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WESTMORLAND COUNTY COUNCIL



## ANNUAL REPORT

OF THE

# COUNTY MEDICAL OFFICER OF HEALTH

THE YEAR 1954



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OF THE

# COUNTY MEDICAL OFFICER OF HEALTH

THE YEAR 1954

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#### COUNTY OF WESTMORLAND.

Public Health Department,

County Hall, Kendal.

October, 190

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my Annual Report for 1954.

#### VITAL STATISTICS

There is little change to report in the Vital Statistics from the previous year. The Death Rate for the County is 10.61 as agains the Death Rate for England and Wales of 11.3. The Infant Mortality Rate this year shows a decided improvement, 19.70 as compared with 25.5 for England and Wales. I have no doubt that this figure does not represent a progressive improvement, but that there will be considerable fluctuation from causes outside our control. The Birth Rate shows a slow but progressive decline at 13.7 as against 15.2 for England and Wales. The chief causes of death remain as before, with heart disease, cerebral haemorrhage and cancer leading in that order. Heart Disease seems to be responsible for nearly twice as many deaths as cancer and cerebral haemorrhage put together, and by far exceeding all other causes of death due to disease. Deaths due to Tuberculosis of the respiratory system have now shrunk to insignificance. (See Page 41: Tuberculosis.)

#### NOTIFIABLE INFECTIOUS DISEASES

This calls for little comment as the pattern is much the same as in previous years. There has been no Diphtheria. Measles cases were only approximately half those of the previous years. There were 7 cases of acute poliomyelitis, not including 1 paralytic case. The only case of death due to Infectious Disease was one from whooping cough.

#### AMBULANCE SERVICE.

For the first time since the start of this service there has been a decline and the Sitting Case Cars ran 246,400 miles against 275,808 miles last year. The Ambulances ran a total of 81,000 miles against 78,000 for 1953. By mutual arrangement with the Lancashire Ambulance Service a pool of Parrot stretchers is now available and these are undoubtedly very useful when patients have to be carried by rail.

#### WELFARE FOODS.

The distribution of Welfare Foods was taken over from the Ministry of Food on 28th June, 1954. Although the notice given was very short, nevertheless the staff managed to cope with the situation. A shop was established in the Stramongate School Clinic for the purpose of distributing Welfare Foods and this is working satisfactorily. In the rural areas small depots run by voluntary helpers have been established throughout the county.

#### NURSING SERVICES.

The progress in housing of the nurses still goes forward. Eight new houses have now been completed and sites for new houses at Temple Sowerby, Appleby, Kendal and Levens have been obtained. There is little doubt that provision of suitable houses for nurses has a material effect in assisting the Council to maintain the supply of nurses. A significant feature is that there are no vacancies in all the nursing districts in Westmorland.

I have the honour to be.

Your obedient Servant,

JOHN A. GUY

County Medical Officer of Health.

# PUBLIC HEALTH OFFICERS OF THE AUTHORITY IN 1954.

Other Offices.	Principal School Medical Officer	School Medical Officer	Physician Superintendent, Meathop Sanatorium	Consultant Chest Physician	Principal School Dental Officer	School Dental Officer	School Dental Officer	School Dental Officer			
Whole or Part Time.	Whole	r Whole	Part	Part	Whole	Whole	Whole	Whole	Whole	Whole	
Обісе.	County Medical Officer	M.R.C.S., L.R.C.P., (Lond.) Asst. County Medical Officer Whole	Tuberculosis Officer	D.P.H. Tuberculosis Officer	Senior Dental Officer	.S. Assist. Dental Officer	Assist. Dental Officer	Assist. Dental Officer	Mental Health Worker	Superintendent Nursing Officer	
Qualifications.	М.D., D.Р.Н.	M.R.C.S., L.R.C.P., (Lor	M.B., Ch. B., D.P.H.	M.B., Ch.B., M.R.C.P., I	L.D.S	M.R.C.S., L.R.C.P., L.D.S.	L.D.S	B.D.S		S.R.N., S.C.M., H.V.Cert	
Name.	John A. Guy	F. M. Taylor	J. Munro Campbell	W. Hugh Morton	John Irvine	A. S. Carter	A. L. Hutton (Resigned 28-2-54)	A. Parkin (Commenced 6-9-54)	P. G. Holloway	E. M. Thomas	

#### STATISTICS AND SOCIAL CONDITIONS OF THE AREA.

	a (in acres, land and inland water)			504,917
	ulation (Registrar-General's estima			22.000
	ation, mid-1954)			66,900
	al Rateable Value as on 1st April,			£478,697
	mated product of a Penny Rate (C			C1 000
LI	ne financial year 1954-55			£1,906
E	XTRACTS FROM VITAL STATIS	TICS IN T	HE YEAR	R 1954.
		Total.	Males.	Females.
Live	e Births—Legitimate	829	408	421
	Illegitimate	34	18	16
	Total births	863	426	437
	Total births		420	401
Birt	h Rate per 1,000 of the estimated re	sident popul	lation	13.7
	Birth Rate, England a			
		Total.		Females.
Still	lbirths	17	10	7
Dell	Rate per 1,000 total live a			
	Stillbirth Rate, England an		The second second	
		Total.		Females.
Dea	ths	010	400	416
	eath Rate per 1,000 of the estimate			
D	Death Rate, England and			, 10.01
Don	th from Pregnancy, Childbirth or			2
Dea	Rate per 1,000 total (live and still)			
	of calculating Maternal Morality		ie pui pose	
	Maternal Mortality Rate, England		per 1.000	
	total (live and still) births, 0.69.	a dira ii dice	, per 1,000	
Dea	th Rate of Infants under one year	of age :-		
	All infants per 1,000 live births	the state of the		19.70
	Legitimate infants per 1,000 legiti	mate live b		18.09
	Illegitimate infants per 1,000 illeg	itimate live	births	58.80
	Infant Death Rate, Englar	d and Wale	es, 25.5.	
Dea	ths from :—		1953.	1954.
	Cancer (all ages)		119	119
	Measles (all ages)		-	-
	Whooping Cough (all ages)		-	-

#### POPULATION.

		0 11
DISTRICT.	Area in acres (Land and Inland Water).	Population.  Registrar General's estimate Mid1954.
Unnus		
Urban. Appleby	1,877	1,700
Lakes	49,917	5,510
Kendal	3.705	18,490
Windermere	9,723	6,490
Rural. North Westmorland	288,688	16,500
South Westmorland	151,007	18,210
Deligione in the Land Series as find	diff of the	Para Paris
Westmorland	504,917	66,900

#### **BIRTH RATE 1953-1954**

Birth Rate per 1,000 estimated resident population.

District.	1953.	1954.
Urban.		Mad I
Appleby	 13.8	12.1
Kendal	 12.8	12.8
Lakes	 10.0	10.4
Windermere	 10.6	10.2
Rural.		
North Westmorland	 17.7	17.1
South Westmorland	 18.1	14.2
Westmorland	 14.9	13.7
England & Wales	 15.5	15.2

The Birth Rates in the table above are calculated using the comparability factor supplied for the purpose by the Registrar-General.

Live Birth:	s r	egistered	in	the	last	five	years	were	as	follows	:
Year			1	950.		1951.	19	952.	1	953.	1954.
Number	of	births		969		898	9	48	(	937	863

#### DEATH RATE, 1952, 1953, and 1954.

Death Rate per 1,000 estimated population.

District.		1952.	1953.	1954.
URBAN				
Appleby		 12.7	10.6	11.8
Kendal		 11.1	14.3	10.4
Lakes		 11.9	8.5	8.7
Windermere		 8.8	8.5	11.0
RURAL				
North Westmorl	and	 11.0	10.6	10.8
South Westmorl	and	 10.3	10.0	10.7
WESTMORLAND	2.00	 10.8	11.0	10.6
ENGLAND and WA	LES	 11.3	11.4	11.3

The Death Rates in this table are calculated using the comparability factor provided for the purpose by the Registrar-General.

The chief causes of death in Westmorland in 1952, 1953, and 1954, in order of maximum fatality in 1954, were as follows:—

			No. of deaths.	No. of deaths.	No. of deaths.
			1952.	1953.	1954.
Heart Disease			246	251	301
Cerebral Haemorrhage			100	143	151
Cancer			125	119	119
Other Circulatory Diseases			51	47	37
Violence			32	43	31
Bronchitis			20	34	27
Pneumonia			18	16	19
Digestive Diseases			15	13	11
Other Respiratory Diseases	s		2	9	10
Nephritis			13	10	8
Tuberculosis of the Respir	atory S	ystem	8	7	2
Influenza			2	5	2

# MATERNITY AND CHILD WELFARE INFANTILE MORTALITY. (Under 1 year).

Rate per 1,000 Live Births.

District.		1952.	1953.	1954.
URBAN		none con	Trebulle.	delggA
Appleby	LLI	 Nil	47.6	52.6
Kendal	1	 29.7	46.6	16.9
Lakes		 19.2	Nil	Nil
Windermere		 28.6	14.3	Nil
RURAL				
North Westmorland		 22.6	26.4	15.8
South Westmorland		 25.4	27.5	33.8
WESTMORLAND		 25.3	28.8	19.7
ENGLAND and WALES		 27.6	26.8	25.5

#### ILLEGITIMATE INFANT DEATH RATE.

Rate per 1,000 Illegitimate Live Births.

District. WESTMORLAND		65.		953. .91	1954. 58.8
ENGLAND and WALES		. 35	33	Not	available
Causes of Death in Infants u	ınder 1	year in	1954 :	(bad	Tones.
Prematurity					8
Atelectasis					2
Cerebral haemorrhage					1
Fractured skull					1
					1
Circulatory failure					
Circulatory failure Hydrocephaly					1
					1

# CARE OF EXPECTANT AND NURSING MOTHERS AND YOUNG CHILDREN

There has been no Local Health Authority ante-natal clinic in the County since the only one was closed in 1949 owing to the small use A weekly specialist clinic is held at the County Hospital. Assistance is given in a very few general practitioners' surgeries by midwives; arrangements are made locally by the practitioners and midwives for their mutual convenience. The Local Health Authority has no arrangements for blood testing the expectant mothers and the extent to which practitioners carry this out is not known to me. I am, however, of the opinion that it is not done as a routine measure There are no special clinics where mothercraft training is undertaken; this of course would be a useful adjunct to any antenatal clinic. The only mothercraft training which I am aware of is given by the district nurse/midwives in the course of their visits. Maternity outfits are supplied by the Westmorland County Council to expectant mothers and are chiefly distributed via the district nurse.

There are specialist obstetric clinics at the various hospitals serving the area (Cumberland Infirmary, Westmorland County Hospital, Lancaster Royal Infirmary); the Local Health Authority has nothing to do with these clinics. In the case of expectant mothers booking for confinement at the Penrith Maternity Home, midwives employed by the Local Health Authority are, by arrangement with the Hospital Management Committee, responsible for the ante-natal supervision. This facility has been offered to the other Hospitals providing maternity accommodation but has not been accepted.

Notification of discharge of mothers and babies is still not altogether satisfactory, with the exception of Helme Chase Maternity Home and Penrith Maternity Home, where prompt notification is received. In some cases women who have been confined are discovered some time after they have come home from hospital by hearsay information reaching the district nurse. Some improvement in this has been gradually taking place. There is, however, considerable room for further improvement here

#### DOMICILIARY MIDWIFERY

The midwifery service is provided directly by the Local Health Authority, who took into employment on the appointed day the staff of the District Nursing Associations which had previously undertaken

this work. There are 37 midwives; the Assistant County Medical Officer has been appointed medical supervisor of midwives and the Superintendent Nursing Officer has been appointed non-medical supervisor. These two officers are responsible for the supervision not only of midwives employed by the Authority but those working in Hospitals and Nursing Homes. There are no midwives engaged in private domiciliary practice. All except two of the midwives employed by the Local Health Authority are qualified to administer gas and air, and are provided with the necessary apparatus, and 25 of them are authorised to use pethidine. Midwives who have booked cases undertake the ante-natal care; where cases have been booked with medical practitioners and are to be confined at home they usually have ante-natal care by their own In one or two instances the practitioner has found it condoctors. venient to have something in the nature of a small private ante-natal clinic to which appropriate midwives who will be present at the confinements in the capacity of maternity nurse are invited to be present. The number of cases booked to be delivered by the midwife alone has seriously declined in Westmorland since the passing of the National Health Service Act. Arrangements have been made for the Local Health Authority to assist in selecting women who are to be confined in the Penrith Maternity Home; however, owing to the decrease in the birth rate there has been no difficulty whatsoever in obtaining beds for those cases wishing to go to maternity homes or hospitals. Local courses of lectures to all district nurse/midwives are arranged annually; in addition midwives are sent on approved refresher courses arranged by the Royal College of Midwives at the expense of the Local Health Authority, during which time they receive full salary.

The Statistical Tables at the end of this Report are a simplified version of the Annual Return to the Ministry.

#### **Domiciliary Confinements**

	1952	1953	1954
No. of Cases, doctor booked	146	175	168
No. of Cases, doctor not booked	121	44	9
	267	219	177

#### HEALTH VISITING

Apart from two full-time health visitors and one tuberculosis visitor employed in Kendal, health visiting is undertaken by district nurse/midwives, of whom 14 hold the health visitors certificate, the rest being employed under dispensation granted by the Ministry of Health.

To enable unqualified nurses to obtain the health visitors certificate a scholarship is awarded in alternate years under which the cost of training and maintenance is defrayed by the Local Health Authority, the nurse on her part entering into a contract to serve, after qualification, for a minimum of two years. A series of lectures is held locally during each year, and selected nurses are sent in rotation on refresher courses. There is no definite link between the health visitors services, medical practitioners and local hospitals, although some of the younger practitioners in the County are making more use of the health visitors. I do not, however, envisage that any real integration can take place until there are one or more Health Centres.

	1952	1953	1954
Total Health Visits to Infants			
under 1 year	10,433	10,499	10,725
Total Health Visits to Children			
1-5 years	13,152	17,046	16,438

#### HOME NURSING

The Home Nursing Service is provided by the district-nurse/mid-wife/health visitors employed directly by the Local Health Authority and is under the day-to-day control of the Superintendent Nursing Officer; there is more co-operation with general practitioners in the home nursing field by reason of the fact that although nurses may be called in by patients the nurses are instructed that they must not continue in attendance unless the medical practitioner has also been called in and given directions for the treatment of the case. Contact between the practitioners and the nurses is a direct one and does not come through the Public Health Office. There is very little liaison with hospitals, although occasional requests for dressings or injections are received.

No specific night duty nurses are employed, but all nurses are available day or night in cases of real necessity and no difficulty has been experienced in this direction. The Council awards one scholarship for District Training per year, and there are no arrangements for district training within this County. An annual series of lectures is arranged which includes topics specifically relating to home nursing.

#### DIPHTHERIA IMMUNISATION

Immunisation against diphtheria, previously the responsibility of the County Council and District Councils, has, since July, 1948, been the responsibility of the County Council alone. The treatment is given, either by the County Council medical staff or the general practitioners, according as the parents choose, at or before the first birthday, whilst all parents are urged to consent to their children receiving a reinforcing dose on attaining the age of 5 years.

In Kendal, which is the only town of any size in Westmorland, an immunisation clinic is held at monthly intervals throughout the year; booster injections of diphtheria antigen are given at the abovementioned clinic and also at special clinics arranged from time to time throughout the County, and in other cases following school medical inspection. Arrangements for immunisation against whooping cough are similar to the arrangements for diphtheria immunisation; the age at which immunisation is first done is approximately one year. Private practitioners throughout Westmorland have been encouraged to join in the campaign against diphtheria and whooping cough by taking part in the innoculation of young children. This has become increasingly popular amongst the doctors and has led to some interesting observations.

The success of this scheme may be judged from the fact that for the seventh consecutive year there were no cases of diphtheria notified amongst residents of the County, compared with, for example, 21 notifications and 2 deaths in 1937.

It is generally held that, to provide the required security against diphtheria, about 75 per cent. of the children below the age of 10 years should have been immunised within the last 5 years, and on this basis a fall of 272 in the number of children immunised is disappointing.

The following tables show the detailed statistics in the form in which they are now required by the Ministry of Health.

TABLE A.

Number of children who received a full course of immunisation during the year:—

		Age	e at Da	te of F	nal In	jection	:	
1	Under					5 to	10 to	
	1	1	2	3	4	9	14	Total.
Primary	350	321	29	11	19	58	5	793
Reinforcing	_	-	_	-	64	512	1	577

#### TABLE B.

Number of children at 31-12-54 who had completed a course of immunisation prior to that date:—

Age at 31-12-54	Under 1	1-4 years	5-9 years	10-14 years	Total
Born in Year	1954	1953-1950	1949-1945	1944-1940	
Last complete course of injections: (a) 1950-54	43	2,468	3,432	945	6,888
<ul><li>(b) 1949 or earlier</li><li>(c) Est. Child</li></ul>	HAT ELLE		1,389	3,245	4,634
Population	890	3,810	10,	000	14,700
Immunity Index 100xa/c	4.8%	64.8%	43.	8%	47.0%

In addition to the foregoing 76 children, for whom no records have been received, were reported by the Health Visitors to have been immunised by their Family Doctor.

#### VACCINATION AGAINST SMALLPOX.

With the coming into effect of the National Health Service Act, the Vaccination Acts, 1871-1907, were repealed, the offices of Vaccination Officer and Public Vaccinator were abolished, and it became the duty of the Local Health Authority to make arrangements for the vaccination against smallpox of all persons who need or desire this It is the duty of the Health Visitors to urge all parents to have their children vaccinated as soon as practicable after birth, and all medical practitioners in the County were given an opportunity of carrying out this treatment under the County Council's arrangements. A record of the treatment is usually sent to the County Medical Officer, and fees are payable in respect of each report received.

Lymph is supplied free through the Public Health Laboratory Service, and the Council has also taken power, in its proposals, to make such special arrangements as may be necessary in the event of a threatened epidemic of smallpox.

Details of vaccinations carried out during 1954 are:-Age at date of Under 2-4 5-14 15 yrs. vaccination: 1 year. and over. Total. 1 year. years. years. No. vaccinated 620 552 11 11 13 33 No. re-vaccinated 5 54 59

Of 863 children born in the County during the year, only 552

Total ...

679

had been vaccinated, and whilst this is a very welcome improvement on the three preceding years (65% against 50%, 47% and 31% in 1953, 1952 and 1951 respectively) it cannot be viewed with equanimity in view of the increased risk of the introduction of smallpox infection, by reason of the increased speed and range of foreign travel.

#### INFANT WELFARE CENTRES

The Local Health Authority provides 18 infant welfare centres, four of which are staffed by a general practitioner, the remainder being attended by Local Health Authority Medical Officers. The clinics range in frequency from once weekly to once per month; Kendal is the only clinic which operates weekly, whilst two others operate fortnightly. The Local Health Authority provides no specialist's clinics; there are however ophthalmic, orthopaedic, paediatric and ear, nose and throat clinics run by the Regional Hospital Board to which mothers and children can have access. The infant welfare clinics are made good use of by the mothers; the chief use is advice on general infant hygiene and feeding. Owing to the scattered nature of the population the clinics tend to be small but one feels that there is a definite need even for a small clinic.

For some years arrangements had been in force under which some Welfare Centres and some District Nurses had issued Welfare Foods supplied under the Government Scheme, but on 28th June, 1955, responsibility for this work was formally transferred to Local Health Authorities. Despite the very short notice given to the County Council of the proposed change it may confidently be stated that in general the population of the county has a service available now which is at least as convenient to them as the service which the Ministry of Food provided.

For the service available in the more remote country areas thanks are due to the many voluntary distributors, W.V.S. members, shopkeepers and others, who give of their time to handle these commodities in places where the demand could not otherwise be met.

The Local Health Authority has also made other dried milks and nutrients available at the Kendal Infant Welfare Centre, which acts as a mother centre to all the other clinics.

Details of Infant Welfare Centres in operation at the end of the year are given below.

Area.	Centre held at:	Fre	quency of Sessions.
Ambleside	 Y.M.C.A.		Monthly
Appleby	 Old First Aid Post		Fortnightly
Bampton	 Memorial Hall		Monthly
Bowness-on-W'mere	 Rayrigg Room		,,
Brough	 Oddfellows Hall		,,
Burneside	 Bryce Institute		,,
Calgarth	 Social Centre		,
Kendal	 School Clinic,		Weekly
	Stramongate		
Kirkby Stephen	 Friends' Meeting House		Fortnightly
Milnthorpe	 Institute Annexe		Monthly
Murton	 Parish Institute		"
Shap	 'Methodist Chapel Hall		lane, and the
Staveley	 Working Men's Institute		,,
Tebay	 Methodist Chapel Hall		,,
Temple Sowerby	 Church Hall		,,
Warcop	 R.A.C. Camp		,,
Windermere	 Y.M.C.A.		,,
Wickersgill	 Social Centre		,,

Once again thanks are due to the local branches of the British Red Cross Society, the St. John Organisation and all other voluntary workers for their assistance in the running of the Centres.

#### Attendances at Centres

	1952.	1953.	1954.
Under 1 year	 3,427	3,127	2,736
Over 1 year	 2,956	3,412	3,166
Average per session	 22.7	22.7	19.4

#### UNMARRIED MOTHERS AND THEIR CHILDREN.

The Superintendent Nursing Officer is now responsible for investigating and advising these cases, but it should be noted that by no means all unmarried expectant mothers come to her notice; some are dealt with entirely by the Diocesan Moral Welfare Workers, whilst in other cases the girl's family are able, and willing, to make all necessary arrangements for the confinement and subsequent care of the baby.

Births of Illegitimate Children notified Confinements in:—	 	30
Mother's own home	 	3
St. Monica's Maternity Home	 T	6
Helme Chase Maternity Home	 	6
Private Nursing Homes	 	1
Coledale Hall, Carlisle	 	1
Penrith Maternity Home	 	3
City Maternity Hospital, Carlisle	 	5
Brettargh Holt Maternity Home	 	1
Other addresses	 	4
Disposal of Infants :		
Mother keeping baby in own home	 	24
Baby in care of grandmother	 	1
Baby died	 	1
Adopted	 	2
Mother and baby at home	 	1
Brantfield Nursery	 	1

Institutional accommodation for these cases is provided under arrangements made with the undermentioned voluntary homes:—

#### St. Monica's Maternity Home, Kendal

The Home possesses 20 maternity beds, and during the year 57 maternity cases were admitted, four of whom were domiciled in Westmorland.

#### Sacred Heart Maternity Home, Brettargh Holt, Kendal

This Home has 40 maternity beds, and during the year 122 maternity cases were admitted, for none of whom the Westmorland County Council were asked to assume financial liability.

In the case of both of the Homes the apparently low number of admissions relative to the number of beds is largely explained by the fact that patients are admitted at least a month before confinement and retained for at least two months afterwards, so as to afford an opportunity for the making of arrangements for the care of the babies.

#### Care of Premature Infants

The following table gives details of premature infants born to Westmorland mothers during 1954:—

Born in Hospital					
Still-Births					5
Live Births					42
Died within	24 hours	of birth		8	
Survived 28	days	181		32	
Born at Home :					
Still-Births			20000		1
Live Births nur	sed entire		ne		7
Died within				_	
Survived 28	days			7	
Live Births tran	sferred to	hospital			_
Died within	24 hours	of birth		-	
Survived 28	days	S 10		_	
Born in Nursing Homes	EXIA RE				
Still-Births	Section 1	9 1 66	2.111	1600	Puril
Live Births			nue ana		1
Died within	24 hours	of birth	Man.	_	
Survived 28	days	***		1	

#### REGISTRATION OF NURSING HOMES

#### (Sections 187 to 194 of the Public Health Act, 1936)

There were 5 registered homes at the end of the year providing beds for 64 maternity patients and 22 other patients. They have been inspected at regular intervals.

# MOTHERS AND YOUNG CHILDREN

During the year it has again been found that there is little or no demand for clinic dental treatment by expectant and nursing mothers. One or two attended for conservative treatment and only one denture was supplied

121 children under school age were inspected at Welfare Clinics and 59 were found to require treatment. Only 37 of this number, however, accepted the offer of treatment, but the mothers of the others did say that they would have the necessary treatment done by their own family dentists.

#### TABLE A.

Expectant and Nu Children under 5		Mothe	Exami	ned.	Requ Treats 5	ment.	Treate 5 37	De d.	lade ntally fit. 5
			TABL	EB.			moH I	in one	S.
	Scalling and								
	Gum		(	Crows	n				
	Treat- ment.		AgNO3	In-		Gen. Anaes			X-ray.
Expectant and Nursing Mothers	3	12	igend s	i ber	31	6	1	1	_
Children under 5 years	_	28	38		23	18	MPS.	_	3-

#### THE PUERPERAL PYREXIA REGULATIONS

During 1954, three cases of Puerperal Pyrexia were notified to the local supervising authority.

#### DOMESTIC HELP SERVICE

When preparing their proposals under the National Health Service Act the Council, on the advice of the Minister, took advantage of their power under Section 29 of the Act, to provide a Domestic Help Service, available as far as workers can be obtained to the categories of household specified in the Act. Statistical details are shown in Table II on page 76.

The detailed day-to-day administration of this service is carried out by the Superintendent Nursing Officer and her Deputy. majority of the requests for help are met, although in one or two rural areas difficulty is experienced in recruiting workers, partly due to the fact that only very casual work can be offered. In areas where fairly full time and regular employment can be offered there is much less difficulty in recruitment. The service is at present being used to capacity and its expansion is only prevented by financial stringency. The greatest number of cases helped are old and infirm people, mostly living alone. To maintain the efficient and economical running of the service a considerable amount of visiting of patients receiving help is required for the purpose of adjusting the amount of help given. The service has attracted a good type of woman and many have been in it since it was formed in 1948. It is felt that this service is one of the most vital parts of the National Health Service and that, if it were allowed to expand, it would be a means not only of ensuring the earlier return home of hospital patients but often the avoidance of the removal to homes and hostels of many aged and infirm, though not necessarily ill, people.

#### MIDWIVES' ACT.

Total number of Midwives practising at the end of the ye	ar	58
District Nurse Midwives		38
Midwives in Institutions and in Private Practice, 20, viz.:-	HA	
(a) Westmorland County Hospital		5
(b) Helme Chase Maternity Home		8
(c) St. Monica's Maternity Home, Kendal		4
(d) Brettargh Holt		2
(e) Private Practice:		
Nursing Homes		1
Midwives' Notification Forms received during 1954	were	as
follows:—		
Notification of sending for Medical Aid		69
" Artificial Feeding	01 0.0.	143
" Stillbirth		9
" Death		0
" having laid out a dead body		11
" liability to be a source of infection	· · · · ·	8

#### Gas Air Analgesia

The Council's proposals for the provision of a midwifery service, approved by the Minister, require that all midwives shall be trained and equipped for the induction of analgesia, and the stage has now been reached where all midwives, with the exception of two of the older ones, are now trained. Should any newly-appointed midwife be untrained in analgesia, steps are taken to provide a training course at the earliest possible opportunity.

During the year midwives have induced Analgesia in 127 domiciliary cases, and at the end of the year 34 District Nurse Midwives were qualified for the induction of Gas-Air Analgesia

#### CARE OF BLIND PERSONS

Under the National Assistance Act, 1948, the County Council no longer has the power to give financial assistance to blind persons, but it is required to "make arrangements for promoting the welfare" not only of blind persons but also of the partially-sighted. Administrative responsibility for this work devolves upon the Council's Social Welfare Department, but the County Medical Officer is responsible

for advising the Committee on "all matters relating to health or medical services arising in connection with the Council's functions under the Act . . . including, in particular, arrangements for the medical examination of applicants for registration as blind persons."

All such applications are referred for examination to one of the specialist ophthalmologists with whom the Council has entered into arrangements for this work. and during 1954 33 such cases were referred, of whom 25 were certified as blind, 6 as partially sighted and 2 as neither blind nor partially sighted.

The total number of persons on the Council's register on 31st December, 1954, was 129 blind and 12 partially-sighted.

The following tables relating to the causes of blindness and treatment obtained for certain conditions is included at the request of the Ministry of Health.

#### A .- Follow-up of Registered Blind and Partially-Sighted Persons.

	Cause	e of Disal	oility.	
		I	Retrolenta	al
		Glau-	Fibro-	
the state of the s	Cataract.	coma.	plasia.	Other
(i) No. of cases registered dur-	-			
ing the year in respect of	f			
which paragraph (c) of			- 61 VE 5	
Form B.D.8 recommends	ta to notice			
(a) No treatment	. 7	O P VOID	-	4
(b) Treatment (medical,				
surgical or optical)	7	3	-	5
(ii) No. of cases at (i) (b) above	9			
which on follow-up have	Few Mar Lest			
received treatment	. 7	3	W. C. 1983	
B.—Ophtha	lmia Neon	atorum	i zatrata	COV The
(i) Total number of cases	notified dur	ing the ye	ear	_
(ii) No. of cases in which:	nianachies	ing we	as the p	desen b
(a) Vision lost .	de la company de	- Printer II.	of Name	PLACE
(b) Vision impaired	ig celusiad	Sales Sales		ducks.
(c) Treatment contin	nuing at or	d of von	,	EZ-Haz

#### MENTAL HEALTH

As advised in Ministry of Health Circular 100/47, the Health Committee has appointed a Mental Health Sub-Committee to deal with its functions, under Section 57 of the National Health Service Act, and, so far as they relate to Mental Defectives and Persons of Unsound Mind, under Section 28 of that Act.

The Sub-Committee is constituted as follows:—

Chairman and Vice-Chairman of the Health Committee 2

Members of the Health Committee (being members of the County Council) ... ... ... ... ... ... 10

Members of the Management Committees of Mental Hospitals and Mental Deficiency Institutions ... 4

Others (whether Members of the Health Committee, or the County Council, or neither) ... ... 3

On the 5th July, 1948, this Authority took over from the Cumberland, Westmorland and Carlisle Joint Committee for the care of the Mentally Defective the duty of ascertaining what defectives in the area were subject to be dealt with under the Acts, and the duty of providing supervision, care, training and occupation for defectives living in the community. Four officers have been authorised to place persons in a place of safety, under Section 15 of the Mental Deficiency Act, 1913, of whom two have also been authorised to present petitions under the Act. A part-time Occupation Centre Supervisor is also employed.

The County Medical Officer and the Assistant County Medical Officer have each been approved by the Local Health Authority under Section 3 of the Mental Deficiency Act, 1913, for the purposes of giving certificates relating to Mental Defectives. The Authority also employ a Mental Health Worker.

The Authority has undertaken, on behalf of the Regional Hospital Board, the supervision of cases on licence from Institutions who are resident within the area, and also the domiciliary visiting, as and when required, for patients in Institutions and Homes whose parents and friends are resident in Westmorland. The Mental Health Worker does any visiting which may be required on behalf of patients in or discharged from the various Mental Hospitals.

No duties have been delegated to any voluntary organisation, but the authority makes a grant to the National Association for Mental Health, from which organisation help is sought in difficult cases. The Council's Mental Health Worker is always available to advise and assist in cases of mental illness, and a psychiatric clinic staffed by the Medical Staff of Lancaster Moor Hospital is held at the Westmorland County Hospital, Kendal; the Board has now appointed an additional consultant psychiatrist for the northern part of its area, and this officer has assumed responsibilty for this outpatient work.

The Council's duly authorised officers are available not only for the removal to hospital of certified cases, but also to assist in obtaining admission of "voluntary" and "temporary" cases, and to advise on the best means of dealing with any case of mental illness.

Ascertainment of mental defectives is in general carried out by the County Medical Officer of Health and the Assistant County Medical Officer, and most cases coming to the notice of the Local Health Authority are referred to them by the Local Education Authority.

#### Occupation Centre

An Occupation Centre was opened in Kendal early in 1949 for one day each week for adult male and female patients. The numbers attending were, as expected in such a sparsely populated area, small, but progress was made in the teaching of rugmaking, embroidery, reading, writing, etc.

Both patients and their relatives are very enthusiastic regarding the progress made, and the latter appreciate being relieved of the responsibility for looking after the patients for a few hours each week. The standard of work in some cases was much higher than had been expected, whilst one of the male patients learned to make simple articles sufficiently well to continue with the work at home and to sell them at a profit.

As a result of the progress so made the Centre has now been opened for a further day per week for young defectives of both sexes.

A simplified version of the Annual Return to the Ministry, given on pages 74 and 75 of this Report, shows the number of cases for which the Council was responsible at the end of the year.

#### AMBULANCE SERVICE

As in the previous years back to 1948, the Ambulance and Sitting Case Car Service has functioned efficiently. The two services are run separately; the Ambulance Service is under the direct control of the Ambulance Officer who is also the Chief Fire Officer, while the Sitting Case Car Service is run directly by the Health Department. In former years the custom was for the British Red Cross to recruit "Voluntary Car Drivers" and to operate the Sitting Case Car Service on behalf of the Westmorland County Council.

Both the hospitals and General Practitioners have been circularised about the use of the service and both have acted fairly by both service and patient. There have been a few instances where patients have been sent to distant hospitals for treatment which could have been obtained locally. Some economy could be secured if Carlisle Local Health Authority would allow Westmorland County Council to collect patients discharged from Carlisle Hospitals to addresses in Westmorland, as the cost per mile of both ambulances and sitting case cars in Westmorland is very much lower than it is for the Carlisle vehicles. At the moment this County Borough conveys all cases for which it is entitled to charge the Westmorland County Council under section 24 of the National Health Service (Amendment) Act, 1949.

Details of the Sitting Case Car work done during the year, and for comparison figures for the preceding three years are given below:

Year.			No. of Patients.	No. of Journeys.	Total Mileage.
1954	esign, e	969	17,204	5,975	246,400
1953			19,154	6,587	275,808
1952	anda un		14,579	5,908	216,299
1951			11,534	5,783	219,208

Similar figures for the Ambulances will be found in the following Report of the Chief Ambulance Officer, for which I am indebted to Mr. Haseman.

#### ANNUAL REPORT OF THE COUNTY AMBULANCE OFFICER

I beg to submit this report on the activities of the County Ambulance Service for the year ended 31st December, 1954.

The number of ambulances in the Service remains at seven and operate from the following depots:—

Depot.		lumber nbulanc		Method of Manning.			
Kendal	4	d bina so, ceal front riques de suppli	Whole-time (5), augmented by one part-time female attendant and St. John Ambulance Brigade personnel.				
Ambleside		1	in	Retained.			
Appleby		1	No all	Do.			
Kirkby Ster	hen	1	tor Whie	Do.			

By agreement with the Cumberland County Council the Penrith ambulance gives cover to certain of our northern parishes.

#### Ambulances.

I am pleased to report that the whole of the original ambulances taken over, when the responsibility to run an ambulance service became that of the County Council, have now been replaced with more modern and efficient vehicles.

One new Bedford-Lomas ambulance was purchased during the year, replacing the 1935 Austin.

Six of the vehicles in commission are of the Bedford-Lomas type, whilst the seventh is of Morris manufacture and was, as will be remembered, the one purchased from the Ambleside St. John Ambulance Brigade.

The standardisation of the vehicles has helped considerably in the easier maintenance and delivery of spare parts when required.

#### AMBULANCES NOW IN COMMISSION.

Depot.	Make.		Year.	Mileage at 31st Dec. 1954.	Condition
Kendal	Bedford	(CEC 505)	1954	537	Good
Kendal	Bedford	(BEC 672)	1953	32,327	Good
Kendal	Bedford	(AEC 905)	1951	79,772	Good
Appleby	Bedford	(AEC 539)	1951	51,101	Good
Kendal	Bedford	(JM 9344)	1950	77,842	Good
Kirkby Stephen	Bedford	(JM 8868)	1949	78,095	Good
Ambleside	Morris	(JM 7667)	1948	34,286	Good

The greater part of the work of the Service (by virtue of whole-time men being employed) is carried out from the Kendal depot. Under such circumstances it will be seen that the mileage run by the Kendal ambulances in comparison with the other depots, is much greater over a shorter period. This will mean that eventually mileage and not age will be the deciding factor when future replacements are required.

The Committee's suggestion that an Ambulance Replacement Fund be set up will mean that money for replacement vehicles will be readily available over the period as replacements are required.

The maintenance of the Kendal vehicles continues to be very satisfactorily carried out by the Fire Brigade mechanic.

The servicing and garaging of the vehicles at Kirkby Stephen, Appleby and Ambleside is well done by the respective garages and personnel.

#### Ambulance Calls.

Patients Carried :										
Station.	No.	Infectious	Accidents	Maternity	Others.	Total Patients.	Patient Carrying Journeys.	Abortive &Service Journeys.	Total Journeys.	Mileage.
Kendal	4	27	166	103	2,098	2,394	1,823	16	1,839	48,665
Ambleside	1	-	21	4	73	98	83	3	86	3,412
Appleby	1	_	30	26	342	398	204	2	206	14,486
Kirkby										
Stephen	1	-	22	15	167	204	169	8	177	14,462
-										
	7	27	239	148	2,680	3,094	2,279	29	2,308	81,025
NOTE :-									yda	
1952	7	27	254	141	2,628	3,050	2,140	36	2,176	79,999
1953	7	42	278	167	2,882	3,369	2,378	33	2,411	78,490
						1	954.	1953	19	52.
Average miles per journey					5.11	32.56		.76		
Kendal				26	.46	24.41	27.	.86		
Ambleside					0.67	37.15	36.	67		
Appleby				. 70	0.32	65.00	72.	43		
Kirkby Stephen				. 81	.71	85.64	81	.66		
						Mary Mary	100000	Lastries.	102 101	And the state of

Included in the above are 32 journeys, with a mileage of 1,175, which were carried out on behalf of the Lancashire County Council.

#### Personnel.

At all times both whole-time staff and volunteers have carried out their duties in an exemplary manner. Only with very few exceptions has it been necessary to call upon any volunteer during the daytime at Kendal.

The Kendal Division of the St. John Ambulance Brigade has again given excellent service in providing, when required during the night, an attendant.

The efficency of the whole-time staff has been very noticeable. They have again all qualified in "First Aid to the Injured."

During the year it has been found by experience that the number of removals necessitating the providing of a female attendant has been greatly reduced and, in consequence, the Committee decided that one retained female attendant only should be retained at Kendal.

#### Accommodation.

The shortage of accommodation for ambulances at Kendal is still apparent. That part of the premises now in use by them is urgently required for fire service purposes.

It may be in the future that consideration should be given to the building of an ambulance garage and administrative centre from which the South of the County could be served.

#### Wireless.

Our Ambulance Service is one of the very few that operates without wireless-telephony communication. This means of communication with vehicles whilst away from their depot has proved, by those authorities who have it installed, a great saving of time and abortive journeys.

I respectfully suggest that the Committee do further consider the necessity of this means of communication.

#### General.

During the period covered by this report arrangements have been made with the Lancashire Ambulance Service and ourselves that a pool of "Parrot" stretchers is always available. These stretchers are for use when patients are conveyed by rail.

One of these stretchers is now available at the Kendal depot and others are available from Lancashire County Ambulance depots at short notice if required.

Without a keen and efficient staff no Service can function satisfactorily. In this I am very fortunate; the excellent work carried out by all has been very marked, and a service has been given to the Public which they now expect.

In conclusion, I offer my very great thanks to the County Medical Officer and his Staff for the help and advice so readily given. To the Brigade mechanic, Control Room and Clerical Staff who work so diligently, I say thank you.

T. HASEMAN,
Ambulance Officer.

#### ANNUAL REPORT OF THE COUNTY ANALYST

- 1.—During the year ended the 31st December, 1954, I have analysed 266 samples of Food and Drugs submitted by the Sampling Officers appointed for the County of Westmorland, under the Food and Drugs Act, 1938 to 1950 and the Defence (Sale of Food) Regulations, 1943.
- 2.—Samples of genuine quality total 218, which have been certified in this respect; 5 samples were reported as being of genuine quality but below standard, 27 were adulterated or below standard or disclosed some irregularity, 1 was of doubtful quality, whilst 1 reference sample and 14 appeal samples were also the subject of report.
- 3.—The outcome of the analysis of all samples submitted during 1954, including those samples which were not found to be of genuine quality or as showing some irregularity, is given in the following tables:—

Number of samples other than Milk received for analysis	198
Number of Milk samples received for analysis	68
	266

This indicates that during the year ended the 31st December, 1954, there was an increase of 6 samples received for analysis, as compared with the year ended the 31st December, 1953, when 260 samples were submitted.

Number of samples adulterated or b	below	standard,	or	
showing some irregularity		arris, may	12.75	27
Number of samples of genuine quality	but be	low standa	ard	5
Number of informal samples	9NE	send a ju	orill'W	6
Number of appeal samples		reid offer		14
Number of reference samples				1

#### 4. Milk.

Of the total number of Milk samples submitted for analysis during the year, 24 were found to be of genuine quality, complying with the requirements of the Sale of Milk Regulations 1939, in all respects, 5 samples were reported as being of genuine quality but below standard, 23 samples were below standard, including 3 samples of Hot Milk, one sample was reported as being of doubtful quality, and in connection with the deficient samples, one sample was taken as a reference sample in course of delivery, and 14 samples were taken as appeal to cow samples.

Of the ordinary samples which were found to be deficient in one respect or another, 10 were below standard in Non-fatty solids, 8 were below standard in Fat including one in which the deficiency in Fat was 25% when judged by the limit of 3% for Fat in Milk set up in the Sale of Milk Regulations 1939, and 2 were deficient both in Non-fatty Solids and in Fat.

The 3 samples of Hot Milk were all deficient in Fat to the extent of 30%, 35% and 66.7% respectively, calculated on the limit of 3% for Fat in Milk; in connection with these samples since the question of the effect of heating Milk upon the Fat content had not been considered before a series of experiments was carried out with Milk in order to find out what would happen under varying conditions and as a result of these investigations the conclusion was that, provided proper precautions were taken to see that the Milk was stirred there was no reason for the Fat content to drop to such low figures as those disclosed by the analyses.

The sample of Milk reported as being of doubtful quality gave analytical figures which could only be described as border line figures together with a border line freezing point; the actual figures found were:—

Non-fatty Solids 8.33%, Fat 3.00%, Freezing Point —.529 degrees Centigrade.

The only reference sample taken was deficient both in Nonfatty Solids and in Fat, but the freezing point showed that the deficiency in Non-fatty Solids was due to some cause other than the addition of water.

Regarding the appeal samples, 9 were of genuine quality, 4 were deficient in Non-fatty solids, and 1 sample was deficient in Fat.

#### 5. Other Samples

Samples of articles other than Milk submitted for analysis during the year showed that in all but 3 these samples complied with their descriptions and were of satisfactory quality in every respect, and included in these there were the following submitted for special reasons:—

Baked Beans in Tomato Sauce		100	1
Blancmange and Fruit			1
Dried Skimmed Milk	tos wo	9 91	2
Biscuits (" Nuttabisko ")			1

The Baked Beans in Tomato Sauce were found to be in agreement with their description, the samples of Blancmange and Fruit and Skimmed Milk were submitted because of some doubt as to their quality, but there was no ground for any such doubt, and the sample of Biscuits did, undoubtedly, bear a misleading statement on the label in the claim that the article was exceptionally rich in protein content, which was not found to be so in comparison with other well-known Biscuits of similar character.

A sample of Pork Sausages was deficient in meat content to the extent of 6% of the minimum which should have been present, and a sample of Tomato-flavoured Beef Sausages contained Sulphur Dioxide to the extent of 288 parts per million, which is an offence unless there is a declaration of the presence of Preservative at the time of sale.

CYRIL J. H. STOCK,

County Analyst.

## FOOD AND DRUGS ACTS, 1938-1950 ANNUAL REPORT OF SAMPLING OFFICER FOR THE YEAR, 1954.

This report covers the period 1st January to 31st December, 1954, with reference to those provisions of the Food and Drugs Acts which relate to the composition and sampling of foods and drugs with a view to securing that such articles are sold only in a pure and genuine condition. It also deals with ancillary duties allied to those parts of the Food and Drugs Acts, for which the County Council is responsible.

The administrative area includes the whole of Westmorland.

Continuing the previous arrangements, particulars of sampling duties undertaken in the Borough of Kendal are extracted quarterly and sent to the Town Clerk.

In the period under review 498 preliminary sorting tests or Gerber tests were made on milk in transit to collecting stations or to consumers' premises, and of 192 formal milk samples obtained it was only found necessary to send 68, together with 198 samples of other foods, for analysis by the Public Analyst.

The number of samples analysed by the Public Analysit was 266, of which 38 or 14.3% were classified as below standard or irregular in some other aspect. If milk samples found to be genuine but below standard might be classed as satisfactory then the figures of 38 and 14.3% would be reduced to 28 and 10.5%.

#### Milk Samples.

The milk samples analysed by the Public Analyst comprised 47 from retailers of which number 25 were below standard; 5 follow up or reference samples taken in course of delivery of which 3 were below standard; and 16 taken as "Appeal to Cow" samples, of which 7 were below standard.

Of the 35 samples below standard, 10 were classified as genuine but below standard in non-fatty solids, 5 samples disclosed fat deficiencies to the extent of 6.7%, 25%, 30%, 35% and 66% respectively, 1 sample contained 2.4% of added water and the remainder disclosed slight deficiencies either in the fat or non-fatty solid content.

Three of the samples deficient in fat were made the subject of legal proceedings and the action taken in respect of other samples disclosing irregularities was either to warn the sellers or to note the name of the vendor with a view to obtaining further samples.

#### Samples other than Milk.

The 198 samples "other than milk" were mainly foodstuffs or constituents used in the preparation of food and comprised 190 formal and 8 informal samples from 32 different commodities. Three of the informal samples classified as genuine were obtained from food used or about to be used for school meals. Particular attention has been given to pre-packed and non-pre-packed foods manufactured or pre-pared for sale or consignment in Westmorland.

Classification of Samples:

Nature.			Satis- factory.	Indicating some irregularity,	Total.
Pre-packed foods			94	1	95
Sausages		= = 15	31	2	33
Meat Products	max. Fill	- 13 mm	18	burse of vansans	18
Fish Products			6	sels by the Puls	6
Ice Cream			38	- 1	38
Other non-packed	foods		mela male	min to make the	-
Articles of a medicinal nature		8	a giller to be	8	
			195	3	198

Samples disclosing irregularities were :-

Article.	Nature of Irregularity.				
Pork Sausage	Meat content deficient to the extent of 6%				
Tomato Fla-	Failure to exhibit "Contains Preservative"				
voured Beef	notice.				
Sausage	notice.				
Nuttabisko	Misleading statement that the article was				
Biscuits	exceptionally rich in protein content.				

The action taken in each case, was to send warning letters to the traders concerned.

The following table gives a summary of the meat content and price of the sausage samples examined during the year. Detailed information under this heading is supplied to the Ministry of Food as one means of assessing the changes which have taken place since the de-control of meat products in March, 1953.

	Based on 16 samples of Pork Sausage.			Based on 1 of Beef S	THE CANADA TO SELECT ON THE PARTY OF THE PAR
	Meat content.		rice r lb.	Meat content.	Price per lb.
nou to allergate out	Weight agew	S.	d.	ndfor uniques &	s. d.
Maximum	100.00%	3	$0\frac{1}{2}$	96.00%	2 9
Minimum	61.00%	2	4	49.50%	1 8
Average National average for year ending	72.90%	2	7½	70.30%	2 2
31st March, 1954	66.10%	2	8	59.30%	1 111

#### Prosecutions.

Persons charged.	Nature of offence.	Result.
1	Hot milk 66.7% deficient in Fat	Absolute discharge
1 000000	Hot milk 35% deficient in Fat	Absolute discharge
1	Milk 6.7% deficient in Fat	Absolute discharge

# Ancilliary Duties Milk Pasteurisation Plants

Under the terms and conditions of the annual licence issued by the County Council, the only milk pasteurisers' plant in the county has been visited at least once a month. Twenty-four samples of pasteurised milk were obtained and submitted for examination by the Department of Pathology. One sample failed to pass the prescribed tests.

# School Milk.

Samples of the milk supplied, have been taken at 44 schools and submitted for examination by the Department of Pathology, Public Health Laboratory Services.

It has not been possible to visit each school in the County or to adhere to the original arrangements to obtain 4 samples per year from each of the schools supplied with undesignated milk, but the visits have been so arranged that at least one sample has been taken from milk supplied by all except 2, of the total number of suppliers of milk to schools in the County.

The results of the tests applied are summarised as follows:-

not page in and set of the Number of		imples	B. Coli.	Tests a Methy- lene Blue.	Phos- phatase.	Cavy Inocu- lated.	Total Tests.
Satisfactory		39	41	52	5	66	164
Unsatisfactory	anno	27	25	14	resigna.	IDOMES TO	39
Test Void		5	m un <u>er</u> rou	INTO STREET	DV 2-10-	Jes <u>o</u> 16%	
		71	66	66	5	66	203

Of the 25 samples classified as unsatisfactory by reason of the presence of b. coli., 12 were found to be satisfactory on the methylene blue test.

# Pharmacy and Poisons Act, 1933

The sellers of poisons listed in Part II of the Poisons List are required to obtain a licence in respect of such poisons and to comply with such provisions of the Act and Poisons Rules as relate to Part II poisons.

Statistical details are given in the table on page 38.

Of 18 infringements noted, 14 were corrected at or shortly after the time of visiting and two of the traders have ceased to sell poisons.

A quarterly examination has been made of the Poisons Registers which are required to be kept by listed sellers of nicotine and its salts, arsenical, mercurial and other poisons.

# The Labelling of Food Order, 1953

Pre-packed articles of food, when sold by retail, must, subject to certain exceptions, be marked with a statement of ingredients. The accuracy of such statements is checked on all articles submitted for analysis under the Food and Drugs Act and examinations are made when carrying out the provisions of the Sale of Food (Weights and Measures Act) to ensure that those products which require to be labelled are in fact labelled in a proper manner.

Examinations of 5,532 pre-packed articles of food have been made during the period under review.

One hundred and ten technical infringements have been noted but these were corrected at or shortly after the time of the inspection.

#### General.

A statistical summary of the records of sampling and allied duties over the past three years is appended hereto.

A. BRYANT, Chief Sampling Officer.

# STATISTICAL SUMMARY OF SAMPLING AND ALLIED DUTIES FOR THE YEARS 1952, 1953 and 1954

		1954	1953	1952
	(bological Laboratory 24 gg	Satis- factory. Doubtful,	Satis- factory. Doubtful.	factory. Doubtful.
Prelimin	nary sorting checks on milk from	ALERT OF THE PARTY	blov Jest	
	rns in transit	232 1	376 21 50	35 :
	n churns in transit	3 4	19 5	8
	n retailers	136 53		72 2
	plied to schools	66 3		55 1
81	of Petr II Potente 181 180	437 61	533 50 75	20 4
Number	of examinations of milk by Sampling		1901 - D 190	1917
Offi	cer	498	583	76
	Classification of Samples Analysed by	Public A	inalyst.	
		1954	1953	195
Milk.		Jahren Brita	enlish asti	
	uine but below standard in non-fatty	33	25	1
S	olids and market labor	7	9	
	Abtiful	1	-	
Gen.	ow standard in fat	10	5	
" A:	ppeal to Herd" Satisfactory	1 9	1	
" A	peal to Herd" Below Standard	7	1	-
Tot	al number of milk samples	68	41	3
Other 1	han Milk.			
	ormal Genuine	7	13	
	ormal showing some irregularity	1	-	
	mal Genuine mal showing some irregularity	188	199	20
	Durand or unings spudge	2	of 7 ho Re	Adne
Tot	al number of "other than milk" samples	198	219	21
Total Nu	mber of samples classified as satisfactory	228	237	22
Nu	mber of samples showing some irregularity	38	23	2
Nu	mber of samples submitted for analysis	266	260	25
200	The same are a second		- Contract of the Contract of	
Number	r of persons noted for further sampling r of warning letters sent to traders	14	5	
Number	of prosecutions	5 3	6	
	r of prosecutions pending	0	2	

Milk. Pasteurising Establishments:			
Satisfactory samples from	23	19	24
Unsatisfactory samples from		2 2	6
Total samples to Pathological Laboratory	24	23	30
Milk Supplied to Schools.			nphy
Satisfactory samples from	39	31	28
Unsatisfactory samples from	27 5	21 4	37
Total samples to Pathological Laboratory	71	56	65
Pharmacy and Poisons Act, 1933,	Modification	a bar qqu	STEEL .
Number of Listed Sellers of Part II Poisons	181	180	184
Number of visits to premise Number of infringments noted	137 18	86	66
The second secon		-	

# **CANCER TREATMENT**

The following details have been supplied by courtesy of the Lancaster and Kendal Hospital Management Committee:—

Number of	of Clinics held at Kendal du	iring th	ne year e	nding	
	31st December, 1954				12
,,	new cases seen		Julian.	20000	72
	follow-up cases seen	WAS T			210

The only duty now remaining to the County Council under the Cancer Act concerns the prohibition of advertisements relating to the treatment of cancer and to the sale of articles for use in the treatment thereof. The actual treatment of this condition now forms part of the general hospital and specialist services which it is the duty of the Regional Hospital Boards to provide.

# Deaths from Cancer, 1953 and 1954.

	1953.			1954.			
	Males.	Females.	Total.	Males.	Females.	Total.	
Urban Districts	25	36	61	29	35	64	
Rural Districts	35	23	58	26	29	55	
	Grand	Total	119	Grand	l Total	119	

# TUBERCULOSIS.

In the following table are the figures for the notifications of, and deaths from, Tuberculosis in 1954:—

oyac, by motoria. B.C.G. we	New Cases				Deaths			
Age Periods.	Respir	atory.	Non- Respiratory.		Respiratory.		Non- Respiratory.	
stey of Ha	M.	F.	M.	F.	M.	F.	M.	F.
Under 1	in—in	-	-	0.—m	(C++) (A)	11 <del>-</del> 11	E1-400	do-L
1	2	1		1 1	1	10 m		14
5	-	_	-	2	oli <del>m</del> o)		37500	10-1
15	6	6	1	1	-	ge <del>al</del> a(	-	-
25	6	6	2	1	eneur.	TO SERVICE	ALC: THE	
35	3	2	1-	3		-	ne-in	
45	4	3	1	180.11	1	1		
55	3	-	1	1	9. <u>A</u> 191	V ALTO	1	
65	2	, dans	1	00 <del>75</del> 16	1	ROUGO	arrive.	197710
75	M Imal	TODE	W_GU	E Lan	101578	C. Sand	UEUZ	
TOTAL	26	18	6	9	3	1	1	BT-Aug
1953	26	15	5	8	5	2		2

Note:—In the case of 2 of the 4 deaths recorded in this table, Pulmonary Tuberculosis was not the primary cause of death, and these cases are not, therefore, classified by the Registrar General as being due to this disease. In 1954 Westmorland patients were admitted to the following Hospitals:—

Westmorland Sanatorium, Meathop	10 113e fo	28
High Carley, Ulverston	ment. est	6
Longtown Infectious Diseases Hospital, Carlisle		1
Gateshead Infectious Diseases Hospital		1
Ormside Infectious Diseases Hospital		3
Beaumont Hospital, Lancaster		8
City General Hospital, Carlisle	20.4	4
Cumberland Infirmary, Carlisle		2
Blencathra Sanatorium, near Threlkeld		5
Seaham Hall Sanatorium	Laghay	1
Wrightington Hospital, near Wigan		5
Lancaster Moor Hospital	ţ	1
Oswestry Orthopaedic Hospital	§1.	.1
Royal Infirmary, Lancaster	25	2
TUDEDOUL ONLY COLUMN		

# TUBERCULOSIS SCHEME

The Tuberculosis work of the County is now divided between the Manchester and Newcastle-upon-Tyne Regional Hospital Boards, the former being responsible for Kendal Borough, Windermere Urban District, Lakes Urban District and South Westmorland Rural District, whilst the latter is responsible for Appleby Borough and North Westmorland Rural District.

The co-ordination of the prevention and treatment aspects of the tuberculosis problem is secured through the arrangements made by the Local Health Authority under which the Consultant Chest Physicians employed by the Manchester and Newcastle-upon-Tyne Regional Hospital Boards act as the Council's Tuberculosis Officers for the parts of the County falling under their jurisdiction for diagnostic and treatment purposes.

The Chest Physicians give general directions to the work of the Tuberculosis Visitors, and on their recommendation the Authority provides extra milk to necessitous cases, and open-air shelters where the housing circumstances and the condition of the patient warrants it.

The County Council has also agreed to accept financial responsibility for cases where admission to a rehabilitation colony or village settlement is recommended by the Tuberculosis Officers, and for patients living in and near Kendal an Occupational Therapy Scheme is in operation, under which patients have the advice of an instructor employed by the Local Health Authority and are enabled to purchase materials at concessionary rates.

B.C.G. vaccination is available under arrangements with, and on the advice of, the Chest Physicians.

I have been much interested by the statement in the report of the Ministry of Health for the year 1953, page 8, where the Chief Medical Officer makes the statement that for the fifth year in succession a substantial decline in tuberculosis mortality has to be recorded; deaths in 1953 were only 40% of what they were in 1948. The number of new cases diagnosed also shows a slight decrease.

I find that in Westmorland, the statistics, small as they are, seem to run on parallel lines, thus for the years 1938 to 1944 there was an average number of about 23 deaths per year, with an average of about 50 new cases per year. For 1954, there were 4 deaths but 44 new cases, thus there seems to have been a substantial decline in mortality, whereas the number of new cases has only slightly declined. The actual significance of this is still in some doubt and so far as I can see, only the future will be able to show us what this trend signifies.

The service in the South of the County is under the control of Dr. J. Munro Campbell, Physician Superintendent of Meathop Sanatorium, with whom the Health Department has had a long and happy association, and is centred on the Kendal Chest Clinic. In the North the service is administered by the Special Area Committee for Cumberland and North Westmorland, who have appointed as Consultant Chest Physician Dr. W. Hugh Morton, whose work is centred on the Chest Centre, City General Hospital, Carlisle, and with whom a close association has rapidly developed, to the great benefit of all aspects of the work.

Extracts from the reports of the two Tuberculosis Officers on the work in that part of the county falling within their respective districts are given below.

### NORTH WESTMORLAND

### Introduction

This report for 1954 records a considerable measure of progress in our campaign against tuberculosis. Not only has there been a most decided decline in the total number of new cases found to have extensive disease, but the number of cases found to be infectious at the end of the year has also declined.

The waiting lists have reached a new low level and, indeed at the time of writing this report (May, 1955) these are practically at zero.

Such results must not cause complacency; while it is highly satisfactory to feel that the number of infectious cases in this community show a steady decline it must not be forgotten that the absence of infection means a larger number of susceptible persons who are not only non-infectious but are completely unprotected.

Pulmonary diseases other than tuberculosis account for the vast majority of cases seen and investigated at the chest centre, and a short section on these is appended as in previous years.

# TUBERCULOSIS

#### Notifications.

In the East Cumberland area in 1954, notifications for the pulmonary type of the disease rose from 140 to 170 and the notifications of non-pulmonary disease dropped from 43 to 34. The increased number of pulmonary notifications undoubtedly reflects not only the high standard of co-operation which exists between the general practitioners and the chest centre but also the increased effort made during the year to discover new cases. Most of the increase in notifications came from the Carlisle City area, the County area only being responsible for an additional three cases.

The notification of new cases of pulmonary tuberculosis is only made when we are satisfied that there is indeed some degree of active disease. Many patients, when first seen, present undoubted radiological evidence of old disease and clinical signs confirming this, but, if we are satisfied that the disease is well healed, such cases are not notified although they remain under chest centre supervision for months or even years. I feel that the supervision of such cases is most important as anything likely to lower the patient's general resistance such as an inter-current non-tuberculous inflammatory epi-

sode may easily result in re-activation of the old tuberculous disease, and if such patients are under supervision appropriate treatment for the tuberculosis can be instituted almost immediately. Only then would such a case be notified.

Although notification of a patient as suffering from tuberculosis does not carry the same stigma as it did 15 or 20 years ago some lesser degree still remains. The conscientious patient taking out an insurance policy to cover house purchase may find that the compulsory disclosure of his having been notified as a case of tuberculosis in the past results in his proposal for insurance being turned down by the Insurance Company with relative domestic hardship. Notification therefore remains a serious matter for the patient and should only be carried out when one is satisfied beyond reasonable doubt that active disease is present.

The assessment of cases of pulmonary tuberculosis as active is, however, becoming a most difficult problem. As noted later in this report we are becoming increasingly familiar with the patient who, after adequate chemotherapy, presents evidence of cavitation but negative bacteriological findings, and the same problem has arisen in new cases who have had no previous treatment for tuberculosis. Increasing emphasis is therefore being placed on exhaustive radiological investigations and particularly tomography and bronchography in the investigation of apparently inactive cases.

On the other hand, I must stress the importance of notifying cases of active non-pulmonary tuberculosis when these are first seen. Many such cases have undoubtedly not been notified in the past, and, as the vast majority of cases of tuberculosis in this area — both pulmonary and non-pulmonary — are of human origin, this failure to notify active non-pulmonary disease allows a potential pulmonary case to remain undiagnosed and so continue to spread infection. A few instances occurred during the past year; in one case a new case of pulmonary tuberculosis was seen for the first time and close inquiry into the family history elicited the fact that a child of this patient had had tuberculous glands removed three years previously and had not been notified.

The mass radiography unit allotted to the Special Area continues to play a vital role in the discovery of new cases and has been responsible for the finding of no less than 36 of the new cases of pulmonary tuberculosis in the whole of the area covered by the East Cumberland Hospital Management Committee.

Table 1 gives the number of notifications throughout England and Wales for the years 1948 to 1954:—

TABLE 1.

Notifications in England and Wales

Year.			No	o. of notification	ıs.
1948	ingliser an	olfba		62,600	
1949	melt seed of	of ment	9200000	63,300	
1950	n Tour		1300	59,000	
1951	ommerch ale	of the same		49,440	
1952	hardsing	oil	0 200055	41,904	
1953	on weller	90 10		40,917	
1954	danosses i	rage-old	bolled	36,973	

Table 2 shows the notifications in North Westmorland for 1948 to 1954:—

TABLE 2.

Year.			Pulmonary.	Non-pulmonary
1948	010-9106	2 5d. l	17	5
1949	ment fo	sull.es	8	6
1950	29 go 6	osolo, s	12	6
1951	note yalq	ETERONO I	9	7
1952		2 27.17	22	4
1953			8	6
1954			6	5

The sex and age distribution of new cases seen during 1954 are set out in Table 3 and apply to the North Westmorland area only, the figures in parentheses being the number of cases from the whole of the East Cumberland Hospital Management Committee area, including the County of Cumberland, City of Carlisle and North Westmorland. I have added these figures in parentheses as the larger figures undoubtedly give a truer picture of the sex and age distribution of the disease as it effects the population in the East Cumberland area. I would particularly draw attention to a new feature of this table for 1954—i.e. the marked increase in the number of new cases falling in the 5 to 15 age group, particularly in the county area. Whilst in 1953 no new cases of tubercle in this group were found in the Cumberland area, there have been no less than eight cases diagnosed as suffering from tuberculosis in 1954, a most disturbing factor in these days of a welfare state.

TABLE 3.

Respirator	y. Under 5	5-15	15-25	25-35	35-45	45-55	55-65	65 plus.
Males	-(2)	-(7)	2(14)	1(12)	-(10)	-(11)	1(12)	-(7)
Females	—(1)	-(7)	-(26)	-(32)	-(13)	2(12)	-(2)	-(2)
Non-Respi	ratory.			-	1880	zimple	e ned	950HL-01
Maies	-(-)	-(4)	1(3)	1(3)	-(-)	1(2)	-(-)	-(-)
Females	-(2)	1(7)	1(6)	-(3)	—(1)	-(2)	-(2)	—(1)

The figures in this table show that so far as North Westmorland is concerned there has been no obvious alteration in the age or sex distribution of the new cases as compared to 1953. The number of cases where tubercle bacilli have been isolated has remained practically stationary. What is striking, however, is the large proportion of new cases who present definite evidence of tuberculous cavitation when first seen (see Table 4b); this number being appproximately half of the total number of new notified cases.

Although I still feel that the finding of tubercle bacilli in a patient's suptum is most important not only in diagnosis but also in treatment and prognosis, there is no doubt but that we find an increasing number of new patients with definite radiological evidence of tuberculous cavitation but whose sputum does not contain tubercle bacilli. The examination of sputum is interpreted in its widest sense as including laryngeal swab and gastric lavage examination. Such findings strongly suggest that the present classification of cases of pulmonary tuberculosis into R.A. (negative cases) and R.B. (positive cases) is completely out of date and that the only valid distinction to be made should be between those with cavitation and those without cavitation, the examination being based on the results of tomography and bronchography. I feel this distinction is particularly important in that it explains to a large extent our increasing and steady demands on the Thoracic Unit.

The distinction between those with cavitation and those without cavitation had undoubtedly been appreciated by the Ministry as it is embodied in the recent new classification of tuberculosis for mass radiography purposes.

Similar findings are increasingly found in patients who have already had chemotherapy; a cavity still persists radiologically although tubercle bacilli are no longer found on examination. Here the negative bacteriological findings are easily understood, and, together with the great improvement in the patient's clinical condition, a normal sedimentation rate and the absence of toxaemia, might lull one into accepting the disease as quiescent. Tomography would, however, reveal cavities in many such cases, and these cavities require in turn to be differentiated into those which are undoubtedly tuberculous and a potential danger to the individual concerned and those which are the end result of successful chemotherapy and are no more than a simple cyst.

It will be appreciated therefore that the observation and investigation of apparently healed cases of tuberculosis takes considerable time and may last for many months before a definite diagnosis of active disease is made.

Table 4 (a) gives the pulmonary notifications for 1954 and these are further classified as to whether they are infectious or non-infectious and also the extent of the disease which they have on first examination. The figures given apply to the North Westmorland area whilst the figures in parentheses again refer to the whole of the East Cumberland area.

# Respiratory.

TABLE 4 (a)

ologicar evidence	R.A.1.	R.A.2.	R.A.3.	R.B.1.	R.B.2.	R.B.3.
Males	-(21)	1(20)	-(4)	1(5)	1(9)	1(16)
Females	2(39)	-(24)	<b>—</b> (6)	-(3)	-(10)	—(13)
No. of above Respiratory cases referred by M.M.R.	classifie					
Males	-(10)	-(4)	-(-)	-(1)	1(2)	-(-)
Females	1(9)	<b>—</b> (5)	-(1)	-(2)	-(2)	-(-)

Table 4 (b) shows the new cases further classified into those with cavitation on initial examination and those without cavitation.

TABLE 4 (b).

Wi cavitat	th Without tion cavitation	Total	Percentage with cavitation
Carlisle City 43	3 55	98	43.88%
East Cumberland 32	2 34	66	48.48%
North Westmorland	2 4	6	33.33%
Total 77	93	170	45.29%

### Deaths.

There are still unfortunately a small number of patients on our Registers who have had extensive and active disease for many years and for whom sanatorium treatment has done little. Even in spite of the undoubted improvement which has resulted in these cases it is surprising considering their gross respiratory crippling how they have managed to survive for such comparatively long periods.

Tables 5 and 6 show respectively the number of deaths from tuberculosis in England and Wales, and for the North Westmorland area for the years 1949 to 1954.

TABLE 5.

Deaths in England and Wales

Year.				Number of deaths.
1949	9 9.1			23,320
1950				18,750
1951	n 9.	+ 3.		12,031
1952				9,335
1953		124		7,911
1954			12.	7,069
				(3 (D)

TABLE 6.

# No. of deaths in the North Westmorland area

Year.		Pulmonary.	Non pulmonary.
1949	 	2	e-
1950	 	5	1
1951	 	1	0 1
1952	 	3	_
1953	 	2	-
1954	 	8 - 8	_

The number of deaths has dropped to a new low level during 1954 and in the North Westmorland area there were none.

# Chest Centre Statistics.

Table 7 gives the number of notified cases of tuberculosis, both pulmonary and non-pulmonary, on the North Westmorland Register for 1954. The figures in parentheses in the grand total relate to the corresponding figures for 1953.

Once again it is pleasing to report a decline in the number of cases who at the end of the year were still infectious—a fall of 5 from 12 to 7.

TABLE 7

Clinic Register as at the end of 1954

# North Westmorland

in i		Respiratory	tory	Non-	Non-Respiratory	atory	H	Totals		Grar	Grand
The Branch of the Color of the	M.	W.	Ch.	M.	W.	Ch.	M.	W.	Ch.		1
Cases on Clinic Register on 1st January, 1954	28	27	2	9	18	8	34	45	10	89	(08) 68
Additions to Register during	5	2	1	4	1	TAI m Ee	6	9	2	17	17 (19)
Removals from Register during	33	32	w 1	10	19	6	43	51	12	106 (99)	(66)
Number of Cases on Register on 31st December, 1954	33	29	2	6	16	8	42	45	10	97 (89)	(68)
Number known to have had a positive sputum within the preceding 6 months	5	2	1	1	1	1	2	2	1	1	7 (12)

STATEMENT OF ATTENDANCES AT CHEST CENTRE, CARLISLE, DURING 1954. TABLE 8.

Total figures for 1953	1487	4017	1722	992	44 3019 4607 129 349 132 341 17895
	1927	4770	2010	1638	2691 4969 427 455 99 366 20348
ist Cumberl Non-res- piratory.	11 25 6	52 122 32 48		FII IIII	Managara avidason Majaji Sauksadasan Managaran
Total for East Cumberland Area. Respira- Non-res- tory, piratory.	728 850 189 135	1724 1971 489 332	458 619 466 487 125	223 687 603 140 225 382 249	45* 2691 4969 427 455 99
0.00	-	24. 28. 33.	1111 1	111 1111	
North Westmorland. Respira- Non-res- tory. piratory	37 9 9	93 36 11	7 33 21 10 m	7,7 3,1 3,7 7,7 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1,1 1	56 142 31 5 21
Z	i i i i	i i i i i	randul est	111 1111	1 1 1 bakani pod
aghts, recent	name de la constante de la con	ucidalnishu sd. syevuu sd. sweini b	Marking :	changing and	lation is rapidly outlied lid below
density description					
		III WOLOGIA		olni d volskilej naj svavičajej	mistrici inicia in i
	ind and	bici i i	at no abita	::::  ::::	
	THE SHE	ottel stere	and Others	Child Cases seen by Physiotherapist:  Female Child Case seen by Physiotherapist:  Female Child	sis: : : : : : :
		seen:-	seen:	Physic	noconic en en en only
NEW Cases seen.	99	ule Id Contacts seen:	Female Thild Schild OLD Contacts seen:	sen by	Cases of Pneumoc A.P. refills given P.P. refills given E.P. refills given examinations onl tions liary visits
EW Ca	Male Female Child	Make Female Child INEW Co	Female Child OLD Co Male	Child Cases se Male Female Child	P. refi. P. refi. P. refi. xamina ns rry vis
No of N		Adult Male Adult Femal Male Child Female Child No. of NEW C	Adult Femal Male Child Female Child No. of OLD C	Male Child Female Child No. of Cases Adult Male Adult Femal Male Child Female Child	of of of of of iratinating
Z	AAZEZ	Z	4. (4≅₹ <sup>©</sup> ,4<	r. REFAASE	6. No. 9. No. 9. No. 10. Scree 11. Asp. 12. Dom

\* This figure is already included in No. 1 (Adult Males).

#### Contact Examinations.

All contacts known to us are examined radiologically, and all children and an increasingly large number of adolescents and adults have been Mantoux tested. We continue to vaccinate with B.C.G. all negative re-actors after a double Mantoux test; not only contacts but members of hospital staffs in the East Cumberland area.

Although much work has been done in this direction there is, I am afraid, a very large loop-hole still remaining and one for which I can offer no ready solution. When a new patient suffering from the disease is first seen it is a comparatively easy matter to get his immediate family contacts along for examination. This often includes brothers or sisters who are themselves married and live in different parts of the county or city as the case may be, but in many cases the patient takes our instructions literally to mean his own immediate family, and although in his mind this may include those who have married, one finds that a married sister is not likely to be included in the list of contacts supplied, presumably because she has changed her name.

There is no doubt but that the tuberculisation state of the population is rapidly changing and that re-orientation of thought and outlook is necessary. Many tuberculin surveys have been recently carried out, e.g. in Ireland, Mid-Wales and in two London Boroughs, as well as to a limited extent in the City of Carlisle, the County of Cumberland, and North Westmorland, the survey here being confined to school children of the 5, 6 and 7 and 13-14 age groups. The striking fact about all these surveys is the startingly low number of children and adolescents found to have a positive Mantoux test. Under 10 years of age the number of children in these surveys found to be Mantoux positive has varied between 5% and 10%, whilst in adolescents between the ages of 15 and 25 only 25% to 30% are Mantoux positive. There is no doubt that this latter age group is an Young adolescents are far more important one in tuberculosis. likely to develop progressive disease at this age, and whilst it is true that the primary infection in school children usually runs a benign course it is a mistake to assume that progressive disease only occurs when they leave school. I have already quoted the figure of eight new East Cumberland school children as having been found to be suffering from active disease during 1954.

As suggested earlier in this report the number of new notifications and the number of deaths in the area do not give sufficient indication of the progress made in our anti-tuberculosis measures. The changing rate of the incidence of the primary infection in our community does, however, give some indication. At present positive re-actors in the 5 to 7 age groups have, in co-operation with the School Medical Department, been carefully investigated along with their families and whilst no new cases of active tuberculosis have been discovered as a result of these investigations, the time is rapidly approaching when positive Mantoux re-actors in school children of 5 to 7 will undoubtedly have even more significance than it has today. Some writers have even suggested that such children will in future be notified and point to the practice in Norway where only 7% of the school leavers were found to be Mantoux positive in Oslo in 1953.

The extension of B.C.G. vaccination to negative re-actors in the 13 to 14 age groups of school children by the local authority medical staff is warmly welcomed. This measure alone should undoubtedly result in a very considerable decline in the number of new cases of pulmonary tuberculosis amongst adolescents who have just entered industry. I feel, however, that the present rate of progress so far as B.C.G. vaccination goes is much too slow. There is still no protection available for the children below the age of 13 years and none for infants, who are prone to develop the acute miliary types of the disease, unless they are contacts.

The conversion rate after B.C.G. Vaccination remains high; during the year we had no case who failed to convert. I consider the post-B.C.G. Mantoux test most important. Whilst one can assume that practically 100% of our B.C.G. vaccinations will result in conversion from a Mantoux negative state to a Mantoux positive state there is always the possibility that through faulty vaccination conversion may not take place, and, should the child develop an active tuberculous lesion later, omission to do a post-B.C.G. Mantoux test would not only have serious repercussions on the B.C.G. scheme but would result in considerable difficulty in diagnosis and assessment

In contacts so vaccinated, frequent attendances for examination at the chest centre are no longer required or desirable and yearly examinations of such children are at present carried out. It is intended also duing the coming year to retest, if possible, all children who were converted five years ago when we first started. It is, however, a very different matter with those children who are Mantoux positive when first seen. The younger the child who is Mantoux positive the closer should be his supervision during the first

year or two, and it is our practice to examine such children at six monthly intervals at least. Children also require closer radiological supervision towards puberty and immediately afterwards.

#### Institutional Treatment.

Table 10 gives the number of beds available for the treatment of tuberculosis in the area covered by the East Cumberland Hospital Management Committee.

TABLE 10.

	Institution	No.	of	Beds.
d- Polynom	Meathop		12	to noiselfa et T.
	Blencathra	. 10	48	(temporary allocation)
	City General Hospital		15	
	Longtown Hospital .		23	
	Cumberland Infirmary .		10	
	Ormside Sanatorium .		20	
	Ward 7, City Gen. Hospita	al	2	
	Ward 8, City Gen. Hospita	al	2	

Table 11 gives the number of cases from the North Westmorland area admitted to institutions for treatment during 1954.

TABLE 11.

Institution.	Adults.	Children.
Blencathra	 5	_ 100
Meathop	 2	
Longtown	 4	Mary III
City General Hospital	 7	1
Cumberland Infirmary	 3	Color District
Ormside Sanatorium	 4	The state of the s

We continue to advise complete bed rest with chemotherapy for all patients. Much has been written recently about the good results of ambulant chemotherapy with the patient even at work. Personally I feel that any value in this type of treatment must be confined to cases where a diagnosis of active disease is very doubtful, or where the case is a chronic one who has had a recent minimal exacerbation. In such cases I can well appreciate the good pyschological result in allowing a patient to continue at work and yet feel that he is being treated. I very definitely feel, however, that a patient who has active disease and who is ill enough to require chemotherapy is also ill enough to be on complete bed rest.

Treatment by chemotherapy is now firmly established and consists of the administration of streptomycin along with one or other of the other anti-biotics; we prefer isoniazide. In the vast majority of cases no ill effects result from this treatment but occasionally a patient has been found to be unduly sensitive to one or other of the anti-biotics, thus necessitating the substitution of another anti-biotic, or even in a few cases desensitising against the offending anti-biotic. In suitable cases minor collapse measures such as artificial pneumothorax and pneumo-peritoneum are carried out, and we are now in a position to assess the results in cases who underwent collapse therapy in 1951 and 1952. In most of these the collapse therapy has been terminated during the past nine months and in every case the final result has been a good one. Many of the cases in whom a pneumo-peritoneum was induced during these two years have improved so much that major surgery has been possible and has now been carried out again with good results.

Since 1950 at least, all patients with pleural effusion and pleurisy considered to be tuberculous have been treated on orthodox lines with chemotherapy, and although a sufficient length of time has not elapsed to judge of our results it is worth while noting that no such case has developed further tuberculous disease to date. Tuberculous pleurisy may seem to the patient to be a mild and short lived illness but the pleurisy is undoubtedly a gross manifestation of a minor pulmonary lesion, and whilst these latter lesions may not be demonstratable on the radiograph or tomograph, statistics have in the past shown that, of such patients who are not adequately treated, some 30% return later during the five years following the pleurisy with further pulmonary disease. Some statisticians have even given the figure of 25% returning with gross pathology in a period of two Chemotherapy given in these cases has averaged three months and paracentesis has been carried out in all cases of effusion for diagnostic purposes and to relieve pressure symptoms. not advocate breathing exercises and no degree of respiratory disability has resulted.

The incidence of pulmonary tuberculosis with diabetes in this area merits special mention. During the past year we have treated eight patients suffering from both pulmonary tuberculosis and diabetes; of these four were newly notified during the year. It is estimated that throughout England and Wales there are three diabetics per 1,000 of the population and that of the diabetics about 3% show radiological and clinical evidence of tuberculosis, facts which make it imperative that all diabetics should have regular

periodic chest X-ray examinations. Treatment of both diseases is of necessity to be carried out in hospital or sanatorium, and we have looked upon these cases as emergencies in every sense of the word. Chemotherapy and the application of collapse therapy, including major surgery, has improved the prognosis in these conditions, but the prognosis in the young adolescent is still grave, particularly when, with extensive bilateral pulmonary disease, the diabetic condition necessitates the intake of over 40 units of insulin daily.

I should like to comment on the increase in the number of cases admitted to our wards for treatment of uro-genital lesions. Close co-operation is maintained with the surgical units in the treatment of such cases and our immediate results from chemotherapy have been good. This has been particularly so in disease of the genital tract in the female and follow-up guinea pig tests after treatment have been negative. In renal tuberculosis immediate results are also good and have in suitable cases made it possible for surgical treatment to be carried out. All such cases are closely followed up afterwards as it is fully appreciated that in a certain percentage positive findings recur later necessitating further chemotherapy.

Table 12 shows the waiting lists for the whole of the area covered by the East Cumberland Hospital Management Committee as at the 31st December, 1954, and the waiting list for the whole of the area for admission to one of the Thoracic Units for major surgery.

The comparatively low sanatorium waiting list undoubtedly reflects a considerable measure of success in our fight against tuber-culosis and compels us to consider afresh possible further requirements in this area.

At the present moment Blencathra Sanatorium is shared between East and West Cumberland on approximately a 50%-50% basis. With the new developments in West Cumberland and the expected early provision of a 40 bed tuberculosis unit at Whitehaven, it is anticipated that the West Cumberland demands on Blencathra Sanatorium will diminish. We have also at present 12 beds taken up by East Cumberland patients at Meathop Sanatorium, which is outwith the Newcastle Region; these beds are urgently required by the Manchester Regional Hospital Board themselves, and I anticipate that when the West Cumberland demands on Blencathra Sanatorium diminish we shall be able to give up these Meathop beds.

It is probably unwise to forecast further developments beyond this. Both Ormside Sanatorium and Longtown Hospital have long since proved their usefulness; Longtown Hospital having acted as an ancillary unit to the chest ward at the City General Hospital, and Ormside Sanatorium being our most suitable hospital for the admission of non-infectious female cases, both pulmonary and non-pulmonary. Both these small hospitals have excellent tuberculosis beds. Blencathra Sanatorium itself is, I feel, somewhat overcrowded and when circumstances permit I should like to see the space allotted to patients there come into the same category as the beds at Ormside and Longtown. This undoubtedly will mean a reductior in the number of beds at Blencathra Sanatorium.

One urgent necessity is the provision of a new chest ward at the City General Hospital; the present tuberculosis ward is well below standard and will require to be replaced by a new ward with facilities for the investigation of both tuberculous and non-tuberculous chest cases. The provision of a ward unit at this hospital is essential and as far as non-tuberculous cases are concerned our work has been, and is, seriously handicapped.

Facilities at the chest centre, good as they are, have become inadequate to cope with the large numbers of patients now attending at the centre and with their investigations, and the Regional Hospital Board have the matter of further accommodation actively in hand.

Much controversy has recently resulted in the medical press over the future place of the sanatorium in the treatment of cases of tuberculosis. The recent decision to close the Trudeau Sanatorium in the United States started this controversy, and it has gained considerable momentum from the fact that so many sanatoria in this country are situated in most inaccessible areas, thus tending to make the sanatorium a distinctly separate unit from the chest centre besides making it difficult for relatives of patients to visit. There is no doubt that were any sanatoria required today they would have to be built close to the main centres of population in an area. In East Cumberland, however, the chest centre and all our sanatoria and hospital beds are integrated into one single unit with the medical staff at the sanatorium doing regular duty at the chest centre, and vice versa, thus ensuring close collaboration and the maximum benefit to the patients concerned.

The low waiting lists both for admission to sanatoria and the Thoracic Unit are indeed gratifying; not only does the individual patient benefit considerably by early admission but it does allow the chest staff to embark on a definite programme of treatment, aiming, if possible, at complete cure. With the low major surgery waiting list one need no longer temporise in minor surgery and the result is that many patients will be able to resume work at a much earlier date than we could promise previously.

Table 13 shows the number of cases dealt with at Seaham Hall Thoracic Unit during the year 1954. This unit opened in September 1953, and the total number of cases done by the surgical team there from the date of opening until the time of writing — April 1955 — is given in parentheses. The results of major surgery continue to be good, even in border line cases which have been admitted for major surgery as a last resort.

The whole picture of therapy in tuberculosis is changing rapidly and a procedure which might have been advised in an individual case six months ago would today be substituted by another considered as giving better prospects of success. The number of artificial pneumonthorax and pneumoperitoneum inductions has greatly declined, but these are still carried out in selected cases. Whereas in 1953 no less than 55 inductions were done in the chest ward here, this number had dropped to 33 during 1954.

Our demands on the surgical unit have been heavy, but are now likely to remain on a reasonably steady level and may, indeed, diminish. Until now, one of the indications for major surgery has been the presence of a persistent cavity, but pathological and histological examinations of post-operative material has shown that some cavities which were undoubtedly previously tuberculous have become very thick-walled and even lined by firm fibrous tissue as a result of medical therapy and are thus no longer a menace to the patient and his relatives. It is obviously bad treatment to advise surgery where there is no longer any need; one has obviously to assess with reasonable accuracy the state of a cavity before surgery is contemplated. Increasing use is therefore being made of tomography and bronchography, and I can well foresee that some patients may in future be discharged quiescent and able to work even in the presence of radiologically demonstratable cavities.

#### TABLE 12.

# WAITING LISTS.

# (Whole of the East Cumberland Chest Area.)

	Males.	Females.	Childre	n.Total.
(a) For admission to hospital or				
sanatorium	13	10	3	26
(b) For admission to Thoracic				
Unit	9	3		12

TABLE 13.

COME CONTRACTOR				East Carlisle Cumberland. City.			No.			
The second second		M		F.		M.		F.	M.	F.
Thoracoplasty	6	(7)	5	(12)	5	(8)	5	(16)	— (1)	2 (2)
Resection	3	(4)	2	(3)	1	(1)	2	(2)	-(-)	1 (1)
Decortication	_	(-)	_	(-)	_	(2)	_	(1)	-(-)	-()
Extra Pleural										
Pneumothorax	1	(2)	_	()	1	(2)	1	(2)	-(-)	-(-)
Pneumonectomy	1	(1)	4	(4)	_	(1)	_	(1)	-(-)	-(-)
Pleurectomy	1	(1)	_	(-)	_	(-)	-	(-)	-(-)	-(-)
Lobectomy	-	(2)	2	(2)	-	(—)	-	(-)	-(-)	-(-)
	12	(17)	13	(21)	7	(14)	8	(22)	<del>- (1)</del>	3 (3)
			(38	1000000						(4)

#### Care and After-care.

The periodic examination of contacts has been continued during 1954 and much advice is given to patients and their families in co-operation with the local authority staff in preventing the spread of the disease. Patients continue to be admitted within a very short period after being first seen, and on completion of treatment careful supervision is carried out until he or she is ready and fit for work.

Rehabilitation Panels continue to be held every month at the chest centre and considerable time is spent in discussion in getting a fit patient into suitable employment. In this area no patient with a positive sputum is advised to return to work. Re-settlement of patients who have had tuberculosis is not a difficult matter in

this area; as a rule the psychological factor in allowing a patient to return to work is a favourable one, and apart from work involving milk and milk products patients are encouraged to return to their previous employment if their physical disability permits this. In other cases a course of training in a new occupation is instituted in co-operation with the Ministry of Labour, and the occupation chosen is always one where the local Ministry of Labour can promise a local vacancy on completion of training. This is a most important factor as many patients, particularly those with family commitments, could not be peripatetic, or in the present housing shortage risk having to seek work in another part of the country.

# Ambulance Service.

Our calls on the ambulance service remain high, largely because we continue to send patients home before their full period of graduated bed rest and exercise have been completed, this enabling us to have a larger turnover in our beds.

# Other Chest Diseases.

# Bronchiectasis.

The following table shows the number of cases of bronchiectasis on our active register at the end of 1954, the number of new cases coming on our register during the year, and the number of attendances for physiotherapy made by patients suffering from the disease.

	East Cumberland.			C	arlisl City.	E. C.	North Westmorland.		
only unlikewage on	M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.
On Register	96.00	20/7	inos	Signi	ma.	, SPARES	in an	100	MEN
31-12-53	33	23	28	48	25	15	14	4	5
New cases									
during 1954	9	5	8	9	10	13	1	100	1
Total on Register									
31-12-54	39	32	28	39	27	22	17	3	4
No. of attendances									
for physio-									
therapy	47	96	212	88	123	391	5	6	28

Full co-operation in their investigation is maintained with the Thoracic Surgeon and in a small number of cases surgical treatment has been carried out at Shotley Bridge Hospital. The results of treatment by physiotherapy continue to be good, and in many cases where this has been done conscientiously patients have improved so much that they no longer have cough or sputum and remain well.

# Asthma and Bronchitis.

Full use is again made of the physiotherapy facilities for the large number of children who are seen suffering from asthma and bronchitis. Older patients with chronic bronchitis and emphysema come into a slightly different category; whilst treatment in these cases remains essentially one of controlling the inter-current inflammatory episodes by pencillin or other anti-biotics, some of these cases also appear to be improved as a result of physiotherapy. Patients with asthma particularly appear to respond well as even if there may be emphysema present this would appear to be reversible to some extent in these cases, whereas in chronic bronchitis the accompanying emphysema would appear to be more or less permanent.

# Neoplasm.

The number of cases of pulmonary cancer seen and investigated during the year has risen and the whole problem here continues to be a most depressing one. Cases considered suitable for pneumonectomy are admitted to Shotley Bridge Hospital without delay and whilst our surgical colleagues tell us that 40 % of such cases survive for a five-year period this is a very small figure when judging the total number of cases seen. Only two out of the last 14 cases seen at the chest centre have been considered suitable for surgery.

There is no doubt that cancer of the lung is on the increase; whilst during the last 30 years some of this increase may be explained by better diagnosis and greater longevity of the population, figures in the last decade alone show that there has been an increase of about 160%. One striking feature is that this increase in lung cancer has occurred whilst the incidence of common cancer in other sites, such as the stomach and rectum shows no change, or has even declined. It is well worth noting in considering the association of tobacco smoking and cancer that there has been a relative decrease in the incidence of cancer of the larynx.

Pulmonary cancer is much more common in men than in women in a ratio of about 6 to 1 and varies considerably in its malignancy. As a general rule the older the patient is the more likely is the lung cancer to be of the squamous cell type of tumour with a relatively good prognosis so far as years of life are concerned.

The high incidence of lung cancer in the chromate industry has been noted elsewhere and there would also appear to be some increase in the incidence of cancer in iron-ore miners. Our cases here are drawn from all over the East Cumberland area and no increased incidence has been noted in any particular industry.

Controversy still exists as to the etiology of lung cancer. All one can say is that there is undoubtedly present some intrinsic carcinogenic factor and that the trigger mechanism firing it off, as it were, could be any irritant or local trauma.

# Pneumoconiosis and Silicosis.

Panels continue to be held at the chest centre in consultation with the Senior Permanent Member of the Pneumoconiosis Board. Most of these cases come from the West Cumberland area, but a few come from the Patterdale Valley in Westmorland and cases from the Alston and Newcastleton areas are also seen. The recent extension of the benefit scheme to workers who have left the industry for some considerable time has resulted in an increase in the number of cases seen. Close collaboration is also maintained with the Pathological Department as not the least interesting or important factor in this work is the study of the post mortem material.

#### Other Chest Conditions.

During the year an increasing number of cases suffering from sarcoidosis have been investigated and some of these have been admitted for treatment. Confirmation of the diagnosis is usually made by gland biopsy and in certain of the treated cases there has been very considerable improvement.

A considerable number of patients present themselves with acquired diaphragmatic lesions which necessitate extensive radiological investigation and careful assessment as to whether major surgery would be likely to improve their condition.

#### MASS RADIOGRAPHY.

(Note:—Figures given in brackets throughout the report relate to the corresponding figures for 1953).

The Unit was fully operational throughout the twelve months. Considerably more time was spent in West Cumberland than in previous years and the opportunity was taken to visit many of the smaller townships and villages in the area which had not previously received a visit from the unit. The scheme whereby National Servicemen passed through the Unit terminated in July as it was found impossible to arrange for regular weekly examinations of this group and National Servicemen are now dealt with on the Odelca Unit at the Cumberland Infirmary.

# Groups Examined.

During 1954 the Unit operated continuously throughout the Special Area and in addition to carrying out surveys at works and factories, surveys of the general public were carried out on 41 (29) occasions. 2,413 (1,407) contact cases were X-rayed, 1,839 from the East Cumberland area and 574 from West Cumberland. 314 National Service recruits were examined.

Towards the end of the year, by arrangements with the Medical Officers of Health concerned, facilities for X-ray examination were made available for all school children over the age of 13, this examination being complementary to the Mantoux testing and B.C.G. vaccination schemes of the local authorities. Full advantage was taken of the service as 4,329 (4,707) children of these age groups passed through the Unit. It is to be noted that examination of school children is only carried out after receiving the consent of the parents.

The full co-operation of the general practitioners in the areas visited was invited during each survey and the number of persons referred by general practitioners increased from 267 in 1953 to 422 in 1954. The small number of persons so referred is not unexpected as medical practitioners have a very close liaison now with the chest centre, both in East and West Cumberland, and they refer such cases direct to the chest centre.

Sessions were held for members of the general public in 33 (24) towns and villages in the Special Area. Preliminary propaganda was carried out including advertisements in the press, in local cinemas and by posters and handbills. These public sessions necessitated no prior appointment and were well attended, 20,217 (20,090) persons having passed through the unit.

#### Results.

During the year 44,471 (41,532) persons were examined by the unit. These included 1,124 (1,069) inmates of Dovenby Hall and Garlands Hospitals. Excluding the mental patients, 43,347 (40,463) civilians were examined of whom 20,776 (20,731) were males and 22,571 (19,732) were females.

Number recalled for full-sized X-ray film

... 1,990—4.47% of total examined (1,832— 4.41%)

Number referred for clinical examination

... 599—1.35% of total examined (593— 1.43%)

Number failing to attend for full-sized film

... 127—6.40% of those recalled (104—5.68%)

The detailed results of the X-ray examinations are shown in Table 1.

TABLE 1.

COM the patient mount of our	Male	. Female	e. Total.	off	entage total mined.
Abnormalities Revealed.		17.1			777
(i) Non-tuberculous conditions					
1. Abnormalities of ribs, et	c. 65	80	145(357)	.33	(.86)
2. Bronchitis and emphysem		93	198(978)	.45	(1.59)
9 Duanahiantania	. 27	34	61 (93)	.14	(.22)
	. 134		134 (90)	.30	(.22)
5. Pleural thickening	. 149	73	222(379)	.50	(.91)
Intrathoracic Neoplasms     Cardiovascular lesions	9	3	12 (9)	.03	(.02)
(a) sammanital	. 1	2	3 (3)	.00%	7 (.007
(1)	. 124	191	315(335)	.71	(.81)
8. Miscellaneous	. 85	47	132(173)	.30	(.42)
(ii) Suspected pulmonary tuberculosis					
Previously known					
	. 14	9	32 (13)	.05	(.03)
2. Inactive	4	6	10 (17)	.02	(.04)
Newly Discovered					
1. Active	52	74	126(121)	.28	(.29)
2 Inactive maintenant	122		266(416)	.60	(1.00)
3. Inactive post-primary	301	242	543(414)	1.22	(1.00)

The number recalled for clinical examination included all persons presenting radiological evidence of possible active pulmonary tuberculosis, cases of bronchiectasis, particularly those in the under 35 age groups, all neoplasms and many of the persons presenting iron ore and pneumoconiotic changes in the X-ray pictures. Clinical examinations were carried out at the chest centres.

#### Comments.

The number of persons passing through our unit has increased During 1953 a slightly smaller proportion of the unit's time was spent in West Cumberland as the chest centres there were only becoming fully organised; as a result of our findings in 1953 that there appeared to be a greater incidence of tuberculosis in the West Cumberland area, the proportion of time spent in West Cumberland during 1954 was very greatly increased, 139 days being spent there as against 109 days in the East Cumberland area. This increased time in West Cumberland has resulted in a very satisfactory increase in the total number of examinations carried out and it is satisfactory to note that whilst the time in the East Cumberland area has been drastically cut this has not been reflected by a reduction in the number of examinations in this area, the number examined still exceeding those examined in the West Cumberland area. an increasing number of groups and individuals in the whole area are coming to look on a mass radiography examination at yearly intervals as a "must," and we are now in the happy position of having difficulty in fitting into the programme certain groups who want to be examined.

During the year the unit took a heavy load off the chest centres by examining a larger number of contacts. 1954 also saw the inception of the B.C.G. scheme in school children by the local authorities and the mass X-ray examination of these children which started towards the end of the year has progressed smoothly in full cooperation with the Medical Officers concerned.

During the year Mr. Ritchie and I have undertaken a series of intensive propaganda campaigns in the East Cumberland area aimed principally at securing a 100% response in the factories we visited.

Unfortunately, in spite of very careful preparation and highly concentrated effort about a week or ten days before the projected survey the results were most disappointing and the percentage response in the factories visited in this way, while showing a slight increase, did not nearly approach the 100% mark. There remains a hard core of workers in each factory who are either afraid to or will not pass through the unit during the survey. Two redeeming features of our campaign were noticed however. On carefully checking our figures we found that in spite of the small increase, a large number of the examinees had never passed through the unit before and we also discovered that a proportion of the employees who failed to attend while the unit was operating at the factory attended later at Whilst naturally the total number examined in public sessions. these factories gave rise to a keen sense of disappointment, the result of closer analysis makes us feel that the policy of carrying out mass radiography surveys in these factories at yearly intervals is fully justified. As the present older age groups retire and younger individuals who have previously passed through the unit whilst at school take their place in industry, we should get eventually a 100% response.

Analysis of persons passing through the unit since it commenced operating in 1951 shows that of the total population of 300,000 in the Special Area, approximately 100,000 have passed through the unit. As very few children under the age of 13 are examined, this means that more than 40% of the adult population have availed themselves of the mass radiography service at some time during the past four years.

Mass radiography continues to be an integral part of the chest service and in examining large numbers of people is the most potent diagnostic agent at our disposal. I would again emphasise, however, that the results of this service cannot be assessed on the number of abnormalities found nor on the number of new cases of active tuber-culosis discovered. Important though these figures are it is no less important to be able to give an assurance that so large a proportion of the general public have normal chest X-rays.

Again, even in spite of a normal X-ray report, I must stress that should chest symptoms develop in an individual later, that individual should seek further medical advice from his own doctor. I make no apology for repeating this statement.

# Acknowledgments

Once again it is a pleasure to acknowledge the valuable help received in the chest centre work as a whole from the Staff of the County Health Department, and particularly I would express my sincere thanks to Dr. J. A. Guy, the County Medical Officer, for his continued valuable co-operation.

Table 2 gives a detailed analysis of the work of the Unit in the East Cumberland area.

TABLE 2.

			IAD	LE Z.				ro s	to Burn
THE STATE OF THE S		EAST	CUM	BERL	AND.		7,00		110
Source of examination.	Miniature Films.	Large Films.	Clinical Exams.	Active T.B.	Inactive T.B.	Bronchiectasis.	Neoplasms.	Pneumoconiosis.	Cardiac Conditions.
Doctors' cases Ante-natal cases Contact cases National Service	151 247 1839	33 9 64	14 1 15	$\frac{3}{2}$	9 1 36	4 - 1			5 1 9
Recruits Scholars School Staff	314 2352 284	13 39 10	1 7	=	9 10 5	4	=	=	
General Public Surveys Mentally defective	9209 8713	409 360	101 82	19 10	162 181	11 16	6	1	111 60
patients	829	69	29	15	25	3	_		30
Totals	23938	1006	250	49	438	39	6	1	217

W. HUGH MORTON, Consultant Chest Physician.

# SOUTH WESTMORLAND

The Chest Clinic is now at the Ghyll Head Annexe, Westmorland County Hospital, and the sessions have been carried on as before—Friday, 11 a.m. for review and consultation, and on Tuesdays at 4-30 when a refill clinic is held as well as a review.

The following table indicates a comparative picture for the past 5 years, with a general tendency to decreasing figures:—

				10.00			1 329				
		19	950,		1951.	- 10	1952.	00.00	953.	1103	1954
(1)	No. of persons first examined during year		369		310	l'	250		296		34
(2)	No. of persons in (1) who were contacts		99		95		61		99		9
(3)	No. of new cases diagnosed as tuberculous		37		43		22		34	381	2
(4)	No. of cases in (3) who were contacts		5		3		5		3	9 1	97
(5)	No. of cases on Clinic Register at 31st Dec		257		280	100	286		298		27
(6)	No. of cases in (5) who had positive sputum between 1st July and 31st Dec.	£	43		39	100	37	20	28	alium arai arai arai arai	1
(7)	Health visitors' visits (a) to new				Ages	100	u. R	BILL	20	et la	Test
	(b) to old	554 1452 —— 2			2592		2416			184 1706	189

The attendances at the Clinic were down appreciably at 1,970, as also were the refills at 721 — this latter largely due to the more common and more frequent use of antibiotics.

One of the few increasing figures is the number of radiographs taken, which this year number 762, whilst screening was carried out on 1,723 patients. Tuberculin tests done at the Clinic numbered 108 and B.C.G. was given to 27 children.

The running of the Clinic and all the Health work in connection with it is efficiently conducted by Mrs. D. Williams, S.R.N.

The No. 5 Unit of the M.M.R. visited South Westmorland area in May, 1954.

Hospitalisation of patients was at Westmorland Sanatorium, Meathop, and Beaumont Hospital, Lancaster, whilst most major surgery cases were dealt with at High Carley.

#### WESTMORLAND SANATORIUM TABLE.

	1952			1953			1954		
South Westmorland patients	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.
in Meathop at 1st January	10	9	19	8	9	17	7	4	11
Admissions during year	11	10	21	13	10	23	14	12	26
Discharges during year	13	10	23	14	15	29	14	8	22
South Westmorland patients in Meathop at 31st Dec- cember	8	9	17	7	4	11	7	8	15

Of the 22 discharges (average stay 193 days) it is noted that practically all had at some time during their stay Streptomycin along with either P.A.S. or I.N.A.H. — no definite course has been laid down in this form of treatment, but the tendency is to give more concentrated courses for such periods as may be considered desirable in individual cases. Pneumoperitoneum and Artificial Pneumothorax have also been continued with in a lessening number of patients, but these treatments, though perhaps selection has tightened, do still hold a definite place in the successful treatment of pulmonary tuberculosis.

The Visiting Consultant Thoracic Surgeon (Mr. J. S. Glennie) comes for discussions every three weeks, and also carries out bronchoscopic examinations when required. Mr. N. C. Scott has carried out the thoracoscopy and phrenic operations.

#### J. MUNRO CAMPBELL,

Consultant Chest Physician.

### No. 5 MASS RADIOGRAPHY UNIT

Report on Surveys carried out in South Westmorland (Survey Nos. 32 and 34 — 43).

20th April - 6th July, 1954.

This was the Unit's second visit to South Westmorland. The previous survey was in 1950-51 when 7,601 persons were examined as compared with 11,251 during the survey under review. During this latter survey, the Unit operated from 13 different sites, as listed below:—

Somervell Bros. Ltd., Low Mills, Kendal.
Somervell Bros. Ltd., Netherfield, Kendal.
Zion Sunday School, Highgate, Kendal.
Village Hall, Burneside.
Village Hall. Staveley.
St. John's Rooms, Windermere.
Lakes Urban District Council Offices, Ambleside.
Heversham Grammar School, Heversham.
Memorial Hall, Milnthorpe.
Institute, Kirkby Lonsdale.
Oakfield School, Kirkby Lonsdale.
Casterton School, Kirkby Lonsdale.
Queen Elizabeth School, Kirkby Lonsdale.

Open sessions were available to the general public at Kendal, Burneside, Staveley, Windermere, Ambleside, Milnthorpe and Kirkby Lonsdale, and the response was very encouraging. 3,475 members of the general public attended at these centres, which is considered to be most satisfactory in view of the widespread rural community covered. The following table gives the total examined in their age groups:—

Age Groups.		Males.	Females.	Total.
14 years and under	 	1,171	1,181	2,352
15-24 years	 	913	1,610	2,523
25—34 years	 	1,090	984	2,074
35—44 years	 	899	846	1,745
45-59 years	 	1,013	1,027	2,040
60 years and over	 	251	266	517
		5,337	5,914	11,251

These 11,251 examinees can be divided into the following classes:—

		Males.	Females.	Total.
Employees attendin	g Unit in	TRUE WAY	ner stances series	t interest
organised parties	from firms	2,985	2,192	5,177
General Public		1,004	2,471	3,475
School Children		1,348	1,251	2,599
		-		
	Totals	5,337	5,914	11,251
		100000		

After the initial miniature films, the following recalls were made:—

	Males.	Females.	Total
Number recalled for large films	236	256	492
Number recalled for interviews or clinical examinations by			
Medical Director	28	21	49
Number recalled for screening	1	2	3

Of the 11,251 persons X-rayed, 10,262 were classified as normal. The remaining 989 consisted of persons with tuberculous abnormalities or other abnormal chest conditions.

# **ACTIVE TUBERCULOSIS**

15 persons were found to have Active Tuberculosis, equal to a rate of 1.3 per thousand examined. Of these, 3 demonstrated positive sputums. The table below shows the cases of Active Tuberculosis in their age group together with the rate per thousand for each group:—

100	14 years and 15-24 25-34 35-44			35-44	45-59		
	under.					over.	Total
No. of Male Active cases found	 1	_	3	1	4	_	9
Rate per thousand examined	 0.9	i sindi	2.8	1.1	3.9	10 ml 7/	1.7
No. Female Active	 -	4	2	_	_	_	6
Rate per 1,000 examined	 -	2.5	2.03	-	-	_	1.01

### INACTIVE TUBERCULOSIS

299 persons were classified as having Inactive Tuberculosis, 291 of whom were subsequently regarded as healed and no further action considered necessary. 7 are continuing under observation at the Chest Clinic and 1 removed or was lost sight of.

### NON-TUBERCULOUS ABNORMALITIES

Apart from Tuberculosis, abnormal chest conditions were found in 675 instances. The majority of them were not considered to warrant any further action, but some were either referred to the Chest Clinic or to their own doctors. These are listed below:—

Chronic Bronchitis and Em	physema			1
Broncho-pneumonia				1
Consolidation of unknown	cause			4
Bronchiectasis				21
Pulmonary Fibrosis				4
Pneumoconiosis				2
Basal Fibrosis				2
Pleural Thickening				4
Intrathoracic new growth				2
Cardio-vascular lesion acqu	ired			23
Miscellaneous:				
Hydated Cyst				1
Giant Cyst (lung)				1
Diaphragmatic Hernia				3
Lipoma				1
Retro-sternal thyroid				2
Aneurysm				1
Abscess of Lung	ter			1
THE SERVICE OF THE PARTY.				
		To	tal	74

### SCHOOLCHILDREN

Of the 2,599 schoolchildren X-rayed during the survey, 76 were found to have abnormal chest conditions.

One boy had Active Tuberculosis and he received domiciliary treatment.

30 children had Inactive Tuberculosis, but in each case it was subsequently regarded as healed and no further action taken.

The remaining 45 chest abnormalities amongst the schoolchildren were non-tuberculous and in 36 instances no action was taken. 9 children were referred to their own doctor or to the Chest Clinic and these are listed here:—

Consolidation of Unk	nown	Cause			1
Bronchiectasis					6
Broncho-Pneumonia					1
Abscess of Lung					1
					-
			To	tal	9
					TALLE .

### Comments.

This is a very satisfactory survey showing an increase in numbers of some 3,650 over the original survey, these numbers probably being due to more central premises being obtained in Kendal and the increased mobility of the Unit.

I feel that this encouraging response from the general public could be further increased by the distribution of a letter to householders in remote country districts. These could be delivered with the Rate Demands.

The Tuberculosis rate of 1.3 per thousand for this area of rural Westmorland, including the Lake District, may be regarded as significant, showing the necessity for these Rural Surveys.

Another feature of the Survey is the large number of cases of bronchiectasis discovered.

In conclusion, I wish to express my thanks to Dr. J. Munro Campbell, the Consultant Chest Physician, for his assistance, and also to the staff of the Hospital Management Committee.

J. L. CAPPER,

Medical Director.

1st July, 1955.

### **BOVINE TUBERCULOSIS**

The Tuberculosis Order, 1938, is carried out by the Divisional Inspector of the Ministry of Agriculture and Fishers, in co-operation with the County Police.

During the period 1st January to 31st December, 1954, 6 animals were slaughtered under the above Order as follows:—

Cows in Milk :-

3 excreting or discharging tuberculous material.

1 suffered from chronic cough.

2 T.B. udders.

Compensation to owners is paid by the Ministry of Agriculture and Fisheries.

### MILK SUPPLIES

The Milk and Dairies (Food and Drugs) Act, 1944, remained in abeyance from the date of its enactment until 1st October, 1949, on which date the County Council ceased to be responsible for the licensing of producers of Tuberculin Tested and Accredited Milk.

This Act and the Regulations made thereunder brought about the following position:—

The Minister of Agriculture and Fisheries is now responsible for:—

- (i) The registration and supervision of dairy farms.
- (ii) The licensing and supervision of producers of Tuberculin Tested and Accredited Milk.

The County Council is responsible for:-

The licensing and supervision of pasteurising and sterilising premises.

The County District Councils are responsible for :-

- (i) The registration and supervision of milk distributors and dairies, other than dairy farms.
- (ii) The licensing of dealers of designated milk.

The Regulations also laid down detailed requirements in the matters of cleanliness of dairies, milk containers, retail vehicles and milk handlers, as well as methods of sampling and testing milk. The powers of Medical Officers of Health to deal with the problem of milk-borne infectious diseases are also strengthened.

It is further provided that all licences to use the designation "Accredited" shall lapse on 30th September, 1954, and shall not be

renewable; no new licence to use the designation "Tuberculin Tested" will be granted after 30th September, 1954, unless the herd is Attested, and after 30th September, 1957, all "Tuberculin Tested" licences still in force will apply only to attested herds.

A further stage in the campaign to secure a safe milk supply was reached with the enactment of the Milk (Special Designations) Act, 1949, which provides that in areas specified from time to time by the Minister, no milk may be sold by retail unless it carries one of the special designations.

Licences to pasteurise milk have been granted in respect of one establishment in the County, and routine sampling of the treated milk is carried out by the Weights and Measures Department of the Council.

### TREATMENT OF VENEREAL DISEASES.

Treatment of Venereal Diseases has now passed to the Regional Hospital Board. The problem of V.D. has never been a large one in Westmorland. The establishment of the Kendal Clinic has had a useful part to play. The journey to Lancaster, Barrow or Carlisle has deterred a number of patients from having regular treatment, with the result that there was an increase in the number of defaulting patients.

Westmorland cases treated at the following Centres for the year ended 31st December, 1954, are as follows:—

### New Cases.

Centre.	- Au	Syphilis.	Soft Chancre.	Gonorrhoea.		Total number of cases
Carlisle		_	_	_	4	4
Kendal		3	-	2	7	12
Lancaster		1	/	1	4	6
		-	_	-	Total Transfer	_
Total		4	-	3	15	22
			_	_		

### STATISTICAL TABLES.

The following tables are a simplified version of the Annual Returns now required by the Ministry of Health:—

### MENTAL DEFICIENCY ACTS, 1913-1938.

### Particulars of Cases Reported during the Year 1954.

Ascertainment.			
	Males.	Females.	Total.
(a) Cases reported by Local Education Authority:—			
(i) As ineducable	5	1	6
(ii) As needing care and super- vision after leaving school	_	- January	Mills w
(b) Other cases found 'subject to be dealt with "	K-TA		_
(c) Other cases ascertained but not "subject to be dealt with	_	_	-
	-	_	-
TOTAL cases reported during the year	5	1	6
	-	-	-
Disposal of cases reported during the Year.			
	Males.	Females.	Total.
(a) Ascertained defectives found 'subject to be dealt with ":—	Males.	Females.	Total.
	Males.	Females.	Total.
to be dealt with ":	Males.	Females.	Total.
to be dealt with ":—  (i) Admitted to Institutions	Males.	Females.  — 1	Total.
to be dealt with ":—  (i) Admitted to Institutions  (ii) Placed under Statutory	-	Americanta Mencil 2018 — 1929	beben
to be dealt with ":—  (i) Admitted to Institutions  (ii) Placed under Statutory  Supervision	-	Americanta Mencil 2018 — 1929	beber
to be dealt with ":—  (i) Admitted to Institutions  (ii) Placed under Statutory  Supervision  (iii) Died or removed from area	- 4 -	Americanta Mencil 2018 — 1929	- 5 -
to be dealt with ":—  (i) Admitted to Institutions  (ii) Placed under Statutory Supervision  (iii) Died or removed from area  (iv) Taken to "Place of Safety"	- 4 -	Americanta Mencil 2018 — 1929	- 5 -
to be dealt with ":—  (i) Admitted to Institutions  (ii) Placed under Statutory Supervision  (iii) Died or removed from area  (iv) Taken to "Place of Safety"	- 4 -	Americanta Mencil 2018 — 1929	- 5 -
to be dealt with ":—  (i) Admitted to Institutions  (ii) Placed under Statutory Supervision  (iii) Died or removed from area  (iv) Taken to "Place of Safety"  (v) Action not yet taken	- 4 - 1 -	- 1 - - -	- 5 - 1 -
to be dealt with ":—  (i) Admitted to Institutions  (ii) Placed under Statutory Supervision  (iii) Died or removed from area  (iv) Taken to "Place of Safety"  (v) Action not yet taken	- 4 - 1 -	- 1 - - -	- 5 - 1 -
to be dealt with ":—  (i) Admitted to Institutions  (ii) Placed under Statutory Supervision  (iii) Died or removed from area  (iv) Taken to "Place of Safety"  (v) Action not yet taken  Total  (b) Cases not at present "subject to be	- 4 - 1 -	- 1 - - -	- 5 - 1 -

### Particulars of Mental Defectives on 31st December, 1954

	Males.	Females.	Total
(1) Number of Defectives found "subject to be dealt with":—			
(a) In Institutions—			
Under 16 years of age	3	7	10
Aged 16 years and over	52	41	93
(b) Under Guardianship—			
Under 16 years of age	_	-	_
Aged 16 years and over	_	1	1
(c) Under Statutory Supervision—			
Under 16 years of age	11	7	18
Aged 16 years and over	11	16	27
(d) Taken to "Place of Safety"-			
Under 16 years of age	1	NAR GLAS	1
Aged 16 years and over			-
(e) Action not yet taken under			
(a) to (d) above	-	- (5)	_
	-	-	W 200
TOTAL number of defectives "subject			
to be dealt with "	78	72	150
Included in (b) to (d) above are 3 ca awaiting removal to an Institution.	ases (al	l male) w	ho are
(2) Number of Defectives under Voluntary Supervision:—			
	Males.	Females.	Total.

	Males.	Females.	Total.	
Under 16 years of age	-	un <del>zo</del> nne	SHOR	
Aged 16 years and over	10	20	30	
	_	-	_	
Total	10	20	30	
		SOUTH SERVICE	No. of	
TOTAL number of defectives (1) and				
(2) above	88	92	180	
Aged 16 years and over	25	41	93	

TABLE 1.

### ANTE-NATAL AND POST-NATAL CLINICS.

	No. of clinics rovided	No. of sessions per month	No. of Women who attended.	No. of women in col. 4 who had not attended a clinic since previous confinement.	Total attendances
(1)	(2)	(3)	(4)	(5)	(6)
Ante-natal	 _	22-29-20	SUL 51	AMBRIDA -	-
Post-natal	 -	_	_	_	-

### TABLE II.

### DOMESTIC HELPS.

(a)	Number	of Domestic	Helps emp	loyed	at 31st Dece	ember	, 1954 :	-
	(1)	Whole-time			m		(a)	3
	(2)	Part-time			le (m) et (			33
(b)	Number	of cases whe	re Help w	as pro	ovided :-			
	(1)	Maternity						45
	(2)	Tuberculosis						1
	(3)	Chronic sick	including	aged	and infirm		district.	133
	(4)	Others			lanker of I			29

### TABLE III.

### HOME NURSING.

00 00	Medical.	Surgical.	Infectious Diseases.			Totals.
No. of cases attended during year		1,172	32	38	34	4,358
No. of visits paid during year		13,820	155	1,310	336	74,084

### TABLE IV.

INFANT WELFARE CENTRES.

Total	dances.	5,902
made by of attend-	2-5 years.	1,877
No. of attendances made by children who at date of attend- ance were:	1-2 years.	1,289
No. of a children w	Under 1 yr.	2,736
Total	attended	1,115
attended	1952-49	510
No. of children who attended and who were born in :	1953	308
No. of ch and	1954	297
No. of Children who at first		366
No. of	-	26
· N	pa	18

TABLE V.

C	5
2	2
-	7
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	d

\LTH	HEALTH VISITING.	G								
jo .		mothers	Expectant mothers   Children under 1 yr.	nder 1 yr.	Children	Children	Tol	Other		Visits to
children	The second second	Section 1535	of age.	ge.	1-2 yrs.	2-5 yrs.	splou	cases	Total	tuberculous
5 yrs. visited.	First visits.	Total visits.	First visits.	Total visits.	Total visits.	Total visits.	Total visits.	Total visits.	visited.	nousenoids by T.B. visitors
417	N 12 18	10-11E.	815	10,725	6,790	9,648	981	4,081	4,603	1,668

TABLE VI.

# MIDWIVES' ACT, 1951—RETURN OF LOCAL SUPERVISING AUTHORITY.

## 1. Maternity Cases Attended.

The second and depth of the later of the lat	No. of delive	ries in the area at	of deliveries in the area attended by Midwives during the period:	during the period		
		Domicili	Domiciliary Cases.			
	Doctor not booked.	t booked.	Doctor booked.	booked.	Totale	Cases in
	Doctor present at delivery.	Doctor not present at delivery.	Doctor present at delivery.	Doctor not present at delivery.	10000	tions.
Midwives employed by:  (a) the Authority	8	9	73	95	177	
(b) Voluntary Organisations	1	1	-	1	1	151
(c) Hospital Management Committees	1	1		1	1	506
Midwives in private practice	1	-	-	1	1	20
Totals	3	9	73	95	177	677

2.	Mid	wive	s in Private Pr	actice.				
		(a)	Domiciliary					
		(b)	In Nursing Ho	mes			1	
								- 1
3.	Med	ical	Aid under Sec	tion 14	(1) of the	Midwivec	Ant 10	
	No.	of	cases in which	medical	aid wa	summone	d during	the
per	iod :-	_ \		medica	did wa	Summone	u during	the
			For Domicilian	v cases:				
			(i) Where	Carried State of the Control of the		ctitioner h	ad	
						e Matern		
						tional Heal		
				e Act, 1			23	
			(ii) Other c			Assessed 1	14	
								-
		(b)	For cases in I	nstitution	ıs			35
4.	Adm	inie	ration of Amal	racia				-
Τ.	Aum							
		(4)	Number of Mi	minister	Applactic	e in the ar	ea	
			(i) Domicili				24	
			(ii) In Insti				34	
			(11) III IIIStI	tutions			15	
		(b)	Number of set	s of Anal	gesic any	aratus in u	-	49
		(~)	by the Author					01
		(c)	Number of ca					31
		(0)	administered i	n domici	liory pro	and air w	as	
			(i) when do				70	
			(ii) when do				72	
			(11) WHEII GO	cioi wa:	present	B		107
		(b)	No. of cases	in whice	h nathid	ino was a	-	127
		( - /	ministered in				d-	
			(i) when do	ctor was	not practi	ent	19	
			(ii) when do				13	
			()	croz was	present		25	20
				TABL	E VII			38
AM	BUL	ANC	E SERVICES.					
-						No. of		
			No. of		_	No. of emergency	Total	
				Total No.	Total No. of	patients included	mileag	
	(1)		31-12-54. of	patients.	journeys	s. in col. (3)	period.	
Ami	bulan	ces	7		9.411	(5)	(6)	-
Car		ces	See below*	3,369 19,154	2,411	278	78,49	
-			pec pelow.	19,104	6,587	222	275,80	18

NOTE:—\* The Sitting-case Car Service was provided by voluntary drivers and by taxis.

Acute Infect. Encephalitis	1	1	1	1	1	1	1	2
Food Poisoning	1	1	1	1	2	1	2	11
Meningococcal Infection	1	2	100	1	1	2	5	2
Whooping Cough	7	20		11	22	55	115	171
Measles	61	ıc	13	218	236	6	542	9 42
Ophthalmia Meonatorum	1	1	1	1	1	1	1	1
Puerperal Pyrexia	1	3	1	1	9	1	3	5
Dysentery	1	21	1	1	1	1	2	35
Acute Polio- Encephalitis	1			1	1	1	1	
Acute Poliomye- litis Paralytic	1		1	1	1	1	1	9
Acute Poliomye- litis non-Paralytic	1	4	1		1	2	7	1
Acute Pneumonia	-	-	10	-	4	1	7	33
Other Forms of Tuberculosis	2	4	1	1	3	9	15	13
Pulmonary Tuberculosis	4	14	co	c	5	11	44	41
Erysipelas		2	1		1		12	11
Paratyphoid Fever	1	1		1	1	1		
Scarlet Fever	1	3	3		9	11	24	41
Smallpox	-	-	1	1	1	1	1	1
Anual Assessment of the control of t	Appleby	Kendal	Lakes	Windermere	N Westmorland	S Westmorland	Totals 1954	Totals 1953

Encephalitis

Infect. Acute CI CI Food Poisoning NOTIFIABLE DISEASES (OTHER THAN TUBERCULOSIS) DURING THE YEAR 1954 Infection O 10 3 Meningococcal Cough 115 10 49 3 23 30 Whooping 542 12 122 01 CI Measles 284 33 8 81 Neonatorum. Ophthalmia Pyrexia. 3 3 3 Puerperal Dysentery CI CV Encephalitis Acute Poliolitis Paralytic AcutePoliomyenon-paralytic OI OI 1 1 Poliomyelitis Acute Pneumonia. 3 3 1 Acute CI CI Erysipelas. Fever Paratyphoid 9 CI 4 24 Scarlet Fever. Smallpox. Total Cases notified 25 years and over Cases admitted to Hospital . 1-2 Years Age unknown : : Total Deaths Under I year Ages. 10-14 15-24 3-4 5-9

NOTE: The deaths shown above are only in respect of cases which have been notified



