[Report 1945] / Medical Officer of Health, Belfast County Borough.

Contributors

Belfast (Northern Ireland). County Borough Council.

Publication/Creation

1945

Persistent URL

https://wellcomecollection.org/works/k5cxu2h4

License and attribution

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

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

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





REPORT

ON THE

Health of the County Borough of Belfast for the Year 1945

BY THE

Medical Superintendent
Officer of Health





REPORT

ON THE

Health of the County Borough of Belfast FOR THE YEAR 1945

٠

BY

SAMUEL BARRON, M.R.C.P., D.P.H.

The Medical Superintendent Officer of Health for the City.

COUNTY BOROUGH OF BELFAST.

Public Health Committee

Chairman:

ALDERMAN THOMAS LOFTUS COLE, L.P.S., J.P.

Deputy Chairman:

COUNCILLOR STUART KNOX HENRY, J.P.

Aldermen:

THOMAS LOFTUS COLE, L.P.S., J.P.
THOMAS HENDERSON, M.P.
FREDERICK WILLIAM KENNEDY.
KENNEDY LEACOCK, J.P.
ROBERT PIERCE, J.P.
ANDREW SCOTT, J.P.

Councillors:

PERCIVAL BROWN, C.B.E., F.A.I.
SENATOR JOSEPH CUNNINGHAM, J.P.
FRANCIS HANNA, LL.B.
STUART KNOX HENRY, J.P.
JAMES KILPATRICK, J.P.
WILLIAM JOHN LEEBURN.
FRANCIS BRERETON LOAN.
HERBERT NEILL.
CLARKE SCOTT, J.P.

COUNTY BOROUGH OF BELFAST-1945

Summary of Vital Statistics

| Area (Census 1937) | (Exclusive | of 1,262 | acres of | |
|---------------------------------|---|------------|-------------------------|--|
| tidal water) | | | | 15,289 acres. |
| Population | | | | 435,900 (estimate of Reg- istrar-General for N.1.) |
| Marriages | | | | 4,290 |
| Marriage Rate | M. with the second | | mak with more | 9.8 per 1,000 of the popula- |
| marriage Rate | A. C. | | | tion. |
| Riethe Registered | | | | 9,853 |
| Births Registered Birth Rate | Military Interns | | a benoviii or b | 22.6 |
| Births (notified) | military date | 100 | and Sund Malde | 11,307 |
| | l in total hiet | he notifie | ad) | 362 |
| Still Births (included | | | | |
| Birth Rate average f | or the ten ye | ars 1990 | -1340 | 21.5 |
| Deaths Death Base | stead but to | 100 | book "thines | 5,069 |
| Death Rate | | 1000 | 1045 | 11.6 |
| Death Rate average | | | -1940 | 13.3 |
| Deaths of Infants un | | of age | | 828 |
| Infant Mortality Ra | | | | 84 deaths per 1,000 births. |
| Average for the ten | | | | 96 deaths per 1,000 births. |
| Neo-natal Deaths (| | | 100 | 391 |
| Deaths from Preg | | ldbirth, | and the | |
| Puerperal State | | | | 18 |
| Death Rate per tota | | | *** | 1.8 |
| Deaths from Epider | | | | 272 |
| Death Rate from Ep | pidemic Dise | eases | | 0.6 |
| Deaths from Measle | | | | 10 |
| Deaths from Typho | id Fever | - Value | no realist to | 1 olug med adash ad I |
| Deaths from Scarlet | Fever | Marin I | | 2 |
| Deaths from Whoop | oing Cough | | | 26 |
| Deaths from Diphth | | 11 | () () () () () () | 7 |
| Deaths from Diarrh | | teritis (u | | |
| years of age) | | | | 172 |
| Deaths from Dysente | | | Of an analysis | 1 |
| Deaths from Influen | | | (agents and the | 16 |
| Deaths from Tube | | | spiratory | |
| System | | **** | opirator) | 326 |
| Death Rate from Tu | iberculosis o | f the Re | spiratory | and a gray all private |
| System | iberediosis e | | SETTINGE STATE OF | 0.7 |
| Deaths from Bronch | nitie | *** | of in Theore | 243 |
| Deaths from Pneum | | *** | *** | 274 |
| Deaths from Pleuris | | | | 4 |
| Deaths from other | | the Re | eniratora | The second secon |
| System (Tubero | ulosis avon | ted) | | 92 |
| o yatem (r dbere | diosis excep | (ed) | | 02 |

The Right Honourable the Lord Mayor (Councillor The Right Honourable Sir Crawford McCullagh, Bart., D.L., P.C.), and the Aldermen and Councillors of the County Borough of Belfast.

> Public Health Department, City Hall,

> > June, 1946.

My LORD MAYOR, ALDERMEN, AND COUNCILLORS,

I have the honour to submit the Annual Report on the Public Health Services of the city for the year 1945.

This year will be recorded in history as an eventful period, for in it came the termination of the world war which had raged for nearly six years, bringing not only its terrible toll of death and destruction, but also conditions which one might have expected to adversely affect the health and well-being of the people. It would be reasonable to expect that hardship, privation, physical stress, and mental anxiety resulting from air raids, 'black-out,' food restrictions, bad housing, and many other war conditions would be reflected in very unsatisfactory public health records; yet, when we examine the statistical figures for 1945, we find that they bear favourable comparison with previous years, and indicate that the public health of the city in 1945 was much better than could have been anticipated.

The death rate at 11.6 per 1,000 of the population was the lowest rate on record for the city, with the exception of 1942, when it was 11.2.

The infantile mortality rate was 84 deaths of children under one year of age per 1,000 births; the rate for 1944 was 89, and for 1943, 111: the average for the ten year period 1936-1945 being 96. The maternal mortality rate of 1.8 per 1,000 registered births is the lowest on record for the city.

The deaths from pulmonary tuberculosis numbered 326, which was the lowest number on record; there were 354 deaths from pulmonary tuberculosis in 1944 and 367 in 1943. The number of deaths from the non-pulmonary forms of tuberculosis (80) was also the lowest on record; there were 89 deaths in 1944 and 117 in 1943. It would thus appear that the downward trend in the tuberculosis mortality in Belfast has been resumed after a moderate increase in 1940, 1941, and 1942. The number of deaths from pulmonary tuberculosis in 1914 was 836, thus showing a reduction of 61 per cent. in thirty-one years; the non-pulmonary deaths show a reduction of over 72 per cent. over the same period.

During the year a Mass Radiography Unit was provided by the Ministry of Health and Local Government, and installed in premises at No. 225 Albertbridge Road. The Unit came into operation in June.

The scheme for the payment of financial assistance to patients undergoing treatment for tuberculosis was largely taken advantage of during the year; the payment of treatment allowances, however, is limited to early hopeful cases, but it is hoped that the scheme will be extended to include all patients suffering from tuberculosis.

During the year the demand for institutional treatment of tuberculosis was greatly increased; the Tuberculosis Committee, after taking administrative control of the Tuberculosis Scheme in August, made arrangements for additional hospital beds for the treatment of tuberculosis patients at the Municipal Sanatorium, Whiteabbey, the Emergency Hospital, Musgrave Park, the Belfast City Hospital, and at Purdysburn. These arrangements increased the number of available beds at the end of the year to almost five hundred.

In spite of the considerable increase in beds available for institutional treatment, the waiting-list of patients seeking admission to hospital increased, and many patients required isolation in their homes. In an attempt to prevent the spread of infection in households where tuberculous patients were found to have unsatisfactory sleeping accommodation, the Tuberculosis Committee authorised the purchase of beds, blankets, and bedding, which were supplied for the use of such patients. Home isolation is at best merely a makeshift in many cases, but failing facilities for institutional isolation, we should make the most of any resources available.

One of the most pressing needs in Belfast is the provision of housing accommodation. It is estimated that some twenty-five thousand houses are required to meet the demand and remedy overcrowding. Bad environmental and social conditions, such as bad housing, overcrowding, malnutrition, etc., have a direct bearing on the causation of tuberculosis.

It might serve a useful purpose to refer to the necessity of an educational campaign against spitting in public; this is a practice that will have to be abolished if we are to make any headway against tuberculosis as well as other airborne or 'droplet' diseases. The slogan ''Coughs and Sneezes spread Diseases'' should be extended to a warning that ''Spitting spreads T.B.''

Towards the end of the year, the Minister of Health and Local Government introduced a Bill in the Parliament of Northern Ireland to make provision for the prevention and treatment of tuberculosis. The Bill authorises the setting up of a Tuberculosis Authority for the whole of Northern Ireland.

Infectious Diseases

The number of infectious diseases notified during the year was well below the average; this was particularly the case with typhoid fever, scarlet fever, and diphtheria. The decreasing incidence of diphtheria coincides with the increase in the number of children immunised against the disease. An interesting table appears on page 25 of this report, which shows the age grouping of children immunised since October, 1936, and reveals that 15,434, or 48 per cent. of children under five years of age were immunised at the end of 1945; 64 per cent. of the 5 to 10 years age-group and 56 per cent. of the 10 to 15 years age-group were immunised during the same period. Although these figures are fairly satisfactory, we must require a larger measure of protection, especially for the under-five age-group. We are still far from the ideal of having all children at or before the age of one year immunised.

Smallpox

It is disquieting to learn from the annual report of the School Medical Services that 18 per cent. of the children examined did not show evidence of having been vaccinated at the present time, when large numbers of people are returning to this country from areas where smallpox is endemic. During the year 1945, we received notifications of forty-six persons arriving in Belfast who had been in contact with smallpox on board vessels arriving at British ports from the Far East. These contacts were kept under surveillance during their quarantine period: none of them developed the disease.

In connection with the report of the Medical Superintendent of Purdysburn Fever Hospital, reference is made to twenty-six patients treated with Penicillin with satisfactory results.

Maternity and Child Welfare

The section of this Report dealing with the Maternity and Child Welfare gives full details of the work carried out under the extended scheme.

School Medical Services

The Annual Report of the School Medical Services is incorporated in the report of the Director of Education.

Sanitary Inspection

It can now be revealed that 56,662 houses in the city were damaged by enemy air raids during the war; 3,200 of these were completely demolished. The loss of these houses and the cessation of building operations during the war years have created a very grave housing problem. This shortage of housing accommodation has created a large amount of overcrowding. The disrepair of property and the delay in having repairs effected had the effect of greatly increasing the number of complaints received from householders for investigation by the Sanitary Officers. A short period of extremely cold weather early in the year caused much damage by the freezing and bursting of water-pipes, cisterns, and boilers, and thus added to the work and responsibilities of the Sanitary Inspection staff.

Port Sanitary Regulations

Constant vigilance on the part of the Port Sanitary staff keeps in check the possible danger of imported infectious diseases, such as smallpox, typhus, cholera, or plague. As previously indicated, there is now much passenger traffic, both sea and airborne, between British and foreign ports. Owing to the increased speed of travel, the danger of disease from "infected" foreign countries is greatly increased.

Supervision of Food

The supervision and control of food in factories, stores, shops, restaurants, and catering establishments required the constant attention of Food Inspectors, whilst the taking of samples of food to detect adulteration was energetically pursued.

On the 1st November, 1945, Dr. Charles S. Thomson, your former Medical Superintendent Officer of Health and Port Medical Officer, retired, after holding office for almost seventeen years. Various Committees of the Corporation with whom he was associated showed appreciation of his services to the city during his term of office, and these appreciations have been recorded in the minutes of proceedings of the Committees.

Before concluding this report, I should like to express my grateful thanks to the chairman and members of the various Committees dealing with the public health services of the Corporation for the kindness and support which I have received in carrying out the important duties for which I am responsible. I should also like to pay tribute to my brother officers throughout the various sections of the Public Health Department for their loyal co-operation and help.

I have the honour to be,

My Lord Mayor, and Gentlemen,

Your obedient Servant,

S. BARRON,

Medical Superintendent Officer of Health and Port Medical Officer. TABLE 1

COUNTY BOROUGH OF BELFAST

Causes of Death at Different Age Periods

| | 95 and up- wards | 22 | [|
|----------|------------------------------------|---------------------------|--|
| | | | |
| | 96 | 3.5 | |
| | - 85 | 78. | |
| | 8 | 55.5 | |
| | - 75- | 319 | |
| | 5 | 346 | |
| | - 69 | 7 258 | |
| | -09 | 217 | |
| | ~ | 178 | |
| | - 50- | 103 | |
| | 45 | 108 | |
| | - 4 | 25 | 1-1111111120111101111111111111111111111 |
| | 35 | 272 | |
| | 30- | 588 | 111111111111111111111111111111111111111 |
| H | 72 | 88 | |
| DEATH | 8 | 288 | |
| AT I | - 15 | 37 | 1 1 1 1 1 1 1 1 1 1 2 2 7 1 7 1 7 1 1 1 1 |
| | 9 | 22 | |
| AGES | 1 × × | 22.2 | |
| | Total under 5 years | 528 425 | - WWA 4 4 8 2 4 4 7 7 4 4 4 4 4 |
| | + | 4 00 | |
| | 7 | 1/9 | 111111111111111111111111111111111111111 |
| | 2 | 22 | |
| | | 36 | |
| | Total under 1 year | 459 | |
| | stranom 21-9 | 78 | |
| | squoui 9-E | 82 | 111111-111-111-111 |
| | 2-3 months | 32 | (1111111 - 1111111111 - 111111111111 - 11 |
| | 1-2 months | 39 | 111111111111111111111111111111111111111 |
| | I−4 Neeks | 8% | 1111111-111-1111-1111111111111111111111 |
| | I day & less than 7 days | 25 | |
| | Under 1 day | 2.1 | |
| | All | 2,584 | - |
| | - | F | NENTANTANTANTANTANTANTANTANTANTANTANTANTAN |
| | | _ | ninges system cations Septi- |
| | САПІС | anses | Resp Menin Sys intest (L) |
| | OF D | NI C | of the Respiration of the Intestines of Tuberculosis System of Tuberculosis ction and Septipuerpenal) |
| | Causies of Death | Total Deaths (All Causes) | Typhoid and Paratyphoid Fevers Plague Scarlet Fever Whooping Cough Diphtheria Tuberculosis of the Meninges and Central Nervous System Tuberculosis of the Intestines and Peritoneum All other forns of Tuberculosis Purulent Infection and Septicand Honery Malaria Syphilis Influenza Smallpox Measles Typhus Fever |
| | Cat | Deat | Typhoid and Para Fevers Plague Scarlet Fever Whooping Cough Diphtheria Tuberculosis of tory System Tuberculosis of and Central Ne and Central Ne and Peritoneum All other forms of And Peritoneum All other forms of Byphilis Influenza Syphilis Malaria Syphilis Syphilis Masales Typhus Fever Typhus Fever |
| | | Total | Typhoid and Fevers Plague Scarlet Fever Whooping C Diphtheria Tuberculosis and Centra Tuberculosis and Periton All other fon Dysentery Malaria Syphilis Influenza Smallpox Measles Typhus Feve |
| | | | Plan Pur Tuli Tuli Tuli Tuli Tuli Tuli Tuli Tuli |
| Detailed | Inter- ational List Nos. | | 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| Deta | Inter- national List Nos. | | 1, 2 8 8 8 8 10 10 11 11 12 13 13 13 13 13 13 13 13 14 15 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19 |

TABLE 1-continued

| | 95 and up- wards | :: | 11 | 11 | 11 | 11 | 11 | 1111 | 11 | 1:: | 111111 |
|----------|------------------------------------|---------------------------|--|---|---|--|--|--|-----------|---------------------------------------|---|
| | 96 | 11 | 11 | 111 | 11 | 11 | 11 | 1111 | 11 11 | 11 | 111111 |
| | 85- | 91 | 1.1 | :- | 11 | 0101 | 11 | :: | m 11 | mio | 111711 |
| | 98 | 111 | 11 | NM | m : | 10 51 | - : | 01 :- N | 0 | 25 | 1 1- 1 1- |
| | 75- | 11 | : | 4 | m : | 36.2 | m - | + : 4 | - oc - cı | 5.3 | - 1- 100 |
| | 76 | 11 | | W.P. | 9- | 2.4 | 2- | - : | w ~- | 59 62 | HILIMA |
| | -59 | 11 | erei | = 6 | m- | 328 | 410 | # !m x | -: 2 | 22 | |
| | 4 | 111 | w.4 | <u>=</u> = | e* : | 22 | (5 mm) | 0 40 | 0 -10 | 43 | m 4 |
| | 75 | 11 | 11 | .m. oc | e1 : | 2.5 | =- | + 00 | 10 0 | 37 | 1111-0 |
| | 98 | 11 | := | 28 | 11 | 51 6 | ** | - 1+10 | : | 25 20 | : : |
| | ÷ | 11 | -: | 25 | - : | φ= | NN | ∞ ;m∩ | 14 | 823 | 10 1- 10 |
| | ş | 11 | | 28 | 111 | = " | 0.01 | m : 10 m | .m :- | 128 | 111117 |
| | 35- | 11 | -4 | 28 | 111 | M m | C4 : | 1177 | - 11 | 00 10 | - 11111 |
| | š | 11 | 11 | 32.2 | 11 | care | :- | 11 | : | +0 | 4111-1 |
| I | 25- | 11 | | # E | 11 | | 11 | 111 | | | im |
| DEATH | ş | .11 | | 21% | 11 | 11 | :- | 7 1 17 | - :- | -+ | 11117 |
| | 7 | 11 | 11 | 91 | 11 | - | 11 | 1117 | : | uu | me : : : : |
| S AT | 9 | 11 | 11 | 10+ | 111 | :: | 11 | 111 | | - : | !!!! |
| AGES | * | 11 | m 14 | 30 | 11 | 7 1 | 11 | 1117 | C1 | 200 | 104 1 1 1 1 1 |
| | Total under 5 years | 1- | 00 | 998 | 11 | 11 | 11 | 1111 | 1 7 1 | 2 : | 111111 |
| | + | :- | 11 | -+ | 11 | 11 | 1.1 | 111 | 11 | 111 | 111111 |
| 21.1 | 7 | 11 | 13 | m ci | 11 | 11 | 11 | 111 | | 11 | 111111 |
| | 4 | 11 | c1- | 7.7 | 11 | 11 | 11 | 1111 | | - : | 111111 |
| | 1 | 11 | 11 | 20 | 1.1 | 11 | 11 | | | 11 | 111/1111 |
| | Total under 1 year | 11 | 1-4 | 22 | 11 | 11 | 11 | 1 1111 | 1 - 1 | - ; | 111111 |
| | Schnom schnom | 11 | 00 m | 47 | 11 | 11 | 11 | 1111 | 11 | 111 | 111111 |
| | 8–6 srbnom | 11 | 11 | ++ | 11 | .: | 11 | 1111 | 11 | 11 | 111111 |
| | 2-3 | 1-1 | 11 | 01 | 11 | 11 | 11 | 1111 | | 111 | 111111 |
| | 2-1 | 11 | 11 | 4 m | 11 | 11 | 111 | 1111 | - 1 | -: | 111111 |
| | 1-4 | . 11 | 7- | 10.01 | 111 | :: | 11 | 1111 | | 111 | 111111 |
| | 1 day & less than 7 days | 11 | 11 | - 1 | 111 | 1.1 | 11 | 1111 | | 111 | 111111 |
| | Under 1 day | | | 377 | 111 | 1.0 | 111 | 1111 | 11 | 111 | 111111 |
| | All | - | 22 | 283 | 510 | 173 | 47 | ¥ :40 | 22 22 | 323 | 548797 |
| 7 | -/ | FI | F | F | EM | EN | N. | FEFE | F M F | F | STATAT |
| | · Causes of Death | Diseases due to Helminths | Other Infective or Parasitic Diseases | Totals of Infective and Para- sitic Diseases | Cancer and other Malignant Tumours of the Buccal | Cancer and other Malignant Tumours of the Digestive | Cancer and other Malignant Tumours of the Respiratory System | Cancer and other Malignant Tumours of the Uterus Cancer and other Malignant Tumours of the Breast Cancer and other Malignant | | Totals of Cancer and other Tumours | Rheumatic Fever Chronic Rheumatism and Gout Diabetes Mellitus |
| Detailed | Inter- national List Nos. | 40-42 | 12, 23, 25, 26, 29, 31, 38, 43, 41, 41 | 4 | 45 | 46 | 47 | 50 51-55 | 56, 57 | 45-57 | 58, 60 |

TABLE I-continued

| | 95 and up- wards | 111111 | 111 | 1111 | 1:: | 1111 | 11 | 1111 111111 |
|----------------|------------------------------------|--|--|---|---|--|---|---|
| | 8 | 111111 | 11 | 1111 | :: | 1111 | :: | 1111 -41111 |
| | -58 | 111111 | 17 | 17:11 | :- | 1111 | 11 | 1111 0.00 1111 |
| | 8 | 111111 | | -::: | -: | 1111 | 11 | 1111 22 1111 |
| | 75- | 111111 | 410 | 1411 | :01 | :::: | 11 | 1111 88 11-1 |
| | -6/ | 1-1-11 | NO | 19 11 | 19 | 1111 | 11 | 1111 22 1111 |
| | -59 | 17 1111 | 115 00 | 20 in | nım | 1111 | 111 | - : : 2 % # : : : : |
| | 9 | 111111 | :0 | 100 1- | :m | -111 | -: | 11:- 22:-11 |
| | 55- | 14 1111 | -+ | ; ; | ~ | 1111 | 11 | : |
| | 50- | | mm | 111- | 1- | -::: | - : | 9111221111 |
| | -5- | ::: | 0 | 1111 | 11 | 1111 | 11 | 1111 00 2 1111 |
| | -0- | 17 1111 | 171 | | 62 | 1111 | 11 | 1111 001111 |
| | 35- | 111111 | - : | 1171 | - : | 1111 | 11 | 1111 |
| | 9 | 111111 | m : | 1- 1- | 101 | 1111 | 11 | 1111 1-12 |
| - | 25- | 111111 | :* | :: | | 1111 | :: | 11101-11 |
| DEATH | 20- | 111111 | - : | 1111 | 11 | 1111 | :: | 1111 1-1-6 |
| DE | 15- | 11-111 | 44 | 1117 | :01 | 1111 | :: | 1171 111117 |
| AT | 10- | 111111 | | 1117 | :- | 1111 | 1: | |
| AGES | 4 | 111111 | 164 | 17:1 | : | 1111 | 11 | |
| A | Total under 5 years | 114411 | ии | : :2- | 2 | 1111 | 11 | 96 |
| | + | 111711 | :- | 1111 | :: | 1111 | 11 | 1111 1111-1 |
| | 4 | 11-11 | - : | -1111 | :: | 1111 | :: | 1111 11111 |
| | 7- | 111111 | 11 | 1 :- 1 | - ; | 1111 | 11 | 10 11 11111 |
| | 1 | 111111 | 11 | 1111 | :: | 1111 | :: | 44 |
| | Total under 1 year | 1111 | | 11 | | 1111 | 11 | 40 [- |
| | sthnom 6-12 | 117111 | -: | 1111 | 11 | 1111 | 11 | * 111 111111 |
| | 3–5 srbnom | 111711 | :- | 111" | 1- | 1111 | 11 | |
| | 2-3 | 111111 | 11 | 1111 | 11 | 1111 | 11 | 11 111111 |
| | I-2 months | 111111 | 11 | 1111 | 11 | 1111 | 1.1 | 1111 111111 |
| | weeks 1-4 | 111111 | | 1171 | - ; | 1111 | 11 | 1411 (1711) |
| | than 7 days than 7 days | | | 1111 | 11 | 1111 | 101 | 1111 111111 |
| | Under I day | 111111 | 11 | 1111 | 11 | 1111 | 11 | 3341 111111 |
| | All | Næmm ; ; | 27 29 29 | 4800 | 6.61 | P4 | PR : | 2744 882 447.0 |
| - | SAFASI | MTMTM | FM | MANA | FM | FMF | F | MTNT NTNTNT |
| - | r Dram | hyroid and ids ases Diseases | Rheumatism, Diseases tion, and the Endo- ands, other General Vitamin - deficiency | zmias, and f the Blood of Organs | | | | |
| Total State of | CAUSES OF DEATH | Diseases of the Thyroid Parathyroid Glands Other General Diseases Vitamin-deficiency Diseases | Totals of Rheumatism, Diseases of Nutrition, and the Endo- crine Glands, other General and Vitamin - deficiency Diseases | Pernicious and other Anamias Leukamias, Aleukamias, and other Diseases of the Blood and Blood-forming Organs | Totals of Diseases of the Blood and Blood-forming Organs | Chronic or Acute Alcoholism Other Chronic Poisoning | Totals of Chronic Poisoning and Intoxication | Non-meningococcal Meningitis Diseases of the Medulla and Spiral Cord, other than Locomotor Atxua. Intra-Cranial Lesions of Vas- cular Origin Mental Disorders and Deficiency Epilepsy |
| Detailed | Inter- national List Nos. | 63 62, 64-66 67-71 | 58-71 | 73,74-76 | 72-76 | 78-79 | 77-79 | 2 St 2 2 2 |

TABLE I-continued

| | one spiral and and wards | 1111 | 111 | | :: |
|----------|------------------------------------|--|--------------------------------|--|--------------------|
| | -06 | 1111 | -+ | | 211 |
| | 85- | 1111 | 0.00 | | 1 |
| | -08 | 1111 | 00 NO | 1 1-08t we water 50 pant in 1 | 100 |
| | 75 | 17 11 | 47 | - :www 20 20+00ww+ Pa axoa : :+w 5 | 40 |
| | -02 | 1111 | 22.33 | | 12 |
| | 3 | N= ; ; | 54 | : : rox & 68rotuor 82 Gar= : : 20 5 | 32 |
| | 9 | | 355 | | 18 |
| | 55- | m : : : | 22 | : m + 28 7 + m 0 1 + - m 88 12 m 0 + - m 0 1 | 13 3 |
| | 20- | 17 11 | 212 | : wood 24/00 -0 88 04/00 NU | 20 |
| | ÷ | N- !! | 22 | 1 10000 runo 14 WW NUM- 1 144 1 | 715 |
| | ş | : | Nr | | 00 |
| | * | 1111 | min | | = 6 |
| | 8 | 1171 | N 4 | - i+w | 04 |
| I | 25- | 1111 | -4 | | - 60 |
| DEATH | 30- | i : | 5150 | | 300 |
| | 15- | 17 11 | -4 | | 77 |
| S AT | 9 | 1101 | m : | 1110-1 111-1111 11111111 | :: |
| AGES | Α. | 1-61 | N | | |
| 1 | Total under 5 years | 8 = 0 M | 22 | -1::-: ::: 500 500 51-+ 3 | 22 |
| | 4 | 1111 | - : | | 11 |
| | 4 | 1111 | 11 | 111111 11111111 11 117 11111 | - : |
| | 4 | 1111 | ;m | 111111 11111111 11 1117 1111 | - |
| | | 1- 1- | 614 | | - 00 |
| | Total under 1 year | 80.04 | 6.1 | | 75 |
| | 6-12 | u !u- | 10 m | | 199 |
| | squom 9-8 | 1040 | 000 | 111111111111111111111111111111111111111 | 24.5 |
| | 2-3 | ~ · · | rvm. | | == |
| | squou 7-1 | 10 | | | - 00 |
| | 1-4 Necks | 77 11 | N | | |
| | I day & less than 7 days | 0-11 | 2- | | |
| | Under 1 day | 1111 | 11 | | |
| | All | 3.557 | 237 | 653 4432 5535 553 55355 cm 44 5535 553 553 553 553 553 553 553 553 | 299 |
| -45 | SR R | FNFN | FM | | E4 |
| | | rous | Sense | Chronic tis) of the inum of the coronary Pectors Heart Gangrene e Circu- of the | 311 |
| | галн | Nerv Ear, | T.o. | Christian Christian Cardinal Corol of Christian Cardinal Christian Cardinal Christian | 5 |
| | OF D | the ye. | n an | including Chronic Pericarditis) fections of the Endoardium, the Moracardium, the Moracardium, the Coronary of Angina Pectoris es of the Heart Sis and Gangrene ses of the Circuman description of the Circuman description of the Circuman description of the Circuman description of the Respiration | Stem |
| | CAUSES OF DEATH | es of | Diseases o System and | (including Chr. Pericardits) flections of a Endocardium the Myocard Aneurysm of f the Coro and Angina Pecses of the Hear cosis and Gang ases of the Coro ases of the Coro ases of the Coro as and Bron a | y Sy |
| | CAL | of t | | ritis (An A | rator |
| | | Other Diseases of the Nervous System Diseases of the Eye, Ear, and their Annexa | Totals of Nervous Organs | Rheumatic Pericarditis (Including Chronic Rheumatic Pericarditis) Chronic Affections of the Diseases of the Myocardium, including Aneurysm of the Heart Diseases of the Coronary Arteries and Angina Pectoris Other Diseases of the Heart Chronic System Totals of Diseases of the Circulatory System Bronchitis Preumonia and Broncho-Pheumonia and Broncho-Pheumonia Pheurisy (non-tuberculous) Totals of Diseases of the Respiratory System Totals of Diseases of the Circulatory System Brounditis Totals of Diseases of the Circulatory System Totals of Diseases of the Respiratory System | Respiratory System |
| | | Oct | F.V.O | Part Dare Bar | |
| Detailed | Inter- national List Nos. | 80, 86, 87 88-89 | 68 | 90 92 93 94 91,95 97,98 6,99-103 90-103 110 110 110 110 | |
| Deta | Inter- national List Nos. | 88-89 | 80-89 | 90 92 93 94,95 97,98 96,99-103 106 110 110 110 110 110 110 111 | 5 |
| | | | | | |

TABLE 1-continued

| | 95 and up- wards | |
|----------|------------------------------------|---|
| | -06 | |
| | 200 | |
| | -08 | 111111 1111111 11 11 011110111 |
| | 75- | [-:::-::-::-:-: |
| | 5 | +will- wawa-w a- 25 a - |
| | -59 | w-!!-+ |
| | \$ | wulle iw4- iu 25 p i i i i- iu i- |
| | ₹ | ulilluuuil u- xr x- |
| | 8 | 4 |
| | 45- | 4-1111 141111 1- ww ww |
| | ģ. | |
| | 35 | 0-1111-110-111 +m mn-0111111111 |
| | 30- | 111111 - 1111111 - |
| T | 25- | |
| DEATH | 20- | 1111111-1111 |
| | -5 | |
| AT | -61 | 111111 111111 11 71 77 1111111 71 |
| AGES | 4 | |
| A | Total under 5 years | 1 1 \$ 2 - 1 1 1 - 1 - w ww 3 |
| | + | 111111 11111111 17 17 111111111111 |
| | | |
| | 2 | 1111-1 111111-1 11 11 11 11 11 |
| | 7 | |
| | Total under 1 year | 1182 11 110 110 1 0- 50 110 111111111 |
| | squouu 9-15 | וווווווווווווווווווווווווווווווווווווו |
| | sdanom 3-6 | 1:881: 119:11:11: 28 11:11:11:11:11 |
| | squour 5-3 | 112*11 1111111 11 2* 11111111111 |
| | 1-2 months 1-4 months 1-4 | 112711 111111 20 111111111111 |
| | Mccks 1−4 | 1 12 4 1 1 1 1 1 1 1 1 1 1 1 2 4 1 1 - 1 1 1 1 1 1 1 1 1 |
| | I day & less than 7 days | |
| | Under I day | 111111 11-11111 11 -1 1111111111111 |
| | All | 20078 88 E 2007 8 E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| | 1 42 | STATE STATEMENT OF ST STATEMENT STREET |
| | CAUSES OF DEATH | Uleer of the Stomach or Duodenum Duarthea, and Enteritis (under 2 years of age) Diarrhea, Enteritis, and Ulcenyears of age and over) Appendicitis Hernia, Intestinal Obstruction Cirrhosis of the Liver and Biliary Passage, including Biliary Calculi Other Diseases of the Liver and Biliary Calculi Other Diseases of the Digestive Organs Nephritis Other Diseases of the Kidneys and Ureters Calculi of the Urethra, Urinary Abscess, etc. Diseases of the Urethra, Urinary Abscess, etc. Diseases of the Prostate Diseases of the Crehra, Urinary Abscess, etc. Diseases of the Urethra, Urinary Abscess, etc. Diseases of the Urethra, Urinary Abscess, etc. Diseases of the Urethra, Urinary Abscess, etc. Diseases of the Prostate Diseases of the Urethra, Urinary Abscess, etc. Diseases of the Prostate Diseases of the Prostate Diseases of the Prostate Diseases of the Prostate Diseases of the Urethra, Urinary Abscess, etc. Diseases of the Prostate Diseases of the Urethra, Urinary Abscess, etc. |
| Detailed | Inter- national List Nos. | 117 119 120 121 122 124 124 125-127 115-129 115-129 115-129 115-129 136-132 136 136 137 138,139 |

TABLE I-continued

| | 95 and up- wards | -: | 11 1 | 11 | 3 | 1 | ::: | 11 | :: | |
|----------|------------------------------------|---|---|--|---|--|---|--|--|---|
| | 9 | 11 | 1 1 | 11 | 1 | | :: | 11 | 11 | 11111111 |
| | 85- | и: | 1 1 | 11 | 1 | 1 | 13 | :: | :: | 111111111 |
| | å | · : | 1 1 | 11 | 1 | 1 | 11 | :: | 11 | 11111111 |
| | 74 | 40 | 1 : | 11 | 1 | : | -: | 11 | 11 | 11111111 |
| | 70 | 12 | 1 1 | 11 | 1 | ; | -,- | :: | 11 | 111111111 |
| 9 1 | -59 | <u>∞</u> + | 1 1 | 18.6 | : | 1 | -: | :- | 11 | 11111111 |
| | 9 | 22 | 1 1 | 11 | 1 | 1 | 11 | :: | 11 | 11111111 |
| | ₹ | 124 | 1 1 | 11 | 1 | | -" : | 11 | - : | 11111111 |
| | \$ | 20 m | 1 1 | 11 | 1 | 1 | 1 1 | -: | 11 | 11111111 |
| | 4 | N.W. | 1 : | 11 | 1 | | 11 | 1.1 | 11 | 11111111 |
| | \$ | 90 | 4 1 | - : | 2 | m | - : | :: | :: | 11111111 |
| | 35- | 41/ | | :- | - | + | :: | :: | :: | 11111111 |
| | ş | (4) | 6 : | - : | - | + | 11 | 11 | 11 | 11111111 |
| H | 25- | 12 | 1 1 | im | 1 | m | :: | 11 | 11 | 11111111 |
| DEATH | ä | w : | 1 1 | 7- | 1 | ۳. | 11 | 11 | - : | 11111111 |
| | 72 | 11 . | - : | 11 | 1 | - | 11 | | | 11111111 |
| S AT | 9 | m → | 1 1 | 11 | 1 | 1 | 11 | 11 | -: | 11111111 |
| AGES | 4 | 11 | 1 1 | 11 | | 1 - | 11 | | 11 | 11111111 |
| 7 | Total under 5 years | n ; | 1 1 | 11 | 1 | 1 | 0110 | - 1 | 41 28 | 228252=028 |
| | + | | 1 1 | 11 | 1 | 1 | 11 | - : | 11 | 11111111 |
| | 4 | 11 | 1 1 | :: | 1 | 1 | 11 | 11. | 11 | 11111111 |
| | -7- | 11 | 1 1 | 11 | | | 11 | 11 | - : | 11111111 |
| | | 24 : | 1 1 | 11 | 1 | 1 | 1.8 | 11 | * : | 111111111 |
| | Total under 1 year | m ; | 1 1 | 11 | 1.71 | 1 | 3.13 | 11 | 38 | 8856=688 |
| | 6-12 months | 4 | 1 1 | 111 | 1 | 1 | 100 | 11 | :- | :::: |
| | sdnom 8–6 | 11 11 | 1 1 | 1.1 | - | 1 | 44 | 11 | 4- | NU 1- 1111 |
| | sdrnom 2–1 sdrnom | | 1 1 | 11 | 1 | 1 | 11 | 11 | 411 | w4 :::::: |
| | 2-1 | 11 | 1 1 | 11 | 1 | 1 | 11 | 11 | 2.10 | 00401 100- |
| | i-4 | -: | 1 1 | 11 | | | 11 | 11 | 06 | 23 19 19 29 29 29 29 29 29 29 29 29 29 29 29 29 |
| | I day & less than 7 days | | 1 1 | 11 | 1 | | 11 | 1.1 | 50 | ::025407 |
| | Under 1 day | 11 | 1 1 | 11 | | | 1 1 | | 94 | 27074-78 |
| | All | 35 | * - | 40 | 4 | 18 | 1.4 | 200 | 30 | 225522022 |
| 343 | C. T. Tal | F | (H (H | THE LA | H | 14 | M F | M | M F | NTATATAT |
| | CAUSES OF DEATH | Totals of Diseases of the Urinary and Gental System (not Veneral or connected with Pregnancy or the Puerperium) | Diseases and Accidents of Pregnancy Abortion without mention of | Septic Conditions Post-abortive Infection Infection during Childbirth | Other Accidents and Diseases of Childbirth and the Puerperium | Totals of Diseases of Pregnancy, Childbirth, and the Puerperal State | Diseases of the Skin and Cellu- lar Tissue | Diseases of the Bones and Organs of Movement, except Tuberculosis and Rheumatism | Congenital Malformations (still-births excepted) | Congenital Debility Premature Birth (still-births exchuded) Injury at Birth (still - births excluded) Other Discases peculiar to the first year of life |
| Derailed | Inter- national List Nos. | 130-139 | 142–145 | 140 | 146, | 140-150 | 151-153 | 154-156 | 157 | 158 |

TABLE 1-continued

AGES AT DEATH

| | CAUSES OF DEATH | Totals of Diseases the first year of 1 | Senility, Old Age | Suicide Automobile Accidents (all moror-driven road vehicles) Other Violent or Accidental Deaths (automobile accidental Deaths of Civilians due ro Operations of War Legal Executions Total of Violent or Accidental Deaths | Causes of Death Unstated |
|-----|---------------------------|---|-------------------|--|--------------------------|
| | Белтн | peculiar to M | M | Accidents (all M n road vehicles) F road very F road vehicles F road veh | Instated or M |
| | All | 165 | 33.90 | 78 :::: 20±0-: 0* | 243 |
| - | Under 1 day | 32 | 11 | 1111111 1111 1 | |
| | t day & less | 82 | 11 | 111111111111111111111111111111111111111 | 13 |
| 1 | Necks 1−4 | 36 | 11 | 111111-1 1111-1 | 1 |
| 1 | sdrnom shron | 90 | 11 | 1111110 111110 | 1 : |
| j | sdrnom 2–3 | ma | 11 | 111111111 1111 11 | 1: |
| 1 | 3-6 months | 50.00 | 11 | | 1 3 |
| | squou | 22 | | | 1 |
| 100 | | 165 | 11 | 1111111000 1111 000 | - |
| 9- | -1 | 1 1 | 1 1 | 11111-1-11111 | 1 : |
| - | 2-3 | | 1 1 | | |
| - | + | | 11 | 11111-00 111100 | |
| | Total under 5 years | 165 | 11 | 11114428 1111 72 | - |
| - | | | | | - |
| + | -01 -5 | 1 1 | 1 1 | :::::::::::::::::::::::::::::::::::::: | 1 |
| - | - 15 | 11 | 11 | 1 1 1 10 10 1 11 11 15 1 | 1 |
| - | 8 | 11 | 11 | 11111 171 1111 71 | 1 |
| 1 | 25- | 11 | 11 | 1- | 1 |
| - | ğ | 11 | 11 | - -6164 + 6 | |
| 1 | 35- | 1.1 | 11 | 1-11-1-1 1111 | 1 |
| 1 | \$ | 11 | 11 | et | - |
| - | 45- 5 | | | | + |
| - | 50- 55- | | - | - - 0 0 | 3 |
| - | 8 | | | 0 - 00 Tm | 15 |
| - | - 69 | 11 | 4-10 | um w4 | 10 |
| - | ķ | 11 | 22 | - + m + | - |
| | 7. | 11 | 22 | =) | 1 : |
| | å | | 528 | [- | |
| - | 4 | 11 | 100 | 111111-0 1111-0 | 1: |
| - | 8 | 111 | 12 | 111111111 1111 11 | 1: |
| 1 | 95 and up- wards | 111 | | | 1 |

.

The principal causes of death (in order of importance) were as follows:-

| | Heart diseas | c | - | | - | - | - | - | 1,130 |
|-----|--------------|----------|-----------|----------|-------|---|---|---|-------|
| 2. | Cancer - | | - | - | - | - | - | | 664 |
| 3. | Pulmonary t | ubercu | losis | - | - | - | - | - | 326 |
| 4. | Bronchitis - | | - | - | - | - | - | - | 243 |
| 5. | Diarrhœa an | d ente | ritis | - | - | - | - | - | 188 |
| 6. | Senile decay | | - | - | - | - | - | - | 221 |
| 7. | Premature b | irths (: | still-bir | ths excl | uded) | - | - | - | 155 |
| | Pneumonia a | | | | | - | - | - | 274 |
| | Violence - | | | - | - | - | - | - | 142 |
| 10. | Nephritis - | | - | - | - | - | - | - | 77 |
| | | | | | | | | | |

TABLE II

Trend of mortality from the four principal causes of death in Belfast from 1936:—

| YEAR | | Heart Disease | Cancer | | Pulmonary Tuber- culosis | | Respiratory Tract |
|------|-----|------------------|---------|-----|--------------------------------|------|----------------------|
| 1936 | | 1,280 | 585 | | 406 | | 724 |
| 1937 | *** | 1,306 | 564 | | 414 | | 795 |
| 1938 | *** | 1,314 | 568 | | 348 | | 691 |
| 1939 | | 1,344 | 572 | | 365 | | 580 |
| 1940 | | 1,387 | 576 | | 412 | | 840 |
| 1941 | | 1,277 | 570 | | 426 | | 685 |
| 1942 | | 995 | 633 | *** | 369 | **** | 546 |
| 1943 | | 1,116 | 613 | | 367 | | 655 |
| 1944 | | 1,098 | 620 | | 354 | | 523 |
| 1945 | | 1,130 | 664 | | 326 | *** | 517 |

A reference to Table II will show the trend of mortality from the four principal causes of death: these are in the same order and relative proportions as occur in other parts of the country. They account for the great bulk of deaths.

Heart Disease.—Stress has been laid on deaths from heart disease and to the fact that the majority of them are found to be recorded in the later age groups, giving rise to the supposition that they represent a degenerate condition rather than an infective one. It may be, however, that the degenerative change in many cases was the result of an infective condition in earlier life, particularly juvenile carditis. On this hypothesis many forms of heart disease could be regarded as preventable diseases.

CANCER.—The trend of mortality in the case of cancer, as judged by recorded deaths from the disease, is on the increase. The increase is due in part to the fact that there is a steady increase in the population in the middle and later age groups in which malignant disease is more common; the increase is also due in part to better diagnosis and better certification of the causes of death.

PULMONARY TUBERCULOSIS.—Reference has already been made to the decreasing trend in the mortality from all forms of tuberculosis.

RESPIRATORY TRACT.—The trend of mortality from diseases of the respiratory tract varies from year to year and is largely dependent upon epidemic prevalence of these diseases.

TABLE III

Shewing the number of deaths at various age periods, the percentage of the total number registered, and the death-rates per 1,000 of the population.

| | | | | No. of Deaths | | Percentage of Total Deaths | | Death Rate per 1,000 of the Population |
|-----------------------------|---|---|-------|------------------|-----|----------------------------------|-----|---|
| Under 1 year - | - | - | - | 828 | | 16.3 | | 1.9 |
| 1 year and under 5 years | - | - | | 125 | *** | 2.5 | 100 | 0.3 |
| 5 years and under 25 years | - | - | - | 253 | | 5.0 | | 0.6 |
| 25 years and under 45 years | - | | - | 454 | | 8.9 | | 1.0 |
| 45 years and under 65 years | - | - | - | 1,220 | | 24.1 | | 2.8 |
| 65 years and upwards | - | - | - | 2,189 | | 43.2 | | 5.0 |
| | | | - | | | | | |
| | | | Total | 5,069 | | | | |

TABLE IV

Shewing the number of Deaths registered as having been caused by Phthisis and Diseases of the Respiratory Organs during the twenty years, 1926-1945.

| YEAR | | Population | Phthisis | Rate per 1,000 | | Diseases of the Respiratory System | | Total Chest Affections |
|------|------|------------|----------|-------------------|-----------|---|-------|------------------------------|
| | | | | | Pneumonia | Others | Total | |
| 1926 | | 416,000 | 570 | 1.4 | -516 | 630 | 1,146 | 1,716 |
| 1927 | 100 | 416,000 | 515 | 1.2 | 479 | 526 | 1,005 | 1,520 |
| 1928 | *** | 415,151 | 499 | 1.2 | 521 | 542 | 1,063 | 1,562 |
| 1929 | | 415,151 | 485 | 1.2 | 680 | 761 | 1,441 | 1,926 |
| 1930 | | 415,151 | 436 | 1.0 | 357 | 482 | 839 | 1,275 |
| 1931 | *** | 415,151 | 452 | 1.1 | 518 | 479 | 997 | 1,449 |
| 1932 | *** | 415,151 | 448 | 1.1 | 539 | 461 | 1,000 | 1,448 |
| 1933 | | 415,151 | 429 | 1.0 | 583 | 605 | 1,188 | 1,617 |
| 1934 | **** | 415,151 | 398 | 0.96 | 434 | 421 | 855 | 1,253 |
| 1935 | | 415,151 | 389 | 0.93 | 597 | 445 | 1,042 | 1,431 |
| 1936 | | 436,000 | 406 | 0.93 | 450 | 373 | 823 | 1,229 |
| 1937 | | 438,112 | 414 | 0.95 | 503 | 405 | 908 | 1,322 |
| 1938 | *** | 443,500 | 348 | 0.78 | 465 | 294 | 759 | 1,107 |
| 1939 | | 443,500 | 365 | 0.82 | 316 | 357 | 673 | 1,038 |
| 1940 | | 444,500 | 412 | 0.93 | 404 | 539 | 943 | 1,355 |
| 1941 | *** | 444,500 | 426 | 0.96 | 330 | 446 | 776 | 1,202 |
| 1942 | | 444,500 | 369 | 0.83 | 325 | 298 | 623 | 992 |
| 1943 | | 425,000 | 367 | 0.86 | 451 | 291 | 742 | 1,109 |
| 1944 | | 430,800 | 354 | 0.82 | 315 | 286 | 601 | 955 |
| 1945 | | 435,900 | 326 | 0.75 | 274 | 339 | 613 | 939 |

TABLE V

Showing the number of deaths from Epidemic Diseases during the ten years 1936-1945.

| | | The second second | - | Contract of the last | Control or other Assessment | | No. of Concession, Name of Street, or other Persons and Street, or other P | - | | Total Street, or other Persons | and desirement of | |
|--------|----------|-------------------|------------------|----------------------|-----------------------------|--------------------|--|---------|-----------|--------------------------------|-------------------|----------|
| YEAR | Smallpox | Typhus Fever | Typhoid Fever | Scarlet Fever | Diphtheria | Puerperal Fever | Cerebro- Spinal Fever | Measles | Influenza | Diarrhœa | Dysentery | Whooping |
| | | | | | | | | | | | | |
| 1936 | 1 | 1 | - | 13 | 38 | 22 | 3 | 7 | 9+ | 258 | 1 | 64 |
| 1937 | 1 | 1 | 7 | 1 | 14 | 20 | 5 | 27 | 218 | 193 | - | 32 |
| . 1938 | 1 | 1 | i | 80 | = | 1.2 | 00 | 224 | 57 | 163 | | 51 |
| 1939 | 1 | 1 | 1 | 7 | 34 | 9 | 2 | 13 | 20 | 216 | 1 | 35 |
| 1940 | 1 | 1 | - | 10 | 85 | 7 | 22 | 150 | 191 | 316 | 1 | 54 |
| 1941 | 1 | 1 | 1 | 121 | 95 | 3 | 20 | 1 | 90 | 202 | 1 | 19 |
| 1942 | 1 | 1 | 1 | 1 | 15 | 9 | 13 | 17 | 18 | 182 | 1 | 6 |
| 1943 | - | 1 | 4 | 3 | 10 | 11 | 5 | = | 50 | 310 | 1 | 40 |
| 1944 | 1 | 1 | - | 2 | == | + | 3 | - | 21 | 202 | - | 22 |
| 1945 | 1 | 1 | - | c1 | 7 | 5 | 2 | 10 | 16 | 188 | - | 26 |
| | | | | | | | | | | | | |

TABLE VI

Shewing the Population, the number of Births, the Birth Rate per 1,000, the number of Deaths, the Death Rate per 1,000, and the natural increase during the twenty years, 1926-1945.

| lise | 2 | 99 | 12 | 17 | 17 | 3 | 61 | 11 | 0 | 0 | 5 | 61 | 1 | 8 | 1 | 17 | 9 | 17 | 0 | + |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Natural | | | | | | | | | | | | * | | | | | | | | |
| Death Rate | 15.4 | 13.6 | 14.0 | 15.6 | 12.9 | 14.1 | 13.9 | 15.2 | 13.7 | 15.0 | € 14.2 | 14.5 | 13.7 | 12.9 | 14.8 | 14.9 | 11.2 | 13.0 | 12.0 | 11.6 |
| No. of Dearbs | 6,411 | 5,653 | 5,804 | 6,462 | 5,451 | 5,857 | 5,783 | 6,318 | 5,676 | 6,238 | 6,207 | 6,341 | 690'9 | 5,758 | 6,583 | 6,641 | 4,973 | 5,511 | 5,176 | 5,069 |
| Birth Rare | 24.9 | 22.9 | 22.5 | 21.4 | 22.7 | 22.8 | 21.4 | 20.7 | 21.9 | 21.3 | 21.2 | 20.9 | 20.6 | 20.2 | 9.61 | 18.9 | 21.7 | 25.2 | 24.3 | 22.6 |
| No. of Births | 10,356 | 605'6 | 9,356 | 8,899 | 9,558 | 9,470 | 8,882 | 8,599 | 980'6 | 8,848 | 9,242 | 9,150 | 9,146 | 8,966 | 8,704 | 8,383 | 659'6 | 10,713 | 10,456 | 9,853 |
| Population | 416,000 | 416,000 | 415,151 | 415,151 | 415,151 | 415,151 | 415,151 | 415,151 | 415,151 | 415,151 | 436,000 | 438,112 | 443,500 | 443,500 | 444,500 | 444,500 | 444,500 | 425,000 | 430,800 | 435,900 |
| | | | **** | **** | : | | **** | | *** | **** | **** | | **** | | | *** | *** | | - | |
| YEAR | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 |

TABLE VII

Shewing the number of cases of infectious diseases notified during the ten years 1936-1945, pursuant to the Infectious Disease (Notification) Act, 1889.

| Erysipe- | 135 | 128 | 611 | 134 | 1115 | 96 | 82 | 09 | 29 | 92 | THE PERSON NAMED IN |
|----------------------------------|------|------|------|------|------|-----|-----|------|------|-----|---------------------|
| Puerperal Fever | 22 | 11 | 14 | 7 | 0. | 3 | 12 | 2 | 10 | - | |
| Polio- myelitis | 13 | 2 | m | 50 | ei. | 7 | 8 | 2 | 5 | 20 | |
| Cerebro- Spinal Meningitis | 14 | 20 | 35 | 12 | 991 | 246 | 122 | 75 | 48 | 39 | |
| Diph- theria | 1053 | 847 | 1999 | 989 | 1165 | 683 | 427 | 322 | 217 | 213 | |
| Scarlet Fever | 1811 | 1486 | 2107 | 9691 | 1266 | 453 | 778 | 1964 | 1679 | 208 | |
| Typhoid | 21 | 21 | 12 | 20 | 17 | + | 10 | 29 | 10 | 14 | |
| | | 1 | 1. | | | | | 1 | | 1 | |
| | | | | | | | | | | | |

TABLE VIII

Shewing the number of deaths from Cancer and other Tumours for the year 1945, as compared with the preceding five years.

| YEAR. | | | - | 2 | 3 | 47 | 2 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 20 | 55 | 09 | 65 | 20 | 75 | 80 | 95 | 06 | | | Prond |
|--------|-------|-----|---|----|---|----|----|----|----|----|----|----|----|-----|-----|-----|-----|------|------|-----|-----|-----|------|---------|-----|-------|-------|
| | Under | - | 2 | 20 | 4 | 2 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 20 | 55 | 09 | 9 | 20 | 75 | 80 | 85 | 90 0 | over M | M | H | Total |
| 1945 | | - | 1 | - | : | : | 4 | - | 4 | 2 | 2 | 10 | 13 | 36 | 52 | 45 | 69 | 95 | 26 | 126 | 78 | 40 | 6 | : | 323 | 365 | 889 |
| 1940 | | : | : | : | - | : | : | - | ~ | 7 | 9 | 10 | 12 | 32 | 5 | 53 | 79 | 68 | . 46 | 95 | 50 | 22 | 9 | - | 270 | 334 | 604 |
| 1941 | | . : | : | - | : | : | - | 4 | 4 | 1 | 6 | 5 | = | 29 | 49 | 90 | 78 | \$ ± | # 1 | 83 | 35 | 25 | 7 | 1 | 267 | 327 | 594 |
| 1942 | | 2 | 1 | - | - | : | 2 | - | 2 | - | 2 | 12 | 23 | 40 | 49 | 99 | 78 | 96 | 104 | 94 | 55 | 18 | 10 | 2 | 312 | 341 | 653 |
| 1943 | | : | - | 1 | 2 | : | - | 2 | - | - | 4 | 7 | 91 | 25 | 49 | 89 | 99 | 86 | 901 | 103 | 28 | 20 | 10 | 2 | 287 | 348 | 635 |
| 1944 | | 1 | : | | - | - | 2 | 1 | m | 3 | 00 | 13 | 17 | 59 | 46 | 54 | 92 | 100 | 108 | 16 | 22 | 19 | 9 | 23 | 315 | 322 | 637 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | LS | 2 | 1 | 2 | 5 | 1 | 9 | 00 | 14 | 13 | 29 | 47 | 79 | 155 | 238 | 289 | 377 | 461 | 529 | 466 | 255 | 104 | 34 | 8 1,451 | 451 | 1,672 | 3,123 |
| 1 | | | | | | | | | | | | | | | | | | | | | | l | | | | | |

It will be seen from the above table that the average number of deaths registered annually as having been caused by Cancer and other Tumours during the quinquennial period 1940 to 1944 was 625 (290 males and 335 females).

It should be noted that the above Table includes non-malignant tumours and tumours of undetermined nature.

Infectious Diseases

SCARLET FEVER.

768 cases were notified during the year, but on investigation 26 were found not suffering from the disease, which made the total number that occurred during the year 742, an attack-rate of 1.7 per 1,000 of the population.

The number of cases which occurred during the preceding year was 1,632, and the average number notified annually during the ten years 1935—1944 was 1,663.

2 deaths occurred, equivalent to a case mortality-rate of 0.3 per cent., or a death-rate of 0.005 per 1,000 of the population. There were 2 deaths in the preceding year. The average number annually during the ten years 1935—1944 was 9.

DIPHTHERIA.

213 cases were notified, but on investigation 23 were found not suffering from the disease. In addition to those notified, one case notified as scarlet fever was found to be suffering from diphtheria, which made the total number that occurred during the year 191; an attack-rate of 0.4 per 1,000 of the population.

The number of cases that occurred during the preceding year was 173, and the average number notified annually during the ten years 1935—1944 was 726.

7 deaths occurred, equivalent to a case mortality-rate of 3.6 per cent., or a death-rate of 0.02 per 1,000 of the population. The number of deaths in the preceding year was 11, and the average number annually during the ten years 1935—1944 was 33.

TYPHOID FEVER.

14 cases were notified during the year, but on investigation 2 were found not suffering from the disease, which made the total number that occurred during the year 12; an attack-rate of 0.03 per 1,000 of the population.

The number of cases which occurred during the preceding year was 28, and the average number notified annually during the ten years 1935—1944 was 30.

1 death occurred during the year, equivalent to a case mortality-rate of 8.3 per cent., or a death-rate of 0.002 of the population. No deaths occurred in the preceding year; the average number occurring annually during the ten years 1935—1944 was 2.

ERYSIPELAS.

76 cases were notified during the year. The number of cases that occurred in the preceding year was 67, and the average number notified annually during the ten years 1935—1944 was 108.

CEREBRO-SPINAL FEVER.

39 cases were notified during the year, 9 of which were found not suffering from the disease, making the total number of cases that occurred during the year 30; an attack-rate of 0.07 per 1,000 of the population. Of these, 2 deaths occurred, equivalent to a case mortality-rate of 6.7 per cent., or a death-rate of 0.005 per 1,000 of the population.

MEASLES.

1,702 cases of Measles were notified during the year, an attack-rate of 3.9 per 1,000 of the population.

The number of cases that occurred during the preceding year was 3,048.

10 deaths occurred during the year, 1 occurred in the preceding year, and the average number annually during the ten years 1935—1944 was 70.

WHOOPING-COUGH

603 cases of Whooping-Cough were notified during the year, an attack-rate of 1.4 per 1,000 of the population.

The number of cases notified during the preceding year was 734.

26 deaths were caused by whooping-cough, equivalent to a death - rate of 0.06 per 1,000 of the population. In the preceding year the number of deaths from this disease was 22, and the average number registered annually during the ten years 1935—1944 was 35.

DIARRHŒA AND ENTERITIS.

172 deaths of children under 2 years of age were caused by this disease during the year, equivalent to a death-rate of 0.39 per 1,000 of the population.

The number of deaths that occurred during the preceding year was 184, and the average number of deaths annually during the ten years 1935—1944 was 210.

PUERPERAL FEVER.

One case of this disease was notified. The number of cases notified during the preceding year was 5, and the average number notified annually during the ten years 1935—1944 was 12.

EPIDEMIC DISEASES.

258 deaths were caused by epidemic diseases during the year, equivalent to 5.1 per cent. of the total number of deaths from all causes, or a death-rate of 0.6 per 1,000 of the population. During the preceding year the deaths from epidemic diseases numbered 242, equivalent to 4.7 per cent. of the total deaths, or a death-rate of 0.6.

One, or 0.4 per cent. of the total deaths from epidemic diseases, was caused by typhoid fever; 2, or 0.8 per cent., by scarlet fever; 7, or 2.7 per cent., by diphtheria; 5, or 1.9 per cent., by puerperal fever; 2, or 0.8 per cent., by cerebro-spinal fever; 10, or 3.9 per cent., by measles; 16, or 6.2 per cent., by influenza; 188, or 72.9 per cent., by diarrhœa and enteritis; 1, or 0.4 per cent., by dysentery; and 26, or 10.8 per cent., by whooping-cough.

Infectious Diseases

CORRECTED DIAGNOSIS FOR 1945.

Two cases of typhoid fever, 26 cases of scarlet fever, 23 cases of diphtheria, and 9 cases of cerebro-spinal fever were found not suffering from the disease notified. Of these, 5 scarlet fever were found to be suffering from measles and one scarlet fever was found to be suffering from diphtheria. The remainder were found not to be suffering from any notifiable disease.

Venereal Diseases

Statement showing the services rendered at the Treatment Centre at Royal Victoria Hospital, Belfast, during the year ended 31st March, 1946, classified according to the areas in which the patients resided.

| В Тотаг | | 394 | 808 | 1 | 2,005 | 2,907 | 21,497 | 2,127 | 11,835 | 131 |
|----------------------------------|--|----------|-----------|--------------|--------------------------------|-------|--|--|--|-------------------------|
| Travelling | | 1 | - | 1 | | - | 2 | 1 | 1 | |
| Gibraltar Evacuces | | * | 20 | | I. | 9 | 25 | 2 | 18 | 1 |
| Port | | 23 | 36 | 1 | 22 | 2 | 334 | 19 | 161 | 9 |
| Co. Donegal | | i | | | 1 | | : | 91 | | 1 |
| Co. Tyrone | | 9 | 6 | | 90 | 13 | 147 | 5 | 121 | 13 |
| Co. Fermanagh | | | - | | | - | 2 | | 1 | 1 |
| Co. Derry | | 9 | h | - | y | 61 | 771 | ‡ | 135 | 37 |
| Co. Armagh | | | Ф | | 10 | 16 | | 98 | 51 | 17 |
| Co. Antrim | | 31 | 33 | 1 | 37 | 101 | 1,479 | 350 | 1,233 | 25 |
| Co. Down | | 13 | 25 | | 31 | 8 | 210 | 17 | \$39 | 9 |
| Belfast | | 310 | 389 | | 168'1 | 2,590 | 18,486 | 1,078 | 9,541 | 36 |
| NAME OF COUNTY OR COUNTY BOROUGH | A. Number of cases from each area dealt with during the year for the first time and found to be suffering from:— | Syphilis | Gonorrhea | Soft Chancre | Conditions other than Venereal | Тотак | B. Total number of attendances of all patients residing in each area | C. Aggregate number of "In-patient days" of all patients residing in each area | D. Number of doses of arseno- 1. Out-Patient benzol compounds given . Clinic - | tients residing in each |

Venereal Diseases

Return relating to all Persons who were treated at the Treatment Centre at Royal Victoria Hospital, Belfast, during the year ended 31st March, 1946.

| | | The state of the s | STREET, SQUARE, SHARE | THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS N | | | | | | | |
|---|----------|--|-----------------------|--|-------------------|-------------------|-----------------------------------|-----------------|------------|-------------------|--------|
| | Syphilis | ILIS | Соможноем | RHOEA | SOFT CHANCES | | CONDITIONS OTHER THAN VENEREAL | OTHER THAN REAL | TOTAL | TAL | |
| Number of cases which - | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females | |
| bservat in a nd or | 4,370 | 2,134 | 3,757 | 130 | į | 1 | | | 8,127 | 2,264 | |
| other Centres, and which returned to the Treatment Centre during the year under report suffering from the same infection | 66 | ‡ | 77 | 2 | | 1 | | = | 176 | 94 | |
| Torat-Items 1 (a) and (b) | 4,469 | 2,178 | 3,834 | 132 | - | | | - | 8,303 | 2,310 | |
| 2. (a) Number of cases dealt with at the Treatment Centre during the year for the first time | 252 | 142 | 431 | 11 | | 1 | 1,402 | 603 | 2,085 | 822 | |
| Torat-Items 1 (a), 1 (b), and 2 (a) - | 4,721 | 2,320 | 4,265 | 209 | - | - | 1,402 | 609 | 10,388 | 3,132 | |
| 2. (b) Number of cases included in Item 2 (a) known to have received previous treatment at other Centres for the same infection - | 35 | oc. | 2 | | | | 1 | | 37 | œ | |
| Number of cases which ceased to attend— (a) before completing the first course of treatment for | 81 | 15 | 38 | -01 | 1 | | | () | 25 | 25 | |
| (c) after one of more courses, but before com- pletion of treatment form. | 1 | 9 | 39 | 0 | 1 | 1 | | - | 46 | 15 | |
| Number of cases transferred to other Treatment | | 1 | | 1 | 1 | | : | - | | 1 | |
| Centres after treatment for - Number of cases discharged after completion of | 30 | = | 21 | 13 | i | 1 | 1 | 1 | 7 | ± | |
| Number of cases which, at the end of the year | - | 1 | 171 | 1 | | | 1 | : | 171 | 1 | |
| under report, were under treatment or observation for | +,676 | 2,288 | 3,996 | 187 | | - | 1 | 1 | 8,672 | 2,475 | |
| TOTAL-Items 3, 4, 5, and 6 | 4,721 | 2,320 | 4,265 | 209 | The second second | - | | 11. | 8,986 | 2,529 | |
| Out-patient attendances: (a) For individual attention by the Medical | BE DIE | The second | - SHORE | Barrett a | - | Carbitan's | Street day | and que | spr spring | Marin St. | 12500 |
| (b) For intermediate treatment, e.g., irrigation, dressings, etc. | | 1 1 | 5,618 | | March | 1 1 | !! | | 5,618 | | |
| TOTAL ATTENBANCES | - | | | | | - | 14 | "" | 1 | 100 | 21,497 |
| 8. Aggregate number of "In-patient days" of treat- ment given to persons who were suffering from - | 396 | 451 | 90 | 462 | - | 1 | 1 | 1 | 1,214 | 913 | |
| | | The second second | | | The second second | The second second | | | | The second second | |

Venereal Diseases

Statement showing the services rendered at the Treatment Centre at Mater Infirmorum Hospital, Belfast, during the year ended 31st March, 1946, classified according to the areas in which the patients resided.

| | 1 | | | | | 1 | | | | | |
|----------------------------------|--|----------|-----------|--------------|--------------------------------|------|--|--|-------------------------------|-----|-----------------------------------|
| Тотаг | | 139 | 168 | - | 456 | 763 | 5,494 | # | 1,931 | 102 | |
| Port | | 96 | 13 | 8 | | 121 | 82 | | 30 | : | |
| Co. Armagh | | - | - | - | 1 | | + | : | 2 | : | |
| Co. Tyrone | | - | | - | | 2 | 10 | } | - | 3 | |
| Co. Fermanagh | | 2 | - | - | 1 | 797 | - | - 04 | | 96 | |
| Co. Derry | | | - | - | 1 | - | 7 | 1 | | 1 | |
| Co. Down | | 10. | ~6 | | -1 | 13 | 76 | 22 | 13 | 00 | |
| Co. Antrim | | 12 | 7 | 8, | | 61 | 136 | # | 25 | = | |
| Belfast | | 110 | 136 | | 456 | 702 | 5,182 | 305 | 1,827 | 75 | |
| NAME OF COUNTY OR COUNTY BOROUGH | A. Number of cases from each area dealt with during the year for the first time and found to be suffering from:— | Syphilis | Gonorrhæa | Soft Chancre | Conditions other than Venereal | Тоты | B. Total number of attendances of all patients residing in each area | C. Aggregate number of "In-patient days" of all patients residing in each area | D. Number of doses of arseno- | _ | to patients residing in each area |

Venereal Diseases

Return relating to all Persons who were treated at the Treatment Centre at Mater Infirmorum Hospital, Belfast, during the year ended 31st March, 1946.

| | SYPI | SypHILIS | GONORRHOEA | RHOEA | Sort C | SOFT CHANCEE | CONDITIONS | CONDITIONS OTHER THAN | To | TOTAL |
|---|----------|------------|------------|---------------|-----------|--------------|-------------|-----------------------|-------|---------|
| | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females |
| (a) at the beginning of the year under report were under treatment or observation for - (b) had been marked off in a previous year as | 245 | 69 | 31 | 1 | | : | 30 | 21 | 306 | 26 |
| | 4 | 1 | : | , | 1 | 1 | 25 | - | 7 | - |
| Torat-Items 1 (a) and (b) | 249 | 69 | 31 | 7 | *** | - | 33 | 22 | 313 | 86 |
| 2. (a) Number of cases dealt with at the Treatment Centre during the year for the first time | 26 | 45 | 133 | 35 | | | 204 | 252 | 434 | 329 |
| Torat-Items 1 (a), 1 (b), and 2 (a) - | 346 | 111 | 164 | 42 | 8 | 100 | 237 - | 274 | 747 | 427 |
| 2. (b) Number of cases included in Item 2 (a) known to have received previous treatment at other Centres for the same infection - | 29 | 9 | 16 | 3 | : | 1 | | : | 45 | 6 |
| 3. Number of cases which ceased to attend— (a) before completing the first course of treatment for | 'n | 1 | | 1 | : | 1 | 1 | 1 | 2 | 1 |
| (b) after one or more courses, but before com- pletion of treatment for | 13 | + | 10 | | 1 | - | - | 1 | 23 | + |
| | 94 | 90 | 48 | 5 | | : | 1 | : | ŧ | 13 |
| Centres after treatment for | 34 | 61 | 21 | 1 | : | : | 1 | . 1 | 55 | 2 |
| | +5 | œ | 65 | 15 | 1 | | 1 | | 107 | 23 |
| under report, were under treatment or observation for | 206 | 89 | 20 | 22 | | 1 | ***** | | 226 | 1111 |
| Toral-Items 3, 4, 5, and 6 | 346 | - 111 | 164 | 42 | - AM - 18 | - C | | *** | 510 | 153 |
| 7. Out-patient attendances: | The Will | Short Carl | | applied Trees | Total Ann | Bell link | South Story | DESCOUNT N | | |
| (b) For intermediate reserved | 2,112 | 566 | 812 | 218 | | 1 | 387 | 418 | 3,311 | 1,631 |
| dressings, etc. | 174 | 137 | 911 - | 125 | 100 | - | **** | - | 290 | 262 |
| TOTAL ATTENDANCES | 2,286 | 1,132 | 928 | 343 | *** | **** | 387 | 418 | 3,601 | 1,893 |
| 8. Aggregate number of "In-patient days" of treat- ment given to persons who were suffering from - | 184 | 210 | 10 | 7 | | | | 1 | 154 | 217 |

ириспетіа immunisation

During the year 7,751 persons completed a course of treatment against diphtheria; of these, 6,625 were immunised at clinics, schools, and institutions, 1,452 by private practitioners with material supplied by the Department, and 34 by the

The total number of persons who had completed a course of treatment from the inception of the work in October, 1936, until the end of December, 1945, details of whose age grouping are given in the table below, was 72,800 medical staff at Purdysburn Fever Hospital, while undergoing treatment for scarlet fever.

In addition, 2,445 children received reinforcing injections

| | | H | at end of 1945 | 15,434 | Equal to 48% of | tms age-group | | under 10 years at | end of 1945 25.637 | Equal to 64% of | this age-group | | under 15 years at | end of 1945 22,442 | Equal to 56% of | this age-group | Total over 15 years 9,287 |
|---|-------------------------------|----------------|----------------|---------|-----------------|---------------|---------|-------------------|-----------------------|-----------------|----------------|----------|-------------------|-----------------------|-----------------|----------------|---------------------------|
| 1936. | 1945 | 33 | 2445 | 1474 | 614 | 358 | 542 | 810 | 829 | 360 | 170 | 7.1 | 44 | 18 | 40 | 27 | 29 |
| October, | 1944 | 69 | 2492 | 1329 | 628 | 455 | 663 | 596 | 802 | 492 | 251 | 107 | 44 | 33 | 47 | 26 | 25 |
| sed since | 1943 | 36 | 2576 | 1642 | 1043 | 266 | 1022 | 1133 | 963 | 902 | 382 | 222 | 81 | 73 | 78 | 40 | 37 |
| n immuni | 1942 | 7.1 | 1634 | 1373 | 985 | 937 | 929 | 1123 | 1017 | 295 | 315 | 221 | 103 | 85 | 98 | 09 | 180 |
| of childre | 1941 | 33 | 906 | 1405 | 1258 | 1228 | 1262 | 1408 | 1356 | 366 | 647 | 433 | 200 | 213 | 171 | 141 | 78 |
| shewing age grouping of children immunised since October, 1936. | 1940 | 17 | 299 | 335 | 285 | 346 | 208 | 818 | 756 | 399 | 182 | 88 | 19 | 33 | 22 | 20 | 11 |
| ving age | 1939 | 9 | 253 | 204 | 205 | 268 | 366 | 959 | 753 | 420 | 223 | 119 | 50 | 29 | 28 | 17 | 24 |
| Table sher | 1938 | 21 | 413 | 363 | 450 | 534 | 069 | 1209 | 1539 | 1233 | 899 | 295 | 127 | 95 | 22 | 62 | 58 |
| | 1936-37 | 27 | 362 | 470 | 539 | 527 | 814 | 1336 | 1281 | 908 | 645 | 909 | 358 | 289 | 192 | 136 | 148 |
| | Age at Date of Inoculation | Under 1 year - | 1 year | 2 years | 3 years | 4 years | 5 years | 6 years | 7 years | 8 years | 9 years | 10 years | 11 years | 12 years | 13 years | 14 years | Over 15 years - |

Mosquito Control

Attention was again directed during the year to draining and spraying in order to remove the breeding-places of the mosquito. 57 samples of larvæ were taken and brought to the Department for examination. Ten of these were found not to be mosquito larvæ.

395 gallons of "Civic" Fluid, 2,040 gallons of waste condenser oil, and 30 gallons of waste motor oil were used in spraying.

Treatment of Scabies

During the year 2,756 treatments were carried out at the Scabies Clinic at the Disinfecting Station, Laganbank Road.

Port Sanitary Authority, Belfast

Report for the Year 1945

I .- Amount of Shipping Entering the Port During the Year.

TABLE A

| Number | Inspected | Number Reported to be | Number of Vessels Number of Vessels on which Defects | Number of Vessels reported as having or having had during the |
|--------------------------|-----------------------------|-----------------------------|---|--|
| By Medical Officer | By Sanitary Inspector | Defective | Remedied | Infectious Disease on Board |
| 68 | 1913 | 604 | 587 | 11 |

TABLE C
Cases of Infectious Sickness landed from vessels.

| DISEASE | | NUMBER OF CASE | s During 1945 | NUMBER OF VESSELS |
|----------------|---|----------------|---------------|-------------------|
| DISEASE | | Passengers | Crew | Concerned |
| Tuberculosis - | - | 3 | 1 | 4. |
| Measles - | - | | 2 | 2 |
| Typhoid Fever | - | | 1 | 1 |

TABLE D

Cases of Infectious Sickness occurring on vessels during the voyage, but disposed of prior to arrival.

| DISEASE | 76 | NUMBER OF CAS | ses During 1945 | NUMBER OF VESSELS |
|--|----|---------------|------------------|-------------------|
| DISEASE | | Passengers | Crew | Concerned |
| Typhoid Fever Measles - Tuberculosis - Smallpox - | | • | 1 1 1 1 | 1 1 1 |

No case of plague, cholera, yellow fever, smallpox, or typhus fever occurred, and no plague-infected rats were discovered during the year.

THE PARROTS (PROHIBITION OF IMPORT) REGULATIONS, 1930.

No notices were served during the year under above Regulations.

NUMBER OF RATS DESTROYED DURING THE YEAR.

TABLE E

(1) On Vessels.

| DESTROYED | Examined | FOUND TO BE INFECTED WITH PLAGUE |
|-----------|----------|--|
| 390 | 376 | None |

TABLE F

(2) In Docks, Quays, Wharves, and Warehouses.

| DESTROYED | Examined | FOUND TO BE INFECTED WITH PLAGUE | |
|-----------|----------|--|--|
| 120 | 104 | None | |

TABLE G

Measures of Rat Destruction on Plague "Infected or Suspected" Vessels, or Vessels from Plague Ports arriving in the Port during the year.

| Number of such vessels on which measures of rat destruction were not carried out | + |
|--|---|
| Number of rats killed | 113 |
| Number of such vessels on which trapping, poisoning, etc., were employed | 5 |
| Number of rats killed | 40 |
| Number of such vessels fumigated with HCn | 2 |
| Number of rats killed | |
| Number of such vessels fumigated with So2 | ; |
| Total Number of such vessels arriving | ======================================= |

TABLE H

Deratization Certificates and Deratization Exemption Certificates issued during the year.

| | TOTAL GERTIPICATES ISSUED | | | | |
|--|--|---------------------|----|--|--|
| NUMBER OF | NUMBER OF Deratization Exemption Certificates Issued | | | | |
| | | Тотм | 91 | | |
| ICATES ISSUED | After Trapping. | Poisoning, etc. | | | |
| NUMBER OF DERATIZATION CERTIFICATES ISSUED | H | HC.n and Sulphur | | | |
| NUMBER OF D | APTER FUMIGATION WITH | Sulphur | | | |
| | Arr | HCs | 16 | | |
| | Number of | off | 29 | | |

VI.-HYGIENE OF CREWS' SPACES.

TABLE J
CLASSIFICATION OF NUISANCES.

| NATIONALITY OF VESSEL | Number Inspected during 1945 | Defect of Original Construction | Structural Defects through wear and tear | Dirt; Vermin and other conditions prejudicial to health | |
|--------------------------|---------------------------------|------------------------------------|--|---|--|
| British | 1612 | 21 | 24 | 476 | |
| Other Nationalities - | 301 | 15 | 11 | 115 | |

VII.-FOOD INSPECTION.

During the year, 22 tons 1 cwt. 3 qrs. 2 lbs. of unsound foodstuffs were seized, and destroyed or disposed of otherwise than for the food of man.

Report on the Administration of the Factories Act (Northern Ireland), 1938, for the Year 1945.

Part 1.—INSPECTIONS for the purposes of provisions as to health, including Inspections made by Sanitary Inspectors.

| Premises (1) | Inspections (2) | Written Notices (3) | Occupiers Prosecuted (4) |
|---|-----------------|---------------------------|--------------------------------|
| Factories with mechanical power | 1,631 | 150 | |
| Factories without mechanical power | 1,131 | . 80 | |
| Other premises under the Act (including works of building and engineering construction, but not including outworkers' premises) - | 1,417 | 47 | |
| metading outworkers premises) - | 1,717 | - 47 | *** |
| Total | 4,179 | 277 | |

^{*}Electrical Stations should be reckoned as factories.

Part 2.—DEFECTS FOUND.

| Particulars | | | | No | Number of defects in respect of | | |
|---|---------------------------------|----------------|-------------|-------|---------------------------------------|-----------------------------------|---|
| | | | | Found | Remedied | Referred to Chief Inspector | which Prosecutions were instituted |
| (1) | | | | (2) | (3) | (4) | (5) |
| Want of cleanliness (S.1) | | - | - | 278 | 274 | | |
| Overcrowding (S.2) - | | - | - | 3 | 3 | | |
| Unreasonable temperature (S | S.3) - | (0-) | - | | | | |
| Inadequate ventilation (S.4) | | - | | 11 | 11 | | |
| Ineffective drainage of floors | (S.6) - | - | 10-1 | 1 | 1 | | |
| olemen) | Insufficient | | | 19 | 13 | | |
| Sanitary Conveniences (S.7) | Unsuitable of | or defe | ctive; | 163 | 137 | 1000 | |
| | Not separate | e for se | xes | 2 | *** | | |
| Other offences (excluding of Work, which are inclu | fences relating ided in Part | g to H 3 of | ome this | 72 | 52 | | 2 |
| report) | | | | 14 | 32 | 1 | 3 |
| Breach of special sanitary houses (S.56 to S.59) | requirements | for b | ake- | 35 | 25 | | |
| | Total | - | - | 584 | 516 | 1 | 3 |

Part 3.-HOMEWORK.

| | Number of | OUTWORK IN | UNWHOLESO (Section 115) | ME PREMISES | OUTWORK IN INFECTED PREMISES (Sections 116 and 117) | | | |
|---|---|---------------|----------------------------|--------------------------|--|-----------------------------------|---|--|
| NATURE OF WORK OF Pro | Inspections of Out- workers' Premises (2) | Instances (3) | Notices Served (4) | Prose- cutions (5) | Instances (6) | Orders Made (S. 117) (7) | Prose- cutions (Ss.116&117 (8) | |
| 1. Making, cleaning, washing, altering, ornamenting, finish- ing, and repairing | | puntu k | 100 0 | | | 1111 311 | | |
| of wearing apparel | 1,827 | 76 | 76 | *** | 3 | 3 | *** | |
| 2. Making-up, orna- menting, finishing, and repairing of table linen, bed linen or other | LOR DIS | | | | nedrod Nerven | | 9 | |
| household linen (including in the term linen articles of cotton or cotton and linen mixtures) | 1,525 | 62 | 62 | | 2 | 2 | | |
| Textile Weaving, and any process incidental thereto - | | | | | | | | |
| | | 10 | 10 | *** | 1111 | | | |
| t. Other | 74 | 10 | 10 | 127 | *** | 111 | *** | |
| Total | 3,426 | 148 | 148 | | 5 | 5 | | |

Sanitary Report for the Year

SUMMARY OF INSPECTIONS.

| Houses, Shops, Schools, Common Lodging shops, Piggeries, Stabling Yards, Ti | |
|--|------------|
| 0" . T 1 | |
| Drain Tests | 402 |
| Nuisances discovered and complained of | 72,544 |
| Sanitary improvements carried out | 26,979 |

Sale of Food and Drugs Acts

During the Year 1,300 Samples were taken for Analysis.

Return shewing particulars of adulterated samples.

| NATURE OF SAMPLE | | | Samples Taken | Adulterations | | Prosecutions | | Convictions | | Probation of Offenders Act | Fin £ s | nes |
|--------------------------|---|---|---------------|---------------|-----|--------------|------|-------------|-----|-------------------------------|------------|-----|
| Baking Powder - | - | - | 30 | 1 | | _ | | _ | *** | | - | |
| Buttermilk - | - | - | 26 | 9 | | 7 | | 7 | | - | 9 0 | 0 |
| Buttermilk (informal) | - | - | 8 | 4 | *** | - | | - | 300 | - | noine- | |
| Dripping - | - | - | 1 | 1 | | _ | | _ | | - | _ | |
| Golden Raising Powder | - | - | 3 | 1 | | - | | _ | | _ | _ | |
| ce Cream (informal) | - | - | 14 | 1 | | - | *** | _ | | - | _ | |
| Sauce - | - | - | 14 | 1 | | _ | | - | | _ | Illing = | |
| Sauce (informal) - | _ | - | 3 | 1 | *** | _ | | _ | | - | - | |
| Soup (tinned) (informal) | | - | 3 | 1 | | - | | - | * | _ | _ | |
| Sweetmilk - | - | - | 541 | 20 | | 7 | **** | 6 | | 1 | 4 10 | 0 |
| Sweetmilk (informal) | - | - | 115 | 6 | | - | | - | | - | | |
| | | | | | | | | | | | £13 10 | 0 |

In the foregoing return, the term "informal" is used where the formalities of the Sale of Food and Drugs Acts were not observed in taking the samples.

Cases of Adulteration in which no Legal Proceedings were taken.

FORMAL SAMPLES:

1 of Baking Powder, 2 of Buttermilk, 1 of Dripping, 1 of Golden Raising Powder, 1 of Sauce, and 13 of Sweetmilk.

Public Health Acts

Unsound foodstuffs inspected by the Food and Drugs Inspectors under above Acts, and destroyed or disposed of otherwise than for the food of man, under their supervision.

| 2,610 | tins | Beans. |
|-------|---------|------------------------|
| 3 | ,, | Benger's Food. |
| 1,261 | ,, | Fish. |
| 171 | ,, | Fruit. |
| 8 | " | Groats. |
| 576 | ,, | Health Salts. |
| 146 | ,, | Jam. |
| 35 | ., | Lemon Powder. |
| 1,227 | ,, | Meat. |
| 2,576 | ., | Meat and Fish Paste. |
| 669 | ,, | Condensed Milk. |
| . 19 | ** | Neave's Food. |
| 139 | | Peas. |
| 1,555 | ,, | Soup. |
| 28 | ** | Syrup. |
| 499 | ,, | Vegetables. |
| 51 | ., | Unlabelled Foodstuffs. |
| 15 | gallons | Treacle. |
| 2 | ,, | Pickles. |
| 45 | | Puddings. |
| 51 | | Fowl. |
| | | |

also 160 Jars, 32 Cartons, 1,178 Bottles, 2,622 Packets, and 26 tons 12 cwt. 3 qrs. and 16 lbs. of miscellaneous items.

TABLE IX

| Legal Pro | | FINES | | | |
|---|------------------|-----------|-----|----|---|
| Under Public Health Acts— | Summonses | ORDERS | £ | s | d |
| For abatement of nuisances | 1,580 | 93 | 23 | 5 | 0 |
| Disobedience of Justices' Orders | 9 | _ | 10 | 15 | 0 |
| For having deposited for the purpose of sale unsound food | 4 | | 39 | 0 | 0 |
| For failing to take all reasonable pre- cautions to secure the cleanliness of premises in which food was stored | 2 | Carry | 20 | 0 | 0 |
| For failing to take all reasonable pre- cautions to prevent contamination of food | 1 | Harris | 5 | 0 | 0 |
| For obstructing a Sanitary Officer in the execution of his duty | 1 | (Impolei) | . 3 | 0 | 0 |
| Under Preservatives in Food Regulations | , 1 | - | 2 | 0 | 0 |
| Under Sale of Ice Cream Act | 1 | - | 5 | 0 | 0 |
| Under Sale of Food and Drugs Act | the Park and | - | 13 | 10 | 0 |

TABLE X

Rainfall

The following Table, kindly supplied by Mr. D. McGarrigle, Secretary and Registrar to the Belfast City and District Water Commissioners, shows the rainfall in inches during the several months of the year as recorded at the Water Works at Old Park.

1945

| | | | 1945 |
|------------|-----|-----|-------|
| | *** | | 4.57 |
| 1 / 11 | | *** | 4.92 |
| | | | 1.88 |
| | | | 2.41 |
| | *** | 4.7 | 4.49 |
| | | | 5.32 |
| | | | 4.72 |
| | *** | | 1.38 |
| | | | 3.48 |
| | | | 4.69 |
| | | | 1.50 |
| | | | 4.64 |
| | | | |
| | | | 44.00 |
| | | | |

Report of the City Veterinarian

On the Work of his Department for the Year 1945

To The Medical Superintendent Officer of Health.

SIR.

I beg to submit my report on the work at the Belfast Municipal Abattoir, in connection with the Ante-mortem and Post-mortem examinations of the animals slaughtered for human food.

Table shewing the number and description of Animals slaughtered and the number condemned during the year.

| - | Cows | Heifers | Bulls | Bullocks | Calves | Sheep and Lambs | Goats | Pigs | TOTAL |
|------------------|--------|---------|-------|----------|--------|--------------------|-------|-------|---------|
| Slaught- ered | 31,836 | 13,115 | 653 | 26,042 | 25,457 | 156,338 | 1,797 | 1,660 | 256,898 |
| Con- demned | 2,463 | 55 | 13 | 115 | 585 | 248 | 14 | 44 | 3,537 |

Table shewing amount examined and amount seized and destroyed at the Meat Inspection Station, Public Abattoir.

BEEF—Sides examined, 11; seized and destroyed, 4. Quarters examined, 9; seized and destroyed, 6. Cuts examined, 61; seized and destroyed, 30.

MUTTON—Carcases examined, 8; seized and destroyed, 3.

PORK—Carcases examined, 334; seized and destroyed, 119.

VEAL—Carcases examined, 1; seized and destroyed, 1.

FOWL-Fowl examined, 2,690; seized and destroyed, 2,690.

TINNED MEATS—Tinned Meats examined, 12,416; seized and destroyed, 12,416.

CEREALS—Packets examined, 7,696; seized and destroyed, 7,696.

DATES-Boxes examined, 35; seized and destroyed, 35.

FISH AND FOWL MARKETS.

Seized and Surrendered.

18 Barrels of Salt Herrings, 67 Boxes of Fillets, 11½ stones of Whiting, and 62 Fowl.

SERVICES RENDERED TO OTHER DEPARTMENTS.

During the year, a general supervision of the health of the animals of the several Committees of the Corporation was exercised. Several animals were purchased for the different departments.

Fortunately, the most of the work during the year was in the nature of preventive medicine, and calls for little comment.

Yours faithfully,

ALEX. McLEAN,

City Veterinarian and Manager of Abattoir.

Purdysburn Fever Hospital, Belfast

To the Medical Superintendent Officer of Health.

Dear Sir,

I beg to submit the Annual Report for the year 1945 (52 weeks ending 29th December, 1945).

1,789 cases were admitted during this period, 123 cases remained from the previous year, making 1,912 cases under treatment; 102 cases remained in hospital, so that 1,810 cases were treated to a conclusion.

The number of admissions in the previous year was 2,582; and the average number of admissions in the previous five years, 2,796.

TABLE 1 Showing the classification of cases and the mortality in cases treated to a conclusion.

| DISEASE | Remaining on 30/12/44 | Admitted during Year | Total | Remaining on 29/12/45 | Nett | DIED | Mortality per cent. calculated on cases treated to |
|--------------------------|-----------------------------|----------------------------|-------|-----------------------------|-------|------|--|
| | | ET BASE | | | | | a conclusion |
| Enteric Typhoid Para A | 1 | 12 | 13 | - V | 13 | 1 | 7.69 |
| Para A | *** | 27 | *** | 111 | *** | *** | 111 |
| Scarlatina | 83 | 777 | 805 | F0 | 7.7 | - " | 111 |
| Diphtheria | | 722 | | 58 | 747 | 3 | 0.40 |
| | 11 | 225 | 236 | 19 | 217 | 7 | 3.23 |
| Cerebro-Spinal Fever - | 3 | 40 | 43 | 1 | 42 | 2 | 4.76 |
| Tuberculous Meningitis - | 100 | 15 | 15 | 111 | 15 | 14 | 93.33 |
| Acute Poliomyelitis - | *** | 23 | 23 | 200 | 23 | 5 | 21.74 |
| Pneumonia | 1 | 7 | 8 | | 8 | | 0.00 |
| Erysipelas | *** | 17 | 17 | 311 | 17 | *** | 0.00 |
| Whooping Cough | 2 15 | 34 | 36 | | 36 | 4 | 11.11 |
| Measles | 15 | 111 | 126 | 1 | 125 | | 0.00 |
| Pulmonary Tuberculosis- | 111 | 26 | 26 | 20 | 6 | 2 | 33.3 |
| Other Diseases | 7 | 553 | 560 | 3 | 557 | 38 | 6.80 |
| Totals | 123 | 1,789 | 1,912 | 102 | 1,810 | 76 | 4.20 |
| Comparative Nos. in 1944 | 249 | 2,582 | 2,831 | 123 | 2,708 | 47 | 1.74 |

ENTERIC FEVER.

12 cases of Enteric (B.T.) were admitted during the year.

One case remained over from the previous year, none remained at the end of this year, so that 13 cases were treated to a conclusion. There was one death from Enteric Infection. The 12 admissions all came from within the city boundary. In the previous year the admissions numbered 5. Average number of admissions for the previous five years was 11.

DIPHTHERIA.

225 cases were admitted during the year. 11 remained from the previous year and 19 remained at the end of this year, so that 217 cases were treated to a conclusion: of these, 7 died, giving a death-rate of 3.23 per cent.

The average stay in hospital of the cases which recovered was 36 days.

Of the 225 admissions, 195 came from within the city boundary, and 30 were military patients.

In the previous year the admissions numbered 188: average number of admissions for the previous five years was 528.

TABLE 2 Showing the case mortality in age periods.

| Ages | | Cases | DEATHS | MORTALITY PER CENT |
|-----------------|---------|-------|--------|--------------------|
| Under 1 year - | | 5 | | 0.00 |
| 1- 2 years - | - | 13 | 3 | 23.07 |
| 2- 5 years - | - | 41 | 1 | 2.44 |
| 5-10 years - | - | 40 | 2 | 5.00 |
| 10-20 years - | - | 71 | 1 | 1.41 |
| Over 20 years - | Mad all | 47 | *** | 0.00 |
| Totals | - | 217 | 7 | 3.23 |

The incidence of clinical Diphtheria continues to fall mainly on groups from school age onwards, probably attributable to the benefits of immunization directed largely at the younger children.

LARYNGEAL DIPHTHERIA.

5 cases required operative interference for laryngeal obstruction.

All five cases were treated by intubation. Two died within twenty-four hours of admission from toxemia.

TABLE 3
Showing results in age periods in cases in which operative interference was required.

| Ages | | Cases | DEATHS | MORTALITY PER CENT. |
|----------------|-------|-------|--------|---------------------|
| Under 1 year - | - | 0 | 0 | 00.00 |
| 1-2 years - | - | 3 | 12 | 33.33 |
| 2-3 years - | 1-1-1 | 0 | 0 | 00.00 |
| 3-4 years - | - | 0 | 0 | 00.00 |
| 4-5 years - | - | 1 | 0 | 00.00 |
| Over 5 years - | 112 | 1 | 1 | 100.00 |
| Totals | _ | 5 | 2 | 40.00 |

CEREBRO-SPINAL FEVER.

40 cases were admitted during the year. 3 cases remained from the previous year, and 1 remained at the end of this year, so that 42 cases were treated to a conclusion; of these, 2 died, giving a mortality of 4.76 per cent.

Of the 40 admissions, 28 were from the city and 12 were military patients.

In the previous year the admissions numbered 48: average number of admissions for the previous five years was 135.

Penicillin in very limited supply was used in the treatment of five patients, of whom one of 63 years died.

TABLE 4 Showing the case mortality in age periods.

| Ages | Cases | DEATHS | MORTALITY PER CENT |
|-----------------|-------|---------|--------------------|
| Under 1 year - | - 3 | DIVISIA | 0.00 |
| 1- 2 years - | - 3 | | 0.00 |
| 2- 5 years - | - 8 | | 0,00 |
| 5-10 years - | - 4 | 1 | 25.00 |
| 10-20 years - | - 10 | | 0.00 |
| 20-30 years - | - 10 | *** | 0.00 |
| 30-40 years - | - 2 | | 0.00 |
| 40-60 years - | - 1 | | 0.00 |
| Over 60 years - | - 1 | 1 | 100.00 |
| Totals | - 42 | 2 | 4.76 |

TUBERCULOUS MENINGITIS.

15 cases were admitted, and 14 treated to a conclusion during the year. One case was transferred to another hospital to die.

ACUTE POLIOMYELITIS.

23 cases were admitted and treated to a conclusion during the year. Of these, 5 died. There was no apparent relationship between any of the cases. The surviving cases were ultimately transferred to orthopædic units with residual paralysis ranging in degree, from slight to extensive.

3 cases were nursed in the Both Respirator. The only survivor of these three has very extensive paralysis.

TABLE 5
Showing case mortality and sex incidence in age periods.

| | + | 6 | S | EX | D | lu p c |
|---------------|---|-------|-----|----|--------|---------------------|
| Ages | | CASES | M F | | DEATHS | MORTALITY PER CENT. |
| Under 5 years | | 9 | 6 | 3 | 1 | 11.11 |
| 5-10 years - | - | 5- | 3 | 2 | 2 | 40.00 |
| 10-20 years - | - | 2 | 2 | 0 | 0 | 0.00 |
| 20-30 years - | - | 6 | 5 | 1 | 1 | 16.66 |
| Over 30 years | - | 1 | 1 | 0 | 1 | 100.00 |
| Totals | - | 23 | 17 | 6 | 5 | 21.74 |

The surviving patients remained in this hospital for an average of 35 days before transfer. The fatal cases died on 1st, 2nd, 6th, 6th, and 42nd days in hospital, respectively.

SCARLATINA.

722 cases were admitted, 83 remained from the previous year, 58 remained this year, so that 747 were treated to a conclusion. Of these, 3 died, giving a mortality of 0.40 per cent.

In the previous year the admissions numbered 1,611: average number of admissions for the previous five years was 1,240.

RETURN CASES.

In 8 cases the return home of a Scarlatina patient was followed by other cases of Scarlatina in the household, giving a return rate of 1.08 per cent. On the average, these 8 cases had reached the thirty-third day from onset of their disease when they were discharged.

PULMONARY TUBERCULOSIS.

Owing to the fall in numbers of the ordinary infectious diseases, a ward was made available for the reception of female patients with Tuberculosis. Of the six cases treated to a conclusion, four were discharged home and two died.

OTHER DISEASES.

The certified causes of death of the 38 fatal cases listed as Other Diseases are as follows:—

| Gastro-Enteritis - | - | 20 | Cellulitis, Septicæmia | - | 1 |
|--------------------|---|----|--------------------------|-----|---|
| Broncho-Pneumonia | - | 3 | Meningitis, Pneumococcal | - 0 | 7 |
| Brain Abscess - | - | 2 | ,, b. Enteriditis | - | 3 |
| Tetanus | - | 1 | ,, Influenzal | - | 1 |

PENICILLIN.

During the year Penicillin was made available in sufficient quantity to treat 26 cases. These were classified as follows:—

| 49 | . These were classified | as ion | TOMS | | | | | |
|----|---------------------------|--------|------|-----|----|----|---------------------|--|
| | Cerebro-Spinal Fever | - | - | 170 | - | - | 5 cases—4 recovered | |
| | Pneumococcal Meningitis | s - | - | - | - | - | 8 cases—3 recovered | |
| | Influenzal Meningitis | - | - | - | - | - | 2 cases—1 recovered | |
| | Streptococcal Meningitis | - | - | - | - | - | 1 case —recovered. | |
| | Meningitis due to b. Ent | eridit | is - | | - | | 3 cases—all fatal. | |
| | Brain Abscess (no bacte | | | - | - | - | 1 case —fatal. | |
| | Scarlatina and Mastoide | | | - | | | 1 case —recovered. | |
| | Cellulitis and Septicæmia | | | - | - | - | 1 case —fatal. | |
| | Diphtheria-Faucial, La | arvng | eal, | and | | | | |
| | Pulmonary - | | | | - | 14 | 1 case —fatal. | |
| | Axillary Adenitis - | - | 123 | - | 14 | - | 1 case —recovered. | |
| | Quinsy | | | | | | 1 case —recovered. | |
| | Carbuncle | | | | | | 1 case —recovered. | |

INFECTIOUS CONDITIONS AMONGST THE STAFF.

4 Nurses, fully immunized, were found to be swab positive on routine swabbing on change of duties from Diphtheria wards. All cleared up quickly.

2 Nurses developed Rubella.

Yours faithfully,

Municipal Laboratory, Queen's University, Belfast,

30th March, 1946.

To the Medical Superintendent Officer of Health.

Dear Sir,

I beg to present herewith a summary of the work carried out at the laboratory during the year 1945.

INFECTIOUS DISEASES.

| | INFEC | 11005 | DISEAS | SES. | | |
|--------------------------|-------------|--------|--------|---------|-------|--------|
| Diphtheria. | | | | Pos. | NEG. | TOTAL. |
| 1. Swabs from Pr | actitioners | 100100 | | 93 | 1,263 | 1,356 |
| | ospitals | | | 1,200 | 2,003 | 3,203 |
| | blic Health | | | 24 | 238 | 262 |
| | ontacts | | | 3 | 46 | 49 |
| 5. Direct Examina | | | *** | 4 | 212 | 216 |
| 6. Virulence Tests | | | | 20 | 17 | 37 |
| | | | | | | |
| Vincent's Angina. | | | | | | |
| Swabs | | | | 141 | 275 | 416 |
| F | | | | | | |
| Enteric Group. | | | | | 1222 | 200 |
| 1. Agglutination I | | | | 42 | 361 | 403 |
| 2. Fæces, Blood, | etc. | | *** | 91 | 142 | 233 |
| Food Poisoning. | | | | | | |
| | | | | | | 40 |
| Food Stuffs | *** | *** | *** | _ | _ | 46 |
| Meningitis. | | | | | | |
| 1. Cerebro-spinal | Eluide | | | 21 | 297 | 318 |
| 2. Typing | | | *** | 0 | 2 | 2 |
| 2. Typing | *** | | | 0 | - | |
| Tuberculosis. | | | | | | |
| 1. Sputa | | | | 64 | 222 | 286 |
| 2. Pus | | | | 0 | 23 | 23 |
| 3. Urine | | | | 1 | 21 | 22 |
| 4. Fluids | | | | 0 | 4 | 4 |
| | | | | | | |
| Anthrax | | | | 0 | 1 | 1 |
| Plague. | | | | | | |
| | | | | | | 400 |
| Rats | | *** | *** | _ | | 480 |
| Streptococcal Infections | | | | | | |
| Swabs for Group A | | | | 2 | 64 | 66 |
| Swabs for Group ? | i. Typing | *** | | - | 04 | 00 |
| BRU | UCELLA | ABORTU | JS INF | ECTIONS | S. | |
| Bloods | | | | 1 | 249 | 250 |
| Milks | | | *** | 2 | 100 | 102 |
| | | *** | *** | | 100 | 3.02 |
| | VENE | REAL I | ISEAS | ES. | | |
| Wassermann Reactions | (Blood) | | | 259 | 1,822 | 2,081 |
| Wassermann Reactions | | | | 0 | 2 | 2,001 |
| Films for Gonococci | (0.0.1.) | | | 40 | 168 | 208 |
| Kahn Reactions | | | | | | 2,081 |
| realing receptions | | | | | | 2,001 |

MILK EXAMINATIONS.

| Grade A | | | | | 3 |
|-------------------------|---|--------|-------|--------|---------|
| Grade B | | | | | 3 |
| Grade B (Pasteurized) | | | | | 7 |
| Grade C | | | | | 47 |
| Grade C (Pasteurized) | | | | | 204 |
| Reductase Tests | | | | | 264 |
| Biological Tests for T. | В. | | | | 102 |
| WA | 3 1 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 5 5 5 5 5 5 5 5 5 | | | | |
| Swimming Bath Water | rs | | | | 13 |
| Ordinary Waters | | | | | 4 |
| UNCLA | SSIF | IED EX | AMINA | TIONS. | |
| Urines, Pus, etc. | | | | | 287 |
| Blood Films, Counts, | etc. | | | *** | 137 |

Yours faithfully,

G. F. W. TINSDALE,

City Bacteriologist.

Maternity and Child Welfare

INFANTILE MORTALITY.

The extremely adverse weather conditions in the early weeks of the year led to a sharp increase in the incidence of respiratory infection, especially among infants, with a resulting high death rate from pneumonia and other acute respiratory conditions. During the second half of the year, however, mortality among infants was unusually low, and we were able to complete the year with an Infantile Mortality Rate of 84, a position which seemed hardly possible in the early months. Prematurity, Diarrhæa and Enteritis, and Pneumonia, Broncho-Pneumonia and Bronchitis, the rates for which are shown in Table A, headed the causes of death and accounted for 57 per cent. of the Infantile Mortality.

Table A shows the number of deaths from these conditions and the death rate per 1,000 registered births during the past ten years.

Table B shows the deaths of infants under one year and the infantile mortality rates during the past ten years, with an analysis of these deaths, and death rates according to different mortality groups.

NEO-NATAL MORTALITY

Neo-natal mortality is deaths occurring among infants during the first four weeks of life. Prematurity was the main cause of death among these infants, and was responsible for approximately 38 per cent. of the neo-natal mortality. Infection, as well as accounting for many of the deaths due to diseases of the "Respiratory and Digestive Systems," also contributed to a considerable proportion of the deaths due to "Other Diseases peculiar to the first year of life," as cases certified "Neo-Natal Sepsis" are included in this group. The majority of these "Neo-Natal Sepsis" cases were associated with an epidemic of infection occurring among hospital cases in the early part of the year, when the respiratory infection referred to above was prevalent throughout the city.

Table C shows the Neo-Natal deaths and Neo-Natal death rates during the past ten years, with an analysis of these deaths and death rates according to different mortality groups.

MATERNAL MORTALITY.

The number of women who died from Pregnancy, Childbirth, and the Puerperal state during the year was 18, giving a Maternal Mortality Rate for the city of 1.8 per 1,000 live births. This rate is the lowest figure recorded for the city, the previous lowest being that for the year 1944, which was 2.3.

Table D shows the Maternal Mortality per 1,000 live births analysed according to the cause of death. From this table it will be seen that infection accounted for approximately 50 per cent. of the mortality during the year 1945.

TABLE A

Showing the number of Deaths of Infants under one year from Prematurity, Diarrhoea and Enteritis, Pneumonia, Broncho-Pneumonia, and Bronchitis.

| | SULUS | m 1 | | 23 |
|--|-----------------------------------|-------------|-------------------------|--|
| 1945 | Rate per 1,000 Births | 15.73 | 16.85 | 15.63 |
| 12 | Deaths | 155 | 166 | 154 |
| 1944 | Rate per 1,000 Births | 20.18 | 17.02 | 16.35 |
| 19 | Deaths | 2111 | 178 | 171 |
| 1943 | Rate per 1,000 Births | 22.40 | 26.79 | 23.06 |
| 19 | Deaths | 240 | 287 | 247 |
| 1942 | Rate per 1,000 Dirths | 19.36 | 16.05 | 19.46 |
| 19 | Deaths | 187 | 155 | 188 |
| 1941 | Rate per 1,000 Births | 18.96 | 20.64 | 15.15 |
| 19 | Deaths | 159 | 173 | 127 |
| 1940 | Rate 000,1 raq sdriid | 22.29 | 29.53 | 21.71 |
| 19 | Deaths | 194 | 257 | 189 |
| 1939 | Rate per 1,000 shribs | 16.62 | 18.96 | 15.39 |
| 19 | Deaths | 149 | 170 | 138 |
| 38 | Rate per 1,000 srhrid | 18.26 | 13.99 | 17.71 |
| 193 | Deaths | 167 | 128 | 162 |
| 1937 | Rate per 1,000 shrift | 22.40 | 17.81 | 17.59 |
| 19 | Deaths | 205 | 163 | 191 |
| 1936 | Rate per 1,000 shribs | 25.32 | 22.07 | 159 17.20 |
| 19 | Desths | 234 | 204 | 159 |
| | - Couroll | | 10.1 | 111 |
| The state of the s | ou. I req have ad in gainth | turity - | Diarrheea and Enteritis | ronia, - ho-Pneumonia Bronchitis - |
| | | Prematurity | Diarrh | Pneumonia Broncho-P and Bron |

TABLE B

Showing the Deaths of Infants under one year and the Infantile Mortality Rates during the ten years 1936—1945, with an analysis of these deaths and death rates according to Mortality Groups.

| ler Ses | Rate | 2.92 | 3.06 | 3.50 | 2.89 | 5.40 | 5.01 | 3.20 | 3.08 | 2.20 | 2.84 |
|---|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|
| Other | Deaths | 27 | 28 | 32 | 26 | 47 | 42 | 31 | 33 | 23 | 28 |
| inst fLife | Rate | 3,35 | 2.84 | 3.72 | 2.57 | 3.91 | 2.51 | 2.38 | 5.41 | 1978 | 9.24 |
| Other Diseases peculiar to the First Year of Life | Deaths | 31 | 26 | 34 | 23 | 34 | 21 | 23 | 58 | 06 | 16 |
| y at | Rate | 2.06 | 3.50 | 2.19 | 1.34 | 2.53 | 1.79 | 2.59 | 2.42 | 2.01 | 2.03 |
| Injury at Birth | Deaths | 19 | 32 | 20 | 12 | 22 | 15 | 25 | 26 | 21 | 20 |
| arure th | Rate | 25.32 | 22.40 | 18.26 | 16.62 | 22.29 | 18.96 | 19.36 | 22.40 | 20.18 | 15.73 |
| Premature Birth | Deaths | 234 | 205 | 167 | 149 | 194 | 159 | 187 | 240 | 211 | 155 |
| Congenital Debility | Rate | 7.03 | 7.21 | 7.11 | 8.70 | 11.95 | 8.71 | 11.08 | 6.81 | 5.26 | 4.36 |
| Cong | Deaths | 59 | 99 | 9 | 78 | 104 | 73 | 107 | 73 | 55 | 43 |
| enital orma- ns | Rate | 6.71 | 7.65 | 9.84 | 6.80 | 7.35 | 7.39 | 8.80 | 7.84 | 6.41 | 6.50 |
| Congenital Malforma- tions | Deaths | 62 | 70 | 96 | 19 | 64 | 62 | 85 | 84 | 29 | 64 |
| ases the stive ern | Rate | 23.70 | 19.24 | 15.53 | 20.19 | 30.91 | 22.06 | 17.08 | 28.00 | 18.27 | 17.96 |
| Diseases of the Digestive System | Deaths | 219 | 176 | 142 | 181 | 269 | 185 | 165 | 300 | 161 | 177 |
| ases the atory cem | Rate | 18.18 | 19.13 | 19.24 | 16.51 | 22.86 | 15.63 | 19.88 | 23.80 | 16.64 | 16.14 |
| Diseases of the Respiratory System | Deaths | 168 | 175 | 176 | 148 | 199 | 131 | 192 | 255 | 174 | 159 |
| the same of | Rate | 4.44 | 4.70 | 4.15 | 4.68 | 2.99 | 3.94 | 3.83 | 3.64 | 4.02 | 3.35 |
| Diseases of the Nervous System | Deaths | + | 43 | 38 | 42 | 26 | 33 | 37 | 39 | 42 | 33 |
| ive & sitic ascs | Rate | 7.26 | 4.26 | 12.68 | 4.68 | 12.18 | 4.53 | 3.31 | 7.56 | 5.07 | 5.89 |
| Infective & Parasitic Diseases | Deaths | 29 | 39 | 116 | 42 | 106 | 38 | 32 | 81 | 53 | 58 |
| Infantile Mortality Rate | | 101 | 94 | 96 | 85 | 122 | 16 | 92 | Ш | 68 | 84 |
| Dearths under One Year | | 933 | 098 | 880 | 762 | 1,065 | 759 | 884 | 1,189. | 927 | 828 |
| 81 R 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E | 181 | 9,242 | 9,150 | 9,146 | 996'8 | 8,704 | 8,383 | 659'6 | 10,713 | 10,456 | 9,853 |
| YEAR | | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 |

TABLE C

Showing the Neo-Natal Deaths and Neo-Natal Death Rate during ten years 1936—1945, with an analysis of these deaths and death rates according to Mortality Groups.

| ner ises | Rate | 2.60 | 1.31 | 1.97 | 1.90 | 2.64 | 2.86 | 1.76 | 3.17 | 2.68 | 2.44 |
|---|--------|-------|-------|-------|-------|-------|----------|-------|--------|--------|-------|
| Other | Deaths | 24 | 12 | -8 | 17 | 23 | 24 | 11 | 34 | 28 | 24 |
| Other Diseases peculiar to the First Vear of Life | Rate | 3.25 | 2.62 | 3.28 | 2.57 | 3.68 | 2.51 | 2.17 | 4.95 | 7.56 | 8.83 |
| Or Disc pecul the Vear | Deaths | 30 | 24 | 30 | 23 | 32 | 21 | 21 | 53 | 79 | 87 |
| Injury at Birth | Rate | 2.05 | 5.17 | 2.19 | 1.34 | 2.53 | 1.67 | 2.17 | 2.42 | 2.01 | 1.82 |
| Iniu | Deaths | 19 | 29 | 20 | 12 | 22 | 4 | 21 | 26 | 21 | 18 |
| Premature Birth | Rate | 23.37 | 21.20 | 16.95 | 15.06 | 20.79 | 16.82 | 18.64 | 21.09 | 18.94 | 15.02 |
| Pren | Deaths | 216 | 194 | 155 | 135 | 181 | <u>+</u> | 180 | 226 | 198 | 148 |
| Congenital | Rate | 4.97 | 4.26 | 4.37 | 16.5 | 3.10 | 2.98 | 3.21 | 3.55 | 2.49 | 1.32 |
| Cong | Deaths | 46 | 39 | 9 | 53 | 27 | 25 | 31 | 38 | 26 | 13 |
| Congenital Malforma- tions | Rate | 4.65 | 4.59 | 10.9 | 3.57 | 3.68 | 4.53 | 5.49 | 5.32 | 4.97 | 4.06 |
| Cong | Deaths | 43 | 45 | 55 | 32 | 32 | 38 | 53 | 57 | 52 | 9 |
| Diseases of the Digestive System | Rate | 1.51 | 1.53 | 0.55 | 1.45 | 1.72 | 2.15 | 2.69 | 11.01 | 4.88 | 2.23 |
| | Deaths | 4 | 41. | 5 | 13 | 15 | 18 | 26 | 118 | 51 | 22 |
| Diseases of the Respiratory System | Rate | 1.62 | 2.40 | 1.75 | 1.67 | 2.07 | 2.62 | 4.04 | 6.72 | 4.78 | 3.96 |
| | Deaths | 15 | 22 | 91 | 15 | 18 | 22 | 39 | 72 | 20 | 39 |
| Neo-Natal Rate | | 44.04 | 41.09 | 37.06 | 33.46 | 40.21 | 36.14 | 40.17 | 58.25 | 48.30 | 39.68 |
| Deaths under FourWeeks | | 407 | 376 | 339 | 300 | 350 | 303 | 388 | 624 | 505 | 391 |
| BIRTHS | | 9,242 | 9,150 | 9,146 | 996'8 | 8,704 | 8,383 | 659,6 | 10,713 | 10,456 | 9,853 |
| YEAR | | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 |

TABLE D

Shewing the Maternal Mortality Rate per 1,000 live births analysed according to the cause of death.

| CAUSE OF DEATH | No. | of Deaths | Rate per 1 | ,000 Live Births |
|---|-------------|-----------|------------|------------------|
| Post-Abortion Infection - | Tank little | 4 | | 0.41 |
| Abortions (not Septic) - | - 201,9 | 1 | | 0.10 |
| Ectopic Gestation | - repole | 1 | 100 | 0.10 |
| Hæmorrhage of Pregnancy - | - | 0 | | 0.00 |
| Toxemia of Pregnancy - | e Ba | 3 | | 0.30 |
| Other Diseases and Accidents of Pregnancy | - | 0 | *** | 0.00 |
| Hæmorrhage of Childbirth, etc. | | 1 | | 0.10 |
| Infection during Childbirth and the Puerperium | | 5 | | 0.51 |
| Puerperal Toxæmia | - | 0 | | 0.00 |
| Other Accidents of Childbirth | - 1011 | 3 | | 0.30 |
| Other Conditions of Childbirth and Puerperal State | -0.000 | 0 | | 0.00 |

TABLE E

Shewing the Deaths of Children under one year old per 1,000 births each year from 1926—1945.

| YEAR | | Deaths per 1,000 Births | YEAR | | Deaths per 1,000 Births |
|------|------|-------------------------------|------|-----|-------------------------------|
| 1926 | | 112 | 1936 | | 101 |
| 1927 | | 101 | 1937 | | 94 |
| 1928 | | 103 | 1938 | | 96 |
| 1929 | | 112 | 1939 | | 85 |
| 1930 | | 78 | 1940 | | 122 |
| 1931 | | 90 | 1941 | | 91 |
| 1932 | | 111 | 1942 | | 92 |
| 1933 | | 102 | 1943 | | 111 |
| 1934 | | 80 | 1944 | | 89 |
| 1935 | | 112 | 1945 | *** | 84 |

*MIDWIVES

During the year 236 midwives gave the required notice of their intention to practise; of these, 233 were certified by examination and 3 otherwise certified.

During the year the services of Medical Practitioners were requisitioned by midwives in 196 emergency cases, and the Belfast Corporation, as the Local Supervising Authority, paid in fees £246. 12s. 6d. for attendances in 103 cases.

Notifications received by Medical Superintendent Officer of Health :-

| Under | Form | A Sending for Medical help | | | 196 |
|-------|------|------------------------------|-------|-----------|-----|
| 29 | ,, | B.—Notification of Death | | | 19 |
| - " | ., | CNotification of Still-birth | | | 362 |
| " | | DNotification of having laid | out a | Dead Body | 1 |
| | | E.—Source of Infection | | | 3 |
| | | F.—Artificial Feeding | 1 | | 54 |

NOTIFICATION OF BIRTHS ACT

11,307 births were notified pursuant to the Notification of Births Act, and in addition, 20 were either discovered by Health Visitors or notified by the Registrars of Births, making a total of 11,327; of these, 5,866 were males, 5,460 were females, and 1 sex undetermined; 362 were still-births and 582 were illegitimate births.

Of the total number notified, 8,102 were selected for visitation and supervision, and during the year 58,394 visits were made.

| Th | 2 1 | | |
|-----|----------|------|-----|
| 180 | a prift! | hs | |
| 3.7 | 11.0 | 1112 | 100 |

| Attended | by Medical Practitioners and Midwive | es | T. 10 00 | 2,272 |
|----------|--------------------------------------|-----------|--------------|-------|
| 11 | only by Midwives certified by examin | ation | | 2,137 |
| ,, | only by Dispensary Midwives | *** | | 613 |
| ,, | by Midwives otherwise certified | | T. We of the | 20 |
| 11 | in Jubilee Maternity Hospital | | | 1,655 |
| | in Royal Maternity Hospital | | | 1,586 |
| 11 | in Johnstone House | | | 286 |
| 11 | in other Maternity Hospitals | | | 83 |
| ** | by Nurses from Maternity Hospitals | *** To im | | 404 |
| ,, | in Malone Place Home | | 15 | 364 |
| 11 | in Thorndale Home | | | 313 |
| ** | in Nursing Homes | *** | | 1,591 |
| ** | No Information | | | 3 |
| | | | | |

5 cases of Ophthalmia Neonatorum occurred during the year

434 cases of Inflammation of Eyes were visited during the year in children under one year.

27 cases of Puerperal Pyrexia occurred during the year; of these, one died.

ANTE-NATAL REPORTS FOR THE YEAR 1945

THE ROYAL MATERNITY HOSPITAL

| Total number of | new pat | ients | | | | 2,561 |
|-----------------|-----------|------------|---------|-------|---------|--------|
| Total number of | | | | | | 12,304 |
| THE U | JLSTER | Hospital, | TEMPL | EMORE | Avenue | |
| | | | | | | 175 |
| New cases in Ou | t-patient | Departmen | nt | | 111 | 175 |
| Return cases in | Out-patie | ent Depart | ment | | | 548 |
| | М | ALONE PL. | ACE HO | (FP | | |
| N. D. | 174 | ALONE IL | ACE ITO | ar. | | 202 |
| New Patients | | 2.5 | *** | *** | *** | 393 |
| Re-attendances | | | | - 222 | 00 -111 | 1,951 |
| | , | MUNICIPAL | CLINICS | | | |
| | | MUNICIPAL | CLINICS | • | | 0 100 |
| New Patients | | | | *** | | 2,428 |
| Re-attendances | | | | | | 9,264 |

THORNDALE HOUSE, DUNCAIRN AVENUE (THE SALVATION ARMY), and THE BELFAST MIDNIGHT MISSION AND RESCUE AND MATERNITY HOME, 31 MALONE PLACE.

The above Homes, which receive grants from the Belfast Corporation, carried out their work during the year in a satisfactory manner.

The following shows the number of confinements which took place during the year in Thorndale House and Malone Place Home:—

| THORNDALE HOUSE | | | TOTAL | | City Cases | Outside City Cases |
|---|---------|--------|-------|-----|------------|-----------------------|
| Number of Confinements (married mothers) | | 112/10 | 256 | *** | 244 | 12 |
| Number of Confinements (unmarried mothers) | NI NA | H | 61 | | 12 | 49 |
| MALONE PLACE HOME | | | | | | |
| Number of Confinements (married mothers) | - Less | n alu | 209 | | 202 | 7 |
| Number of Confinements (unmarried mothers) | H- sino | DATE I | 144 | | 63 | 81 |

MATERNITY AND CHILD WELFARE CENTRES

The following table shews the number of names on the roll of each Centre and the total number of attendances during the year, also the number of babies medically examined and the total number of examinations:—

| | On Roll | Total No. of attendances by mothers | Babies medically examined | Total examinations of babies |
|------------------------------|------------|---|---------------------------------|------------------------------------|
| Danube Street | 283 | 2,995 | 423 | 1,012 |
| Donegall Road (two sessions) | 608 | 5,654 | 782 | 1,696 |
| Dee Street | 910 | 2,710 | 396 | 999 |
| York Street | 413 | 3,111 | 456 | 905 |
| Spiers Place (two sessions, | | | | |
| Thursday and Friday) | 504 | 5,017 | 803 | 1,762 |
| Falls Road | 504 | 2,860 | 447 | 1,187 |
| Havelock Place | 354 | 3,288 | 510 | 980 |
| Woodstock (Wednesday) | 378 | 3,162 | 422 | 824 |
| Woodstock (Friday) | 436 | 4,143 | 424 | 1,002 |
| Ligoniel | 211 | 2,180 | 318 | 685 |
| Mervue Street | 373 | 3,269 | 393 | 1,130 |
| Avoca Street | 419 | 4,689 | 632 | 1,336 |
| Divis Street | 456 | 3,508 | 825 | 1,504 |
| Sydenham | 284 | 2,672 | 294 | 720 |
| Glenard | 406 | 3,299 | 490 | 1,223 |
| Bloomfield | 333 | 3,293 | 430 | 856 |
| Greencastle | 171 | 1,761 | 96 | 546 |
| Susan Street | 363 | 3,199 | 463 | 973 |
| Seaview | 220 | 2,434 | 467 | 879 |
| Joanmount | 218 | 2,030 | 322 | 579 |
| Kimberley Street | 274 | 2,593 | 482 | 970 |
| Spiers Place (Tuesday) | 308 | 3,299 | 507 | 1,086 |
| | 7,915 | 71,166 | 10,382 | 22,854 |

HOME HELP SCHEME.

This scheme worked very successfully during the year. The average number of Home Helps on the panel was 35, and a total of 405 cases were dealt with. The majority of these were confinement cases, but mothers of small children who were unable to carry on their household duties during periods of acute illness were also assisted.

TREATMENT OF SQUINT.

91 children were referred for examination by an ophthalmic surgeon and subsequently provided with glasses.

OTHER SCHEMES.

Other schemes in operation during the year were: Home nursing of Gastro-Enteritis and Broncho-Pneumonia in children under two years old, by arrangement with the District Nursing Society. Dental treatment for expectant mothers and toddlers, by arrangement with the Royal Victoria Hospital: Provision of meals for expectant mothers and their toddlers, by arrangement with the Education Department: Services of an Obstetrical Flying Squad in cases of hæmorrhage and obstetric shock, by arrangement with the Royal Maternity and Jubilee Hospitals.

During the year demonstrations in the preparation of meals suitable for young children were again arranged at the various centres, in conjunction with the Ministry of Food. Films on suitable topics were also displayed by the Ministry of Information. To both these Ministries we are indebted for their kind co-operation.

The Belfast Voluntary Workers' Association continued to render valuable service, both in connection with the clerical and social aspects of the work at our centres. We again take the opportunity of recording our appreciation of this most helpful assistance.

Report of the Chief Tuberculosis Officer

SUBMITTED TO

The Medical Superintendent Officer of Health

FOR

The Belfast Corporation Tuberculosis Committee

Dear Sir,

I have pleasure in forwarding the various sections of the Annual Report of the Tuberculosis Service.

In accordance with the wishes of the Belfast Corporation Tuberculosis Committee, strenuous efforts have been made to provide additional accommodation, which is urgently required for tuberculous patients. The number of patients in institutions for which your Authority is responsible has increased from 446 on 1st January, 1945, to 526 on 31st December, 1945. Further increases have been planned, and it is anticipated that more than six hundred beds for tuberculous patients will be available at the end of 1946. The actual number of available beds has increased from 323 in December, 1939, to 498 beds in December, 1945 (excluding beds in the Belfast City Hospital).

In spite of the increased accommodation, there has been a serious lengthening of the waiting-list, which now exceeds four hundred. Some of the causes of this long waiting-list may be mentioned. There is a general tendency for patients to seek hospital treatment, owing to the difficulties of home nursing under war-time conditions. The facilities for treatment in the hospitals under your control are such as to attract an increased number of patients, and the average length of stay in hospital has tended to increase. Also, the public is becoming very conscious of the dangers of tuberculosis and of the importance of early treatment. Mass Radiography is another means of swelling the waiting-list, by disclosing cases of active tuberculosis which would otherwise have remained unsuspected for many months. Perhaps the most important single factor is the provision of Treatment Allowances under Memorandum 266 T, which has encouraged and enabled many patients to stop work without delay and avail themselves of hospital treatment.

The report of the Senior Tuberculosis Officer shows a substantial increase in the work done at the Central Tuberculosis Institute. It is clear from the large number of new patients examined, a high proportion of whom fortunately prove to be non-tuberculous, that the work of the Institute has the confidence of the medical profession and of the citizens.

The first Annual Report of the Director of the Mass Radiography Unit is of the greatest interest. This work has already been valuable in disclosing unsuspected tuberculosis and in providing a great mass of exact information as to the health of persons in employment.

The Municipal Sanatorium, Whiteabbey, and the Children's Hospital, Greenisland, have been filled to capacity throughout the year.

On 1st July, 1945, the Belfast Corporation Tuberculosis Committee took over control from the Commissioners for Tuberculosis. I wish to express my thanks to the Commissioners and to the members of the Committee for their courteous consideration and unfailing encouragement in the work of the Department.

Yours faithfully,

B. R. CLARKE,

Chief Tuberculosis Officer.

Report of the Senior Tuberculosis Officer

on the work of

The Tuberculosis Institute

For the Year ended 31st December, 1945

To the Chief Tuberculosis Officer.

Dear Sir,

I have pleasure in presenting for your information my annual report on the work of the Institute for the year ended 31st December, 1945—the thirtieth Report since the scheme of the Belfast Corporation for the prevention and treatment of tuberculosis was inaugurated in April, 1914.

During the year we examined 4,162 new patients—the largest number of new patients examined in any year since the commencement of our work.

NEW EXAMINATIONS.

TABLE I

Shows the number of patients examined for the first time, in each of the years indicated, without regard to age, sex, or diagnosis.

| YEAR ENDED | No. of Examinations | | | |
|---------------------|---------------------|----------|-----------|------|
| 31st December, 1940 | | 100 -000 | noonal at | 2006 |
| 31st December, 1941 | - | - | - | 1765 |
| 31st December, 1942 | | - 101 | 1 4 | 2822 |
| 31st December, 1943 | | mane sol | | 3290 |
| 31st December, 1944 | - | 11/2 - | | 3399 |
| 31st December, 1945 | - | - | | 4162 |

The number of primary examinations made from the date of the opening of the Institutes in April, 1914, was 67,562.

TABLE II

Shows the diagnostic result of examination of new patients during the years indicated.

| YEAR ENDED | Tuberculous | Primary T.B. Complex | Non- Tuberculous | Diagnosis Not Completed | TOTAL |
|---|-------------|-------------------------|---------------------|----------------------------|-------|
| 31/12/40 | 655 | 175 | 1114 | 197 | 2006 |
| 31/12/41 | 501 | 160 | 919 | 185 | 1765 |
| 31/12/42 | 627 | 276 | 1671 | 248 | 2822 |
| 31/12/43 | 628 | 250 | 2151 | 261 | 3290 |
| 31/12/44 | 762 | 186 | 2202 | 249 | 3399 |
| 31/12/45 | 724 | 246 | 2784 | 408 | 4162 |
| ercentages for ear ended 31/12/45 | 17.4% | 5.7% | 67.1% | 9.8% | 100% |

CONTACTS.

TABLE III

Shows the result of the examination of "Contacts" during the year 1945.

| | | | | DIAGNOSTS | NOSIS | | | | |
|---|------------------|---------|----------------------|------------|------------------|---------|----------|------------------|-------|
| CONTACTS OF— | TURERCULOUS | snonn | PRIMARY T.B. COMPLEX | 3. Сомриех | Non-Tuberculous | RCULOUS | Nor Di | Nor Diagnosed | TOTAL |
| O A | Under 15 Over 15 | Over 15 | Under 15 Over 15 | | Under 15 Over 15 | Over 15 | Under 15 | Under 15 Over 15 | |
| Pulmonary Cases with Positive Sputum - | m | 17 | 102 | | 260 | 262 | 18 | 31 | 693 |
| Pulmonary Cases with Negarive Sputum - | | 7 | 19 | | 116 | 110 | ∞ | 2 | 262 |
| Non-Pulmonary Cases - | | | : | | 1 | | 7 | 20 | 2 |
| DECEASED Patients previously unknown to us - | | 5 | 5 | | | 19 | | | 32 |
| Totals | 3 | 29 | 126 | : | 379 | 391 | 26 | 38 | 992 |

Of the new patients examined during the year, 3,170 were notified as suffering, or suspected to be suffering, from tuberculosis; and 992, as shown above, were "contacts." Contacts are examined in exactly the same way as new patients, i.e., clinical examination, X-ray, and (if the examinee is a child) tuberculin test. It is to be noted that although the number of new patients examined is the largest on record, the percentage found to be suffering from tuberculosis is the lowest.

FORMS OF TUBERCULOSIS.

TABLE IV

Shows the numbers and sex of the patients found to be suffering from the different forms of Tuberculosis.

| YEAR ENDED | Pulm | onary | Glan | dular | Osso | ous | Abdo | minal | Other | Forms | To | TAL |
|------------|------|-------|------|-------|------|-----|------|-------|-------|-------|-----|-----|
| | M | F | M | F | M | F | M | F | M | F | M | F |
| 31/12/40 | 298 | 247 | 15 | 16 | 28 | 14 | 13 | 10 | 8 | 6 | 362 | 295 |
| 31/12/41 | 271 | 165 | 13 | 10 | 7 | 5 | 8 | 13 | 7 | 2 | 306 | 195 |
| 31/12/42 | 276 | 266 | 14 | 17 | 14 | 14 | 8 | 13 | 2 | 3 | 314 | 313 |
| 31/12/43 | 300 | 261 | 11 | 15 | 7 | 10 | 12 | 7 | 1 | 4 | 330 | 298 |
| 31/12/44 | 348 | 321 | 10 | 12 | 17 | 9 | 14 | 15 | 7 | 9 | 396 | 366 |
| 31/12/45 | 374 | 313 | 9 | 7 | 16 | 11 | 12 | 10 | 6 | 4 | 417 | 345 |

RE-ATTENDANCES AND RE-EXAMINATIONS.

The number of re-attendances of "old" patients for examination and treatment at the Institute during the year was 14,462. In addition, 5,721 special re-examinations were carried out. 203 patients unable to attend at the Institute, were re-examined in their homes or in hospitals, by the medical staff of the Institutes. This was exclusive of attendances of patients in their homes by Panel and Domiciliary Doctors, acting under the Scheme of the Council.

PATIENTS ON THE VARIOUS FORMS OF TREATMENT.

TABLE V

Shows the numbers of definitely tuberculous patients on the different forms of treatment at 31st December, 1945.

| | Domic | CILIARY | Institutional | | | | | | | |
|-----------|---------|-----------------|----------------------|------------------------|-----------------------|---------------------|-----------------------|-------|--|--|
| INSTITUTE | Insured | Non- Insured | Mun. San. W'abbey | Children's Hospital | Minnow- burn Hosp. | M.O.H. Em. Hosp. | Bel. City Hospital | TOTAL | | |
| 634 | 1893 | 417 | 307 | 46 | 20 | 103 | 50 | 3470 | | |

The above figures are exclusive of 376 patients not definitely diagnosed at the end of the year, but under observation on one or other form of treatment, and also of a number of cases of Primary T.B. Complex in children.

The total definitely tuberculous patients treated during the year numbered 4,374.

TABLE VI

NEW CASES AND DEATHS IN AGE-PERIODS.

Shows the numbers of New Cases and of Deaths amongst males and females in the Age-periods set out.

| | | | New | Cases | | DEAT | HS | | |
|----------------|---|---|-------|-------------------|------------------|------------------|-------------------|---------|--|
| Age-Periods | | | | of Tuber- osis | Pulmonary Mil | (including lary) | Non- Pulmonary | | |
| | | | Males | Females | Males | Females | Males | Females | |
| 0— 4 inclusive | - | - | 9 | 9 | 4 | 4 | 23 | 14 | |
| 5-9 ,, | - | - | 9 | 9 | | | 4 | 3 | |
| 10-14 ,, | - | - | 8 | 17 | 2 | | 2 | 4 | |
| 15—19 " | | - | 38 | 76 | 14 | 18 | 2 | 1 | |
| 20-24 ,, | - | - | 77 | 73 | 18 | 33 | 2 | 2 | |
| 25—34. " | - | - | 106 | 97 | 19 | 51 | . 4 | 4 | |
| 35—44 " | - | - | 73 | 47 | 32 | 21 | 2 | 2 | |
| 45—54 " | - | - | 62 | 10 | 43 | 14 | 1 | 4 | |
| 55-64 " | - | - | 28 | 4 | 21 | 9 | 2 | 1 | |
| 65 and upwards | - | | 7 | 3 | 11 | 12 | 1 | 2 | |
| Totals | - | - | 417 | 345 | 164 | 162 | 43 | 37 | |

During the year 1945-

- 9,819 X-ray films were taken, and screenings as required carried out.
 - 912 Tuberculin tests were done. The total number of children tested by this method to the end of 1945 was 10,293.
- 2,913 Artificial Pneumothorax Refills were given.
 - 84 Dental Examinations and Treatments.

DEATHS AND DEATH RATES.

Pulmonary Tuberculosis.—The number of deaths in Belfast in 1945, according to the return of the Registrar General for Northern Ireland, was 326, as compared with 354 in 1944, and 836 in 1914. The death-rate from pulmonary tuberculosis in 1945 was 74 per 100,000.

Non-pulmonary Tuberculosis.—The number of deaths from the non-pulmonary forms of tuberculosis in 1945 was 80, as compared with 89 in 1944, and 290 in the year 1914. The death-rate from non-pulmonary tuberculosis in 1945 was 18 per 100,000.

TABLE VII

Shows the declining trend of the death-rate from tuberculosis in Belfast during the last thirty-two years.

| | YEA | A.R. | | No. or | DEATHS | | H RATE 100,000 | | SON OF RATE 1914 AS 100 |
|------|--------|----------|------|--------|----------|------|-------------------|------|----------------------------|
| | | | | Pul. | Non-Pul. | Pul. | Non-Pul. | Pul. | Non-Pul |
| 1914 | - | - | - | 836 | 290 | 209 | 73 | 100 | 100 |
| 1915 | - | - | - | 770 | 286 | 191 | 71 | 91 | 97 |
| 1916 | - | | - | 792 | 259 | 203 | 66 | 97 | 90 |
| 1917 | 4 2 1 | - | - | 912 | 289 | 232 | 73 | 111 | 100 |
| 1918 | 10 -00 | - | - | 992 | 265 | 252 | 67 | 121 | 92 |
| 1919 | 1 - 1 | - | - | 867 | 261 | 216 | 65 | 103 | 89 |
| 1920 | - | - | - | 783 | 225 | 189 | 54 | 90 | 74 |
| 1921 | | - | - | 624 | 163 | 148 | 39 | 71 | 53 |
| 1922 | 2 | - | - | 534 | 158 | 126 | 37 | 60 | 51 |
| 1923 | - | - | - | 528 | 159 | 123 | 37 | 59 | 51 |
| 1924 | - | - | - | 615 | 166 | 142 | 38 | 68 | 52 |
| 1925 | - | - | - | 571 | 202 | 130 | 46 | 62 | 63 |
| 1926 | - | - | - | 582 | 141 | 140 | 34 | 67 | 47 |
| 1927 | - | - | - | 509 | 152 | 123 | 36 | 58 | 49 |
| 1928 | - | - | - | 493 | 147 | 119 | 35 | 57 | 48 |
| 1929 | - | - | 1120 | 475 | 122 | 114 | 29 | 54 | 40 |
| 1930 | 1 - 1 | 100 | - | 469 | 129 | 113 | 31 | 54 | 42 |
| 1931 | 1 6 | - | - | 438 | 124 | 105 | 30 | 50 | 41 |
| 1932 | - | - | - | 427 | 128 | 103 | 31 | 49 | 42 |
| 1933 | - | - | - | 450 | 159 | 108 | 38 | 52 | 52 |
| 1934 | - | | 1110 | 448 | 122 | 108 | 29 | 52 | 40 |
| 1935 | - | - | - | 401 | 108 | 96 | 26 | 46 | 37 |
| 1936 | - | - | - | 406 | 94 | 97 | 22 | 46 | 30 |
| 1937 | - | - | - | 414 | 96 | 94 | 22 | 45 | 30 |
| 1938 | - | + | - | 348 | 107 | 78 | 24 | 42 | 37 |
| 1939 | - | - | - | 365 | 71 | 83 | 16 | 39 | 22 |
| 1940 | - | ME | - | 412 | 94 | 94 | 21 | 45 | 28 |
| 1941 | - | - | - | 426 | - 98 | 97 | 22 | 46 | 30 |
| 1942 | - | - | - | 369 | 79 | 84 | 18 | 40 | 25 |
| 1943 | - | 10 12000 | 1000 | 367 | 117 | 84 | 27 | 40 | 37 |
| 1944 | 2 | 12 | - | 354 | 89 | 81 | 20 | 40 | 27 |
| 1945 | - | - | - | 326 | 80 | 74 | 18 | 35 | 25 |

From the foregoing table it will be seen that for every 100 persons who died of pulmonary tuberculosis in Belfast in 1914, 35 died in 1945—a reduction in the death-rate of 65 per cent.; while for every 100 persons who died of non-pulmonary tuberculosis in 1914, 25 died in 1945—a reduction in the death-rate of 75 per cent. in the same period.

51

In the year 1914 the Belfast City Council inaugurated the Scheme for the Prevention and Treatment of Tuberculosis in 91 King Street—an old dwelling-house converted in earlier years into an Extern for the Forster Green Hospital, by their Administrative Board. In the same year a Branch Institute was opened at 225 Albert-bridge Road—an old vicarage which the Council purchased and adapted. In 1918 a new building in Durham Street was opened as the present Central Tuberculosis Institute. Owing to the 1914-18 war, the original plans of this building were not followed, and the Institute has not yet been completed. In 1945 the Branch Institute at 225 Albertbridge Road was converted into the present Mass Radiography Centre, and all the work of the Branch was transferred to the already overcrowded building in Durham Street.

On the outbreak of the World War in 1939, both the Central and Branch Institutes were kept open day and night as First-Aid Posts by the staffs of the Institutes for over two months. Later some voluntary workers were recruited, and for the greater part of the remainder of the war, the Institutes were maintained as "second-line" First-Aid Posts.

Since 1940 (with the exception of the year 1941, when we had the few air-raids experienced by this city) the numbers of new examinations have steadily increased—from 2,006 in 1940 to 4,162 in 1945. Examinations and re-examinations have thus become a major problem, considering our limited accommodation. In addition, increasing numbers are now being referred to us by the Mass Radiography Centre. Contrary to the general belief, we find little or no reluctance on the part of patients to come to the Institute for examination; and the medical practitioners of the city have shown an increasing readiness to avail themselves of the facilities for examination provided at the Institute. This is indicated by the ever-increasing percentage of new examinees found to be non-tuberculous. In other words, the percentage of new examinees found to be suffering from tubercular disease has fallen from 50 per cent. in 1935 to 18 per cent. in 1945.

About 50 per cent. of the patients suffering from tuberculosis give a family history of the disease. Amongst 992 "contacts" examined during the year, 32 (about 3 per cent.) were found to be suffering from tuberculosis. It would be unsafe to take this percentage as representing the results of examination of "contacts" in the long run, since the general experience is that about one-fifth of the "contacts" of tuberculous patients develop tuberculosis. It is our hope that in the future we may have an X-ray machine (with suitable staff and accommodation) for taking 5 in. by 4 in. films for the six-monthly re-examination of "contacts," for, as I have pointed out before, pulmonary tuberculosis is a disease in which an early diagnosis can only be made by radiography.

We have at present on our register one thousand patients who have, or have had, tubercle bacilli in their sputum. It is to be hoped that, in the near future, suitable homes, where at least partial isolation may be possible, will be made available for such patients and their families. The fact that half of our tuberculous patients have no known (or admitted) family history should not be lost sight of: if these histories are accepted as correct, the infecting agent must be outside the family. In this connection it is regrettable that, up to the present, hostels have not been provided for selected tuberculous patients, a number of whom would, without doubt, avail themselves of the accommodation—to their own comfort and to the advantage of those with whom they are living in contact.

Under the authority of the White Paper (Memorandum 266T.), Treatment Allowances were granted during the year to 449 eligible patients. Within the scope of these allowances, they have been found of very great benefit to patients and their families. At the same time, they have thrown a very large amount of additional work on the staff of the Institute.

I am,

Yours faithfully,

JAMES SHAW,

Senior Tubérculosis Officer.

PULMONARY TUBERCULOSIS

Return showing the immediate results of treatment of definitely tuberculous patients discharged during the year 1945 from Institutions approved for the treatment of Tuberculosis.

Ministry of Health Emergency Hospital, Musgrave Park.

Admitted in 1945: 99 adult males, 54 adult females; total admissions 153.

| | The local and | D | DURATION OF RESIDENTIAL TREATMENT IN THE INSTITUTION | | | | | | | | | | | N | | | |
|-------------------------------------|---|---------|--|---|-------------|--------------|---|-------------|--------------|---|-------------|-------------------|-------|---------------|-------------|-------------|-----------------|
| Classification upon Admission | Condition upon Discharge | | Inde 3 Iont | | | 3—6 Iontl | | | —12 lonth | | | Over 1 Year | | Т | OTAL | .5 | GRAND TOTALS |
| Class T.B. Minus | Quiescent Not quiescent Died in Instn. | M 2 7 - | - - - | | M 8 3 | W 1 - | | M 5 2 - | W 2 - | | M _ _ | W _ _ _ | C | M 15 12 | W 3 - | C _ _ | 18 12 — |
| Class T.B. Plus Group 1 | Quiescent Not quiescent Died in Instn. | = | _ 1 _ | | 2 1 — | <u>_1</u> | | | = | | = | = | = | 2 1 | _ 2 _ | = | 2 3 — |
| Class T.B. Plus Group 2 | Quiescent Not quiescent' Died in Instn. | | _ 2 _ | = | = | = | = | 2 | = | = | = | = | = = | 2 3 - | _ _ _ | | 2 5 |
| Class T.B. Plus Group 3 | Quiescent Not quiescent Died in Instn. | 1 5 | _ 2 1 | = | - 1 | 1 | Ξ | - 2 1 | = | Ξ | = | = | = | - 4 6 | - 3 1 | = | 7 7 7 |
| Totals (Pulmo | nary) | 18 , | 6 | _ | 15 | 3 | _ | 12 | 2 | _ | _ | _ | | 45 | 11 | - | 56 |

(Signed) W. A. Brown, Medical Superintendent.

NON-PULMONARY TUBERCULOSIS

Return showing the immediate results of treatment of definitely tuberculous patients' discharged during the year 1945 from Institutions approved for the treatment of Tuberculosis.

Ministry of Health Emergency Hospital, Musgrave Park, Belfast.

Admitted: 4 male and 9 female adults.

| | | D | URA | TION | OF | REST | DENT | IAL ' | TREA | тме | NT I | N TH | E IN | STITE | TIO | N | |
|-------------------------------------|--|-------------|--------------------|------|-------------|--------------|------|-------|---------------|----------|-------------|-------------------|------|---------|-------------|---------------|-----------------|
| Classification upon Admission | Condition upon Discharge | | Inde 3 Ionti | | | 3—6 Ionti | | | i—12 Iontl | | | Over 1 Year | | Т | OTAL | s | GRAND TOTALS |
| Bones and Joints | Quiescent Not quiescent Died in Instn. | M - 1 | . w | C | M - - | W -1 - | | M 2 - | W - - | <u>C</u> | M _ _ | W _ _ _ | | M 2 1 - | W 1 1 | <u>c</u> - | 3 2 — |
| Abdominal | Quiescent Not quiescent Died in Instn. | | 2 | | | | | - | = | = | = | = | = | Ξ | 2 - | Ξ | <u>2</u> _ |
| Other Organs | Quiescent Not quiescent Died in Instn. | | = | = | = | = | = | = | Ξ | Ξ | = | Ξ | = | = | = | = | Ξ |
| Peripheral Glands | Quiescent Not quiescent Died in Instn. | = | 1 - | _ | | | 11 | | = | = | = | Ξ | = | Ξ | 1 _ | = | 1 = |
| Totals (Non-p | ulmonary) - | 1 | 3 | _ | - | 1 | _ | 2 | 1 | _ | - | - | - | 3 | 5 | _ | 8 |

(Signed) W. A. Brown, Medical Superintendent.

PULMONARY TUBERCULOSIS

Return showing the immediate results of treatment of definitely tuberculous patients discharged during the year 1945 from Institutions approved for the treatment of Tuberculosis.

Minnowburn Chest Hospital.

Admitted in 1945: 26 adult females.

| | and the same | D | DURATION OF RESIDENTIAL TREATMENT IN THE INSTITUTION . | | | | | | | | | | | | | | |
|-------------------------------------|--|-------------|--|-------------|------------------|--------------|---|------------------|--------------|---|------------------|-------------------|-------------|-------------|-------------|---|-----------------|
| Classification upon Admission | Condition upon Discharge | | nde 3 onth | | | 3—6 Iontl | | | —12 lonth | | | Over 1 Year | | Т | OTAL | s | GRAND TOTALS |
| Class T.B. Minus | Quiescent Not quiescent Died in Instn. | M _ _ | W *1 - | _ _ _ | M _ _ _ | W _ _ | | M _ _ _ | - W | | M _ _ _ | W _ _ _ | С _ _ | M _ _ | W *1 | C | 1 _ |
| Class T.B. Plus Group 1 | Quiescent Not quiescent Died in Instn. | = | = | = | = | = | = | = | | = | = | | = | = | | = | = |
| Class T.B. Plus Group 2 | Quiescent Not quiescent Died in Instn. | = | 1 | = | = | = | Ξ | = | = | | | | | | | | 1 |
| Class T.B. Plus Group 3 | Quiescent Not quiescent Died in Instn. | = | _ 2 2 | _ | = | | - | | | - | 111 | | = | | - 2 2 | | |
| Totals (Pulmo | onary) oulmonary) - | _ | 5 | | = | = | _ | = | _ | = | _ | _ | = | = | 5 | = | 5 |

^{*}Non-pulmonary.

(Signed) F. F. KANE, Medical Superintendent.

Report of the Medical Director

ON THE

Work of the Mass Radiography Centre For the Year ended 31st December, 1945

To The Chief Tuberculosis Officer.

Dear Sir,

I have the honour to present to you the first Annual Report of the Mass

Radiography Centre for the year ended 31st December, 1945.

The Mass Radiography Centre at 225 Albertbridge Road was officially opened on the 11th June, 1945, by the Right Honourable William Grant, M.P., Minister of Health and Local Government.

Routine work commenced on the 12th June, 1945, and during the six and a half

months ended 31st December, 1945, 16,275 examinees attended the Unit.

Prior to this the staff attended a specialised training course at the British Ministry

of Health Mass Radiography Centre in London.

The staff consists of a Medical Director, an Assistant (part-time) to the Medical Director, an Organising Secretary, a Senior Radiographer, two Assistant Radiographers, a Secretary to the Medical Director, four Clerks, and a Caretaker.

The Mass Radiography Scheme in Belfast operates along similar lines to those recommended in the report by the Medical Research Council (London) on Mass Miniature Radiography of Civilians (Special Report Series, No. 251), and is applied

to workers and residents within the County Borough of Belfast.

In the first instance the examination was applied to workers, etc., already organised in groups, e.g., employees in large industrial concerns and staff of Government offices, university students, etc. Shortly after the scheme was launched, many requests were received from individuals not included in the above groups. Arrangements were therefore made by means of advertisements in the local press to make the examination available to all sections of the community over 14 years of age. The response to the first advertisement was so encouraging, over two thousand applications being received, that it is proposed to continue this method of organising individuals into large groups.

The examination is conducted either at the Mass Radiography Centre or on factory premises where the number employed is in the region of three thousand. During the period under review the Unit has operated in one large factory. Here the management kindly consented to allow employees of neighbouring works to be

examined while the Unit was installed in their premises.

While the examination is an entirely voluntary one, the response depends mainly on intensive propaganda. Propaganda has been carried out by means of cinema shows, posters, and individual volunteer leaflets which explain the nature of the examination. In addition, talks are arranged on the factory premises, when the scheme is explained, the object of the examination fully discussed, and an opportunity to have queries answered is given. In the early months propaganda was carried out by the Medical Director and a part-time Organising Secretary. It was soon realised that a full-time Organising Secretary was necessary, and Mr. W. Jenkins of the Public Health Department carried on the work temporarily pending the appointment of a full-time Secretary. Mr. W. Orr was appointed to this post on the 1st January, 1946.

At first the response in Belfast was similar to that first obtained in Mass Radiography Units working in England, being in the region of 61 per cent. Gradually the percentage of volunteers increased, and towards the end of the year it was in the region of 90 per cent., one small factory actually producing a 100 per cent. response.

It will be seen from Tables II and III below that the large majority of volunteers completed the examination. Only 30 out of 1,103 refused to attend for large film investigation, and only 7 out of 613 for clinical examination. In one instance only did an examinee who was subsequently diagnosed as suffering from active pulmonary tuberculosis refuse to co-operate.

The task of the Medical Director in persuading patients suffering from pulmonary tuberculosis to cease work has been made easier by the introduction of Treatment

Allowances under Memorandum 266T.

I give below, in Tables I to IX, the result of the examination of 16,275 individuals.

TABLE 1
Miniature Radiography Examinations.

| CONTRACT OF THE PROPERTY OF TH | Male | Female | TOTAL |
|--|-------|--------|--------|
| Total number examined by Miniature Radiography | 7,911 | 8,364 | 16,275 |

TABLE II Large Film Investigations.

| | Male | Female | Total |
|---|------|--------|-------|
| Number recalled for large film examination | 570 | 533 | 1,103 |
| Percentage of examinees required to attend for large film examination - | 7.2 | 6.4 | 6.8 |
| Number who did not attend | 16 | 14 | 30 |
| Number examined by large film - | 554 | 519 | 1,073 |

TABLE III Clinical Investigations.

| | Male | Female | TOTAL |
|--|------|--------|-------|
| Number recalled for clinical examination | 301 | 312 | 613 |
| Percentage of examinees recalled for clinical examination following large film examination - | 3.8 | 3.7 | 3.8 |
| *Number who did not attend - | 3 | 4 | 7 |
| Number clinically examined - | 298 | 308 | 606 |

^{*}Six of the seven examinees who did not attend for clinical examination were classified on the large film examination. The one unclassified was in the 15-24 (female) age group.

TABLE IV

Age Groups of Examinees

(excluding thirty who did not attend for large film examination and one who was not classified).

| | 14 Years | 15-24 | 25-34 | 35-44 | 45-59 | 60 & over | TOTAL |
|------------|----------|-------|-------|-------|-------|-----------|--------|
| Male - | 129 | 2,664 | 1,684 | 1,545 | 1,664 | 209 | 7,895 |
| Female - | 279 | 5,007 | 1,774 | 843 | 417 | 29 | 8,349 |
| Both sexes | 408 | 7,671 | 3,458 | 2,388 | 2,081 | 238 | 16,244 |

TABLE V

Cases diagnosed Pulmonary Tuberculosis (Post Primary).

| | | | | Active | Inactive | TOTAL |
|------------|---|---|------|--------|----------|-------|
| Male | | | n do | 58 | 184 | 242 |
| Female | - | | - | 66 | 130 | 196 |
| Both sexes | - | - | - | 124* | 314 | 438 |

^{37 (7} active and 30 inactive) of the total number had been previously diagnosed.

*Of the 124 active cases, 49 (or 39.5%) were found to have tubercle bacilli in their sputum.

TABLE VI

Ultimate Disposal of 124 Cases diagnosed Active Pulmonary Tuberculosis (Post Primary).

| | | Sanatorium | Observation* | Referred to Doctor | No Action |
|-----------|-----|------------|--------------|-----------------------|-----------|
| Male - | - | 38 | 18 | 2 | |
| Female - | | 40 | 23 | 2 | 1‡ |
| Both sexe | s - | 78† | 41 | 4 | 1 |

^{*}Observation at Central Tuberculosis Institute or Mass Radiography Centre.

TABLE VII

Ultimate Disposal of 314 Cases diagnosed Inactive Pulmonary Tuberculosis (Post Primary).

| | | | Observation* | Referred to Doctor | No Action |
|---------|-----|---|--------------|-----------------------|-----------|
| Male | - | - | 56 | 39 | 89 |
| Female | - | - | 58 | 22 | 50 |
| Both se | xes | - | 114 | 61 | 139 |

^{*}Observation at Central Tuberculosis Institute or Mass Radiography Centre.

[†]Of the total number examined (16,244), .48% were recommended for immediate sanatorium treatment.

[‡]This case, after full clinical investigation, refused to co-operate.

TABLE VIII

Analysis of 438 Cases of Pulmonary Tuberculosis (Post Primary), showing number of cases in each age group, with corresponding percentages (percentages in brackets).

| Sex | Ages | 14 Years | 15-24 | 25-34 | 35-44 | 45-59 | 60 & over | TOTALS |
|---------------|---------------------|----------|-------------|--------------|--------------|--------------|-------------|---------------|
| | No. of Examinees | 129 | 2,664 | 1,684 | 1,545 | 1,664 | 209 | 7,895 |
| Male | Active | *** | 17 (.64) | 12 (.71) | . 12 (.78) | 15 (.90) | (.96) | 58 (.73) |
| | Inactive | | 26 (.97) | 38 (2.26) | 45 (2.91) | 69 (4.15) | 6 (2.87) | 184 (2.33) |
| | No. of Examinees | 279 | 5,007 | 1,774 | 843 | 417 | 29 | 8,349 |
| Female | Active | 1 (.36) | 42 (.84) | 15 (.85) | 7 (.83) | 1 (.24) | ick-marks | 66 (.79) |
| | Inactive | | 43 (.86) | 46 (2.59) | 32 (3.80) | 7 (1.68) | (.69) | 130 (1.55) |
| | No. of Examinees | 408 | 7,671 | 3,458 | 2,388 | 2,081 | 238 | 16,244 |
| Both Sexes | Active | 1 (.25) | 59 (.77) | 27 (.78) | 19 (.80) | 16 (.77) | 2 (.84) | 124 (.76) |
| | Inactive | | 69 (.90) | 84 (2.43) | 77 (3.22) | 76 (3.65) | 8 (3.36) | 314 (1.93) |

TABLE IX

Cases diagnosed Active Primary Tuberculosis (Pulmonary), with Disposal.

| Armsdu'l cour | | mile in | TOTAL NUMBER | Observation* | Referred to Doctor | No Action |
|---------------|-----|---------|-----------------|--------------|-----------------------|-----------|
| Male | _ | - | 1 | . 1 | | |
| Female | - | 7 | 10 | 9 | 1 | |
| Both se: | ves | - | 11 | 10 | 1 | 1. |

^{*}Observation at Central Tuberculosi: Institute or Mass Radiography Centre.

In addition to the above cases of tuberculosis, the following abnormalities were diagnosed (excluding cases of bronchitis and emphysema):

| Bronchiectasis - | - | SUM | - | 1948 | 36 | | |
|-----------------------------|-----------|-----------|-----------|------|-----|------|--------|
| Atypical Pneumonia | - | - | 2 | - | 5 | | |
| Pulmonary Fibrosis (non | -tuberci | ulous) | 1 | 1 | 14 | | |
| Asbestosis - | Section 1 | | | 1 | 4 | | |
| Carcinoma of Bronchus | - | - HILLY | 2 | 1 | 5 | | |
| Neurofibroma - | - | - | THE PARTY | - | 1 | | |
| Spontaneous Hydropneu | umothor | ax | - | - | 1 | | |
| Pleural Effusion (tuberc | ulous) | - | - | - | 2 | | |
| Pleural Thickening | - | - | - | - | 238 | | |
| Cardio-vascular lesions | (congen | ital) | - | - | 10 | (60% | known) |
| Cardio-vascular lesions | (acquire | d) | 35.00 | - | 103 | (62% | known) |
| (includes 3 Syphi | litic An | eurysms |) | | | | |
| Congenital Cystic Disea | se of L | ung | - | - | 3 | | |
| Solitary Cyst of Lung | - | - | - | - | 1 | | |
| Hydatid Cyst - | - | - | | - | 1 | | |
| Sarcoidosis - | - | | 7 | - | 3 | | |
| Calcification of Pericardia | um | - | - | - | 1 | | |
| Dextrocardia - | - | - | - | 2 | 1 | | |
| Substernal Thyroid | - | - | 2 | - | 1 | | |
| Eventration of Diaphrag | gm | 811 | - | - | 3 | | |
| Diaphragmatic Hernia | - | - | | - | 1 | | |
| Fractures of First Rib | - | 5/10001 | (a) mill | - | 4 | | |
| Cystercicosis - | - | Service . | | - | 1 | | |

It has been reported that the percentage of cases of active tuberculosis of the lungs discovered by the various Mass Radiography Units operating in England and Wales up to the 31st December, 1945, was .36 out of a total of 797,314 individuals examined. It will be seen from Table VIII that the percentage of active cases discovered in Belfast was .76. While it is admitted that the total number of examinations (16,275) up to 31st December, 1945, was small compared with the total number for England and Wales, it can be assumed that the incidence of pulmonary tuberculosis is considerably greater here.

The treatment of active pulmonary tuberculosis demands the provision of sanatorium beds. It has always been known that these have been in short supply, and although extra beds have been provided during the past few years, the waiting period for admission to sanatoria is still one of months. If the maximum benefit is to be obtained from Mass Radiography, more beds will have to be provided in order that early cases so discovered can be admitted without any delay. If these beds are not provided, the 'early case' discovered by Mass Radiography will be found on admission to be no longer in the 'early' category, and so the object of the Mass Radiography Scheme will be defeated.

Mass Radiography has not made the diagnosis of active pulmonary tuberculosis, in some instances, any easier, as radiological lesions have been demonstrated in cases in which it is quite impossible to assess the degree of activity. Owing to the shortage of sanatorium beds, the only method of dealing with these cases is to keep them under constant observation, with serial radiographs, at the Centre, sometimes with unfortunate results. In view of this, it seems necessary that the Mass Radiography Unit should have at its disposal a certain number of observation beds, where this particular type of case could be admitted immediately for a short period for daily observation.

While the Mass Radiography Scheme was initiated for the detection of early pulmonary tuberculosis, it will be seen from the above résumé of the work that a considerable number of non-tuberculous conditions were detected. These cases are investigated at the Centre, and reports in every case sent to the individual's doctor.

In certain cases more than one examination was necessary before a final diagnosis was made. In this connection 179 large film examinations were necessary and 80 clinical examinations. This makes a total of 1,252 large film examinations and 686 clinical examinations for the period under review.

In all pulmonary cases in which a clinical examination was carried out, the estimation of the blood sedimentation rate is a routine measure. Other blood investigations (blood counts, Harrison and Kahn's tests, etc.) and Mantoux tests are carried out when considered necessary. Sputum is examined in all cases, when obtainable, by the direct and culture methods. During the six months 229 specimens of sputum were examined by the direct method, 71 being subsequently examined by the culture technique. Tubercle bacilli were found in 23 specimens by direct examination, and in 13 cases tubercle bacilli were isolated on culture. I am indebted to Dr. G. F. H. Tinsdale for carrying out the Harrison and Kahn tests at the Municipal Laboratory, Queen's University, and to Dr. L. V. Reilly, of the Municipal Sanatorium staff, for carrying out the examination of sputum and pleural fluid specimens at the Municipal Sanatorium Laboratory, Whiteabbey.

The success and smooth working of a Mass Radiography Department depends, in no small measure, on the co-operation of the managements of industrial concerns and other employers. I should like to record my acknowledgments for the valuable help afforded to me and the staff by the directorates and key personnel of the various firms during our first year. They have done much to help us to launch the Mass Radiography Scheme.

Our first 'outside' survey took place during the months of October and November in the factory of Messrs. Gallaher Ltd. I cannot speak too highly of the cooperation extended to us during our stay. Every effort was made to meet our requirements in the setting up of this temporary centre.

I am indebted to the General Practitioners of the City and surrounding districts for the keen support they have given me. Without this support much of our work would be of no avail.

My thanks are also due to my colleagues on the staff of the Central Tuberculosis Institute for the interest they have taken in the patients referred to them, although this has incurred much additional work.

Finally, it gives me great pleasure to place on record the team work of my own staff. Their united efforts have gone far to make the Mass Radiography Service efficient. I have to thank them for their help in making my own task lighter than it might have been.

Yours faithfully,

J. NORRIS WHYTE, Medical Director.

The Report of the Medical Superintendent

on the working of

The Belfast Municipal Sanatorium

For the Year ended 31st December, 1945

I have the honour to present the twenty-second Annual Report upon the working and progress of this Institution.

Capacity.—The maximum number of beds in the Sanatorium is 330. The distribution of the accommodation is as follows:—

TABLE I

| | | Tu | Pulmonary berculosis B | eds | Surgical Be | ds | TOTAL |
|----------|---|----|---------------------------|-----|--------------|------|-------|
| Males | - | + | 170 | | 10 | **** | 180 |
| Females | - | - | 120 | | _ | | 120 |
| Children | - | - | 30 | | - | | 30 |
| Total | | | 320 | | 10 | | 330 |

PERSONNEL

| General Staff:- | | | Nursing Staff- | | |
|---------------------------------|-------|-------------|-----------------------------|---|----|
| Medical Superintendent - | - | 1 | Matron and Assistant Matron | - | 2 |
| Clinical Pathologist and | | | Home Sister | - | 1 |
| Medical Officer - | _ | 1 | Sisters | - | 7 |
| Assistant Medical Officers | - | 3 | Theatre Sister | - | 1 |
| Visiting Thoracic Surgeon | _ | 1 | Staff Nurses | - | 12 |
| Visiting Orthopædic Surgeon | - | 1 | T.A. or Assistant Nurses | - | 8 |
| Visiting Dental Surgeon - | | 1 | Probationer Nurses - | - | 30 |
| Dispenser and Statistical Clerk | | 1 | Domestic Staff:- | | |
| Radiographer | - | 1 | Cooks | _ | 2 |
| Laboratory Technician - | - | 1 | Assistant Cooks - | - | 3 |
| Laboratory Assistant - | - | 1 | Maids | - | 28 |
| Chaplains | - | 4 | Cleaners | - | 6 |
| School Mistresses | - | 2 | Miscellaneous:- | | |
| Clarical Seatt. | | | Works Superintendent | - | 1 |
| Clerical Staff:— | | | Engineer | - | 1 |
| Administrative Assistant - | - | 1 | Gardener | - | 1 |
| Senior Clerk | - | 1 | Storekeeper | - | 1 |
| Clerks | - | 4 | Others | - | 20 |
| Total Nurs | ing : | Staff - | 61 | | |
| Nursing Sta | ff pe | er ten beds | 1.85 | | |
| | | | | | |

TABLE II

Annual Return shewing the Extent of Treatment from 1st January, 1945, till \$1st December, 1945. (Comparative figures for the year 1944 are shown in brackets).

| WHITEABBEY | WHITEABBEY In Institution 31/12/44 | | Du | nitted uring 945 | Di | harged uring 945 | Du | Died uring 945 | In Institution 31/12/45 | | |
|-----------------|------------------------------------|-------|-----|------------------------|-----|------------------------|----|----------------------|-------------------------------|-------|--|
| No. of Patients | 317 | (272) | 426 | (475) | 407 | (384) | 30 | (46) | 306 | (317) | |

TABLE III

Annual Return shewing the Classification of patients admitted during 1945.

| TYPE OF CASE | Λ | len | W | omen | Chi | ldren | TOTAL | | |
|------------------------|---|-----|-------|------|-------|-------|-------|-----|-------|
| Pulmonary Tuberculosis | - | 203 | (197) | 134 | (191) | 55 | (52) | 392 | (440) |
| Surgical Tuberculosis | - | 10 | (3) | 1 | (3) | 4 | (7) | 15 | (13) |
| Non-tuberculous - | - | 6 | (4) | 5 | (2) | 2 | (1) | 13 | (7) |
| Unclassified - | - | 2 | (2) | - | (-) | _ | (-) | 2 | (2) |
| Re-admissions - | - | 4 | (3) | - | (8) | | (2) | 4 | (13) |
| Total - | - | 225 | (209) | 140 | (204) | 61 | (62) | 426 | (475) |

TABLE IV

Annual Return shewing the Classification of patients discharged during 1945 (excluding those indicated in Table No. V).

| Type of Case | A | len | W | omen | Chi | ldren | TOTAL | | |
|--|-----------|--------------|-----|--------------|---------|-------------|-----------|--------------|--|
| Pulmonary Tuberculosis - Non-pulmonary Tuberculosis | 196 10 | (156) (4) | 122 | (157) (1) | 46 5 | (45) (3) | 364 20 | (358) (8) | |
| Total | 206 | (160) | 127 | (158) | 51 | (48) | 384 | (366) | |

TABLE V

Annual Return indicating patients discharged during 1945, but not included in treatment survey.

| | Men | | We | men | Chi | ldren | To | TAL |
|--|-----|------|----|------|-----|-------|----|-------|
| In residence less than one month (excluding deaths and redischarges) - | 19 | (9) | 12 | (23) | 6 | (7) | 37 | (39) |
| Redischarges | _ | (-) | - | (1) | _ | (1) | _ | (2) |
| Non-tuberculous | 5 | (5) | 5 | (3) | 1 | (1) | 11 | (9) |
| Temporary discharges of patients still in residence - | 1 | (2) | 1 | (3) | - | (2) | 2 | (7) |
| Temporary discharges of patients not included above | 3 | (2) | - | (3) | - | (-) | 3 | (5 |
| Doubtful | - | (1) | - | (1) | - | (-) | - | . (2) |
| Total | 28 | (19) | 18 | (34) | 7 | (11) | 53 | (64 |

TABLE VI

Annual Return indicating the duration of residence of patients in the Sanatorium during the year 1945.

PATIENTS DISCHARGED:

PATI

Not

| (1) Suffering from Pulmonary Tu | berculosis | | | 267.0 | days | |
|---------------------------------|---------------|---------|----------|---------|------|--|
| (2) Suffering from Non-Pulmona | | sis | | 374.2 | ** | |
| (3) Suffering from P.T.C. | | | | 200.3 | " | |
| (4) Observation Cases | | | ******** | . 107.9 | ** | |
| TENTS DIED: | | | | | | |
| (1) Suffering from Pulmonary Tu | iberculosis | | | 181.1 | ** | |
| t included in above : | | | | | | |
| 1 Patient suffering from Core | onary Throm | bosis | | 298.0 | 9.7 | |
| 1 Patient suffering from Carc | inoma of Peri | itoneum | | 14.0 | 11 | |
| | | | | | | |

TABLE VII

Analysis of patients with Pulmonary Tuberculosis discharged during 1945.

| | | | Du | JRATI | ON C | of R | ESIDI | ENCE | IN . | SANA | TORI | UM | | | | | |
|-------------------------------------|--|------------------------|-------------|-----------------------|------------------------|------------------|-------------|-------------------|------------------|-------------------|--------------------|------------------|------------------|-------------------------|---------------------|--------------------|----------------------|
| Classification upon Admission | Condition upon Discharge | Under * 3 Months | | 3—6 Months | | | —12 onth | | | Over 1 Year | | Totals | | | TOTAL | | |
| Class T.B. Minus | Quiescent Improved N.M. Imp. Died | M 6 3 2 | W 7 2 — | C - 1 3 - | M 13 6 3 1 | W 9 - 1 | C 9 1 1 - | M 14 2 — | W 6 - - | C 17 5 — | M 1 - 1 | W 1 - - | C 2 3 — | M 34 11 6 1 | W 23 2 1 | C 28 10 4 | 85 23 11 1 |
| | TOTAL | 11 | 9 | 4 | 23 | 10 | 11 | 16 | 6 | 22 | 2 | 1 | 5 | 52 | 26 | 42 | 120 |
| Class T.B. Plus Group 1 | Quiescent Improved N.M. Imp. Died | - - - | | | 1 | 3 _ _ _ | | 2 1 — | 2 | | | 1 1 - | | 3 3 — | 6 1 — | 1111 | 9 4 — |
| | TOTAL | 1 | _ | _ | 2 | 3 | _ | 3 | 2 | - | _ | 2 | _ | 6 | 7 | _ | 13 |
| Class T.B. Plus Group 2 | Quiescent Improved N.M. Imp. Died | 2 4 1 | _ _ _ | | 2 3 1 | 1 3 2 | 1111 | 5 6 3 — | 3 1 1 | | 10 4 3 — | 8 7 — | | 19 17 8 | 12 11 4 | 11111 | 31 28 12 |
| | TOTAL | 7 | 1 | - | 6 | 6 | _ | 14 | 5 | - | 17 | 15 | - | 44 | 27 | _ | 71 |
| Class T.B. Plus Group 3 | Quiescent Improved N.M. Imp. Died | - 1 9 4 | | === | - 4 15 - | - 1 9 1 | === | 2 4 8 6 | -7 3 5 | _ _ _ 1 | 9 14 17 1 | 9 7 7 1 | - 3 - | 11 23 49 11 | 9 15 23 15 | - 3 - 1 | 20 41 72 27 |
| 1 | TOTAL | 14 | 12 | - | 19 | 11 | _ | 20 | 15 | 1 | 41 | 24 | 3 | 94 | 62 | 4 | 160 |
| | GRAND TOTAL | 33 | 22 | 4 | 50 | 30 | 11 | 53 | 28 | 23 | 60 | 42 | 8 | 196 | 122 | 46 | 364 |

N.M. Imp. = No Marked Improvement.

SURGICAL SECTION.

TABLE VIII

Patients discharged during 1945. The following is an analysis of these cases.

| | | | Du | RATI | ON O | F R | SIDE | NCE | IN S | SANA | TORI | UNI | | | | | |
|--------------------------------------|--|------------------|-----------------------|-----------------------------|-------------|-----------------------|------|-------------|-----------------------|------|------------------|-------------------|--------------|------------------|-----------------------|-------------|------------------|
| Type of Disease upon Admission | Condition upon Discharge | | Inde 3 Ionth | | | 3—6 Iontl | | | 5—12 Ionti | | | Over 1 Year | | Т | OTAL | s | Total |
| Osseous | Quiescent Improved N.M. Imp. Died | M - - - | W _ _ 1 _ | C | M _ 1 | w _ _ _ _ | C | M 2 - | w _ _ _ _ | C | M 1 - 2 | W 1 1 1 | C -2 - | M 1 2 3 | W 1 1 2 - | C - 2 | 2 5 5 |
| | TOTAL | _ | 1 | _ | 1 | | - | 2 | - | _ | 3 | 3 | 2 | 6 | 4 | 2 | 12 |
| Abdominal | Quiescent Improved N.M. Imp. Died | _ _ 1 | 1111 | 1111 | | | 1111 | | _ _ _ _ | 1 | | === | | _ _ 1 _ | _ _ _ _ | | 1 -2 - |
| | TOTAL | 1 | - | | | - | _ | - | 1 | 1 | _ | - | _ | 1 | 1 | 1 | 3 |
| Other Organs | Quiescent Improved N.M. Imp. Died | | === | - - 1 | | 1111 | | - 3 - | | === | | | === | - 3 - | | | - 3 - 1 |
| | TOTAL | - | - | 1 | - | - | _ | 3 | - | - | - | - | - | 3 | - | 1 | 4 |
| Glandular | Quiescent Improved N.M. Imp. Died | | | | | | | | | | HIL | | - - - | 1111 | | - - - | |
| | TOTAL | _ | _ | _ | - | _ | _ | - | _ | _ | _ | - | 1 | - | _ | 1 | 1 |
| | GRAND TOTAL | 1 | 1 | 1 | 1 | _ | _ | 5 | 1 | 1 | 3 | 3 | 3 | 10 | 5 | 5 | 20 |

COMPLICATIONS.

The following complications of pulmonary tuberculosis were noted during residence in hospital.

| | | | 100000 | | | | | | |
|--------------|-------------|---|-----------|------|-----------------|--------|-------|-------|----|
| | | 0 | ther form | ns o | f Tuberculosis— | | | | |
| Abdomen | - | - | | 4 | Intestines | -1 | (amin | 100 | 8 |
| Ankle | - | - | - | 1 | Ischio-rectal | - | - | - | 2 |
| Cervical gl | ands | - | - | 6 | Kidney | - | - | - | 2 |
| Ear | 7-2 | - | - | 1 | Knee | - | - | - | 1 |
| Empyema | - | - | - | 4 | Larynx | - | - | - | 24 |
| Epididymis | - | - | - | 3 | Sinus (dischar | rging) | | 125 | 1 |
| Fistula-in-a | ano | - | - | 3 | Spine | - | 2 | 11112 | -2 |
| Hip | - | - | - | 1 | Tongue | - 1 | - | - | 1 |
| | | | Oth | er D |)iseases— | | | | |
| Abscess—f | foot | | | | Albuminuria | - | - | - | 1 |
| | gluteal | | | | Alopœcia | - | - " | - | 1 |
| | mandible | | | | Amyloid disea | ase-re | nal | - | 1 |
| | peri-anal | | | | Amyloid disea | ase | - | - | 3 |
| | sternal | | | | Anæmia | - | - | - | 1 |
| | -incomplete | - | - | 1 | Angina pecto | ris | - | - | 1 |
| Λ | 1000 | - | 1112 | 1 | Asbestosis | - | - | - | 1 |

| Asthma - | | - | 2 | Neurasthenia - | - | - 1 |
|---------------------|------|------|----|----------------------|---------|------------|
| Bazin's disease | - | - | 2 | Oedema - | - | - 1 |
| Birth palsy - | 1 4 | - | 1 | Otitis media - | - | - 6 |
| Bronchiectasis - | - | - | 2 | Paralysis—L. phrenic | - | - 1 |
| Bronchitis - | - | - | 7 | Periostitis - | - | - 1 |
| Cholecystitis - | - | - | 1 | Pneumothorax—spon | taneo | us - 2 |
| Conjunctivitis - | - | - | 2 | Poliomyelitis—old | - | - 1 |
| Dermatitis - | - | - | 3 | Pregnancy - | - | - 4 |
| Diabetes - | | - | 1 | Pregnancy and incom | plete : | abortion 1 |
| Emphysema - | - | - | 14 | Psychosis - | - | - 1 |
| Epiphysitis - | - | - | 1 | Psycho-neurosis | - | - 1 |
| Fistula—pleural | - | - | 1 | Pyrexia—transient | - | - 1 |
| Hæmorrhoids - | - | - | 7 | Pyuria - | - | - 1 |
| Herpes Zoster | - | - | 1 | Recent confinement | - | - 9 |
| Hypospadias - | - | - | 1 | Syphilis - | - | - 3 |
| Ichthyosis - | - | - | 1 | Sinusitis—maxillary | - | - 1 |
| Laryngitis—catarrha | al - | - | 1 | Thrombosis - | - | - 2 |
| Methritis - | - | - | 1 | Tonsillitis - | = | - 2 |
| Myelitis - | - | 0.70 | 1 | Ulcer—peptic | - | - 1 |
| 1100 | | | | | | |

TABLE IX

| | | Dura | TION OF RI | ESIDENCE I | PRIOR TO D | EATH | | | |
|----------------------|------|-------|------------|------------|------------|------|---------|-------|--|
| | | Days | | | Mor | nths | | | |
| | 1—10 | 11—20 | 21—31 | 1—3 | 3—6 | 6—12 | Over 12 | TOTAL | |
| Number of Cases - | 1 | 3 | 1 | 9 | - | 13 | 2 | 29 | |

1 death non-tuberculous, 14 days.

. TABLE X

Classification of Patients in residence 28 days or less.

| | | Men | Women | Children | Тоты |
|-----------------|---|----------|---------|--------------|---|
| Minus - | | 11 | 4 | 6 | 21 |
| Group 1 Plus - | - | 1- | - | _ | _ |
| Group 2 Plus - | - | . 4 | 1 | - | 5 |
| Group 3 Plus - | - | 1 | 10 | | 11 |
| Osseous - | - | - | - | - | |
| Abdominal - | - | DOTAGE N | NOTARII | - | - |
| Glandular - | - | _ | _ | _ | - |
| Other Organs - | - | 1 | 180-11 | 1 | 2 |
| Doubtful - | - | - | - 11 | The Later of | 111111111111111111111111111111111111111 |
| Non-tuberculous | - | 4 | 1 | - | 5 |
| Unclassified - | - | 2 | 101- | - | 2 |
| Total - | - | 23 | 16 | 7 | 46 |

TABLE XI

Cause of discharge of patients in previous Table.

| Тотаг | 46 |
|---------------------------|----|
| Death | 9 |
| Own Request | 12 |
| Transferred | œ |
| Recommended | 9 |
| Against Medical Advice | 14 |

TABLE XII

Artificial Pneumothorax treatment. Results on discharge 1945.

| Statement of the later of the l | | | | | | | | 9 | 9 | | | | | |
|--|--------|-----------------|------|------------------------|-------|------------------------|------------------------------|----------------------|-----|------|------------------|--------|------|------|
| | 31 30 | No. or Cases | | SPUTUM ON ADMISSION | Seure | SPUTUM ON DISCHARGE | INTERNAL PNEU- MOLYSIS | Phrenic Operation | | | R | RESULT | | |
| | 00 | 100 | Pos. | Neg. | Pos. | Neg. | | | 0 | Imp. | Imp. 1S.Q. Worse | Worse | Died | Тотл |
| Collapse Satisfactory | - A | 95 | | | | | 13 | | | | | | | |
| Hilar - | 1 | 36 | 34 | 2 | 7 | 59 | 27 | 2 | 21 | 12 | - | 2 | 1 | 36 |
| Mediastinal - | d a | 17 | 15 | 2 | 2 | 15 | 6 | - | 112 | 2 | 1 | 1 | 1 | 17 |
| Partial - | 1 | 3 | 2 | - | 1 | 3 | 2 | 1 | 2 | - | 1 | 1 | 1 | 3 |
| Collapse Unsatisfactory - | tory - | 31 | 29 | 2 | 18 | 13 | == | 2 | 7 | 12 | 7 | 3 | 2 | 31 |
| No Collapse - | | 15 | 13 | 2 | 6 | 9 | - | 2 | 4 | 9 | 2 | 1 | 1 | 15 |
| TOTAL - | | 102 | 93 | 6 | 36 | 99 | 50 | . 7 | 46 | 36 | 13 | 5 | 2 | 102 |

1 A.P. unclassified.

OPERATIVE TREATMENT.

| A.P. Induction | 1 | - | - | 70 | Phrenic operation | - | - | 19 |
|----------------|--------|-------|---|------|-------------------|------|----------|-----|
| A.P. Induction | n atte | mpted | - | 28 | Thoracoplasty - | - | 10 2 | 29 |
| Pneumo-peritor | | | - | 4 | Thoracoscopy - | - | 1 5 | 7 |
| A.P. Refills | - | - | - | 4026 | Chest aspiration | - | - | 121 |
| Bronchoscopy | - | - | - | 3 | Nephrectomy - | 1200 | aqui Lin | 2 |
| Lipiodol | - | - | - | 10 | Orchidectomy - | - | 1 | 1 |
| Pneumolycic | - | | - | 64 | | | | |

TABLE XIII

Table shewing the average number of patients in residence per day for the past ten years.

| Financial Y | car | | |
|-------------|-----|---------|--------|
| ending Ma | rch | | Number |
| 1937 | *** | | 243.78 |
| 1938 | | *** | 237.90 |
| 1939 | | | 231.39 |
| 1940 | | *** | 235.89 |
| 1941 | | | 232.39 |
| 1942 | | | 230.78 |
| 1943 | 200 | | 246.66 |
| 1944 | | *** | 268.33 |
| 1945 | | | 303.67 |
| 1946 | | | 317.64 |

REPORT OF THE WORK OF THE EAR, NOSE, AND THROAT DEPARTMENT.

By T. Kennedy Hunter, M.B., F.R.C.S., D.L.O.

Ninety-seven new cases were examined during the year and there were fortythree re-examinations. This is an increase of thirty in the number of new cases compared with the previous year.

Of the new cases, fifteen were definite cases of Tuberculous Laryngitis. There were three doubtful cases.

The sites, in order of frequency, were: inter-arytenoid space, epiglottis, true cords, false cords, arytenoids, and aryteno-epiglottic folds.

There are six cases of non-tuberculous disease of the larynx, twenty-five cases of aural disease, twelve cases of nasal disease, and eight cases of pharyngeal disease—all non-tuberculous. Lavage of maxillary sinus was carried out five times and diagnostic bronchoscopy twice. One case of Papilloma of vocal cord was operated on.

REPORT OF THE X-RAY DEPARTMENT, 1945.

| | | | 77777 | 1000 | | | | | |
|----------------------------------|--------|---------|--------|------|-----|--------|----------------|-----|-------------|
| | | X-Ra | y Pho | togr | aph | s— | | | |
| | Pulm | onary | 2 | - | 180 | - 1 | 1,459 | | |
| - Benediction | Surg | ical | - | - | | - | 151 | | |
| | Barit | ım Meal | | - | | - | 17 | | |
| | Dent | al | - | - | | - | 4 | | |
| | Lipio | odol | - | - | | - | 21 | | |
| | Rena | d | - | - | | - | 14 | | |
| | Screen | Examin | ations | - | | -10 | 1,666 2,497 | | |
| Kromayer Lamp | - | - | 11 - | | 10 | patier | nts had | 106 | treatments. |
| Radiant Heat | - | 10 111 | 12 | | 3 | | ,, | 54 | ,, |
| Infra Red | 112 | 2 | 1 200 | | 1 | | ,, | 2 | ,, |
| Ultra-Violet Lig (carbon arc) | | 1- 71 | * | | 2 | | ,, | 50 | " |

REPORT OF THE VISITING DENTAL SURGEON

FOR THE YEAR 1945.

| | | | Sanatorium | | Children's Hospital |
|-----------------|-----------------|-----|------------|-----|---------------------|
| Extractions - | - | - | 182 | *** | 12 |
| Examinations ar | d Dressings | - | 238 | *** | 67 |
| Scalings - | 1. 2.10 - FO TO | - | 19 | | 5 |
| Fillings - | words and | - 1 | 50 | | 3 |

REPORT OF THE PATHOLOGICAL LABORATORY, 1945.

| Total number | of inves | tig | ations | 12,847 | |
|----------------------|----------|-----|--------|---------------------------------|-------|
| Blood- | | NT. | | Pleural Fluid— | |
| Cholesterol - | - | - | 9 | Bacteriological | 49 |
| Plasma protein | - | - | 6 | Cytological | 42 |
| Phosphatase - | - | - | 5 | and makes | |
| Serum albumin | 7 | - | 5 5 | Cerebro-Spinal Fluid- | |
| Serum globulin | 7100 | - | | | 10 |
| Serum protein | - 3 | - | 15 | Complete investigation - | 15 |
| Sugar - | 13.0 | | 34 | II-i | |
| Urea - | - | - | 11 | Urine— . | |
| Van den Bergh | 7 | - | 2 | Chemical examination - | 100 |
| Complete counts | * | - | 21 | Bacteriological | 90 |
| Grouping - | * | - | 30 | | |
| Hæmoglobin | * | - | 16 | Pus— | |
| Hæmatocrit | - | - | 16 | Paradala da I | . 140 |
| Sedimentation rate | - | - | 2,768 | Bacteriological | 148 |
| Congo red absorption | tests | - | 6 | M:n | |
| Transfusions | - | - | 30 | Miscellaneous— | |
| 6 | | | | Histological examinations - | 75 |
| Sputum— | | | | Post-mortem examinations - | 2 |
| Direct examination— | | | | Vitamin C estimation in Orange | |
| B. tuberculosis | Zan all | - | 5,561 | Juice | 2 7 |
| Culture - | - | - | 3,630 | Complete water examination - | 7 |
| Asbestosis bodies | - | - | 6 | Phosphatase and bacteriological | |
| Malignant cells | - | - | 8 | tests in milk | 37 |
| Spirilla - | - | - | 9 | Preparation of tuberculin | |
| Laryngeal reflex | - | - | 62 | vaccines | 25 |
| | | 40 | | | |

During 1945 the number of patients on the waiting-list has increased further. The number was 98 in January, 1944; 216 in December, 1944; 389 in December, 1945. The causes of this very large increase have been referred to in the Chief Tuberculosis Officer's report.

The average duration of residence has also continued to increase (see Table VI), which is partly due to the extension of bilateral collapse methods of treatment. It is gratifying that only fourteen patients left the Sanatorium against medical advice during the year.

A new and larger operating theatre has been provided by the alteration of a ward on the ground floor of the main hospital building. The need for this advance is shown by the steady increase in surgical work. Several new items of surgical equipment have been provided, and delivery of other articles ordered during the year is expected soon.

Other improvements include the erection of two large "Iris" huts for recreation, occupational therapy, and workshops. When these huts are completed, the present recreation room will be converted to a ward for male patients, providing twenty additional beds. A sputum room has also been planned for the main hospital, and a lorry has been purchased from the Civil Defence Authority. Painting and maintenance of the property have been continued as far as war-time conditions allowed.

Treatment is still continued mainly on the old lines, but, in addition, the medical and surgical staff have given attention to certain new methods, which promise to be of value. Besides rest, fresh air, and a wholesome diet, the means of attack on pulmonary tuberculosis continues to be collapse therapy. The various forms of collapse treatment, which have produced good permanent results elsewhere, are proving satisfactory at Whiteabbey. The period of hospitalization is long and wearisome for the patient, the medical and nursing care involved demand the highest degree of patience and skill, but the results justify the time and effort expended on this work. From the public health point of view, the conversion of many infectious cases to the negative group is a matter of great importance. A few special points may be mentioned in connection with the development of collapse treatment in this institution.

- The number of cases of artificial pneumothorax continues to increase, and more than half of these require the operation of adhesion-cutting.
- Bi-lateral collapse is being used increasingly with good results. The combination of artificial pneumothorax on one side, with the modern Semb-thoracoplasty on the other side, has proved highly successful in selected patients.

68

- 3. The new method of resting the lungs indirectly by pneumo-peritoneum continues to produce encouraging results. It is particularly valuable, in that it may be applicable after artificial pneumothorax has failed.
- 4. Failure to collapse the lung by pneumothorax does not mean that the patient is doomed to chronic invalidism or early death. Long continued rest in bed, followed, if necessary, by thoracoplasty, may bring about sound healing in such cases.

The statistical work of classifying former patients has been continued, and a

special inquiry has been begun with regard to family history of tuberculosis.

The instruction of nurses has continued for the certificate of the Tuberculosis Association and for the State Preliminary Examination. During the year six nurses passed Part 1 and six nurses passed Part 2 of the Tuberculosis Association examination, and seven nurses, a 100 per cent. of the entry, were successful in the State Preliminary Examination.

The Red Cross and St. John Organisation have continued to grant materials for handicraft work for service patients, and again our grateful thanks are due to the voluntary worker, Mrs. Crawford Browne, for unfailing assistance and encouragement.

The hospital has remained full throughout the year, and medical, nursing, administrative, domestic, and outdoor staff have spared no efforts for the well-being

and comfort of the patients.

The work of the chaplains has again earned the deep appreciation of patients and staff alike. The religious services have been well attended and sick patients have been regularly visited in the wards. The religious instruction of the children has also

been carried on throughout the year.

We have been very fortunate in the entertainments provided by kind friends during the year. Special mention should be made of the Excelsior Male Voice Choir and associated artists, including Mr. Samuel McComb and Mr. Reginald Patterson, and of the Toc H Organisation, which has given us a splendid series of film shows. The provision of a separate film show for orthopædic patients in Pavilion 1 was particularly welcome. Others to whom our sincere thanks are due include the undermentioned, who arranged concerts and entertainments :-

> Rev. W. B. McMurray. Rev. Father McFerran. Mr. Freddie Sales. Mr. Sloan. Mr. R. McCormac. Ohio Serenaders. E.N.S.A. Concert, per Mr. Greer Walker. The Red Hand Dramatic Society. Salvation Army. Symington Memorial Flute Band. Agnes Street Temperance Silver Band. Colonel Eager Silver Band. 55th Old Boys.

Gifts were received from the following during the year:-

The British Legion (Whiteabbey).

W.V.S. Mrs. Newton. Mr. Campbell. Mrs. Megaw. British Red Cross, 64th Belfast Detachment. Unionist Association, per Mrs. Hunter. Miss Crawford. Portrush Hospital Supply Depot. Mrs. Baillie. Sir William Robinson. British Red Cross, 50th Belfast Detachment. The British Legion (Whitehouse). Forces Library.

Yours faithfully,

B. R. CLARKE,

MUNICIPAL CHILDREN'S HOSPITAL

Greenisland

The Report of the Visiting Surgeon

For the Year ended 31st December, 1945

To the Chief Tuberculosis Officer.

Dear Dr. Clarke,

I submit my report on the clinical work of the hospital for the year 1945.

On the 1st January, 1945, there were forty-four patients in hospital, fifteen patients were admitted during the year, and twelve were discharged. Forty-seven patients remained in hospital on the 31st December.

Of the twelve patients discharged, one died from tuberculous meningitis after only thirteen days in hospital, nine were discharged with disease apparently arrested, and two were removed by the parents. The last two showed considerable improvement.

As usual, there were many cases of sore throat, thirty-six in all, but none of serious import. Twenty-nine swabs were sent for examination for diphtheria. Only two proved positive, one a nasal infection without toxæmia, and one case of tonsillar diphtheria of mild degree. Both were temporarily transferred to Purdysburn Fever Hospital. I believe the incidence of "sore throat" might be decreased by the provision of a dish steriliser.

At the Royal Victoria Hospital I had fifty-four visits from old patients or from patients sent from the Tuberculous Institute for an opinion.

| Numbers of Ad | MISSION | s and D | ISCHARGES | During | 1945. | |
|-------------------------|----------|------------|-----------|--------|-------|----|
| Remained in hospital | on 31st | December | r, 1944 | | | 4 |
| Admitted during 1945 | | | *** | | | 18 |
| | | | Total | | | 59 |
| Discharged | | | | | | • |
| Died | | | 344 | | | J |
| Removed by parents | *** | | *** | *** | *** | 3 |
| | | | Total | | | 15 |
| Remained in hospital | on 1st | January, | 1946 | | | 47 |
| Conditions | FOR WH | сн Ратп | ENTS WERE | ADMITT | ED. | |
| Spinal caries | | 7 | Towns In | | | (|
| Hip-joint disease | | | | | *** | 4 |
| Tuberculosis of knee | | | | | | 1 |
| Tuberculosis of ankle | | | | | | 1 |
| Tuberculosis of elbow | | | *** | 1 | *** | 1 |
| Multiple lesions, ankle | | | | | *** | 1 |
| Abdominal, with incom | nplete o | bstruction | | | | 1 |
| | | | Total | | | 1 |

DISCHARGES DURING 1945. Spinal caries-Disease arrested Died Hip-joint disease— Disease arrested ... 3 Knee Joint-Disease arrested ... Removed C.M.A., improved Hand Bones-Disease arrested ... Foot Bones-Disease arrested ... 3 Multiple Lesions-Removed C.M.A., improved 1 REMAINED IN HOSPITAL ON 1ST JANUARY, 1946. Spinal caries 23 Hip-joint disease 12 Tuberculosis of knee ... 5 Tuberculous abdominal adenitis ... 1 Tuberculosis of elbow-joint 1 Tuberculosis of ankle-joint 2 Tuberculosis of tarsus ... 1 Multiple tuberculous lesions 2

Total

47

MUNICIPAL CHILDREN'S HOSPITAL, Greenisland

Details of patients discharged during 1945.

SPINAL CARIES

Disease arrested - - - - 1

SPINAL CARIES

| | ou | |
|-------------------------------|---|--|
| | with | |
| TON | child | |
| CONDITTION ON DISCHARGE | podol | |
| 0 - | A well-developed child with a deformity. | |
| | A wo | |
| | for ver. ested. | |
| CAUSE OF DISCHARGE | arlet fe | |
| D | Disc | Died. |
| | Caries 10th and 11th thoracic (1) Temporary for scarlet favor. (2) Disease arrested | lous D |
| z z | th thor kyphos | Spinal caries and tuberculous meningitis. |
| CONDITTION ON ADMISSION | and 11 sharp | s and 1 |
| Ar C | es 10th rtebræ; | al caric |
| | Cari | Spin |
| IBER AYS ATED | 1,022 | |
| NUMBER OF DAYS TREATED | 99 | - |
| | | 1 |
| Sex | <u>a</u> | M |
| NON | r | 8 |
| AGE ON ADMISSION | 2 years | 2 years |
| | | |
| REGISTER | 497 and 564 | 009 |

HIP-JOINT DISEASE

Disease arrested - - - - 3

| | 0 | **** | 1000 | 1 | Transfer and Dell modelling in his |
|------------------|-------|------|--|-------------------|---|
| o years F 824 | 824 | | Muscle spasm, rareaction Disease arrested, roof of acetabulum, left hip. | | Healthy Child, Full mobility in hip- |
| 16 years M 1,542 | 1,542 | | Necrosis head of femur and Disease arrested. acetabulum, left hip. Later developed swelling right knee. | Disease arrested. | A few degrees of movement in hip, Ninety degrees of movement in knee, Health excellent, |
| 12 years M 921 | 921 | | Rarefaction and cavity forma- tion in roof of acetabulum, left hip. | Disease arrested. | Cavity filled in. Joint space not lost. Full mobility. |

KNEE-JOINT

Disease arrested - - - - 1 Removed C.M.A. - - -

| On first discharge was well, with ninety degrees movement. After twenty months complained of pain, and was re-admitted. On final discharge, knee quiescent, with eighty degrees of movement. | Swelling subsided and knee was quiescent, but time of treatment was insufficient. Disease may recur. |
|--|--|
| (1) Disease arrested. (2) Mumps. (3) Disease arrested. | Removed by mother C.M.A. |
| White swelling left knee. | White swelling right knee. |
| 989 34 35 35 | 254 |
| 2 | M |
| 6 years | 5 9/12 years |
| 457, 580, and 581 | 587 |

Details of Patients Discharged during 1945-continued

HAND BONES

Disease arrested - - - - 1

| AGE ON ADMISSION | Sux | NUMBER OF DAYS TREATED | CONDITTON ON ADMISSION | CAUSE OF DISCHARGE | CONDITION ON ON DISCHARGE |
|------------------------|----------|------------------------------|---|--------------------------|---|
| 2 years | <u> </u> | 739 | Tuberculous dactylitis, with Disnuses in left index finger, right ring finger, and right little finger. | Disease arrested. | A healthy child. Fingers healed and mobile, |

FOOT BONES

Disease arrested - - - - 3

| | Cavity filled in and bone consoli- dated. Health good. | Walks well. Liable to recurrent in- flammation in eyes. | No clinical signs of disease. |
|---|--|---|--|
| | Disease arrested. | Disease arrested. | Disease arrested. |
| | Cavity in right oscaleis, fol- lowing operation for caries. | Caries metatarso cunciform Disease arrested. point. Blepharitis and corneal ulcers. | Caries left astragalo-calcancan Disease arrested, joint. Tuberculosis sheath of right tendo-achilles with sinus. |
| | 529 | 1,242 | 580 and 1,410 |
| | M | í. | ia. |
| | 2) years | 3 7/12 years | 5 years |
| - | 57.4 | 539 | 489 and 524 |

MULTIPLE LESIONS

| - | Health improved, head healed, and opening in frontal bone almost filled in. Right elbow ankylosed and two sinuses still present. |
|---|---|
| | Removed by father |
| | Was discharged on 11/6/40 Removed by father after successful treatment of tuberculous right elbow and caries left frontal bone, with cavity extending into meninges. Sinuses had recurred in right elbow. |
| | 133 |
| | ĆL, |
| | 14 years |
| | 285 |

Infectious Diseases.

| Diphtheria (mild)— | | | | | | |
|------------------------|------------|----------|---------------|-------------|-------|-----|
| Nasal | | | | | *** | 1 |
| Faucial | | | | | | 1 |
| Sore throats | *** | | | | | 36 |
| Diarrhœa | | | | *** | | 2 |
| Impetigo | *** | | | | | 4 |
| | | | | | | |
| | OTHER | Сомрі | LICATIONS. | | | |
| Otitis media | | | | | *** | 7 |
| *Acute mastoiditis | | | | | | 1 |
| Coryza | | | | | | 1 |
| Epistaxis | | | | | | 7 |
| Styes | | | | | | 4 |
| Corneal ulcer | | | | | | 1 |
| Conjunctivitis | | | | | | 4 |
| Vomiting | | | | | | 23 |
| Bronchitis | | | * | | 1 | 1 |
| F.B swallowed and | passed | | | | | 1 |
| Minor cuts and abrasi | ons | | | | | 7 |
| Boils | | | | | | 6 |
| Herpes | | | | | | 7 |
| Urticaria | | | | | | 1 |
| Sores of minor degree | - 738 | | | | | |
| Plaster | | | | | | . 1 |
| Pressure | | | | | | 1 |
| Adhesive extensi | ons | | | | | 5 |
| *Transferred, t | emporarily | , to Duf | ferin Hospita | l for opera | tion. | |
| | | | | | | |
| ILLNESS CO | NTRACTED | ву М | EMBERS OF | THE STA | AFF. | |
| Pleurisy | | | | | | 1 |
| Diphtheria | | | | | | 1 |
| Influenza | T | | | | | 4 |
| Sore throats | | | | | | 6 |
| Gastro-enteritis | | | | | | 3 |
| Minor sepsis of finger | | | | | | 3 |
| Minor injuries | | | | | | 12 |
| Boils | | | | | | 1 |
| Eczema, external aud | | | | | | 1 |
| P.U.O. | | *** | *** | | | 1 |
| | | | | | | |

With the exception of a probationer who had to be sent home suffering from pleurisy, none of the staff suffered from serious illness.

I am,

Your obedient Servant,

H. P. MALCOLM,

Visiting Surgeon.

Index

| | | | | | | PAGE |
|--|----------------|-----------|-------------|-------------|--------|--------|
| Abattoir | | | | | | 33 |
| Ante-Natal Reports . | | | | | | 44, 45 |
| Area of City . | | | | | | 3 |
| Bacteriological, etc., Exa | minations | | | | | 37, 38 |
| Births and Birth-Rate | | | | | | 3 |
| Births-Table shewing th | | | | | 1,000 | |
| and the natur | | luring th | ne years | 1926-1945 | | 16 |
| " Notification of, | Act . | 200 | | | | 44 |
| Bronchitis | | | | | | 3 |
| Cancer and other Tumo | urs, Deaths | from | | | | 18 |
| Cerebro-Spinal Fever | | | | | | 19 |
| Chest Affections—Death | | | | | | 3 |
| | shewing th | | er of dea | aths regis | tered | |
| | m 1926-1945 | | | | | 15 |
| Deaths, Causes of, at diff | erent age pe | riods | | | | 7-13 |
| Deaths and Death-Rate | | | | | | 3 |
| Deaths of Infants under | | | | | | 3 |
| Deaths of Infants under | | | | | | |
| Table shewing, for | the ten year | rs 1936-1 | 1945, with | an analy: | sis of | |
| these deaths and d | eath-rates acc | cording | to mortali | ity groups | | 41 |
| Deaths, Principal Causes | of (in order | of impo | rtance) | | | 14 |
| Deaths-Maternal . | | | | | | 3 |
| , Neo-Natal (und | er one mont | h) . | | | . 3, | 39, 42 |
| " Neo-Natal (und | er one mont | h) and l | Neo-Nata | l Death F | lates; | |
| Table shewing | , for the ten | years 19. | 36-1945, v | vith an an: | alysis | |
| of these death | s and death- | rates acc | ording to | mortality | groups | 42 |
| " Table shewing t | the number of | of deaths | s at vario | us age-per | riods, | |
| the percentage | e of total nu | mber re | gistered, | and the d | eath- | |
| rate per 1,000 | of the pop | ulation | | | | 15 |
| " Table shewing t | he number o | f deaths | and the | leath-rate | each | |
| year from 19 | 26-1945 | | - | | 720 | 16 |
| " Table shewing | the number | of, cause | d by epi | demic dis | eases, | |
| during the te | | | - | | | 16 |
| " Table shewing t | | | registered | as having | been | |
| caused by ph | thisis and dis | seases of | the resp | iratory or | gans, | |
| from 1926-19- | | | | | | 15 |
| Diarrhœa and Enteritis | | | | | | 3, 20 |
| Diphtheria | | | | | | 3, 19 |
| Diphtheria Immunisation | -Observation | ons by M | M.S.O.H. | | 4 | 5 |
| " | Table shev | | | g of chi | ldren | |
| | | | | eption of | | |
| | work in | | | | | 25 |
| Drain Tests . | | | | | | 30 |
| Dysentery | | | | | | 3 |
| Epidemic Diseases, Death | hs and Deatl | h-Rate | | | . 3. | 16, 20 |
| Ervsipelas | | | | | | 19 |
| Factories Act, Administr | ation of | | | | | 29, 30 |
| Food and Drugs, Sale of, | | n shewin | g the nun | aber of sar | noles | |
| taken for analysis | | | | | | 31 |
| Food Seized, Condemned | | | | | | 31 |
| General Observations by | | | | | 1 | 4-6 |
| Home Helps Scheme . | | | | | | 45 |
| Infantile Mortality . | | 9 | | | . 3 | 39-43 |
| the state of the s | shewing de | aths of o | children u | inder one | | |
| | i per 1,000 b | | | | | 43 |
| Infectious Diseases . | | | | | | 16-20 |
| | ing the numb | per of ca | ses of Infe | ections Di | seases | 20.20 |
| | ied from 193 | | | | - | 17 |

INDEX—Continued

| | FAGE |
|---|-------------|
| Influenza | 3 |
| Legal Proceedings, Particulars of | 32 |
| Marriages and Marriage Rate | 3 |
| Maternity and Child Welfare | 39-46 |
| Maternity and Child Welfare Centres | 45 |
| Maternal Deaths | 3, 39, 43 |
| Measles | 3, 17, 20 |
| Meat Inspection—City Veterinarian's Report | 33 |
| Midwives | 43 |
| Mortality from Four Principal Causes of Death, Trend of, from 1936 | 14 |
| Mosquito Control | 25 |
| Municipal Laboratory | 37, 38 |
| Municipal Children's Hospital, Greenisland-Report of Visiting Surge | |
| Municipal Sanatorium, Whiteabbey-Report of the Medical Superinten | ident 61-69 |
| Neo-Natal Deaths (under one month) | 3, 39, 42 |
| Notification of Births | 44 |
| Nuisances dealt with | 30 |
| Phthisis-Table shewing the number of deaths registered and the death- | |
| rate per 1,000 of the population from 1926-1945 | 15 |
| Pleurisy | 3 |
| Pneumonia | 3 |
| " Table shewing the number of deaths registered from 1926- | 1945 15 |
| Population | 3 |
| " Table shewing population each year from 1926-1945 , | 15, 16 |
| Port Sanitation—Observations by M.S.O.H | 6 |
| Port Sanitary Administration | 26-29 |
| Public Health Committee | 2 |
| Puerperal Fever | 20 |
| Purdysburn Fever Hospital-Report of Medical Superintendent . | 34-36 |
| Rainfall | 32 |
| Respiratory Organs-Table shewing deaths registered from 1926-1945 | 15 |
| Respiratory System-Tuberculosis of-Deaths and Death-Rate . | 3 |
| " Deaths from other diseases of (Tuberculosis exc | epted) 3 |
| Sanitary Report for the year | 30 |
| Scabies, Treatment of | 25 |
| Scarlet Fever | 3, 19 |
| Smallpox—Observations by M.S.O.H | . 5 |
| Squint, Treatment of | 46 |
| Tuberculosis of the Respiratory System-Deaths and Death-Rate . | . 3 |
| Tuberculosis-Report of Chief Tuberculosis Officer | 47-74 |
| " Report of Medical Director of Mass Radiography Cen | itre 55-60 |
| " Report of Medical Superintendent, Municipal Sanator | |
| " Report of Senior Tuberculosis Officer | 48-52 |
| " Report of Visiting Surgeon, Municipal Children's | |
| Hospital, Greenisland | 70-74 |
| " Returns by Medical Superintendent of Emergency | |
| Hospital, Musgrave Park | 53 |
| " Return by Medical Superintendent, Minnowburn | |
| Chest Hospital | . 54 |
| Typhoid Fever | 3, 19 |
| Venereal Diseases—Treatment of | 21-24 |
| Vital Statistics | |
| Whooping Cough | 3, 17, 20 |
| | |



