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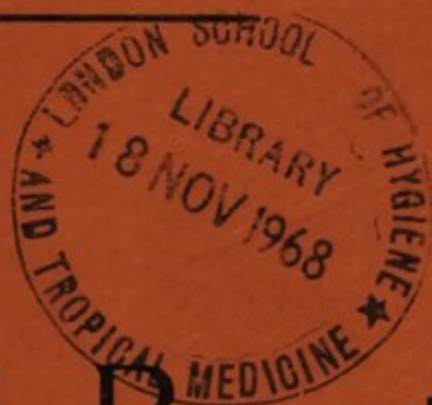
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Carmarthenshire County Council

EDUCATION COMMITTEE



Annual Report

OF THE

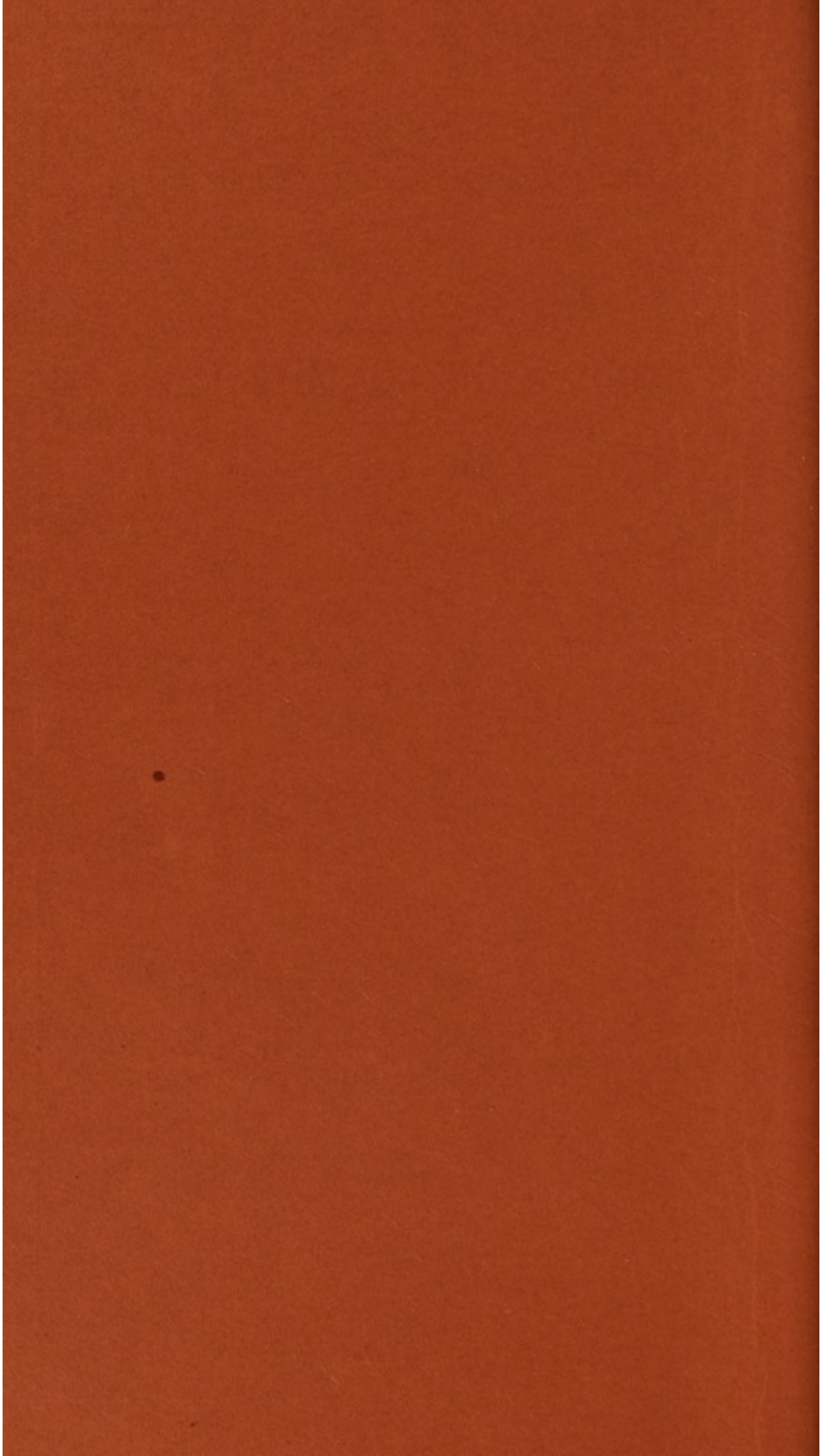
PRINCIPAL

SCHOOL MEDICAL OFFICER

for the Year ended 31st December, 1967

LLANELLI :

Printed by the Llanelly Mercury Printing Co., Ltd.



Carmarthenshire County Council

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CARMARTHENSHIRE COUNTY COUNCIL

EDUCATION COMMITTEE

ANNUAL REPORT OF THE PRINCIPAL SCHOOL
MEDICAL OFFICER FOR THE YEAR ENDED
31st DECEMBER, 1967.

Mr. Chairman, Aldermen and Councillors,

I have pleasure in presenting my Annual Report on the School Health Service for 1967.

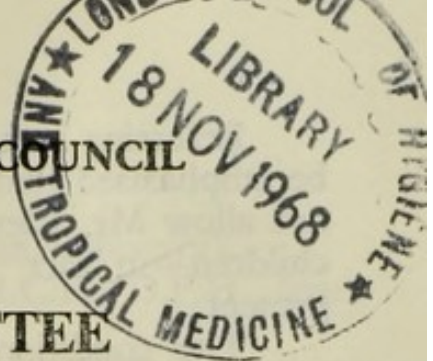
Routine medical examination of school children has been undertaken for several years in the county and it is pleasing to note that by and large, my colleagues examine normal healthy children. Routine examination of such children is, however, wasteful of manpower and I consider that the Medical Officer's time can be used more constructively by the introduction of a selective system of examination. I therefore intend to change the method of school examinations during the coming year.

A more comprehensive examination will be undertaken at school entry with assessment of hearing and vision. All subsequent examinations will be based on the findings of the first assessment and those children with defects or under observation for some specific reason, will be examined as necessary.

The proposed method in no way precludes any parent, teacher or member of my nursing staff referring a child for special examination. Indeed, all parents will be afforded a greater opportunity of discussing the individual child's requirements with the Medical Officer.

The provision of satisfactory standards of sanitary accommodation and washing facilities, particularly in the older rural schools, presents a problem. The authority, however, is gradually providing new buildings and modernising old ones in keeping with present day requirements. In time, no doubt, all our schools will be converted to water-carriage system and hot water washing facilities will be a standard provision.

The school meals service continues to supply an essential need. Considerable progress has been made in recent years in modernising school kitchens and canteens. The instructional courses for school meals supervisors on good catering practice and food hygiene are most successful and play an important part in maintaining the high standard of the school meals service.



Referring to the report of the Principal Dental Officer it must be emphasised that the present complement of Dental Officers does not allow Mr. Llewelyn to give adequate dental care to the school children—in fact no secondary school children are treated at present.

The condition of the children's teeth is still deplorable and many have to resort to false teeth. One easy way to combat this state of affairs is the fluoridation of water supplies as recommended by the Minister of Health and which has been done by many authorities to the great improvement of their children's teeth.

It is very satisfying to report that the new Unit for 11+ Partially Hearing Children was opened at Maes-yr-yrfa, Cefneithin. Plans are progressing for a replacement Unit to that at Tumble at the Cross Hands C.P. School. This will embrace a Nursery Class.

My appreciation to Dr. Danaher who has done sterling work in the investigation of the handicapped children, especially so in the case of the deaf.

I would like to express my appreciation of the co-operation I have had from the general practitioners and also for the advice and reports that have been submitted by the Consultants without which we would have failed in the medical coverage of the school population.

I am grateful to you for your help, encouragement and the kind consideration you have shown me. I should like to express my thanks to the Director of Education and his staff for their ready co-operation and also the teachers for their continued interest and valuable assistance. I would also record my appreciation of the loyal co-operation of members of my professional, nursing, administrative and clerical staff. In particular, I would like to mention Mr. W. R. Davies, Senior Administrative Officer, upon whom the brunt of the administration of the school health service falls.

D. G. G. JONES,

Principal School Medical Officer.

STAFF

Principal School Medical Officer :

D. G. G. JONES, M.B., B.S., D.P.H.

Deputy Principal School Medical Officer and Divisonal School Medical Officer :

M. G. Danaher, M.B., B.Ch., B.A.O., L.M., D.P.H.

School Medical Officers :

E. T. Davies-Humphreys, M.R.C.S., L.R.C.P.

J. G. E. Collins, M.R.C.S., L.R.C.P., D.P.H.

C. I. Morgan, M.R.C.S., L.R.C.P.

E. Lynette Davies, B.Sc., M.B., B.Ch., D.R.C.O.G.

Audrey A. Jones, M.B., Ch.B.

Ann H. Rees, M.B., B.Ch. (commenced 6th February).

*E. H. Beynon-Hopkins, M.R.C.S., L.R.C.P., D.P.H. (part-time).

*Gladys M. Herbert, M.R.C.S., L.R.C.P., D.P.H. (part-time).

*Divisional Medical Officer of Health.

Principal School Dental Officer:

W. E. T. Llewelyn, L.D.S., R.C.S.

School Dental Officers :

D. L. Walters, L.D.S., R.C.S.

T. J. Thomas, L.D.S., R.C.S.

S. C. R. Evans, B.D.S. (U. London), L.D.S., R.C.S.

P. M. Llewelyn, B.D.S.

Dental Auxiliary :

Miss J. D. Evans.

Dental Attendants :

Mrs. V. M. Arundel.

Miss E. B. Evans.

Miss A. M. Maliphant.

Miss M. A. Thomas.

Miss J. Jenkins.

Senior Orthopædic Sister :

Miss E. R. Buckley, M.C.S.P.

Assistant Orthopædic Sister :

Vacant.

Speech Therapist :

Mrs. J. V. Jones, L.C.S.T. (Part-time).

Mrs. R. M. Stewart, L.C.S.T. (Part-time).

Chief Nursing Officer :

Miss E. Evans, S.R.N., S.C.M., H.V.Cert., Cert. of Nursing Admin. (Public Health).

Educational Psychologist :

C. B. E. James, B.A., B.Ed., Ph.D., F.B.P.S.

Consultants available for School Health Service :

Orthopædic Surgeons :

G. D. Rowley, B.Sc., M.Ch. (Orthop.).

R. L. Rees, F.R.C.S.

Ophthalmic Surgeons :

G. S. Forester, M.B., Ch.B., D.O.M.S.
 A. H. Haley, B.Sc., M.B., Ch.B., D.O.
 R. E. Packer, M.B., B.Ch., D.O.M.S.

Audiologist :

Hector A. Thomas, F.R.C.S., Cardiff.

Ear, Nose and Throat Surgeons :

T. I. Williams, F.R.C.S.
 S. Morgan, B.Sc., F.R.C.S.

Plastic Surgeon :

Emlyn Lewis, F.R.C.S., Chepstow.

Pædiatricians :

R. T. Jenkins, B.Sc., M.R.C.P., D.C.H.
 K. R. Keay, M.D., M.R.C.P., D.C.H.
 W. R. Forbes, M.B., B.Ch., B.A.O., M.R.C.P., D.C.H.,
 D.Obst. R.C.O.G.

Neurosurgeons :

D. C. Provan, F.R.C.S.
 D. D. Hancock, F.R.C.S.

Dermatologist :

D. Leighton Rees, M.D., M.R.C.P.

Orthodontist :

W. A. B. Brown, L.D.S., D.Orth., R.C.S., Cardiff.

Dental Surgeon :

E. J. R. Morgan, M.B., Ch.B., F.D.S., R.C.S.

Chest Physicians :

J. T. Jones, B.Sc., M.B., B.Ch.
 D. B. Ll. Morgan, M.D.

Assistant Chest Physician :

J. Williams, B.Sc., M.B., B.Ch.

Psychiatrists :

J. Farr, M.B., B.S., D.P.M.
 E. J. Eurfyl Jones, M.A., B.M., B.Ch., D.P.M.
 N. J. C. McGill, M.B., B.S., D.P.M.
 C. C. Beresford, M.B., B.S., D.P.M.
 M. T. Stather-Dunn, M.B., B.Ch., D.P.M.

Child Psychiatrists :

John McDonald, M.A., M.B., Ch.B., D.P.M.
 Evan W. Davies, M.B., B.Ch., D.P.M., M.R.C.P.

Pathologists :

D. F. Davies, M.D., M.R.C.P.

A. L. Wells, M.D., M.R.C.P., D.C.P., F.C.Path.

Public Health Laboratory Service :

H. D. S. Morgan, M.R.C.S., M.C.Path., Dip. Bact.

NURSING

District	Nurse	Quanifications
Amman Valley	M. G. Evans	S.R.N., S.C.M., H.V.Cert.
Ammanford No. 1	A. Howells	S.R.N., S.C.M., H.V.Cert.
Ammanford No. 2	G. Pearce	S.R.N., S.C.M., H.V.Cert.
Burry Port	G. M. Burford	S.R.N., S.C.M., H.V.Cert.
Kidwelly	G. M. Williams	S.R.N., S.C.M., H.V.Cert.
Llangennech	E. Edwards	S.R.N., S.C.M., H.V.Cert.
Carmarthen Borough	G. Demery	S.R.N., S.C.M., H.V.Cert.
	D. Murray	S.R.N., S.C.M., H.V.Cert.
St. Clears	M. E. E. Davies	S.R.N., S.C.M., H.V.Cert.
Llanelli Borough	C. Jones	S.R.N., S.C.M., H.V.Cert.
	J. Jones	S.R.N., S.C.M., H.V.Cert.
	E. M. Perrott	S.R.N., S.C.M., H.V.Cert.
	M. E. Jones	S.R.N., S.C.M., H.V.Cert.
	D. C. Insley	S.R.N., S.C.M., H.V.Cert.
Felinfoel	E. M. Jones	S.R.N., S.C.M., H.V.Cert.
Gwendraeth	M. E. Morris	S.R.N., S.C.M., H.V.Cert.
Tumble	E. J. M. Jones	S.R.N., S.C.M., H.V.Cert.
Llandybie	M. M. Davies	S.R.N., H.V.Cert.
Llanybyther	Vacancy	
Bancyfelin	E. N. E. Davies	S.R.N., H.V.Cert.
Llandeilo	C. M. Bailey	S.R.N., S.C.M., H.V.Cert.
Nantgaredig	R. M. Walters	S.R.N., S.C.M., H.V.Cert.
Llangendeirne	M. E. Thomas	S.R.N., S.C.M., H.V.Cert.
Llandovery	D. Bowden	S.R.N., H.V.Cert.
Whitland	P. A. Davies	S.R.N., S.C.M., Q.N., H.V.Cert.
Newcastle Emlyn	Vacancy	
Relief	M. M. Cummins	S.R.N., S.C.M., Q.N., H.V.Cert.

CLINIC NURSES

Llanelli	E. M. Thomas	S.R.N., Tb.Cert.
Part-time :		
Carmarthen	B. M. Collins	S.R.N.
Ammanford	N. I. Stockwell	S.R.N., S.C.M.
Part-time Reliefs :		
Llanelli	N. Jones	S.R.N.
Ammanford	R. N. Llewelyn	S.R.N.

COMMUNICABLE DISEASES

For many years, communicable diseases mainly affecting children have been confined to measles and whooping cough, but it is pleasing to note that in recent years the incidence of whooping cough in the County has decreased. Immunisation against the disease has been a major factor in this decrease. 83 cases of whooping cough were notified during 1967.

Notifications of measles and whooping cough in the last ten years were as follows:—

			Measles.		Whooping Cough.
1958	...	...	1731	...	42
1959	...	...	308	...	34
1960	...	...	985	...	176
1961	...	...	1747	...	100
1962	...	...	300	...	2
1963	...	...	1257	...	4
1964	...	...	844	...	108
1965	...	...	623	...	43
1966	...	...	1007	...	5
1967	...	...	1031	...	83

Acute Poliomyelitis.—There have been no cases of acute poliomyelitis for five years. There were three cases in 1962.

Vaccination against poliomyelitis was introduced in 1956, and there have been subsequently only 10 cases (7 of which were children) of acute poliomyelitis in the County. None of these patients had been vaccinated.

Between 1951 and the introduction of vaccination in 1956, 104 cases of acute poliomyelitis occurred as follows:—

	Number of Cases			
	Children under 15 years of age	Others	Total	
1951	31	6	37	
1952	17	12	29	
1953	9	5	14	
1954	2	1	3	
1955	11	8	19	
1956	—	2	2	
Total	70	34	104	

MEDICAL INSPECTION AND FINDINGS

All the Primary and Secondary Schools in the County were visited during the year for medical inspection in accordance with the requirements of the Department of Education and Science. 7,389 children were examined in the routine age groups and 3,761 special inspections and re-inspections were made. A summary of the findings of medical inspection is given in Part II. of the Tables at the end of this report. The following are notes on some of the defects found:—

Skin Diseases.—55 cases required treatment and 278 cases were referred for observation.

Eye Defects.—Treatment was advised for 768 children with defective vision and 84 children with squint, while 1,104 cases of defective vision and 177 cases of squint were referred for observation.

Ear Conditions.—87 cases of defective hearing were referred for treatment and 129 for observation. Treatment was required for 19 cases of Otitis Media (ear discharge) and a further 57 cases were referred for observation. 5 cases of other ear conditions were also referred for treatment and 15 for observation.

Nose and Throat Conditions.—There were 144 cases of nose and throat defects (including enlarged tonsils and adenoids, sinusitis, antral conditions, etc.) requiring treatment, and a further 701 were referred for observation.

Heart Diseases.—28 cases with suspected heart disease were referred for specialist advice and 277 cases referred for observation.

Chest Diseases.—72 cases of various chest diseases were referred for treatment and 300 for observation.

Orthopædic Defects.—Treatment was advised for 438 orthopædic defects, 330 of which were foot defects, and 482 cases, 305 of which were foot defects, were referred for observation.

Diseases of the Nervous System.—37 cases suffering from diseases of nervous system, 28 of which were epileptics, were referred for specialist advice and 82 cases (50 epileptics) were referred for observation.

Psychological Cases.—Specialist advice was recommended in 96 cases of psychological disorders and 144 cases were referred for observation.

Speech.—Treatment was advised for 72 cases of defective speech and 173 cases were referred for observation.

Physical Condition.—All the 7,389 children examined were considered to be in a satisfactory physical condition.

OTHER EXAMINATIONS

In addition to the routine examination of school children Medical Officers undertook numerous special examinations and investigations of school children and a variety of other examinations on behalf of the authority. The following is a summary:—

Special examination of children (for home tuition, special educational treatment, absence from school, transport to school, employment of children, boarded-out children	...	...	...	...	179
Mental assessment of school children	...	...	...	...	85
Ruth Griffiths testing of children under two years of age	...	...	...	...	58
Hearing assessments	...	...	...	...	143
National Nursery Examinations Board students	...	...	...	...	14
Training college students	...	...	...	...	311
New teaching appointments	...	...	...	...	71

Examinations on behalf of other committees of the authority were undertaken as follows:—

Blind persons	...	...	...	...	117
Welfare Home Admissions	...	...	...	.....	39
Staff appointments	...	...	...	...	277
Persons on continuous sick leave	...	...	...	...	106
Persons retiring on account of permanent incapacity	...	...	...	...	6

FOLLOWING-UP

Much of the success of the School Health Service depends on the "field work" undertaken by the School Nurses. They follow up in the homes those cases found to be defective at medical inspection, and also visit the homes of children suffering from communicable diseases, uncleanliness, etc. 665 surprise visits to Schools were made by the School Nurses during the year to make cleanliness surveys. Table C, Part I of the Tables at the end of this report summarises this work. In addition, the Nurses made 1,753 home visits.

"Following-up" is also carried out by the School Medical Officers by periodic reviews, and many special visits were made to Schools and Clinics to examine special cases.

Minor Ailments.—The treatment of cases of minor ailments is undertaken either at hospital out-patient departments or at the surgeries of general medical practitioners.

Vision.—The specialist ophthalmic examination of children was undertaken by the Welsh Hospital Board through the Hospital Management Committees. Mr. G. S. Forrester and Mr. A. H. Haley held sessions at the Ophthalmic Centre at the West Wales

General Hospital, Carmarthen, and Mr. G. S. Forrester and Mr. R. E. Packer held sessions at the Llanelli and Amman Valley Hospitals.

1,990 children were dealt with by the Eye Specialists during the year, viz.:—

	Outpatients	Inpatients	Total
West Wales Hospital	502	40	542
Brynmair Clinic and Llanelli Hospital	1316	37	1353
Amman Valley Hospital	95	—	95
Other Hospitals	—	—	—
Totals	1913	77	1990

Glasses were prescribed for 366 children and records held by the School Medical Officer showed that 336 had been provided with glasses at the end of the year.

Ear, Nose and Throat Defects.—Children with ear, nose and throat defects are referred for specialist examination at the West Wales, Llanelli and Amman Valley Hospitals. With the exception of the Llanelli Hospital, where children are directed by the School Medical Officer to attend for these examinations, the arrangements are made by the Hospital Secretaries. Hospitals, of course, also dealt with children referred to them directly by general medical practitioners.

Children found to require inpatient treatment were placed by the specialists on the Hospital waiting lists, and the arrangements for admission were made by the Hospitals. Cases recommended for surgical treatment at Llandovery Hospital are treated at the West Wales General Hospital. The following Table gives information as to the number of children who received operative treatment during the year:—

	Ear Diseases	Adenoids and chronic tonsillitis	Other nose and throat conditions	Total
West Wales Hospital	41	273	49	363
Llanelli Hospital	20	239	26	265
Amman Valley Hospital	—	—	—	—
Other Hospitals	—	—	—	—
Totals	61	512	75	648

69 miscellaneous cases received non-operative treatment at Hospital Out-patient Departments.

Partially Hearing Children

A significant advance was made in the Authority's provisions for partially hearing children when a fully equipped unit was opened in September at Maes-yr-yrfa Secondary Modern School. Older partially hearing children are thus enabled to get the full benefit from specialised training with every opportunity to integrate with children of their own ages. At the end of the year, there were five pupils at the Unit

The acquisition of separate facilities for the senior pupils also meant that the staff at Tumble were no longer presented with the difficult task of catering for the needs of an all age group. Their energies and skills are now exclusively directed to the needs of junior pupils with considerable advantage to both children and teaching staff. There were ten full-time pupils and one part-time pupil in attendance at the end of the year.

The Authority also decided to replace the Unit at Tumble by a larger Unit at Cross Hands School which would comprise three classrooms one of which will be for a nursery group. It is hoped that the implementation of this proposal will not be long delayed.

The assessment of children with impaired hearing is a complex procedure and the need for early diagnosis is of extreme importance. Close liaison is maintained with the Consultants at the Cardiff Audiology Unit and the Local Hospitals in connection with these cases. The provision of auditory training and parental guidance at an early stage is of paramount importance and fortunately the services of a speech therapist have been obtained to cater for this essential requirement.

The successful implementation of a programme for partially hearing pupils is dependent not only on adequate facilities but also on the calibre of the teaching staff and in this regard we have been most fortunate.

89 children were assessed during the year and the necessary specialist investigation instituted where indicated.

Plastic Treatment.—The arrangements for the plastic treatment of children at the Churchill Hospital, Oxford, continued, but all new cases were treated at St. Lawrence Hospital, Chepstow. Children for examination were also referred to the West Wales and Morrision Hospitals.

Asthma.—The Asthma Clinics at Llanelli and Carmarthen, under the care of Dr. E. T. Davies-Humphreys, and at Ammanford under the care of Dr. J. G. E. Collins, continued to function successfully. One session per week is held at each clinic. 1,271 attendances were made at the Clinics during the year. There were 88 new cases. Further information is given in the following table:—

	Ammanford	Llanelli	Carmarthen	Total
No. of cases on 1st January, 1967	42	99	48	189
No. of new cases	23	47	18	88
No. withdrawn	4	24	11	39
No. of cases on 31st December	61	122	55	238
Total attendances	288	738	245	1271
No. of individual cases treated	38	80	37	155

Treatment was on the same lines as for the past years and there are no special observations to make.

Orthopædic Treatment.—The Education Committee continued to administer the Clinics for the orthopædic supervision and after-care of children. Failure to recruit an assistant orthopædic sister has resulted in a restriction on the frequency of sessions in some clinics and the cancellation of others. Children who attended these clinics have had to attend the main clinics for supervision and treatment.

On the 31st December, 1967, 3,019 cases were being attended to for all Authorities, viz.:—

County Education Committee	1773
Health and Public Health Committee	1214
South West Wales Hospital Management Committee	14
Glantawe Hospital Management Committee	18

An analysis of these cases according to diagnosis is as follows:—

	County Education Committee	Other Authorities	Total
Paralysis:			
Infantile	11	13	24
Spastic	24	4	28
Obstetrical	—	—	—
Other	—	—	—
Congenital Deformities	98	86	184
Infective Conditions of Bones and Joints	—	1	1
Non-Infective Conditions of Bones and Joints:			
Rickets	—	—	—
Other	1	1	2
Static and Postural Defects	1624	1112	2736
Traumatic Deformities	—	1	1
Multiple Defects	—	—	—
Miscellaneous	15	28	43
Totals	1773	1246	3019

Mr. Gordon Rowley, the Orthopædic Surgeon, treated 8 of the Authority's cases as inpatients at Morryston or Gorseinon Hospitals, and Mr. R. L. Rees, Orthopædic Surgeon, treated 1 case at the West Wales General Hospital. Cases for special X-ray examination were referred to the Outpatients Department of Morryston, Llanelli and West Wales General Hospitals.

On the 31st December, three children referred from the Orthopædic Clinics were on the waiting list for hospital inpatient treatment, as compared with seven on the 31st December, 1966.

A number of child patients not under the County Orthopædic Clinics were attended to by Hospitals under their own arrangements.

During the year, there were 10,697 attendances at the Clinics in the County, and the following table shows the case-loads of the various Clinics at the end of the year:—

Llanelli	... 658	Llandeilo	... 154
Garnant	... 71	Carmarthen	... 578
Pontyberem	... 86	Burry Port	... 165
Llandovery	... 95	Pencader	... 23
St. Clears	... 122	Brynamman	... 62
Trimsaran	... 42	Llandybie	... 65
Ammanford	... 399	Pontyates	... 65
Whitland	... 59	Llwynhendy	... 165
Kidwelly	... 43	Llanybyther	... 49
Tumble	... 118		

A summary of the work undertaken under the orthopaedic arrangements during 1967 is given in the following table:—

	County Education Committee	Other Authorities	Total
Number of individual cases under Scheme on 1st January, 1967	2001	1217	3218
Number of new cases during the year	159	386	545
Transfer to	109	3	—
Number of individual cases dealt with during the year	1179	831	—
Transfer from	3	109	—
Number of cases withdrawn from Scheme	493	251	744
Number of cases under the Scheme on the 31st December	1773	1246	3019
Total number of attendances made at the Clinics	5869	4828	10697
Number of individual cases received remedial exercises by Sisters	75	—	75
Number of individual cases massaged by Sisters	—	—	—
Number of home visits by Sisters	398	389	787
Number of cases examined by Visiting Orthopaedic Surgeons	156	113	269
Number of cases recommended in-patient hospital treatment by Surgeons	5	3	8

Speech Therapy

It was a disappointing year for speech therapy in the County as the part-time speech therapist gave up her appointment at the end of February and it was not possible to fill the vacancy despite several advertisements.

Another part-time speech therapist became available, but her services were utilised to give auditory training to a limited number of partially hearing children who are urgently in need of training.

Only 30 children were treated for speech defects and four of them were discharged with normal speech in the early part of the year.

Tuberculosis.—Treatment of tuberculous children is the responsibility of the Regional Hospital Board, to whom all suspected cases are referred.

The following shows the number of children referred by School Medical Officers and private medical practitioners for examination by the Chest Physicians during the year:—

	Dr. D. B. Ll. Morgan	Dr. J. T. Jones	Others	Total
Total number of children examined during 1967	483	131	—	614
Number of these children who were :				
(a) Contacts	92	20	—	112
(b) Under school age	130	40	—	170
(c) Found to be suffering from :				
(i) Respiratory Tuberculosis	—	—	—	—
(ii) Non-Respiratory Tuberculosis	—	—	—	—
(d) Still under observation but not diagnosed at 31/12/67	14	7	—	21
(e) Found with no evidence of active tuberculosis	469	124	—	593

BCG Vaccination.—The arrangements of the Authority provide for the BCG vaccination of the following groups:—

- (1) School children of 13 years of age and over.
- (2) Pupils of independent schools of 13 years of age and over.
- (3) Students attending further education establishments.

The following is a summary of the work carried out during 1967:—

	School Children	Pupils attending independent schools	Students
(1) No. eligible	2062	—	—
(2) No. of (1) skin tested	1686 (81.76%)	—	—
(3) No. of (2) who were :			
(a) found to be negative	1476† (87.55%)	—	—
(b) found to be positive	57* (3.38%)	—	—
(c) failed to attend for reading of skin test	153 (9.07%)	—	—
(d) Had BCG vaccination.....	1325 (78.59%)	—	—
(e) No. refused vaccination after having skin test or were medically unfit for vaccination	—	—	—

*32 of these had previously had BCG vaccination.

†130 children were skin tested but not offered vaccination.

Of the children who were negative to skin tests, approximately 90 per cent. were successfully vaccinated.

CHILD GUIDANCE

Regular weekly Child Guidance Clinics are held at two Centres in the County—one at Llanelli under the care of Dr. John McDonald, Consultant Child Psychiatrist, Glantawe Hospital Management Committee, and one at Pond Street Clinic, Carmarthen, under the care of Dr. Evan Davies, Consultant Child Psychiatrist, South West Wales Hospital Management Committee.

81 new cases were seen at the Clinics during the year and the total attendance was 383.

REPORT OF PRINCIPAL DENTAL OFFICER

The dental staff employed at the end of 1967 consisted of myself, three full-time assistant dental officers, one part-time (two sessions per week) and one dental auxiliary. This falls far short of the required number of dental officers to attend to nearly 27,000 school children.

Dental health education is an important part of the School Dental Service and the dental auxiliary attended 57 sessions in schools to talk to the children on dental health. The dental officers also spend time in instructing their patients in the prevention of dental decay. There are four simple rules for dental health:—

1. Eat nourishing meals and nothing sticky and sweet in between.
2. Finish meals with raw fruit or vegetables or rinse the mouth with water.
3. Brush the teeth and gums at least twice a day—once after breakfast and last thing at night.
4. Visit your dental surgeon regularly.

It is gratifying to know that some headteachers forbid children to eat sweets in schools. It is still, however, the practice of some schools to sell sweet biscuits during the milk-break which is to be regretted.

It is very disheartening to visit schools, especially infant schools, in the County and to see the ravages of dental decay in many mouths at a very young age. In view of the constant shortage of dental surgeons and apathy shown by some parents to dental disease, it is to be hoped that the local health authority will follow the advice of the Ministry of Health and agree to the fluoridation of water supplies in the County in the not too distant future.

Dr. A. T. Wynne, of the Department of Education and Science, visited the County in March, 1967, to review the Carmarthenshire School Dental Service. His main observations were as follows:—

1. A pressing need for the recruitment of at least 2 more dental officers.
2. Creation of a suitably graded staff structure to include Area Dental Officers posts.
3. Offer extra paid sessions and provision of better working facilities.
4. Provide mobile dental clinics for the more rural parts of the County as a matter of urgency.
Provision has been made in the Budget for 1968/69 for one mobile clinic.
5. To improve the standard of clinic accommodation which is not up to modern standards.
Financial provision has been made for this to be carried out in 1968/69.

The following work was undertaken during the year:—

Sessions for inspection	...	...	176
Treatment sessions at the four fixed clinics	...	...	1379
Treatment sessions at school and temporary clinics	...	...	533
Individual children treated	...	...	5028
Attendances for treatment	...	...	9911
Teeth extracted	...	...	3552
Teeth saved by filling	...	...	7291
Teeth received minor treatment	...	...	1004
Administration of general anæsthetic	...	...	1134

15 children were supplied with dentures for the first time as compared with 23 in 1966. A total of 27 dentures were supplied as compared with 30 in 1966.

The number of general anæsthetic cases has dropped by over 500 compared with the previous year. We have now discontinued the practice of administering dental anæsthetics in schools and temporary clinics.

I should like to record here my thanks to Dr. H. Maliphant, the Consultant Anæsthetist at Glangwili Hospital, for his talk to the medical and dental officers on dental anæsthesia and for allowing us to attend sessions at the Glangwili Hospital for practical demonstrations. This was most appreciated.

Orthodontic treatment is available and we are able to receive expert consultant opinions for our difficult cases when required. Up to 1967 we were very fortunate in being able to have the services of Mr. R. E. Rix, of Guy's Hospital, their Consultant Orthodontist, who has now retired, and I should like to record my thanks to him for his expert advice over many years.

I have now made arrangements with the Orthodontic Department of the Cardiff Dental Hospital for patients to be seen and treated as they think necessary. Mr. W. A. B. Brown, the Consultant Orthodontist, has been most helpful in this new arrangement.

Orthodontic treatment was undertaken for 49 new cases and 119 cases whose treatment had been commenced before attended for further treatment and review.

The following is a summary of the treatment undertaken:—

(a) Cases commenced during the year	...	...	49
(b) Cases carried forward from previous year	...	...	119
(c) Cases completed during the year	...	...	32
(d) Cases discontinued during the year	...	...	12
(e) Number of removable appliances fitted	...	...	78
(f) Number of fixed appliances fitted	...	...	2
(g) Number of Pupils referred to Hospital Consultants	...	...	9
(h) Number of dentures supplied	...	...	27

I should like to thank Mr. E. J. R. Morgan, M.B., F.D.S., R.C.S. (Eng.), Consultant Dental Surgeon, Morrision Hospital, for his advice and treatment as inpatients of the cases referred to him.

I am grateful of the support given by the Chairman and members of the General Welfare Sub-Committee when dental matters were discussed during the past year.

In conclusion I should like to thank Dr. D. G. G. Jones, the County Medical Officer of Health, and his Deputy, Dr. Martyn Danaher, for their assistance and interest in dental matters, and also my colleagues in the dental service, medical staff, headteachers and administrative staff for their co-operation.

WILLIAM LLEWELYN,

Principal Dental Officer.

SCHOOL MILK AND MEALS

The latest information available at the end of the year showed that out of a total attendance of 25,425 on a particular day, milk and meals were being supplied as follows:—

Milk	...	...	18,866 children (74.20%)
Meals	...	...	20,092 children (79.02%)

This compares with percentages of 73.67% and 86.83% respectively for milk and meals a year ago.

Every effort is made to ensure that milk supplied to Schools is of a satisfactory standard, and whenever possible Pasteurised milk is provided. Where this grade of milk is not available, satisfactory samples are obtained before the proposed supplies are approved. Samples of all school milk are regularly taken for analysis by the Staff of the Chief Inspector of Food and Drugs.

The following table gives the number of School Departments (including non-maintained schools) receiving the different grades of milk at the end of the year:—

Pasteurised	...	...	...	173
Sterilized	...	...	...	—
Untreated	...	...	...	40
Reconstituted Dried Milk	...	...	...	2

Under the Milk (Special Designation) Regulations, 1963, pasteurised milk could only be sold as such if it was delivered to the consumers in the bottles or containers in which it was pasteurised. Some retailers purchase pasteurised milk in bulk and bottle it themselves or transfer it to other containers for retail.

All appointments to school kitchen and canteen staff were subject to satisfactory medical, including Chest X-ray examinations and to satisfactory faecal and urine bacteriological examinations.

CO-OPERATION OF PARENTS, TEACHERS AND VOLUNTARY ORGANISATIONS

Generally, parents display an active interest in the medical inspection and treatment of their children, and are eager to follow the advice given by Medical Officers. 3,666 parents were present at the medical inspections during the year, equivalent to a percentage of 49.61. Greater efforts should be made by parents to attend the first medical examination of children at school.

Appreciation of the keen interest and active co-operation of Headteachers and their staffs must again be recorded. The importance of their influence in matters relating to the children and also to the parents cannot be over-estimated, and the activities of the School Health Service would be seriously handicapped without that help and co-operation.

A good deal of assistance is also rendered by the Inspectors of the National Society for the Prevention of Cruelty to Children, but their work relating to problem families and neglected children is now undertaken through the Children's Officer.

HANDICAPPED CHILDREN

The ascertainment, classification and supervision of the handicapped child is one of the important functions of the School Health Service. There are no fixed procedures or specific criteria which govern the placement of such children. Each case requires individual assessment and consideration and is evaluated on its own merits to ensure appropriate placement at the optimum age.

Educational facilities must be made available in keeping with age, aptitude and ability. These include special schools, provision of home tuition, and special educational treatment at an ordinary school.

It is an accepted principle that no handicapped pupil be sent to a special school who can be satisfactorily educated at an ordinary school, thus avoiding withdrawal from the home influence and environment.

Home tuition is a poor substitute for education at school, but may be the only educational provision suitable for a small percentage of children suffering from severe disability. It obviously serves a very useful purpose during short periods as in convalescence from illness.

The following tables summarise the position with regard to handicapped children in the County at the end of the year:—

Ascertainment

During 1967, 21 children (9 boys and 12 girls) were assessed as needing special educational treatment at special schools. Their classification was as follows:—

	Boys.	Girls.	Total.
Deaf	—	1	1
Educationally Subnormal	6	11	17
Physically Handicapped	1	—	1
Delicate	2	—	2
	—	—	—
Total	9	12	21
	—	—	—

Admissions to Special Schools

Children as follows were admitted to Special Schools:—

	On Waiting List at 31/12/66		Assessed 1967		Total
	B.	G.	B.	G.	
Deaf	—	—	—	1	1
Physically Handicapped	—	—	1	—	1
Educationally Subnormal	1	3	—	2	6
Delicate.....	—	—	2	—	2
Maladjusted	1	—	—	—	1
Total	2	3	3	3	11

Number at Special Schools

On the 18th January, 1968, the number of children at residential schools was as follows:—

	Boys.	Girls.	Total.
Partially Sighted	—	—	—
Deaf	3	5	8
Partially Hearing	1	1	2
Physically Handicapped :			
Spastics	1	1	2
Others	6	1	7
Delicate	1	—	1
Maladjusted	1	1	2
Educationally Subnormal	24	19	43*
	—	—	—
Total	37	28	65
	—	—	—

*All at Highmead Residential Special School.

Waiting List

The waiting list for special school accommodation on the 18th January, 1968, was as follows:—

1 Total number requiring places	B.	Blind	E.S.N.	Total
	G.	—	29	29	23
2 Number (of (1)) whose parents had refused consent	B.	—	2	2
	G.	—	3	3
3 Number (of (1)) who had been on waiting list for more than one year	B.	—	22	22
	G.	—	14	14

All the educationally subnormal children requiring places at special schools, 7 of whom (3 boys and 4 girls) were under 10 years of age, were receiving special educational treatment at ordinary schools pending admission.

Education in accordance with Section 56 of the Education Act, 1944

Six physically handicapped children were being educated in hospitals on the 18th January, 1968, while 27 children, as follows, were receiving home tuition:—

	Boys.	Girls.	Total.
Physically handicapped :			
Spina bifida/hydrocephalus	4	1	5
Perthes Disease	3	—	3
Spastic	—	1	1
Heart	2	2	4
Others	2	1	3
Delicate	2	4	6
Others	2	3	5
	—	—	—
Totals	15	12	27
	—	—	—

Special Classes and Units

There were, on the 18th January, 1968, 5 full-time pupils at the Partially Hearing Unit at Maes-yr-Yrfa Secondary Modern School, and 10 full-time and one part-time pupil at the Junior Unit in Tumble County Primary School.

At the Maladjusted Unit, Old Road, Llanelli, there were 16 pupils attending part-time.

SCHOOL CLINICS

Location of Clinic	Type of Clinic	No. of Sessions
Permanent Clinics :		
Brynmair Clinic, Goring Road, Llanelli	Orthopaedic	Two weekly
	Asthma	One weekly
	Speech Therapy	Four weekly
	Hearing Assessment	One weekly
	Dental	As required
	Child Guidance	One weekly
The Clinic, High Street, Ammanford	Orthopaedic	Two weekly
	Asthma	One weekly
	Speech Therapy	Two weekly
	Hearing Assessment	As required
	Dental	As required
Pond Street Clinic, Pentrefelin, Carmarthen	Orthopaedic	Two weekly
	Asthma	One weekly
	Speech Therapy	Two weekly
	Hearing Assessment	As required
	Dental	As required
	Child Guidance	Two weekly
The Clinic, 16, Crescent Road, Llandeilo	Orthopaedic	Two monthly
	Speech Therapy	One fortnightly
	Hearing Assessment	As required
	Dental	As required
The Clinic, Llwynhendy	Orthopaedic	Two fortnightly
	Speech Therapy	Two fortnightly
	Dental	As required
The Clinic, 5, Broad Street, Llandovery	Orthopaedic	Two monthly
	Dental	As required
	Speech Therapy	One fortnightly
The Clinic, Llanybyther	Orthopaedic	One monthly
	Dental	As required
The Clinic, Laugharne	Dental	As required
The Clinic, Old Junior School, Brynamman	Orthopaedic	One monthly
	Dental	As required
Penuel Old Vestry, St. Clears	Orthopaedic	One monthly
	Dental	As required
The Clinic, C.P. School, Pencader	Orthopaedic	One monthly
	Dental	As required
Temporary Clinics :		
Memorial Hall, Whitland	Orthopaedic	One monthly
	Dental	As required
Capel Sul Chapel Vestry, Kidwelly	Orthopaedic	One monthly
	Dental	As required
The Institute, Memorial Square, Burry Port	Orthopaedic	Two fortnightly
Assembly Rooms, Memorial Hall, Llandybie	Orthopaedic	One monthly
	Orthopaedic	One monthly
Memorial Hall, Pontyberem	Orthopaedic	One monthly
Welfare Hall, Pontyates	Orthopaedic	One monthly

Location of Clinic	Type of Clinic	No. of Sessions
Bethania Chapel Vestry, Upper Tumble	Orthopaedic	One monthly
Tabernacle Vestry, Trimsaran	Orthopaedic	One monthly
County Primary School, Garnant	Orthopaedic	One monthly
Public Hall, Cross Hands	Dental	As required
Neuadd Ddraig Goch, Velindre	Dental	As required
Memorial Hall, Llangain	Dental	As required

TABLE A—PERIODIC MEDICAL INSPECTIONS
(INCLUDING NURSERY AND SPECIAL SCHOOLS)

Year	Total		Males		Females	
	(1)	(2)	(3)	(4)	(5)	(6)
1957	100	100	50	—	50	100
1958	100	100	50	—	50	100
1959	100	100	50	—	50	100
1960	100	100	50	—	50	100
1961	100	100	50	—	50	100
1962	100	100	50	—	50	100
1963	100	100	50	—	50	100
1964	100	100	50	—	50	100
1965	100	100	50	—	50	100
1966	100	100	50	—	50	100
1967	100	100	50	—	50	100
1968	100	100	50	—	50	100
1969	100	100	50	—	50	100
1970	100	100	50	—	50	100
1971	100	100	50	—	50	100
1972	100	100	50	—	50	100
1973	100	100	50	—	50	100
1974	100	100	50	—	50	100
1975	100	100	50	—	50	100
1976	100	100	50	—	50	100
1977	100	100	50	—	50	100
1978	100	100	50	—	50	100
1979	100	100	50	—	50	100
1980	100	100	50	—	50	100
1981	100	100	50	—	50	100
1982	100	100	50	—	50	100
1983	100	100	50	—	50	100
1984	100	100	50	—	50	100
1985	100	100	50	—	50	100
1986	100	100	50	—	50	100
1987	100	100	50	—	50	100
1988	100	100	50	—	50	100
1989	100	100	50	—	50	100
1990	100	100	50	—	50	100
1991	100	100	50	—	50	100
1992	100	100	50	—	50	100
1993	100	100	50	—	50	100
1994	100	100	50	—	50	100
1995	100	100	50	—	50	100
1996	100	100	50	—	50	100
1997	100	100	50	—	50	100
1998	100	100	50	—	50	100
1999	100	100	50	—	50	100
2000	100	100	50	—	50	100
2001	100	100	50	—	50	100
2002	100	100	50	—	50	100
2003	100	100	50	—	50	100
2004	100	100	50	—	50	100
2005	100	100	50	—	50	100
2006	100	100	50	—	50	100
2007	100	100	50	—	50	100
2008	100	100	50	—	50	100
2009	100	100	50	—	50	100
2010	100	100	50	—	50	100
2011	100	100	50	—	50	100
2012	100	100	50	—	50	100
2013	100	100	50	—	50	100
2014	100	100	50	—	50	100
2015	100	100	50	—	50	100
2016	100	100	50	—	50	100
2017	100	100	50	—	50	100
2018	100	100	50	—	50	100
2019	100	100	50	—	50	100
2020	100	100	50	—	50	100
2021	100	100	50	—	50	100
2022	100	100	50	—	50	100
2023	100	100	50	—	50	100
2024	100	100	50	—	50	100
2025	100	100	50	—	50	100
2026	100	100	50	—	50	100
2027	100	100	50	—	50	100
2028	100	100	50	—	50	100
2029	100	100	50	—	50	100
2030	100	100	50	—	50	100

Col. (1) total as a percentage of Col. (2) total
Col. (4) total as a percentage of Col. (2) total

MEDICAL INSPECTION AND TREATMENT

RETURN FOR THE YEAR ENDED 31st DECEMBER, 1967

Number of pupils on registers of maintained primary,
secondary, special and nursery schools in January,
1968 26,605

PART I.—MEDICAL INSPECTION OF PUPILS ATTENDING MAINTAINED PRIMARY AND SECONDARY SCHOOLS (INCLUDING NURSERY AND SPECIAL SCHOOLS)

TABLE A.—PERIODIC MEDICAL INSPECTIONS

Age Groups inspected (by year of Birth)	No. of pupils who have received a full medical examination	Physical condition of pupils inspected		No. of pupils found not to warrant a medical examination	Pupils found to require treatment (excluding dental diseases and infestation with vermin)		
		Satisfactory	Unsatisfactory		For defective vision (excluding squint)	For any other condition recorded at Part II.	Total Individual pupils
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1963 and later	469	469	—	—	7	73	80
1962	1280	1280	—	—	33	169	198
1961	392	392	—	—	9	47	55
1960	88	88	—	—	12	15	26
1959	1896	1896	—	—	130	176	290
1958	116	116	—	—	11	11	21
1957	135	135	—	—	9	7	15
1956	950	950	—	—	69	74	136
1955	629	629	—	—	47	53	93
1954	144	144	—	—	9	14	22
1953	36	36	—	—	5	3	8
1952 and earlier	1254	1254	—	—	100	58	150
Total	7389	7389	—	—	441	700	1094

Col. (3) totals as a percentage of Col. (2) total 100%
Col. (4) total as a percentage of Col. (2) total 0%

TABLE B.—OTHER INSPECTIONS

Notes.—A special inspection is one that is carried out at the special request of a parent, doctor, nurse, teacher or other person.

A re-inspection is an inspection arising out of one of the periodic medical inspections or out of a special inspection.

Number of Special Inspections	...	...	3717
Number of Re-inspections	...	...	44
Total	...	...	<u>3761</u>

TABLE C.—INFESTATION WITH VERMIN

(a) Total number of individual examinations of pupils in schools by school nurses or other authorised persons	...	44239
(b) Total number of individual pupils found to be infested...	162	
(c) Number of individual pupils in respect of whom cleansing notices were issued (Section 54(2) Education Act, 1944)	...	11
(d) Number of individual pupils in respect of whom cleansing orders were issued (Section 54(3), Education Act, 1944)	...	—

**PART II.—DEFECTS FOUND BY PERIODIC AND SPECIAL MEDICAL INSPECTIONS DURING
THE YEAR.**

Defect Code No. (1)	Defect or Disease (2)	Periodic Inspections				Special Inspections (7)
		Entrants (3)	Leavers (4)	Others (5)	Total (6)	
4	.....	12	7	20	39	16
	Skin	54	31	110	195	83
5	.....	62	101	278	441	327
	Eyes—(a) Vision	66	193	310	569	535
	.....	31	2	18	51	33
	(b) Squint	40	10	49	99	78
	.....	5	3	10	18	8
	(c) Other	16	1	13	30	14
6	.....	12	3	15	30	57
	Ears—(a) Hearing	20	4	34	58	71
	.....	5	—	5	10	9
	(b) Otitis Media	20	1	15	36	21
	.....	—	—	—	—	5
	(c) Other	3	1	7	11	4

Defect Code No. (1)	Defect or Disease (2)	Periodic Inspections				Total (6)	Special Inspections (7)
		Entrants (3)	Leavers (4)	Others (5)			
7	Nose and Throat	43	7	37	87	57	
	..... O	257	23	159	439	262
8	Speech	13	3	22	38	34	
	..... O	46	7	39	92	81
9	Lymphatic Glands	2	—	1	3	—	
	..... O	117	8	87	212	86
10	Heart	7	2	8	17	11	
	..... O	65	11	70	146	131
11	Lungs	17	3	15	35	37	
	..... O	63	17	86	166	134
12	Developmental—(a) Hernia	1	—	2	3	3	
	..... O	8	—	3	11	6
	(b) Other	1	4	16	21	17	
	..... O	109	2	55	166	70

Defect Code No. (1)	Defect or Disease (2)	Periodic Inspections				Special Inspections (7)	
		Entrants (3)	Leavers (4)	Others (5)	Total (6)		
13	Orthopaedic—(a) Posture	T	2	1	5	8	2
		O	4	3	17	24	13
			111	16	87	214	116
	(b) Feet	T	95	10	92	197	108
		O	39	6	16	61	37
			29	16	47	92	48
14	Nervous System—(a) Epilepsy	T	4	3	6	13	15
		O	9	4	8	21	29
			2	—	4	6	3
	(b) Other	T	4	3	9	16	16
		O	5	1	18	24	36
			18	—	29	47	47
15	Psychological—(a) Development	T	5	1	6	12	24
		O	11	6	15	32	18
			1	2	7	10	3
16	Abdomen	T	23	2	29	54	24
		O	12	2	37	51	22
			26	20	36	82	33
17	Other	T	12	2	37	51	22
		O	26	20	36	82	33

**PART III.—TREATMENT OF PUPILS ATTENDING
MAINTAINED PRIMARY AND SECONDARY SCHOOLS
(INCLUDING NURSERY AND SPECIAL SCHOOLS)**

**TABLE A.—EYE DISEASES, DEFECTIVE VISION
AND SQUINT**

	Number of cases known to have been dealt with
External and other, excluding errors of refraction and squint	1
Errors of refraction (including squint)	1990
Total	1991
Number of pupils for whom spectacles were prescribed	366

**TABLE B.—DISEASES AND DEFECTS OF EAR,
NOSE AND THROAT**

	Number of cases known to have been dealt with
Received operative treatment :—	
(a) for diseases of the ear	61
(b) for adenoids and chronic tonsilitis	512
(c) for other nose and throat conditions	75
Received other forms of treatment	69
Total	717
Total number of pupils still on the register of schools at 31st December, 1967, known to have been provided with hearing aids :—	
(a) during the calendar year 1967	1
(b) in previous years	21

TABLE C.—ORTHOPAEDIC AND POSTURAL DEFECTS

	Number known to have been treated
(a) Pupils treated at clinics or out-patients departments	1284
(b) Pupils treated at school for postural defects	—
Total	1284

TABLE D.—DISEASES OF THE SKIN
(excluding uncleanliness, for which see Table C of Part I)

	Number of pupils known to have been treated
Ringworm—(a) Scalp	—
(b) Body	1
Scabies	—
Impetigo	1
Other skin diseases	1
Total	3

TABLE E.—CHILD GUIDANCE TREATMENT

	Number known to have been treated
Pupils treated at Child Guidance Clinics	81

TABLE F.—SPEECH THERAPY

	Number known to have been treated
Pupils treated by speech therapists	30

TABLE G.—OTHER TREATMENT GIVEN

	Number known to have been treated
(a) Pupils with minor ailments	30
(b) Pupils who receive convalescent treatment under School Health Service arrangements	—
(c) Pupils who received B.C.G. vaccination.....	1325
(d) Other than (a), (b) and (c) above :	
General Surgical	572
General Medical	44
Paediatrics	962
Asthma	155
Total (a)-(d)	3088

**DENTAL INSPECTION AND TREATMENT CARRIED OUT
DURING THE YEAR ENDED 31st DECEMBER, 1967**

Attendances and Treatment :	Ages 5 to 9	Ages 10 to 14	Ages 15 and over	Total
First Visit	3207	1704	117	5028
Subsequent Visits	2460	2075	348	4883
Total Visits	5667	3779	465	9911
Additional courses of treatment commenced	319	131	12	462
Fillings in permanent teeth	2807	3630	500	6937
Fillings in deciduous teeth	2157	144	—	2301
Permanent teeth filled	2085	2776	364	5225
Deciduous teeth filled	1928	138	—	2066
Permanent teeth extracted	154	570	141	865
Deciduous teeth extracted	1973	714	—	2687
General anaesthetics	770	344	20	1134
Emergencies	161	83	12	256
Number of Pupils X-rayed				71
Prophylaxis				380
Teeth otherwise conserved				606
Number of teeth root filled				16
Inlays				—
Crowns				2
Courses of treatment completed				3473

Orthodontics :

Cases remaining from previous year	119
New cases commenced during year	49
Cases completed during year	32
Cases discontinued during year	12
No. of removals appliances fitted	78
No. of fixed appliances fitted	2
Pupils referred to Hospital Consultant	9

Prosthetics :

	5 to 9	10 to 14	15 and over	Total
Pupils supplied with F.U. or F.L. (first time)	—	—	—	—
Pupils supplied with other dentures (first time)	—	6	9	15
Number of dentures supplied	1	10	16	27

Anaesthetics :

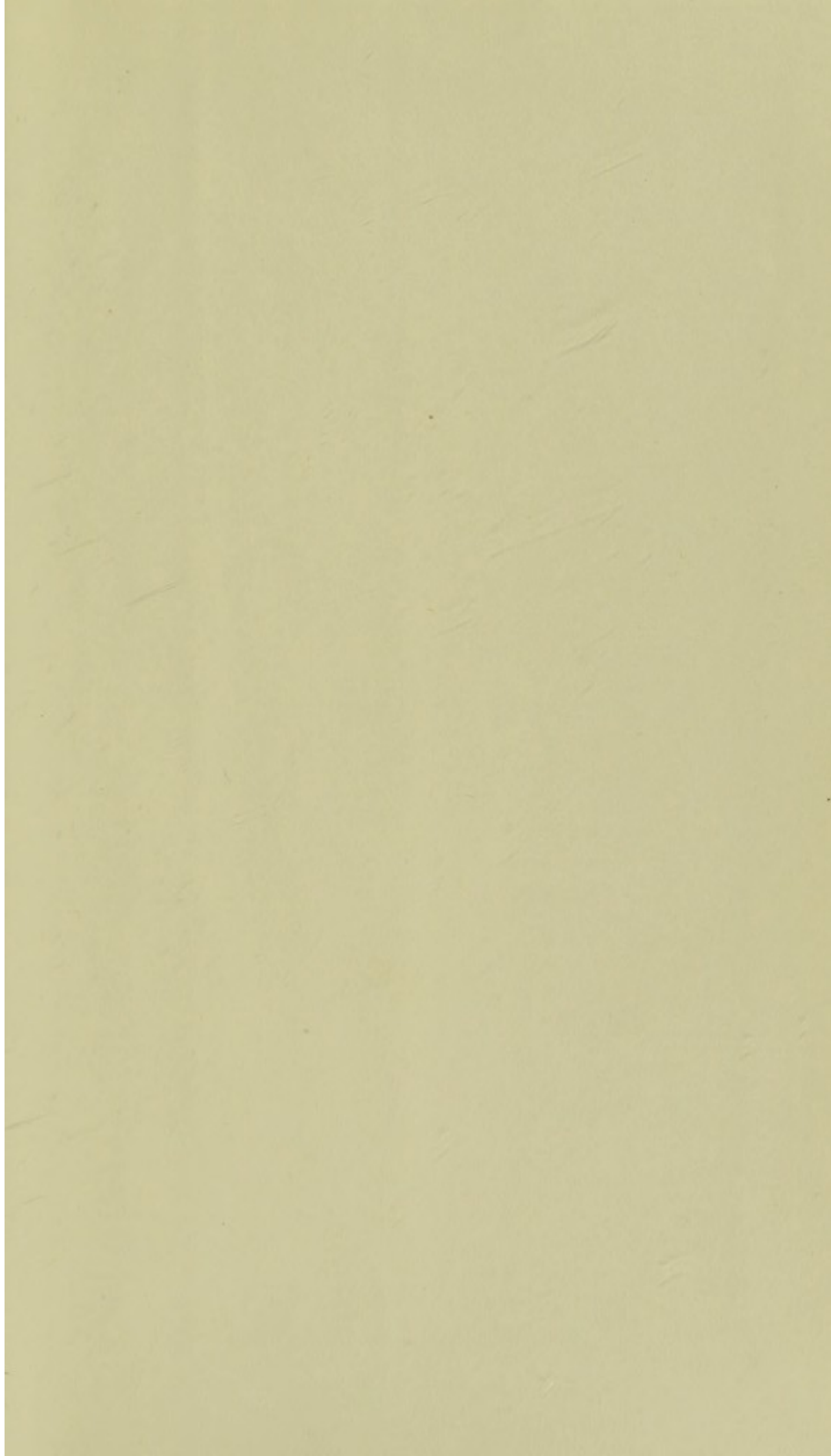
General Anaesthetics administered by Dental Officers ..	4
---	---

Inspections :

(a) First inspection at school. Number of Pupils	10521
(b) First inspection at clinic. Number of Pupils	280
Number of (a) + (b) found to require treatment	8643
Number of (a) + (b) offered treatment	7775
(c) Pupils re-inspected at school or clinic	4305
Number of (c) found to require treatment	3348

Sessions :

Sessions devoted to treatment	1912
Sessions devoted to inspection	176
Sessions devoted to Dental Health Education	57



THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY

Sample No.	Weight (g)	Volume (ml)	Concentration (M)	Notes
1	0.1000	10.00	0.0100	
2	0.2000	20.00	0.0100	
3	0.3000	30.00	0.0100	
4	0.4000	40.00	0.0100	
5	0.5000	50.00	0.0100	
6	0.6000	60.00	0.0100	
7	0.7000	70.00	0.0100	
8	0.8000	80.00	0.0100	
9	0.9000	90.00	0.0100	
10	1.0000	100.00	0.0100	
11	0.1000	10.00	0.0200	
12	0.2000	20.00	0.0200	
13	0.3000	30.00	0.0200	
14	0.4000	40.00	0.0200	
15	0.5000	50.00	0.0200	
16	0.6000	60.00	0.0200	
17	0.7000	70.00	0.0200	
18	0.8000	80.00	0.0200	
19	0.9000	90.00	0.0200	
20	1.0000	100.00	0.0200	
21	0.1000	10.00	0.0500	
22	0.2000	20.00	0.0500	
23	0.3000	30.00	0.0500	
24	0.4000	40.00	0.0500	
25	0.5000	50.00	0.0500	
26	0.6000	60.00	0.0500	
27	0.7000	70.00	0.0500	
28	0.8000	80.00	0.0500	
29	0.9000	90.00	0.0500	
30	1.0000	100.00	0.0500	