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REPORT

of the

Local Board of Health



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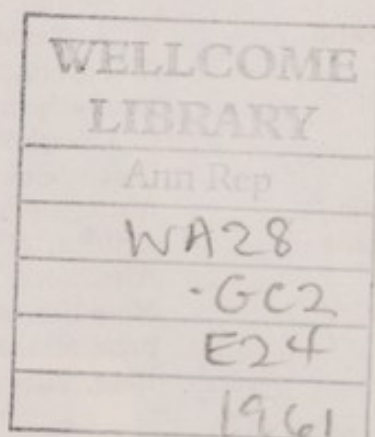
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CONTENTS



Annual Report of M.O.H.	3
Financial Statement	5
Summary of Statistics	6
Vital Statistics	6, 7
Infant Mortality	8, 9
International List of Causes of Deaths	10
Principal Causes of Deaths	11, 12
Immunization	12
Communicable Disease	13, 14, 15
Tuberculosis Control	16
School Health Services	17, 18
Dental Division	19
Register of Physically Handicapped Children	20, 21
Well Baby and Pre-School Clinics	22
Victorian Order of Nurses	22
Sanitation	23, 24
Food and Meat Inspection	25, 26
Milk and Water	27



Annual Report of the Medical Officer of Health

Chairman and Members
Local Board of Health
Edmonton, Alberta.

Madam and Gentlemen:

I present herewith for your consideration the annual report of the services of the Local Board of Health for the year 1961.

The population of Edmonton in 1961 was recorded as 276,018 people—an increase of 6,704 over the 1960 population. The natural increase was 6,702.

The stillbirth rate remained at 10.5 stillbirths per 1,000 live births. There was one maternal death. The endeavours of the Perinatal Mortality Committee of the Canadian Medical Association (Alberta Division) to maintain this figure at an irreducible minimum are worthy of universal commendation.

The main causes of death of our citizens are unchanged—diseases of the heart, cancer and diseases of the blood vessels of the central nervous system. 124 people died from external causes, many needlessly. Great and continued individual effort is required in this field if this phenomenal figure is to be reduced.

A small outbreak of typhoid was recorded which, with the co-operation of the attending physicians, was rapidly closed.

Five cases of poliomyelitis occurred in the year. Community interest in immunization varies with the prevalence of disease and figures relating to the poliomyelitis immunization of adults are falling. Sabin vaccine offers a possibility of a more durable immunity. Meanwhile child immunization levels are comparatively high—93% of children entering school were immunized against poliomyelitis.

Unfortunately the fall experienced in recent years in the deaths due to tuberculosis has not been paralleled by a fall in new cases of tuberculosis. The department has increased its detection efforts in the younger age group and it is anticipated that through the support of the Tuberculosis Association and the Kinsmen, increased effort will be directed to the adult group.

The increase in school population continues and the School Health Services division has carried an active programme through the year. A register of handicapped children has been maintained by this division for several years. The increasing interest in this division prompted the inclusion herein of a statistical summary of the register.

Attendance at the Well Baby Clinics continues to rise. Of 8,428 resident births in the city in 1961, 5,938 attended the clinics. The total new registrations in the clinics for the year was equal to 90.5% of the five year average birth rate.

A third plebiscite on fluoridation which was held in 1961 unhappily failed. Provincial regulations require 66.6% of the vote to favour fluoridation before it can be instituted. 61.63% of the citizen voting desired fluoridation. Each of the previous plebiscites has failed by a similar narrow margin. The

wishes of the majority of the citizens in this community have been repeatedly plainly recorded and yet are denied on the arbitrary 2/3 majority issue.

The Victorian Order of Nurses continued to render valuable services to our citizens. The demand lies largely in the adult group, especially the aged. This form of home nursing service is a great asset in the field of Community Health Services.

Effective coverage was maintained in environmental hygiene. An active programme in the education of foodhandlers was organized. An attendance of 568 was recorded at four courses in foodhandling. 127 foodhandler certificates were issued.

Meat inspection services were maintained at the locally supervised packing plants. There were no reports of inedible meats being sold for human consumption in this city.

Through the year, the department has received assistance from many individuals and groups—voluntary and governmental agencies, and the news media. The help so freely given is material to the success achieved and is acknowledged with appreciation.

The Local Board of Health throughout the year has been unfailing in the consideration of the many problems presented and has given this department sound counsel and support in the ventures undertaken.

Yours truly,

G. H. BALL, M.B., Ch.B., D.P.H.,
Medical Officer of Health.

EXPENDITURES 1961

Salaries	\$403,017
Furniture and Office Supplies	7,800
Milk and Glasses	1,169
Medical Supplies	4,348
Printing, Postage and Stationery	9,917
Transportation and Cars	14,363
Telephones, Advertising and Travelling	2,679
Uniforms	963
Miscellaneous	2,704
Insurances and Pensions	20,048
Space and Maintenance	50,109
TOTAL	\$517,117
Cost per Capita — \$1.76	

CLASSIFICATION OF EXPENDITURES 1961

	Admini- stration	Communi- cable Disease Control	Milk and Dairy Supervision	Food and Meat Control	Well Baby Clinics	Sanitation	Vital Statistics	School Health Services	Dental Division	Bathhouse Attendant	Total Expendi- tures
Salaries	\$23,406	\$41,410	\$12,997	\$ 9,965	\$54,028	\$48,733	\$1,694	\$177,818	\$32,728	\$238	\$403,017
Furniture and Office Supplies	181	416	—	—	384	104	—	3,259	3,456	—	7,800
Milk and Glasses	—	—	—	—	—	—	—	1,169	—	—	1,169
Medical Supplies	103	655	48	—	233	—	—	2,032	1,277	—	4,348
Printing, Postage & Stationery	4,711	581	4	16	797	221	—	2,448	1,139	—	9,917
Transportation and Cars	480	279	1,756	420	1,885	3,264	—	5,527	752	—	14,363
Telephone, Advtg., Travelling	472	605	111	—	593	278	—	265	355	—	2,679
Uniforms	—	365	26	—	263	126	—	209	—	—	963
Miscellaneous	181	418	—	73	438	850	—	151	567	—	2,704
Insurance, Pensions	12,659	—	—	—	—	—	—	7,389	—	—	20,048
Space and Maintenance	4,696	14,764	—	—	14,766	—	—	2,796	13,087	—	50,109
TOTAL	\$46,889	\$59,493	\$14,942	\$10,474	\$73,387	\$53,576	\$1,694	\$203,063	\$53,361	\$238	\$517,117
	9.1%	11.5%	2.7%	2.0%	14.2%	10.4%	.4%	39.3%	10.3%	.1%	100%

SUMMARY OF STATISTICS

Area of City — 57.67 square miles

	1961	1960	1959	1958	1957
Population	276,018	269,314	260,733	252,131	238,353
Persons per acre of land.....	7.5	7.4	8.8	8.7	8.3
Cost per capita	1.76	1.75	1.63	1.53	1.24
School enrolment	61,555	57,490	53,490	50,173	46,682
Natural increase of population	6,701	6,986	6,889	6,843	6,667
BIRTHS					
Total Births	12,458	12,847	12,425	12,072	11,513
Resident Births only	8,428	8,705	8,599	8,408	8,186
Resident rate per 1000 population	30.4	32.3	32.9	33.3	34.3
STILLBIRTHS					
Total stillbirths	128	142	138	109	135
Resident stillbirths only.....	89	92	84	71	86
Resident stillbirths rate per 1000 living births	10.5	10.5	9.8	8.4	10.5
DEATHS					
Total deaths	2,536	2,552	2,460	2,313	2,284
Resident deaths only	1,726	1,737	1,710	1,565	1,519
Resident rate per 1000 population	6.2	6.5	6.5	6.2	6.3
INFANT MORTALITY					
Total deaths under 1 year of age..	337	326	275	304	277
Resident deaths under 1 year of age	200	199	168	187	174
Resident rate per 1000 living births	23.7	22.8	19.5	22.2	21.2
MATERNAL MORTALITY					
Maternal deaths (Resident only)....	1	0	2	2	1
Rate per 1000 living births.....	.11	.00	.23	.23	.12
MARRIAGES					
Marriages	3,112	3,471	3,270	3,149	3,121
Rate per 1000 population	11.2	12.5	12.3	12.5	13.1

VITAL STATISTICS

	1961	1960	1959	1958	1957
BIRTHS					
Total Births	12,458	12,847	12,425	12,072	11,513
Resident births only	8,428	8,705	8,599	8,408	8,186
Male	4,348	4,518	4,389	4,339	4,106
Female	4,080	4,187	4,210	4,069	4,080
Double Births					
(Resident only)	80	101	82	82	76
Triple Births					
(Resident only)	—	3	1	1	—
Resident					
Illegitimate births	496	463	474	374	348
Total Illegitimate births	806	788	770	647	637
Born in Institutions					
(Residents)	8,426	8,702	8,598	8,401	8,185
Maternal Parentage:					
Canada	6,764	6,898	6,645	6,436	6,476
British Isles	364	365	431	471	361
Europe and Asia	1,170	1,305	1,399	1,388	1,235
U.S.A.	110	112	105	105	94
Other Countries	20	25	19	8	20

RESIDENT LIVE BIRTHS BY AGE OF MOTHER AND ORDER OF BIRTH 1961

	-14	14-19	20-24	25-29	30-34	35-39	Over 40-44	44	Total	%
1st Child	3	615	1,279	494	176	67	19	1	2,654	31.3
2nd Child	—	161	1,059	709	285	87	16	2	2,319	27.5
3rd Child	—	26	428	595	357	138	16	1	1,561	18.6
4th Child	—	2	139	322	281	160	33	1	938	11.2
5th Child	—	—	29	144	151	102	32	1	459	5.5
6th Child	—	—	7	44	86	83	24	4	248	2.9
7th Child	—	—	1	16	51	42	16	—	126	1.5
8th Child	—	—	—	5	18	19	13	1	56	.7
9th Child	—	—	—	4	4	16	10	—	34	.4
10th Child and over	—	—	—	1	9	16	5	2	33	.4
	3	804	2,942	2,334	1,418	730	184	13	8,428	100

STILLBIRTHS	1961	1960	1959	1958	1957
Total Stillbirths	123	142	138	109	135
Resident Stillbirths only	89	92	84	71	86
Male	42	40	50	38	39
Female	47	52	34	33	47
Born in Institutions	88	92	84	71	86

Cause of Foetal Deaths:

Dystocia	14	9	27	22	27
Prematurity	8	10	6	9	4
Toxemia of Pregnancy	5	—	2	3	3
Syphilis	—	8	—	—	—
Malformation	20	17	16	12	19
Placenta and Membranes	20	—	12	10	24
Traumatism, Overwork	—	—	—	—	—
Other Conditions	22	31	21	9	9

DEATHS	1960	1959	1958	1957
Total Deaths	2,536	2,552	2,460	2,313
Resident Deaths only	1,726	1,737	1,710	1,565
Male	1,101	1,087	1,035	1,002
Female	625	650	675	563
Resident Rate per 1,000 population	6.2	6.5	6.5	6.2

Racial Origin:

Canada	558	487	453	547	602
British Isles	481	538	523	454	443
Europe and Asia	521	489	481	429	352
U.S.A.	114	113	96	109	101
Others	53	110	157	26	21

INFANT MORTALITY	1960	1959	1958	1957
Total deaths under 1 year of age	341	326	275	304
Resident deaths under 1 yr. of age	201	199	168	187
Male	124	125	103	121
Female	77	74	65	66
Legitimate	194	183	161	176
Infant mortality rate per 1,000 living births	23.7	22.8	19.5	22.2

Racial Origin:

Canada	161	148	124	154	150
British Isles	7	15	14	9	7
Europe and Asia	30	31	30	21	15
U.S.A.	2	4	—	—	2
Others	1	1	—	3	—

INFANT MORTALITY — 1961

	SEX		BY MONTH												BY AGE					
	Male	Female	January	February	March	April	May	June	July	August	September	October	November	December	1st Day	1st Week	2nd Week	3rd Week	4th Week	Total Under 1 Month
053.1 All other diseases classified as Infective and Parasitic	2	2									1		1					1		1
096.9 Acute Gastro enteritis	1	1			1															1
273 Rupture of Thymus Spontaneous	1	1							1						1					1
340.0 Meningitis, H. Influenza	2	1		1		1											1		1	1
431 Other diseases of heart	1	1								1							1			1
474 Asphyxia—Tracheitis	1	1						1												1
480 Acute haemorrhagic influenza pneumonia	1	1			1															1
490 Lobar pneumonia	1	1												1						1
491 Broncho pneumonia	6	2		1	1	2		1						1			1			3
492 Acute virus pneumonia	9	6	1			2		3				1		2						9
522 All other diseases	2	2	1		1															2
527 Other diseases of Lung and pleural cavity	1	1	1																	1
571 Gastro-enteritis, colitis—age between 4 weeks and 2 years	1	1												1						1
750 Monstrosity	3	1	2						1				2		3					3
751 Spina bifida and meningocele	5	5	1						2				2		1			1	1	1
752 Congenital hydrocephalus	2	2		1				1								1				1
753 Other congenital malformations nervous system	2	1					1				1									1
754 Congenital malformations of circulatory system	13	10	3	2	1	2	1		1	1	2	1	1	1	1	1	3	3	5	6
756 Congenital malformations of digestive system	6	2	4		1						2	1		1	3				1	4
757 Congenital malformations of genito urinary system	2	2				1	1								2					2
758 Congenital malformations of bone and joint	1	1	1																	1
759 Other and unspecified congenital malformations	5	3	2				1	1	2	1					4	1				5
760 Intracranial and spinal injury at birth	5	4	1	1	1			1	2						2	3				5
761 Other birth injury	13	9	4		1	2	1	1	1			2	2	4	11	2				13
762 Postnatal asphyxia and atelectasis	35	25	10	2	1	2	3	4	1	2	6	3	4	4	25	10				35

PRINCIPAL CAUSES OF DEATH, 1961

		Total	Male	Female	% of Total Deaths	Rate per 100,000 Population
420 - 434	Diseases of heart	557	394	163	32.3	201.1
140 - 205	Cancer	306	182	124	17.8	111.2
330 - 334	Vascular lesions affecting central nervous system	177	95	82	10.3	64.1
750 - 776	Diseases of Early Infancy.....	166	106	60	9.5	60.1
800 - 999	External Causes	124	87	37	7.2	44.9
490 - 491	Pneumonia	75	44	31	4.3	27.1
440 - 447	Hypertension	25	13	12	1.4	9.1
260	Diabetes Mellitus	25	13	12	1.4	9.1
410 - 416	Chronic Rheumatic Heart Disease	25	13	12	1.4	9.1
581	Cirrhosis of Liver.....	12	10	2	.6	4.2
	All other causes	235	145	90	13.8	85.1
TOTAL		1726	1101	625		

MORTALITY FROM HEART DISEASE

Year	Total Deaths	Deaths From Heart Disease	Percentage of Total Deaths	Rate per 100M Population
1961	1726	557	32.3	201.1
1960	1737	531	30.6	197.1
1959	1710	485	28.3	186.0
1958	1565	442	28.2	175.0
1957	1519	393	25.8	164.0

MORTALITY FROM CANCER

Year	Total Deaths	Deaths From Cancer	Percentage of Total Deaths	Rate per 100M Population
1961	1726	306	17.8	111.2
1960	1737	349	20.1	129.5
1959	1710	291	17.0	111.6
1958	1565	269	17.7	106.6
1957	1519	270	17.7	113.2

MORTALITY FROM INTRACRANIAL LESIONS OF VASCULAR ORIGIN

Year	Total Deaths	Deaths From This Cause	Percentage of Total Deaths	Rate per 100M Population
1961	1726	177	10.3	64.1
1960	1737	175	10.1	64.9
1959	1710	187	10.9	71.1
1958	1565	162	10.3	64.0
1957	1519	149	9.8	62.5

MORTALITY FROM TUBERCULOSIS

Year	Total Deaths	Deaths From Tuberculosis	Percentage of Total Deaths	Rate per 100M Population
1961	1726	6	.34	2.2
1960	1737	7	.14	3.3
1959	1710	14	.82	5.3
1958	1565	8	.05	3.1
1957	1519	18	1.1	7.5

MORTALITY FROM PNEUMONIA

Year	Total Deaths	Deaths From Pneumonia	Percentage of Total Deaths	Rate per 100M Population
1961	1726	75	4.3	27.1
1960	1737	46	2.6	17.0
1959	1710	65	3.8	24.7
1958	1565	48	3.0	19.4
1957	1519	46	3.0	19.3

MORTALITY FROM EXTERNAL CAUSES

Year	Total Deaths	Deaths From External Causes	Male	Female	Suicide	Homicide	Automobile Accidents	All Other Accidents	Percentage of Deaths	Rate Per 100M Population
1961	1726	124	87	37	25	1	37	61	7.2	44.9
1960	1737	138	102	36	19	4	47	68	10.1	51.2
1959	1710	130	100	30	24	2	45	59	7.6	49.8
1958	1565	119	88	31	23	2	45	49	7.6	47.6
1957	1519	123	95	28	22	4	33	64	8.0	51.6

IMMUNIZATION CLINIC

	1961	1960	1959	1958	1957
No. of persons receiving 1st doses	23,050	29,564	59,203	42,859	29,484
No. of persons receiving reinforcing doses	10,961	7,905	8,267	7,724	6,960
Total procedures	203,193	237,948	269,640	209,654	144,470
Total attendance	80,301	116,443	159,610	133,090	78,042
Phone calls	22,006	23,337	21,579	18,626	13,996
Out of town persons attending clinics	1,350	1,323	2,184	1,184	863
Student days	294	276	275	242	251

CLINICS HELD:

Main Clinic	251	252	250	251	251
Average attendance	99	187	291	261	193
South Side Clinic	251	251	250	250	250
Average attendance	46	78	119	100	60
Woodcroft Clinic	251	251	250	250	250
Average attendance	91	114	148	132	58
Eastwood Clinic	251	251	250	187	—
Average attendance	46	63	79	46	—
Idylwyde Clinic	251	152	(Opened June 1st, 1960)		
Average attendance	37	35			

IMMUNIZATION RECORD 1961

	Immunization Clinics	School Health Service
Diphtheria		
1st dose	8,468	819
Re-inforcing doses	8,377	8,241
Total doses	42,897	10,233
Whooping Cough		
1st dose	8,193	
Re-inforcing doses	7,755	
Total doses	41,217	
Tetanus		
1st dose	9,013	819
Re-inforcing doses	8,355	8,241
Total doses	44,388	10,233
Typhoid		
1st dose	593	
Re-inforcing doses	98	
Total doses	1,726	
Smallpox		
Smallpox vaccinations	9,739	3,538
Poliomyelitis		
1st dose	12,003	517
Re-inforcing doses	7,196	11,102
Total doses	54,581	12,040
Cholera		
1st dose	211	
Total doses	407	
Typhus		
1st dose	81	
Total doses	162	
Others		
Total doses	15	
Schick Test	318	

COMMUNICABLE DISEASE BY AGE 1961

	Total	Under		1/4	5/9	10/14	15/19	20/39	40/59	60 & Over	Not Stat- ed	Non-Resi- dents
		Male	Female									
Dysentery	2	2	...	1	...	...	...	1	...	...	...	...
Encephalitis	...	...	...	...	...	...	...	...	...	...	...	...
Food Poisoning	25	10	15	7	2	...	...	3	5	5	...	12
Measles	1,184	629	555	406	706	30	3	2	2	...	...	11
Meningitis A (Poliovirus)	1	1	...	1	...	...	...	...	...	...	...	...
Meningitis B (Coxsackie virus)	4	1	3	2	...	...	...	1	1	...	...	1
Meningitis D (Other and unspecified)	7	4	3	...	1	1	1	3	1	...	...	12
Poliomyelitis	5	4	1	...	...	...	...	2	1	...	...	7
Rubella	92	42	50	24	32	18	4	1	...	...	...	...
Scarlet Fever and Strep. Throat	284	171	113	41	91	16	73	61	2	...	...	5
Typhoid Fever	6	2	4	2	...	...	1	3	...	...	...	1
Typhoid Fever Carrier	3	2	1	...	...	...	...	2	...	1	...	...
Paratyphoid Fever	1	...	1	...	1	...	...	...	...	...	...	...
Whooping Cough	62	24	38	22	26	10	...	...	...	...	...	2
Tuberculosis (Pulmonary) Active	54	25	29	3	4	...	6	15	15	9	2	...
Tuberculosis (Pulmonary) Inactive	66	33	33	...	...	...	1	29	22	9	5	...
Tuberculosis (other forms) Active	20	8	12	2	1	...	1	11	3	2	...	...
Tuberculosis (other forms) Inactive	6	2	4	...	...	...	...	3	3	...	...	...
VENEREAL DISEASE												
Gonorrhoea	1,928	1,051	877	...	...	4	290	1,616	...	...	18	...
Syphilis	47	29	18	...	...	1	1	45	...	...	...	...
TOTAL	3,797	2,040	1,757	56	864	80	381	1,798	55	26	25	52
DEATHS												
Tuberculosis (Pulmonary)	5	3	2	...	...	...	...	...	...	5	...	15
Tuberculosis (other forms)	1	1	...	...	...	...	...	...	...	1	...	3
Syphilis	2	1	1	...	...	...	1	...	...	1	...	...
TOTAL	8	5	3	...	...	...	1	...	...	7	...	18

COMMUNICABLE DISEASE BY SEASON AND SEX 1961

	Total	Male	Female	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Non-Resident
Dysentery	2	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Encephalitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Food Poisoning	25	10	15	...	...	6	...	...	2	1	7	1	1	...	2	1
Measles	1,184	629	555	10	41	18	18	12	8	12	13	8	136	341	567	11
Meningitis A (Poliovirus)	1	1	...	...	...	...	...	1	...	...	...	...	...	...	4	1
Meningitis B (Coxsackie virus)	4	1	3	3	...	...	...	...	...	...	2	1	1	...	...	12
Meningitis D (Other and unspecified)	7	4	3	...	...	...	...	...	...	...	2	...	...	...	...	7
Poliomyelitis	5	4	1	...	...	1	...	2	...	...	2	...	...	...	...	...
Rubella	92	42	50	11	13	5	6	12	6	2	2	2	5	16	12	...
Scarlet Fever and Strep Throat	284	171	113	31	45	34	27	15	4	1	4	11	45	52	15	5
Typhoid Fever	6	2	4	...	...	...	...	...	5	1	...	...	...	...	...	1
Typhoid Fever Carrier	3	2	1	...	...	...	...	...	1	2	...	...	...	...	...	...
Paratyphoid Fever	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...
Whooping Cough	62	24	38	1	5	5	6	2	7	10	9	4	8	4	1	2
Tuberculosis (Pulmonary) Active	54	25	29	1	3	1	8	...	10	6	5	3	4	6	7	...
Tuberculosis (Pulmonary) Inactive	66	33	33	...	4	4	6	9	13	6	3	4	2	8	7	...
Tuberculosis (other forms) Active	20	8	12	...	...	2	2	2	3	2	...	2	...	1	6	...
Tuberculosis (other forms) Inactive	6	2	4	...	1	1	...	...	...	1	1	...	...	1	1	...
VENEREAL DISEASE																
Gonorrhoea	1,928	1,051	877	139	167	148	162	181	136	81	223	126	183	195	187	...
Syphilis	47	29	18	2	8	6	4	2	5	...	6	6	2	3	3	...
TOTAL	3,797	2,040	1,757	200	287	231	240	243	200	125	277	168	387	627	812	52
DEATHS																
Tuberculosis (Pulmonary)	5	3	2	...	...	...	1	...	1	...	1	1	1	...	...	15
Tuberculosis (Other forms)	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	3
Syphilis	2	1	1	...	1	...	...	...	...	1	...	...	...	...	...	...
TOTAL	8	5	3	...	1	...	1	...	2	1	1	1	1	...	...	18

TUBERCULOSIS CONTROL

	1961	1960	1959	1958	1957
*Cases—Pulmonary Tuberculosis	120	108	139	150	173
**All other forms of T.B.	26	13	30	14	17
Rates per 100,000 population					
Pulmonary Tuberculosis	43.3	40.1	53.3	59.5	72.5
All other forms of T.B.	9.4	4.0	11.5	5.5	7.0
Deaths—Pulmonary Tuberculosis	5	6	12	5	17
All others forms of T.B.	1	1	2	3	1

*Includes Inactive Cases

**Includes Inactive Cases



KINSMEN'S CLUB SERVICE

	1961	1960	1959	1958	1957
Total visits by Nurse	4,171	2,813	3,100	4,466	4,349
Visits to homes	1,030	635	733	954	1,510
Visits to T.B. Cases	820	578	688	915	862
Visits to contact cases	2,128	1,535	1,583	2,421	1,814
Observation, co-operative visits	68	65	96	176	153
Tuberculin tests in homes	729	2,604	709	1,799	573
CHEST SURVEY—City Hall	84	9,898	9,934	7,879	6,922
Industrial	16,734	10,956	10,123	9,029	2,961
Unemployment Insurance Bldg. 2,171	—	—	—	—	—
Edmonton East....	4,775	—	—	—	—
	26,909	25,629	20,057	16,908	9,883

SCHOOL HEALTH SERVICES, 1961

In 1961 pupils attending school served by the Health Department totalled 61,555, an increase of 4,065 over the 1960 figures. *Pari passu* the district nursing establishment was raised to 43.

Periodic examinations by the Medical Officers covered Grades I, V, and X, and all entrants to the school system. Last year's successful trial of the Astoria Plan was extended to include about one-third of the schools: this involved omitting the Grade V examinations and placing greater emphasis on the early detection and follow-up of defects.

Routine audiometry continued in Grade IV. Of those surveyed 9% required individual testing and in the case of 3.5% it was found necessary to make audiograms.

Seventy-seven children of indigent parents were provided with ophthalmic examinations and with spectacles where necessary, and a further eight were assisted with spectacle repairs.

The immunization programme was continued at the normal level. Reinforcing doses of triad (diphtheria, tetanus and poliomyelitis combined) were given in Grades I, V and IX, and smallpox vaccination was offered in Grade II and VIII. Primary immunizing courses against diphtheria and tetanus and against poliomyelitis were administered to the small group starting school without this protection.

It is a pleasure to note the complete absence during the year of poliomyelitis and diphtheria in children of school age.

Tuberculin Vollmer Patch Tests were applied to 17,018 students in Grades I, V and X; 213 positive reactors were referred to the Tuberculosis Division of the Provincial Health Department for further investigation.

Six new cases of tuberculosis in school children were notified: three of the patients belonged to one family and two to another.

In connection with a variety of health problems 7,804 home visits were made, and this represented an increased stress on a time-consuming but most valuable part of the programme.

By way of special health education projects, the district nurses promoted a series of nutritional demonstrations in the schools and also joined in preparations for a continuing programme of instruction on the relationship between cigarette smoking and cancer of the lung.

Monthly staff meetings helped co-ordinate the routine work and gave the nurses the opportunity to attend twelve lectures on a variety of public health topics.



Examinations by Medical Officers:

Complete periodic examinations	16,069
Examinations on special referral	777
Re-examinations	636
Total number of examinations	17,482
Number of pupils with defects (Excluding teeth)	7,266
Parents invited to examinations	10,775
Parents present at examinations	6,748
Pupils referred to physicians	934
Pupils referred to dentists	943

Examinations by Nurses:

Periodic examinations	28,841
Examinations on special referral	35,435
Re-examinations	13,467
Partial examinations	144,615
Total number of examinations	227,934
Number of pupils with defects	39,444
Pupils referred to physicians	5,008
Pupils referred to dentists	3,353

School Nursing Services

Home visits	7,874
Consultations with physicians	507
Consultations with teachers	18,307
Consultations with parents	10,970
Consultations with others	5,276
Pupils given first aid	12,814
Lectures and Talks	434
Students for field work	145

Audiometric Tests:

Number group-tested	5,302
Failures	522
Number tested individually	484
Referred for audiogram	128
Referred for audiogram (other than through school survey)	21
Repeat audiogram	34

DENTAL DIVISION

The school examination and referral teams visited 140 schools. 38,397 children were examined, of whom 28,973 were referred to their family dentist for treatment.

The treatment service for medical indigents were continued. 3,679 appointments were made. 4,592 surface restorations were placed and 857 extractions were performed.

A pre-school pilot study involving examination and parent conferencing was undertaken during August in anticipation of a pre-school program. The dental health levels and needs of this group were investigated and consideration given to the means and methods of administering a routine program of this nature.

A study of the efficacy of dentifrice was initiated in which approximately 2,000 families are participating. Each family is to be supplied with dentifrice and tooth brushes for a three-year period. In relation to this project, a dental health education program is being offered by a dental hygienist. Ultimately an assessment of the response to these efforts will be made, co-incident with study of the most practical methods of utilizing dental hygienists in programs of dental health education.

Dental School Examination and Referral	Total
No. of schools visited	140
No. of children examined	38,397
No. of children with decay present	24,789
No. of children requiring prophylaxis	4,860
No. of children requiring space maintenance	5,765
No. of children requiring orthodontic treatment	3,093
No. of children with no defects	9,424
 Treatment Service	 Total
No. of appointments	3,697
No. of silver amalgams	3,773
No. of silicate or plastic	819
No. of extractions	857
No. of cases completed	772

REGISTER OF PHYSICALLY HANDICAPPED CHILDREN

This register at the end of 1961 contained 1,095 cards pertaining to children of school age who were resident in Edmonton. Those classified as active were being reviewed at appropriate intervals, while it was felt that the inactive group required no further follow-up.

No cards were raised for children who, although physically handicapped, were judged not to need periodic supervision. Accordingly, the figures available do not generally have any statistical value as regards incidence.

Two exceptions to the above might be noted: an incidence in Edmonton school children of 1 per 2,000 for diabetes and 1 per 300 for rheumatic fever might be accepted as registration in these groups has been fairly comprehensive.

The two tables below give a breakdown by numbers and percentages of the cases on record.

Disability	Inactive	Active	Total
1. Orthopedic			
—Muscular Dystrophy	13	....	13
—Osteochondritis	11	8	19
—Rheumatoid Arthritis	8	....	8
—Post Traumatic	2	2	4
—Miscellaneous	14	24	38
			82
2. Infective and Parasitic			
—Poliomyelitis	41	20	61
—Tuberculosis—respiratory	36	7	43
—bone and joint.....	4	5	9
—other	6	2	8
—Other	5	3	8
			209
3. Neoplastic			
—Benign—Haemangioma	3	1	4
—Other	1	....	1
—Malignant—Leukemia	1	....	1
—Central nervous system.....	5	....	5
—Other	5	....	5
4. Allergic, Endocrine, Metabolic and Nutritional			
—Diabetes	22	9	31
—Asthma	21	9	30
—Other—endocrine	2	2	4
—metabolic and nutritional.....	8	....	8
—allergic	2	....	2
5. Diseases of Blood and Blood Primary Organs			
—Haemophilia	8	....	8
—Purpura	1	3	4
—Miscellaneous	3	....	3
6. Mental, Psychoneurotic and Personality Disorders...	14	13	27
7. Diseases of the Nervous System			
—Cerebral Palsy	40	12	52
—Epilepsy	75	13	88
—Spina bifida and Meningocele	6	....	6
—Hydrocephalus	4	3	7
Other	21	6	27
			187

8. Diseases Involving Loss of Special Senses

Eyes—Strabismus	3	3	6
—Cataract	8	4	12
—Glaucoma	3	1	4
—Other	29	20	49
Ears—Impairment of hearing	31	28	59
—Other disease	3	1	4
			134

9. Diseases of Circulatory System

—Congenital Heart Disease	23	17	40
—Rheumatic Fever	110	95	205
—Other	3	1	4

10. Diseases of Respiratory System

	3		3
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11. Diseases of Digestive System

—Cleft Palate and/or Harelip	7	3	10
—Coeliac disease	5	3	8
—Hirschsprung's disease	2	3	5
—Other	2	7	9

32

12. Diseases of Genito-Urinary System	14	4	18
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13. Congenital Malformations	12	13	25
---	----	----	----

14. Birth Injuries	2		2
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15. Speech	2		2
—Organic	4	1	5
—Psychological	4	2	6

11

16. Other	6	4	10
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GROUPPercentage
of Whole

Orthopedic	7.5
Infective and Parasitic	19.1
Neoplastic	1.5
Allergic, Endocrine, Metabolic and Nutritional	6.8
Diseases of Blood and Blood Primary Organs	1.4
Mental, Psychoneurotic and Personality Disorders	2.5
Diseases of the Nervous System	17.1
Diseases Involving Loss of Special Senses	12.2
Diseases of Circulatory System	22.7
Diseases of Respiratory System	0.3
Diseases of Digestive System	2.9
Diseases of Genito-Urinary System	1.6
Congenital Malformations	2.3
Birth Injuries	0.2
Speech	1.0
Other	0.1

WELL BABY AND PRE-SCHOOL CLINICS—1957 TO 1961

	1961	1960	1959	1958	1957
Total attendance	39,201	37,783	36,458	33,672	28,011
Under 1 year	24,396	23,582	23,314	22,844	19,133
1 to 6 years	14,805	14,201	13,144	10,828	8,878
Out of town	2,378	2,394	1,844	1,292	1,128
Number of Clinics held					
Main Clinic	251	251	250	250	250
Average daily attendance	27	32	37	40	44
Average monthly attendance	566	676	772	837	916
South Side Clinic	251	251	250	250	250
Average daily attendance	25	29	37	38	36
Average monthly attendance	513	612	764	782	750
Woodcroft Clinic	251	251	250	250	250
Average daily attendance	42	41	43	40	32
Average monthly attendance	869	865	892	830	668
Eastwood Clinic	251	251	250	187 (Opened	
Average daily attendance	34	33	29	23 Apr./58)	
Average monthly attendance	703	610	611	476	
Idylwyld Clinic	251	154	(Opened June 1st, 1960)		
Average daily attendance	29	24			
Average monthly attendance	617	500			
Total average attendance (5 clinics)	156	151	146	135	112
Total average monthly attendance (5 clinics)	3,267	3,149	3,038	2,806	2,334
Total new admissions	7,657	7,823	7,548	7,104	6,320
Under 1 year	5,938	6,051	5,774	5,469	4,712
1 to 6 years	1,719	1,772	1,774	1,635	1,608
Re-admissions	445	358	386	266	269
Discharged	6,959	6,511	5,826	5,623	4,859
No. of active charts transferred	992	1,278	756	976	498
No. of retired charts transferred	168	159	138	123	79
Total remaining on Roll	21,493	20,794	19,282	17,560	16,079
Home visits	4,907	4,633	4,140	3,473	2,767
Telephone calls	22,280	18,305	16,696	15,078	13,001
Phenylketonuria tests	7,738	7,852	—	—	—
Number seen by doctor	681	678	654	572	627
Referred to family doctor	739	690	631	596	489
Number of student days	373	326	364	305	251

Physicians were in charge at the Main Clinic two afternoons a week and one afternoon a week at the four other clinics.

VICTORIAN ORDER OF NURSES

	1961	1960	1959	1958	1957
Prenatal care	4	3	—	1	1
Prenatal instructions	125	1	3	5	6
Postnatal care	8	14	10	6	1
Postnatal instructions	2,250	2,169	2,130	2,156	2,094
Newborn care	149	118	69	243	203
Newborn instructions	2,151	2,191	2,116	2,071	1,832
Medical and Surgical, etc.	14,254	14,814	14,902	14,657	14,407
Total visits	18,937	19,310	19,230	19,139	18,534
Prenatal clinics held	78	48	49	48	60
Enrolment	268	177	397	—	—
Total attendance	837	1,177	1,406	1,561	2,052
Average attendance	11	25	30	32	33

SANITATION



INSPECTIONS:

	1961	1960
Dwellings	15	71
Hotels, lodging houses, apartment blocks.....	378	443
Schools, blocks, public buildings	87	105
Stores, bakeshops, business establishments	1,936	2,710
Restaurants	3,235	3,758
Garbage cans, etc.....	5	68
Streets, lanes, yards, dumps, etc. ....	.....	4
Aged homes	2	10
Miscellaneous (including barber shops, beauty parlors, auto courts and service stations).....	781	1,122
Public Health Education lectures	28	36
	6,477	8,328
Re-inspections	118	146

NOTICES:

Written	48	105
Verbal	1,913	2,626

COMPLAINTS:

Received from public	545	463
Justified	419	381
Received from other departments	3	10
Referred to other departments	13	14
The complaints were made up as follows:		
Garbage, streets, lanes, etc.	72	95
Vermin	61	49
Housing, plumbing and drainage.....	74	108
Food and drink.....	57	68
Miscellaneous.....	185	143

LICENSES:

License applications investigated	3,850	3,693
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PLUMBING:

Sewer and water notices issued	4	15
Extension of time granted.....	1	1
Plumbing permits issued	3,769	2,487
Plumbing permits issued for old buildings	27	19
Alterations to existing plumbing (fixtures).....	2,550	2,515
Privies eliminated through installation of plumbing	27	19
Number of septic tanks installed	8	6

ANIMALS, BARNs, STYS

	1960	1959
Cow owners	4	8
Hog owners	8	10
Goat owners	1	1
Fur farm owners	—	—

FOOD:

Samples submitted to Provincial Laboratory	6	2
Foodstuffs condemned (pounds)	1,223	149

WATER:

Water samples taken	5	6
Negative	3	5
*Positive	2	1
Wells chlorinated	—	—
Wells condemned	—	—
*Wells condemned or further samples taken after chlorination.		

POISON GAS FUMIGATION:

— —

ENFORCEMENT OF REGULATIONS:

Prosecutions	—	—
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ESTABLISHMENTS CLOSED

— —

Number of student days	22	68
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FOOD INSPECTION



MEATS INSPECTED AND CONDEMNED

Beef:	1961	1960	1959
Number of carcasses inspected.....	5,738	6,533	6,547
Carcasses condemned	13	17	16
Portions condemned	559	656	602
Weight (lbs.) of carcasses and portions condemned	11,785	14,285	13,825
Veal:			
Number of carcasses inspected	647	974	851
Carcasses condemned .....	.....	.....	.....
Portions condemned	8	18	17
Weight (lbs.) of carcasses and portions condemned	40	100	140
Mutton:			
Number of carcasses inspected	79	46	68
Carcasses condemned .....	.....	.....	.....
Portions condemned .....	.....	5	2
Weight (lbs.) of carcasses and portions condemned .....	.....	25	10
Pork:			
Number of carcasses inspected	19,076	18,703	17,915
Carcasses condemned	2	3	6
Portions condemned	1,994	2,000	1,631
Weight (lbs.) of carcasses and portions condemned	17,140	16,210	13,615

CARCASSES FOUND TO BE INFECTED WITH T.B.

Beef:			
Infected	1	.....	.....
Percent	.02	.....	.....
Pork:			
Infected	1,177	1,157	816
Percent	6.86	6.18	4.55

CHIEF CAUSES OF CONDEMNATION, 1961

Beef:	Carcasses	Portions	Weight (lbs.)
Abscess .....	....	403	4,030
Abscess Multiple .....	....	66	660
Actinomycosis .....	....	82	1,725
Adhesions .....	....	3	15
Ascites	1	....	500
Bruised .....	....	1	50
Contamination	2	2	590
Septicemia	7	....	2,790
Toxemia	1	....	450
Tuberculosis	1	2	675
Uraemia	1	....	300
	13	559	11,785

Veal:

Adhesions .....	....	8	40
	....	8	40

Mutton:

Pork:

Abscess .....	....	3	50
Bruised .....	....	3	50
Heat Prostration	1	....	150
Parasites .....	....	1,012	5,060
Septicemia	1	....	60
Tuberculosis .....	....	1,177	11,770
	2	2,194	17,140

DISEASED ANIMALS

	1961	1960	1959
Beef	550	648	575
Veal	8	25	16
Mutton .....	....	5	2
Pork	1,931	1,849	1,589
Total amount of meat condemned (lbs.)	28,965	30,620	27,590

*FOODSTUFFS CONDEMNED BY INSPECTORS

	1961	1960	1959
Poultry	5	....	5
Damaged by fire, flood, etc.	1,212	149	74
Canned goods	6	....	....
Fish .....	....	....	....

*Pounds

MILK AND WATER REPORT

	1961		1960	
	Total No. Premises	No. of Inspections	Total No. Premises	No. of Inspections*
Inspections:				
Producer-shippers, milk	456	1,157	468	1,203
Producer-shippers, cream	59	86	61	65
Producers—Contacts .....	....	204	—	208
Pasteurization Plants—Contacts .....	....	206	—	211
Pasteurization Plants	6	222	6	231
Vehicles .....	....	489	—	200
Others, Complaints, etc. ....	....	11	—	13
Licenses and Permits:				
Retail milk certificates issued		712		692
Dairy Licenses issued		515		529
Dairy Licenses refused		1		4
Dairy Licenses suspended temporarily		1		2
Permits issued to cow keepers in the city		4		10
Samples:				
Milk samples taken, retail		1,193		1,226
Milk samples taken, shippers		5,696		5,850
Cream samples taken		230		229
Chocolate Milk samples		62		114
Ice cream samples .....		....		16
TESTS—Milk:				
Standard Plate Counts		1,193		1,227
Coliform tests		1,193		1,169
Phosphatase tests		1,108		1,029
Methylene blue tests		5,696		5,850
*Butterfat Tests		1,193		1,227
Restaurants:				
Swab tests of utensils		487		716
Water:				
Standard plate counts		1,056		1,096
Coliform tests		1,056		1,096
Chlorine content checks		256		254
Raw river water plate counts		54		6
Swimming Pools:				
Plate counts		730		540
Coliform tests		730		540
Inspections		247		275
Student Days		5		31



