that there was a decrease during the year in the number of new cases attending the Clinic, there being 1,204 for the year, as compared with 1,444 for 1946.

This decrease has shown itself both in Gonorrhoea and in Syphilis, the comparable figures being as follows:

e				
Syphilis.			1946	1947
	Males Females	 	 222 82	196 61
Gonorrho	ea.		1946	1947
	35-1			*******
	Males Females	 	 286	284
	remaies		 70	50
14.00				

No staff changes took place during the year, the work being under the direction of Dr. A. Alun Williams to whom I am indebted for the compilation of the statistical part of this section.

It will be seen that the work of this department is still very extensive and much hard work is entailed in the treatment of patients, following up of contacts and in the detailed administrative work, including the completion of reports and returns to the Ministry of Health.

Institutional facilities continued for in-patient treatment at the General Hospital.

Propaganda as to the prevention of Venereal Diseases and the importance of early and adequate treatment has been continued by the use of posters, leaflets and other literature from the Central Council for Health Education. The staff of the Port Health Authority have co-operated in this propaganda amongst seamen.

Regulation 33B.

The cases brought to the notice of the department under these regulations were followed up to the greatest possible extent. The following figures show the work which was undertaken during the year in this connection:—

(1)	(a)	Total number	of cont	acts in	****	Males	Females	Total
	(b)	Number in (a)	1 I was	received	1		11	11
		other areas					1	1

(2)	Number of cases in (1) in which attempts were made during the current period outside the scope of the Regulation to persuade the contact to be examined before the latter had been named on a second Form 1:—			
	Contacts found		10	10
	Contacts examined or already under treatment		8	8
(3)	(a) Number of those in (1) in respect of whom two or more Forms I were		1	1
	(b) Number included in (3) (a) in respect of whom the first Form I was pre-			
	viously reported under (1)			
	(c) Number included in (3) (a) transferred from other areas		1	1
(4)	Number of those in (3) (a) who were :-			
(4)	(a) found		1	1
	(b) examined after persuasion, or already under treatment		1	1
	(c) served with Form 2	• •		
	(d) examined after service of Form 2			
	(e) prosecuted for failure:— (i) to attend for, and submit to medical examination (ii) to submit to and continue			
	treatment			
	(f) transferred to other areas .			

ALMONER'S REPORT, 1947.

The year 1947, has been a busy and interesting one. More than 600 visits have been made and over 700 letters sent. A number of those patients who were visited, would have failed to continue their treatment had it not been for the personal persuasion of the almoner. Importance of treatment is especially stressed to expectant mothers, and such cases are vigilantly followed up to see that they continue their treatment throughout pregnancy. Patients are asked to bring their babies, and if treatment for the new born baby is found to be necessary, the mother is encouraged to bring her child for regular treatment.

During the year, 53 children were examined and of these, 11 are now under treatment, the rest were found to be free from disease.

Information concerning 32 contacts comprising 30 females and 2 males, was obtained at the centre, notifications made and action taken, thus bringing under treatment a large number who would otherwise have drifted.

Notifications under Regulation 33B.

Notifications received	Males	Females
Number of contacts traced	 	11
Number of contacts traced	 	10
Number of contacts examined	 	8

The ages of the above range from 21 to 45 years.

Annual Return of Seamen Treated at the Special Treatment Centre, General Hospital, Middlesbrough, during the year 1947.

ď	uring	the year	r 1947.	1411.0	diesprou	gh,
Nationa					No. of C Treate	
British (British Isles	only)			150	
British Empire.	J., ,	/			179	
Aden						
Australia		* *			8	
Canada		1.1			1	
					9	
Cyprus	* *	6.40			1	
Eire		1.4	+ +		5	
India					19	
Malta G. (9	
Newfound	and				ī	
Seychelles					1	
South Afri	ca				1	
West Afric	a				1	
West Indie	s	100			0	
Foreign.					6	
America						
					5	
Argentine					1	
China					5	
Denmark					10	
Estonia		4.4			5	
Equador					1	
Finland					25	
France				٠.		
Greece	* 4				2	
Holland	200				9	
Latvia					11	
Norway					2	
Poland					36	
Spain					2	
Sweden					4	
Zanzibar					72	
Zanzibar					1	
Total N co						
Total No. of S	eame	n who at	tended		425	
Britis	sh					
Britis		mire			179	
Forei	gn	Thro			55	
20101	0				191	

105

SPECIAL TREATMENT CENTRE.

Number of Cases under Observation and Treatment on December 31st, 1947.

Tota Cases	Total		Cases	Other	Gonorrhoea		Soft Chancre		Syphilis	
Cube	F.	М.	F.	М.	F.	M.	F.	М.	F.	М
616	277	339	23	60	33	67	1	9	220	203

Number of Cases and the Diseases they were suffering from, dealt with for the first time during the years 1937 to 1947.

	Syph	Syphilis		ft ncre	Gor		Oth		То	tal	Grand Total
Year	M.	F.	М.	F.	М.	F.	М.	F.	М.	F.	20.00
1937	113	37	8		254	23	148	18	523	78	601
1938	92	41	16		230	34	159	33	497	108	605
1939	63	12	10		156	33	118	28	347	73	420
1940	42	14	3		135	18	92	29	272	61	333
1941	67	21	18		237	30	88	29	410	70	480
1942	167	17	20		172	12	125	48	484	77	561
1943	155	63	12		208	10	213	127	588	200	788
1944	140	67	10		207	40	247	113	604	220	824
1945	145	79	15		327	62	287	166	774	307	1,081
1946	225	82	21		386	70	509	151	1141	303	1,444
1947	196	61	21	1	284	50	489	102	990	214	1,204

Middlesbrough C	ases	 	 456
Seamen		 	 425
Other Cases		 	 323
			1.204

Congenital Syphilis.

Cases Classified in Age Groups.

Sex	Under One Year	to 5	5 to 15	Over 15 Years	Tota
MALE	1	1	5		7
FEMALE	1	1		2	4
Total	2	2	5	2	11

106 Total attendances in 1947 of all persons suffering from :—

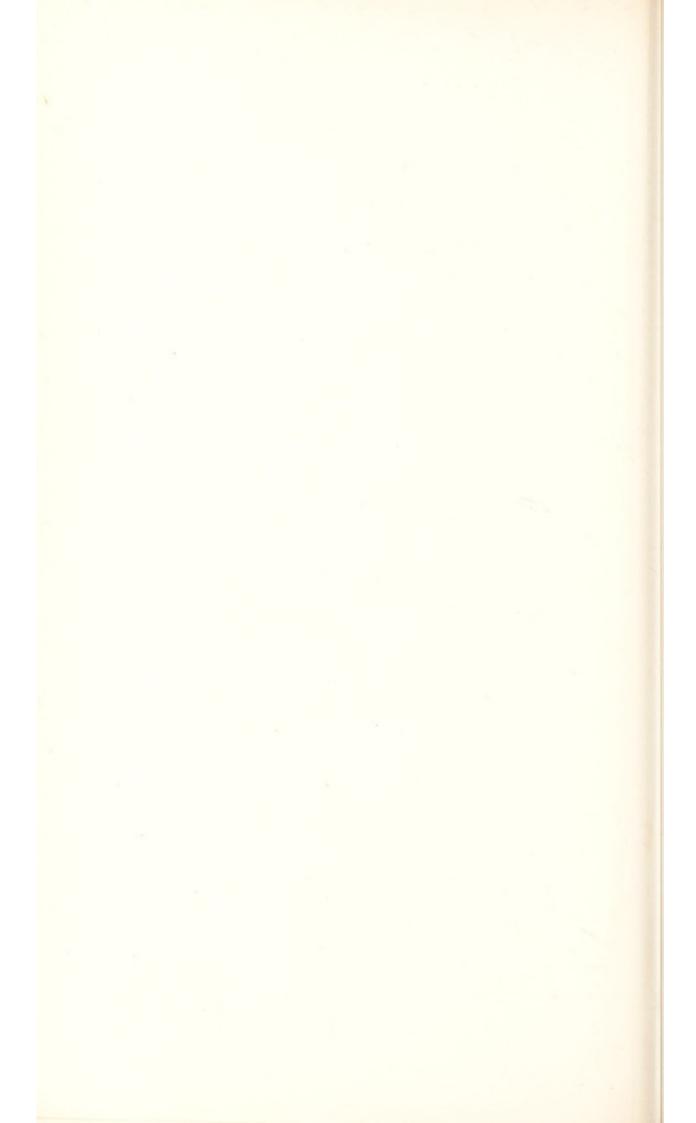
Syp	hilis	Char		Gono	rrhoea	1 30	ther	То		
M.	F.	M.	F.	М.	F.	M.	F.	M.	F.	Grand Total
2,948	2,274	47	1	1,057	359	1,742	516	5,794	3,150	8,944

Middlesbrough	 	 5,226
North Riding of Yo	ire	 2,088
County of Durham	 	 501
Other Areas	 	 1,129
Total	 	 8,944

Sessions and Attendances during 1947.

M.			Males		FEMALES						
Mont	H	No. Sessions	Attend- ances	Average	No. Sessions	Attend- ances	Average				
January		26	457	17.6	13	259	19.9				
February		24	282	11.75	12	192	16				
March		26	380	14.62	13	245	18.84				
April		22	369	16.77	11	214	19.5				
May		24	377	15.71	13	244	18.8				
June		26	278	10.69	12	193					
July		26	413	15.9	14	198	16.08				
August		24	383	15.95	12	179	14.14				
September		20	429	21.405	13		14.91				
October		23	405	17.61	11	195 180	15				
November		20	360	18	13	202	16.36				
December		18	316	17.5	10	155	15.5 15.5				
Total		279	4,449	15.94	147	2,456	16.71				

STATISTICAL TABLES.



108 TABLE I.

ABRACT OF HEALTH REPORTS FROM 1898 TO 1947.

		Death Bate	Rate		Death Rate	Smale	191	Park Production		Perer	Diphthetia	& Extents	Ceago	Des		Canon	Devot Via	Pommenia	Tuberrolesia	Induces		DAME.	Appendicitie	Nephri		Torer	Case		Birth,		Deaths	57	phille
Tear	Pepula- tion	No. of Doubles	No. per He of 1000 Hieths pop. V	and	60 1000 5-	Notified	State per 2000 perc.	Treate Park	State per 1000 pep-	Political state por 1000 pop.	Marin	Bate per 1000 1000 1000	Hate per 1000 pep.	Settiled Deaths	Bate per 2000 pags.	Bate per 1000 pep.	Deaths flads per 1000 pag.	Netfiel Deaths Rate per 1000 page.	Nection Deaths Rate per 1000 per	Pentha 10	O H	State per 1000 pep.	Design pur	Deathe	Lane per 0000 Sign	State per 1000 pep.	Deaths	Rate per 1000 pep.	Deaths	Rate per 1000 pep.	Railed Desired	Oratha S	Hate per 100 pep.
1895	89,540 93,518	1,967 22.04 17.5 2,688 22.17 18.9	2,994 32,52 3,130 53,47	29.3	500 100 100 575 182 101	1,397 1	10 2.23				54 14 0.14 30 9 0.10			0			96 1.08 154 1.43	255 2.62				1.25		14 (0.02		0.04	719 195		\$6 Q.6 \$0 Q.6		0.06
1900	97,007	2,407 25.07 18.2 1,995 21.90 10.9	3,243 34.60	28.7	663 198 154	0		1 1	0.24	284 13 0.13	25 2 0.03	62 0.04	30 0.40	0		71 0.65	158 1.63	340 3,63	247 2.50	28 0.1	22 147	1.61		24 (1.25 2	0.60	11				72 0.7 92 0.8		0.07
1901		1,912 20.48 16.3	3,370 36.00	25,5	#19 182 134		:				104 08 0.02						87 0.93	204 3,76	218 7.44			1.34		28 0		0.00	12				18 0.5		
1903	95,013	2,072 21.77 18.8 1,034 20.00 16.3	2,489 26.72	28,4	680 186 115	13	1 0.00	0 - 0	0.71	232 3 0.00	117 32 0.34	160, 1.68	15 0.16	1	0.01	53 0.57	100 1.10	345 5.63	200 2.33	15 03				20 1		0.64					63 0,6		0.08
1904	96,519	2,063 21.18 15.3				14 (0				19 11 0.11 107 34 0.34				0.00		117.1.11	255 2.74						29 0		0.04					53 0.5 64 0.6		
1906	200,009	2,072 20.72 18.6	3,594 38.91	27.3	811 170 133	0 1	0	B . B	0.22	614 13 0.12	97 21 0.21	227 2.26	40 0.29	0		71 0.69	110 1.00	315 3.16	170 1.60	6 0.0	06 157	1.07		29 6	3 42.6	0.00	16	0.16	235	2.35	59 0.5	0 21	0.21
1907	101.783	2,077 20,46 15,1 1,006 10.50 14.8				3 3	0				120 31 0.31 179 30 0.29						110 1.11 108 1.04	437 4.29		24 0.1 14 0.1				19 6		0.02	13				63 0.5		
1100	103,255	2,043 19.41 14.6	3,583 31.10	25.6	637 941 100	0 1		1 a	0.55	100 1 0.01	97 22 0.22	100 1.04	69 0.66	0		88 0.81	132 1.25	300 5.72	200 1.92	18 03	17 145	1.36	44	36 0	.34		10	0.10	222	2.20	10 0.4	8 10	9.10
2911	105,124	1,822 17.02 13.8 2,101 19.98 14.4				2 3	3 5 8				143 35 0.33 107 94 0.35						100 1.14	354 3.21				1.02		27 0		0.01					60 0.8 49 0.4		0.04
1015	100,554	1,897 17.80 13.4	3,402 31.88	24.0	432 131 94	0 0		10 10 10	1.00	341 71 0.19	104 21 0.20	\$0 0.47	7 0.07	0			138 1.30	302 2.83	204 172 1.61	8 03	08 133	1.24	6 0.06	30 0	.28	**	11	0.10	100	1.84	65 0.6	1 9	0.08
1913	107,993	1,054 18.09 13.8 2,443 19.32 14.0					9				148 27 0.20 317 55 0.46						187 1.44		600 175 1.60 607 223 1.76							0.03	15				70 0.6 12 0.5		0.04
1918	110,001	2,060 20.11 15.7									261 47 0.40						173 1.48		770 230 1.96						141 2	0.02	22	0.10	116	1.67	CE 0,5	6	44
1914	115,548D 125,718B	2,089 18.07 14.3	3,535 28.12	21.9	430 111 91	0 0	100	25 80 24 7	0.08	415 10 0.14	366 52 0.45	114 0.99	27 0.23	0	1 2	79 0.68	151 1.11	365 3.16	614 204 1.70	15 0.1	11 116	1.08	2 0.03	45 0	(39 2	0.03	11	0.10	227	1.51	87 0.2		
1917	119,351D 121,911B	9,008 19,05 14.3	2,056 23.02	18.1	460 151 96	0 0	5	De Mile Lite Silv	1.11	100 3 0.03	219 26 0.24	104 1.04	30 0.33	0	20	00.00	162 1.30	390 3.97	604 228 1.02	11 0.0	09 109	0.91	3 0.03	41 0	34 2	0.02	16	0.14	163	1,37	61 0.5	4	44
1918	118,962D 129,696B	2,643 22.81 17.3	3,327 23.04	17.4	483 143 93	0 0	3	10 Mir to 15	0,10	158 4 0.04	164 25 0.22	112 0.98	57 0.49	0	0	97 0.83	160 1.30	. 634 5.47	434 217 1.87	163 3.0	04 100	0.83		24 0	1 1	0.01	20	0.08	158	1.36	67 0.5	8	
1919	127,142D 127,444B	2,330 18.30 14.0	3,531 24.66	18.5	493 159 89	3 1	-	10 To Use 202	1.00	411 10 0.08	210 35 0.28	108 0.85	9 0.07	0				SI 555 KG	443 167 1.31	2000 D3			30.3		18	0.03	4	0.02	163	1.20	17 0.8	a	
1920	133,208	2,025 15.32 12.4	4,451 33.51	25.4	600 135 75	14 1	0.00	D IN SE	0.13	371 6 0.05	170 19 0,09	115 0.98	24 0.18	0	16	05 0.71	150 1.20	140 310 2.66	451 178 1.34	16 0.1	13 114	0.56	5 0.04	20 0	.22 1	0.05	7		179		10 0.4		0.10
1921	111,800	1,893 14.41 12.1		20.6	621 111 77	253 0		A SE 22 3	0.02	133 0 0.00	114 10 0.07 92 12 0.00	121 0.00 52 0.20	15 0.09	623 0	11 12	26 1.00	175 1.10	192 290 2.21 157 282 2.84	\$86 170 1.35	81 0.0	60 114	0.90	6 0.04	33 0	25 5	0.04	7		118		2 0.5		0.09
1923	135,400	1,768 13.03 11.6	2,738 27.63		223 88 00			A 0 100 TR	0.58	1157 18 0.13	80 10 0.07	33 0.32	0 0.00	701 0	11	52 1.12	111 0.89	156 155 1.87	499 190 1.40	18 0.3	12 120	0.65	7 0.00	34 6	15 1	0.01	11				0.6		90.0
1924	136,300	2,283 16.75 13.2 1,084 15.86 13.2	3,589 26.23	18.3	694 138 75 342 97 78	901 0		2 0 10 13		110 15 0.11	94 9 0.07 90 11 0.00	37 0.43	10 0.55	955 0 744 1	0.00 13	17 1.00	167 1.54	116 479 1.51 194 330 1.44	600 222 1.62	29 0.1	03 142 29 164	1.04	11 0.04	32 0		0.02	13				01 0.4 0.5		0.02
1920	133,000	1,759 13.16 11.4	0,037 25.05	17.8	227 22 70	3 0		S S IN IS	0.02	250 6 0.00	75 5 0.03	36 0.43	54 0.40	1829 0	16	67 1.23	142 1.00	200 234 1.75	652 175 1.51	34 0.5	191	1.10	7 0.05	45 0		0.04					52 0.5		0.05
1997	131,400	1,776 14.20 12.2	2,140 24.12	16.7	274 87 60 286 88 65	190 1	0.00	100 DE 20	0.29	168 2 0.00	73 8 0.06 97 4 0.02	48 0.26	4 0.03	811 0	- 1	0 1.10	120 0.54	174 277 1.07 198 166 2.09	472 194 1.65 471 199 1.51	45 0.1	49 186 56 218	1.59	11 0.00	34 0 49 0		0.02	12		103 87		71 0.8 68 0.5		0.04
1905	133,100	0,357 17.33 13.4	3,110 19.00	16.2	112 100 70			Sept 10	0.23	251 3 0.01	48 1 0.01	67 0.50	21 0.14	941	14	43 1.00	110 0.83	100 438 3.29	\$31 723 1.08	140 1.3	12 245	3.77	8 0.01	35 0	20 6	0.01	10	0.07	18	0.58 b	02 0.7	0 7	0.05
1150	133,100	1,760 14.13 11.4	3,554 26.53	16.3	201 79 60			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.88	447 2 0.02	104 8 0.05 54 3 0.02	31 0.23	28 0.29	1044	- 13	75 1.31	64 0.47	150 200 1.50	501 218 1.43 421 228 1.64	29 0.3 63 0.3	23 248	2.61	8 0.05			0.04	2		124		51 0.E 14 0.5		0.02
1922	128,900 140,000	1,054 14.07 13.3	2,941 20.44				11 11	(CO 100	0.11	204 4 0.02	48 6 0.04	99 0.15	TH 0.00-	1057	13	18 1.00	60 0.44	135 184 1.31	380 200 1.49	20 0.5	26 528	2.40	3 0.00	50 0	27 4	0.03			115	0.06	0.4	1 1	0.05
1933	139,800	1,862 13.35 12.3	2,050 19.07	16.4	242 20 64		1.		10.00	991 3 0.02	90 7 0.09 378 58 0.41	42 0.30	14 0.10	1172	11	84 1.30	20 0.50	67E 21: 1.80	310 214 1.53 340 174 1.24	89 1.6	04 364	2.61	9 0.06			0.03	30	0.07	91		72 0.5 74 0.5		0.00
1934		1,828 13,17 13.5 1,881 13.22 13.7		14.7	117 79 67 164 86 57		1. 1		6.07	910 T 0.01	170 23 0.16	10 0.14	24 0.17	1027	10	19 1.41	59 1.40	109 222 1.58	330 181 1.29	46 0.3	32 350	2.56	3 0.03	18 0	137 3	0.02	9	0.07			72 0.5		
1936	140,000	1,712 13.03 12.1	2,589 18.40 1	14.8	188 23 59			S 1000 12	1114	343 3 0.02	143 10 0.07	20, 0.14	3 0.00	907	20	11.44	50 0.40	685 197 1.34	283 150 1.01 181 163 1.18	20 0.3	14 418	3.15	3 0,02			0.05		0.04	20		25 0.5 85 0.6		0.00
1997		1,527 13.80 15.4 1,791 12.81 11.8			068 91 56 000 TS 53		100	B 120 10	6.53	675 2 0.01	266 10 0,07 286 17 0.00	24 0.17	3 0.00	1018	11 20	14 1.53	43 0.30	208 146 1.05	207 153 1.00	16 0.1	11 400	1.00	9 0.01	40 0	139 6	0.04					80 0.5		
1108	137,500 D	1,828 13.30 12.1	2,372 18.50	15.0	194 75 50		10	100 25	9.07	140 1 0.01	200 31 0.22	23 0.36	17 0.12	389	18	13 1.33	51, 0,30	174 150 1.13	250 168 1.22	21 0.1	15 500	3,68	7 0.03	31 (1,12 4	0.03	5	0.06	67	0.48	66 0.0	3 3	0.00
	115,3002			110 1	100 79 86		100		5.00	412 1 0.01	279 22 0.08	25 024	2 0.00	***			101 100	120 222 0.54	334 199 3.52	37 0.1	20 433	2.33	2 0.02	44 0	133 1	0.01	4	0.00	14	0.72 2	10 1.0	4 8	0.06
1940		1,956 16.1 16.3 1,896 15.0 12.9		14.2 1	190 26 50		13 1			114 0.00	357 37 0.30	22 0.18	9 0.07	824	21	19: 1.74	140(1.08)	161 130 1.00	247 202 1.69	41 0.3	130	3.41	11 0.00	26 6	.28		3	0.00	28	0.40 1	01 0.8	0 17	0.13
1042	123,900	1,708 14.30 11.0	2,418 19.92 3		150 79 69		44 48	40 m			505 29 0.22	400 0.22	3 0.00		1. 21	17 1.75	67.052	123 160 0.83	253 166 1.54 162 179 1.41	33 0.5	28 431	3.47	9 0.01	20 0	(31 "		4	0.00			15 0.3		
1943		1,794 14.08 12.1 1,636 13.04 13.0	2,074 29,58 3	17.6	(85) (65) 40		1	H 40 1	0.01	507 1 0.00	213 11 0.08	18: 0.15	3 0.00	1004	19	10 1.43	\$2.0,64	177 100 0.80	241 131 1.03	16: 0.1	12 465	3,19	6 0.04	43 9	133 4	0.63	8	0.06	104	0.81	90 0.3	1 10	0.02
	125,600	1,654 12.75 13.4	2,691 20.92 1	16,1 2	25 79 4		100	R 10 1		573 0.00 342 0.00	213 10 0,07 40 0,00				1- 21	16-1.68	90 0.79	150 22 0.72	230 134 1.86 245 115 0.83	15 0.3	12 379	2.04	5 0.06	32 0	195 1	10.0	5				14 0.1 63 0.4		0.00
1946	337,720	1,701 32.35 11.5		19,1 1	22 26 43 22 64 43	100	11 10	P I	9.00	322	41 0.00	42 0.37	9 0.07		27	10 1,92	100.0.71	162 44 0.31	280, 131 9 10	18 0.1	12 445	3.16	4 0.00	42 0	36	1	2	0.01			61 0.5		0.00
1347	140.800	The Later of Street																															

100

8 37 522 3216 2755 18 326 50 679 255 255 30 219 372 4920 Total - 01 70 . 00 Vulean 133 : 01 10 St. Hilda's 11 94 438 Ormesby . 01 775 399 703 NUMBER IN EACH WARD 261 Newport TABLE II. - Notifications of Infectious Diseases in 1947, arranged according to Age Groups and Wards 106 Linthorpe 341 97 4 61 52 58 29 117 73 111 81 118 86 56 486 263 408 388 253 654 Grove Hill Ехсрвиво Cleveland Cannon Acklam 288 Ayresome 12 13 27 29 45 13 4 M. F. 55 N. ---38 15 Ä M. NUMBER OF CASES NOTIFIED 10 2404 2516 165 142 571 514 691 652 626 806 1111 01 10 M. 6 4 10 50 106 105 AT AGES 42 44 119 228 339 396 Signal Control 5 M. 69 439 393 502 451 É 99 5 M. si, M. 1 M. 17 24 241 281 1396 1359 1 At all Ages W. Measles (excluding Rubella Acute Primary Pneumonia Ophthalmia Neonatorum Influenzal Pneumonia ... Pulmonary Tuberculosis NOTIFIABLE DISEASE Cerebro-spinal Fever Other Tuberculosis Puerperal Pyrexia Polio-Encephalitis Polio-Myelitis ... Whooping Cough Total Chicken-pox Diphtheria Scarlatina Dysentery Erysipelas

TABLE III.

Registrar General's Statistics, 1947.

AREA: MIDDLESBROUGH COUNTY BOROUGH.

(1) Estimated Mid-Year Resident Population-140,460.

2)		Live Births allocated to Borough	Still Births allocated to Borough
Total '			
Legitimate and	Males	1,888	61
Illegitimate 5	Females	1,743	50
Illegitimate	Males	132	3
	Females	95	6

(3) Notifiable Infectious Diseases.

Number of cases notified during the 52 weeks ended 31 t December, 1947.

Cerebro. Spinal Fever.	Scarlet Fever	Whooping Cough.	Diphtheria.	Erysipelas.	Measles.	Smallpox.	Pneumonia.	Puerperal Pyrexia.	Typhoid.	Para- Typhoid.	Total
23	522	326	41	33	2,755		163	61			3,924

(4) Areal Comparability Factor. Issue suspended.

TABLE IV.

Deaths registered during 1947

			1					20					
								Δ(ES A	T DE	ATH	1	
CAUSE OF 1	EAT(Н	At all ages	under one year		and under 3 yrs.	3 and under 4 yrs.	and under 5 yrs.	and under 10 yrs.	and under 15 yrs.	and under 20 yrs.	20 and under 25 yrs.	25 and under 35 yrs.
All Causes Certified . Uncertified			1921	255	12	9	5	4	16	14	21	28	63
	M.	F.	-	-			-	_	_	-	-	-	
Enteric Fever		1								100			
Smallpox	1								1825				**
Measics	5	3	8	2	2	3	1	::					
Scarlet Fever													
Whooping Cough	1	1	1	1							***		
Diphtheria	1	2	3			1	1	1					
Influenza	14	4	18										2
Encephalitis Lethargica	1		1										
Meningococcai Meningitis	3	1	4		1	1	1		1				
Tuberculosis of Respiratory							100					100	22
System	84	44	128					1	1		7.	14	22
Other Tuberculous Diseases		7	7		3	2			2				
Cancer, Malignant Disease	165	136	301		**						2		3
Rheumatic Fever	2	1	3						1		1		1
Diabetes	9	10	19							1			3
Cerebral Haemorrhage, etc.	83	86	169	3	1			1					1
Heart Disease	271	240	511	5	2				1	1	1		4
Arterio-Scierosis	51	43	94								**		
Bronchitis	39	10	49	2							1		1
Pneumonia	28	16	44	7	**	1	1						2
" Broncho	49	21	70	43	1		1			. 1	1		
Other Respiratory Diseases Ulcer of Stomach or	9	4	13	1			**				**		1
Duodenum	12	6	18	11					**		1		1
Diarrhoea, etc	31	26	57	54	2								
Appendicitis and Typhlitis	2	3	5						1	1	1		
Cirrhosis of Liver	3	00	3										5.5
	24	29	44			**					1	4	3
Other Accidents and Diseases of Pregnancy & Parturition		2	2										**
Congenital Debility and Mal- formation, Premature Birth	37	40	77							**			1
Judal A.	6	6	12	77									.:
Other Deaths from Violence	40	9	49	4		1			11	";	2		1
Other defined diseases	107	89	196	54				1	4	4	3	6	4
Causes ill-defined or unknown		9	4		* *				4	6		2	12
Syphilis	10	1	11	1		**						.:	.:
Dysentery	1		1	î								1	1
Polio-encephalitis		2	2						1			1	
Total	1089	835	1924	255	12	9	5	4	16	14	21	28	63

died according to Ages and Wards.

			tions		Nu	mber	of Dea	ths an	d Deat	th Rat	e in e	ach W	ard in	the Bo	rough	
45 and nder 55 yrs.	55 and under 65 yrs. 303	65 yrs. and over	Deaths in Public Institutions	Ayresome	Acklam	Cannon	Cleveland	Exchange	Grove Hill	Linthorpe	Newport	Ormeaby	St. Hilda's	Vulcan	Non-Residents	Totals
			3	::	::	2	::		1		3	1			1	8
			1											1		1
			3		.:	.:	.:		*:		1	:		1	1	3
1	3	10	2		1	1	1		4	7	2	1	1	1		18
			4		1				1		::	1		1		4
					-	1	- "						139			
24	25	6	72	6	7	7	9	8	14	16	15	19	8	11	8	128
			6.	1		1	::	1	1			2		1		200
47	72	163	130	32	18	18	14	13	41 2	60	22	33	7	14	29	30
2	4	7	13	1	2	2			1	6		1	1	**	5	19
17	28	115	60	20	11	9	13	10	27	27	8	19	7	10	8	163
48	93	342	108	52	41	34	26	25	67	97	27	54	32	36	20	51
2	13	79	39	9	3	9	3	3	11	25	9	6	5	2	9	94
9	9	27 18	10	5	3	2 2	5	2 4	9	6	7	7 7	3	6	1 2	4
5	2	15	32	2	6	5	5	5	4	10	6	7	3	5	12	70
5	1	5	5	1	2		1	1	2	5		1				1
4	3	8	12	3 10	1	8	5	1 3	4	5 2	8	1 3	4	7	3 5	5
1			5	1		1				1		1			1	0
	1	1	3			1									2	
5	3	24	26	2	3	1	2	2	4	12	2	3	1	4	8	4
			1		**							1			1	
			50	7	4	7	10	2	5	2	6	12	5	6	11	7
3	1	4	4	2				2	5			2			1	1
1	8	6	33	1	3	1		3	7	3	3	5	2	3	18	4
11	26	69	136	15	8	10	7	7	25	38	11	20	6	12	37	19
1	1	2	2				1		1					1	1	١.
1	2	5	1	1			1	3		1		1	1	1	2	1
			2						1						1	
192	304	906	833	176	117	121	104	95	242	328	131	209	89	125	187	15

TABLE V.-INFANTILE MORTALITY-1947.

YEAR.

7

UNDER

VARIOUS AGES

AT

CAUSES

STATED

FROM

DEATHS

REGISTERED

TOTAL Non-Residents Vulean St. Hilda's Ormesby Newport Linthorpe Grove Hill Exchange Cleveland 9 Cannon Acklam 04 Ayresome under 1 year 215 :004 Total Deaths 12 months 9 months & under sutnom 6 22 6 months & under sutnom 9 23 3 months & under 3 months 300 4 weeks & under 4 weeks 136 Total under 6 3-4 weeks 10 2-3 меекв I.2 weeks 21 0.1 Under 1 week Meningitis (not Tuberculous) Other Tuberculous Diseases Uncertified Congenital Malformations Abdominal Tuberculosis Certified Tuberculous Meningitis CAUSE OF DEATH. Diphtheria and Croup Suffocation, overlying Atrophy, Debility and Whooping-Cough Premature Birth Injury at Birth Measles ... Scarlet Fever Chicken-pox Bronchitis Pneumonia (Convulsions Atelectasis Erysipelas Laryngitis Small-pox Causes Dysontery Diarrhoea Enteritis Syphilis Rickets

PUBLIC HEALTH ACT, 1936.

	al No. of Births tiffed excluding Still-births		383 180 180 183 183 183 169 169 169 169 169 169		
	Stillbirths	M. F.	20 10 2 3 3 3 4 4 5 5 7 7 9 9 6 6 5 5 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
1221	ng s	TOT.	3745		
year tori	Total including Still- births	Ä	192 207 87 96 137 160 133 125 97 88 234 224 298 228 169 157 275 239 99 69 131 116 102 82	183	3745
and du		F. M	10 6 6 6 6 6 6 7 11 11 11 11 11 11 11 11 11 11 11 11 1	15 241	256
during	Dec	M.	111 9 4 13 4 13 4 13 17 14 18 19 19 22 19 22 19 22 10 4 11 4 11 4 124 137	64	- 2
Health	Nov.	M. F.	153 27 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	263	277
10	Oet.	, ia	16 17 4 10 9 26 10 14 4 4 4 4 12 25 13 16 11 14 8 4 8 4 134 165	286	299
Omcer	Sept.	F. M	135 135 135 135 135 135 135 135 135 135	293	301
Medical		F. M.	16 10 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12	9 2 6 6	266
	Aug	ж.	18 11 8 11 10 10	n tellio	-
to the	July	M. F	12 14 11 13 13 13 13 13 14 15 10 10 11 18 11 10 11 10 11 10 11 10 10 10 10 10 10	320	334
notified to	June	M. F.	1 26 20 12 13 14 15 14 15 14 15 14 15 15	32.20	338
Births n	May	14	02 10 0 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 1	351	368
Jo	hind	F. M		1282	294
ımary	March A	F. M.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	346	370
TABLE VISummary). Mai	W. W.	100000010100000101		i
VI.	Feb.	. >	24 22 8 11 11 11 11 11 11 11 11 11 11 11 11 1	2 2 8 9	313
ABLE	Jan.	2		309	329
T	WARDS		Ayresome Acklam Cannon Cleveland Exchange Grove Hill Linthorpe Newport Ormesby St. Hilda's Vulcan Non-Residents Torals	Births notified by: Doctors Reg. Midwives Other Women, etc.	Torars

TABLE VII.

Public Health (Tuberculosis) Regulations, 1930.

PART 1.—Summary of Notifications during the period from the 1st January, 1947. to the 31st December, 1947, in the area of the County Borough.

					For	nal 1	Votifi	cation	18				
Age Periods		Nu	mber	of Pr	imar Tu	y Not	ificat ılosis	ions	of nev	v case	es of		
	0-	1-	5-	10-	15-	20-	25-	35-	45-	55-	65-	Total (all ages)	Tota Not cati
Respiratory— Males		0		10									
Famalas		3	2	12	16	14	15	14	11	19	1	107	14
Non-Respiratory		3	6	11	16	18	27	11	6	3	1	102	11
Males		2	3	3	1	1	1						2
Females		2	4	1			2	2				11	1

SUPPLEMENTAL RETURN.

PART II.—New Cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification.

Age Periods	0-	1-	5-	10-	15-	20-	25-	35-	45-	55-	65-	Total
Respiratory— Males Females Non-Respiratory—	::	1	1		1	4 2	5 5	8	3	10	1 2	34 12
Males Females	::	1 3	i	2	::	::		::	::	::		4 4
										Тста	L	54

Source of Information			No. of	Cases
			Respiratory	Non- Respiratory
Death Returns { Transferable deaths from			28	3
Registrar General Posthumous notifications "Transfers" from other areas (other than tra	nefor	o blo	2	i
deaths) Other sources if any (specify) H. M. Forces			16	4
	-	AL.	46	- 8

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TABLE VIII.

Cancer.

DEATH RATES PER 1,000

Year		Middlesbrough		England and Wales	
1939				1.33	1.66
1940				1.56	1.72
1941				1.74	1.78
1942				1.75	1.83
1943				1.86	1.98
1944				1.49	1.89
1945				1.68	1.94
1946				1.86	1.84
1947				1.92	1.85

TABLE 1X.

Deaths from Cancer.

AGE DISTRIBUTION.

At ages	Male	Female	Total
1 to 5 years	 		
5 to 45 years	 7	8	15
45 to 65 years	 65	46	111
65 and over	 72	72	144
Total	 144	126	270

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