

CANCER INCIDENCE AND PREVALENCE IN THE MANITOBA REGIONAL HEALTH AUTHORITIES

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April, 1998



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Table of Contents

Acknowledgements	iii
Introduction	1
Definitions and Methods	1
Data	2
Tables	4
All sites (ICD-9 140-208, 230-239)	5
All sites excluding other skin (ICD-9 140-172, 174-208, 230-239)	6
Lip (ICD-9 140)	7
Pharynx (ICD-9 146-148)	8
Esophagus (ICD-9 150)	9
Stomach (ICD-9 151)	10
Colon (ICD-9 153)	11
Rectum, rectosigmoid junction, anus (ICD-9 154)	12
Liver, gallbladder, bile ducts (ICD-9 155-156)	13
Pancreas (ICD-9 157)	14
Larynx (ICD-9 161)	15
Trachea, bronchus, lung (ICD-9 162)	16
Connective tissue (ICD-9 171)	17
Melanoma (ICD-9 172)	18
Other skin (ICD-9 173)	19
Breast (ICD-9 174 Female, 175 Male)	20
Cervix uteri (ICD-9 180)	21
Body of uterus (ICD-9 182)	22
Ovary, uterine adnexa (ICD-9 183)	23
Prostate (ICD-9 185)	24
Testis (ICD-9 186)	25
Bladder (ICD-9 188)	26
Kidney (ICD-9 1890)	27
Brain (ICD-9 191)	28

Thyroid (ICD-9 193)	29
Hodgkin's disease (ICD-9 201)	30
Multiple myeloma, immunoproliferative neoplasms (ICD-9 203)	31
Leukemia (ICD-9 204-208)	32
Skin, in situ (ICD-9 232)	33
Breast, in situ (ICD-9 2330)	34
Cervix, in situ (ICD-9 2331)	35
Other, in situ (excluding skin, breast, cervix) (ICD-9 230, 231, 233, 234)	36
Neoplasms uncertain behaviour (ICD-9 235-238)	37
Maps	38
Map of Regional Health Authorities	39
All sites (ICD-9 140-208, 230-239)	40
All sites excluding other skin (ICD-9 140-172, 174-208, 230-239)	41
Colon (ICD-9 153)	42
Trachea, bronchus, lung (ICD-9 162)	43
Breast (ICD-9 174)	44
Breast, in situ (ICD-9 2330)	44
Cervix uteri (ICD-9 180)	45
Body of uterus (ICD-9 182)	45
Ovary, uterine adnexa (ICD-9 183)	46
Prostate (ICD-9 185)	46

Acknowledgements

We would like to thank Anita Desrochers and Yvonne Hopper of the Epidemiology Unit of Manitoba Health for their assistance with the mapping software and the compilation of the report.

We are also grateful to the Manitoba Centre for Health Policy and Evaluation for sharing with us a copy of their computer program that calculates age-standardized rates.

1. Introduction

This report is the culmination of work undertaken by the Epidemiology Unit of Manitoba Health and the Department of Preventive Oncology and Epidemiology of the Manitoba Cancer Treatment and Research Foundation. It provides information on the number and rate of incident (1990-96) and prevalent (1996) cancer cases in each Regional Health Authority (RHA).

The content of the report is broken into two sections. The first is in tabular format and provides information on the incidence and prevalence of cancer in the RHAs by cancer site. In the second part the age-standardized incidence rates for the major cancer sites are mapped, thus allowing for easier comparison of cancer incidence across the RHAs.

2. Definitions and Methods

Incidence is defined as the number of new cases of cancer arising in a given time period in a population of individuals at risk.

The **crude incidence rate** is calculated as the number of new cases of cancer occurring during a given time period divided by the number of persons at risk during the same time period. The mid-year population was used as the population at risk. In this report the rates are calculated per 100,000 population.

The incidence rates for all cancers as well as for selected major sites were mapped according to the RHA of residence at the time of diagnosis. The natural break classification method was used in order to divide the RHAs into quintiles. This method identifies the quintile break points by looking for groupings and patterns inherent in the data.

Prevalence is the number of existing cases of cancer at a given point in time in a population. In this report prevalence is calculated as of December 31, 1996.

It should be noted that since there is no clear definition of 'cure', prevalence includes all people who were ever diagnosed with cancer.

The **crude prevalence rate** is calculated as the number of persons with cancer at a point in time divided by the total population number at that same point in time. In this report the rates are calculated per 100,000 population.

The RHA of current residence was used to calculate prevalence.

Age-standardization refers to a set of techniques used to remove as far as possible the effects of age when comparing two or more populations. An age-standardized rate has no intrinsic value unto itself, as it is dependent on the choice of the standard population. However, it is a means for taking into account the differing age structure between the RHAs and thus allows for a more accurate comparison between RHAs.

The direct method for standardization was used. In this method the age-specific cancer rates in a study population (e.g. a RHA) are applied to a standard population in order to obtain the expected number of cancer cases. Direct standardization reflects the number of cases that would have resulted if the populations being compared had identical age distributions. The 1996 Manitoba population was used as the standard population.

3. Data

3.1 Incidence

The incidence data were derived from the Manitoba Cancer Registry which is maintained by the Manitoba Cancer Treatment and Research Foundation.

If a person develops more than one primary tumour, the Cancer Registry enters one record for each tumour. Accordingly, some individuals appear in the Cancer Registry more than once. The number of incident cases in this report reflect the number of tumours registered, which is slightly larger than the number of people registered with cancer.

The number of incident cases for each year for the period 1990-96 is provided. However, due to the small number of cases for some regions and for some cancer sites, for the calculation of incidence rates we have aggregated the data for the seven year period.

3.2 Prevalence

In order to calculate the prevalence of cancer it is necessary to know of those Manitobans ever diagnosed with cancer, how many are still alive and residing in Manitoba. To obtain such information the Cancer Registry was linked to a version of the Manitoba Population Registry which is maintained by the Epidemiology Unit of Manitoba Health. The Population Registry includes all Manitoba residents who are eligible for medical coverage under the provincial medical plan and contains information on coverage start and termination (either by out-migration from Manitoba or death) dates.

The estimated prevalence presented in this report will be a slight undercount of the actual count for two reasons. First, due to the quality and detail of the recording of information on some records, it was not possible to link all cancer patients to the Population Registry. Second, those people who were diagnosed with cancer outside of the province and subsequent to coming to Manitoba have never been treated for their cancer, would not appear in the cancer registry.

3.3 Population

The population figures required to calculate the various rates were extracted from the Manitoba Population Registry.

CAUTION: As noted above, some of the crude and age-standardized rates are based on small numbers and therefore will have a large degree of variability associated with them. When examining the rates the reader is urged to take in to account the number of cases on which the rate is based.

Incidence (1990-96) and Prevalence (December 31, 1996) Tables

(All rates are per 100,000 population)

All sites (ICD-9 140-208, 230-239)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude Rate 1990-96	Stand Rate	Number	Crude Rate Dec. 31, 1996	Stand Rate
				1993	1994	1995	1996	1990-96					
Males													
Winnipeg	1918	1967	2207	2241	2264	2159	2037	14793	671.0	811.1	13713	4380.8	5195.4
Brandon	152	170	205	169	191	182	171	1240	801.4	910.6	1253	5690.5	6210.9
North Eastman	102	98	114	133	137	128	112	824	620.7	717.0	781	3987.9	4589.2
South Eastman	127	137	143	147	154	135	130	973	541.5	722.3	976	3679.3	4919.3
Interlake	236	279	280	316	294	268	267	1940	751.7	812.4	1713	4598.9	4932.4
Central	345	335	372	365	335	327	340	2419	736.3	811.2	2343	4870.0	5411.5
Marquette	170	191	207	223	208	198	216	1413	1085.5	864.0	1368	7416.6	5896.1
South Westman	176	175	237	233	217	215	211	1464	1121.3	914.9	1506	8208.0	6672.4
Parkland	186	200	213	238	225	213	200	1475	943.7	777.6	1300	5903.7	4810.0
Norman	48	45	64	70	66	64	44	401	459.8	767.9	298	2413.9	4069.0
Burntwood	42	32	41	45	42	44	46	292	183.3	532.9	218	930.0	2556.1
Churchill	1	0	1	0	4	3	2	11	263.9	578.6	9	1639.3	2184.9
Total	3503	3629	4084	4180	4137	3936	3776	27245	694.0	810.3	25478	4536.2	5247.8
Females													
Winnipeg	2171	2124	2169	2195	2256	2398	2336	15649	670.6	623.0	21882	6583.7	5904.5
Brandon	164	212	208	185	197	178	219	1363	810.5	755.2	1905	7865.1	7131.7
North Eastman	96	102	111	88	91	96	96	680	543.4	587.8	1007	5410.2	5668.4
South Eastman	146	119	138	136	160	118	137	954	549.0	626.9	1379	5360.5	5947.0
Interlake	222	274	242	254	270	266	302	1830	735.0	702.5	2491	6888.4	6436.1
Central	243	252	288	327	312	300	313	2035	620.8	588.0	2808	5857.6	5458.4
Marquette	144	144	165	172	193	167	167	1152	890.3	670.5	1622	8785.1	6442.5
South Westman	144	169	190	191	184	176	194	1248	955.3	725.1	1673	9061.4	6694.9
Parkland	126	137	160	165	181	173	191	1133	738.0	573.3	1560	7165.2	5502.7
Norman	44	45	61	66	68	60	65	409	491.9	639.3	554	4700.1	5991.4
Burntwood	36	56	52	70	68	56	73	411	275.4	497.2	527	2371.3	4053.2
Churchill	4	6	3	4	3	4	6	30	787.2	943.3	24	4761.9	7446.7
Total	3540	3640	3787	3853	3983	3992	4099	26894	667.8	633.7	37432	6473.5	5978.7

All sites excluding other skin (ICD-9 140-172, 174-208, 230-239)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number 1993	1994	1995	1996	1990-96	Crude Rate 1990-96	Stand Rate	Number Dec. 31, 1996	Crude Rate	Stand Rate
Males													
Winnipeg	1479	1513	1713	1809	1776	1657	1581	11528	522.9	631.9	9034	2886.0	3404.7
Brandon	101	116	145	113	127	119	126	847	547.4	619.9	719	3265.4	3558.3
North Eastman	79	81	100	108	105	96	80	649	488.9	567.0	516	2634.8	3034.6
South Eastman	111	105	108	113	117	102	89	745	414.6	550.5	628	2367.4	3128.2
Interlake	172	227	222	259	225	215	208	1528	592.1	639.5	1113	2988.1	3186.5
Central	265	258	283	279	248	234	238	1805	549.4	605.0	1434	2980.6	3300.8
Marquette	118	141	154	164	132	145	144	998	766.7	606.5	795	4310.1	3426.9
South Westman	112	115	161	155	147	147	152	989	757.5	614.8	807	4398.3	3592.9
Parkland	148	161	164	192	171	154	158	1148	734.5	603.2	819	3719.3	3037.5
Norman	32	37	48	59	56	53	34	319	365.8	604.0	207	1676.8	2838.2
Burntwood	32	28	39	40	40	37	35	251	157.6	457.6	177	755.1	2017.2
Churchill	0	0	0	0	3	3	2	8	191.9	496.1	5	910.7	1358.7
Total	2649	2782	3137	3291	3147	2962	2847	20815	530.2	618.2	16254	2893.9	3331.4
Females													
Winnipeg	1785	1757	1795	1789	1861	1992	1889	12868	551.4	513.5	17347	5219.3	4728.7
Brandon	109	158	150	149	158	141	166	1031	613.1	574.5	1392	5747.1	5325.5
North Eastman	71	84	95	70	73	83	79	555	443.5	475.7	803	4314.2	4480.9
South Eastman	113	87	101	109	118	89	111	728	418.9	476.1	1067	4147.7	4594.8
Interlake	180	212	196	211	221	210	234	1464	588.0	562.4	1932	5342.6	5013.4
Central	182	203	234	247	241	238	258	1603	489.0	466.2	2117	4416.1	4186.9
Marquette	111	119	129	121	143	127	119	869	671.6	519.5	1159	6277.4	4853.9
South Westman	100	112	144	125	116	128	133	858	656.8	510.2	1109	6006.6	4650.5
Parkland	98	105	119	132	133	138	154	879	572.6	455.2	1155	5305.0	4267.5
Norman	36	38	57	55	57	49	53	345	415.0	527.0	458	3885.6	4798.4
Burntwood	34	51	48	66	59	54	70	382	256.0	454.8	491	2209.3	3572.8
Churchill	4	4	3	4	3	4	5	27	708.5	828.2	21	4166.7	6563.5
Total	2823	2930	3071	3078	3183	3253	3271	21609	536.6	511.0	29051	5024.1	4695.7

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				Crude Rate 1990-96	Stand Rate	Number	Crude Rate Dec. 31, 1996	Stand Rate	
				1993	1994	1995	1996						1990-96
Males													
Winnipeg	14	13	10	15	7	12	7	78	3.5	4.5	201	64.2	79.8
Brandon	2	5	3	2	2	2	1	17	11.0	13.1	43	195.3	218.2
North Eastman	1	0	2	2	2	2	3	12	9.0	10.2	31	158.3	186.2
South Eastman	2	2	3	3	1	3	1	15	8.3	11.0	34	128.2	166.7
Interlake	5	5	5	2	1	4	3	25	9.7	9.4	64	171.8	186.6
Central	11	9	10	5	7	6	6	54	16.4	18.4	109	226.6	252.7
Marquette	7	5	4	5	3	3	3	30	23.0	18.7	77	417.5	330.0
South Westman	5	9	8	5	7	4	9	47	36.0	29.2	94	512.3	418.5
Parkland	5	6	4	6	8	11	3	43	27.5	23.2	69	313.4	258.2
Norman	2	0	0	0	0	1	2	5	5.7	10.2	12	97.2	188.7
Burntwood	0	2	0	0	0	0	0	2	1.3	1.6	2	8.5	10.7
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	54	56	49	45	38	48	38	328	8.4	9.9	736	131.0	155.6
Females													
Winnipeg	1	3	1	0	5	8	5	23	1.0	0.9	44	13.2	11.2
Brandon	1	0	0	3	0	2	0	6	3.6	3.0	8	33.0	29.3
North Eastman	0	1	0	0	0	0	0	1	0.8	0.7	3	16.1	15.8
South Eastman	0	2	0	0	0	0	0	2	1.2	1.4	1	3.9	4.8
Interlake	0	2	1	0	1	0	1	5	2.0	1.9	8	22.1	20.3
Central	0	3	1	2	2	1	2	11	3.4	3.1	12	25.0	22.2
Marquette	0	0	1	1	1	1	1	5	3.9	3.0	7	37.9	26.3
South Westman	0	1	1	0	0	0	1	3	2.3	1.5	5	27.1	20.6
Parkland	1	1	0	1	1	0	0	4	2.6	1.7	9	41.3	24.1
Norman	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Burntwood	0	0	0	0	0	0	0	0	0.0	0.0	1	4.5	21.1
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	3	13	5	7	10	12	10	60	1.5	1.4	98	16.9	15.0

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude Rate 1990-96	Stand Rate	Number Dec. 31, 1996	Crude Rate	Stand Rate
				1993	1994	1995	1996	1990-96					
Males													
Winnipeg	23	20	15	15	20	17	15	125	5.7	6.2	63	20.1	21.7
Brandon	1	0	0	0	1	0	0	2	1.3	1.6	0	0.0	0.0
North Eastman	1	0	1	0	0	0	0	2	1.5	1.4	1	5.1	4.5
South Eastman	1	0	0	0	1	1	0	3	1.7	2.1	1	3.8	4.0
Interlake	1	3	2	1	2	0	2	11	4.3	4.0	7	18.8	17.6
Central	1	0	0	1	1	1	1	5	1.5	1.6	1	2.1	2.2
Marquette	1	0	2	0	1	0	0	4	3.1	2.3	2	10.8	8.3
South Westman	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Parkland	1	2	0	0	0	2	2	7	4.5	3.9	7	31.8	28.9
Norman	0	3	1	1	0	0	0	5	5.7	8.2	1	8.1	8.0
Burntwood	0	0	1	0	1	0	1	3	1.9	3.2	2	8.5	9.4
Churchill	0	0	0	0	0	2	1	3	72.0	119.4	2	364.3	599.1
Total	30	28	22	18	27	23	22	170	4.3	4.7	87	15.5	16.5
Females													
Winnipeg	5	4	4	1	6	3	6	29	1.2	1.2	35	10.5	9.6
Brandon	1	0	0	0	0	0	0	1	0.6	0.6	1	4.1	4.3
North Eastman	1	1	0	0	0	0	0	2	1.6	1.8	0	0.0	0.0
South Eastman	0	0	1	0	0	0	0	1	0.6	0.7	0	0.0	0.0
Interlake	0	1	0	1	0	0	0	2	0.8	0.7	1	2.8	2.6
Central	0	1	0	0	0	0	0	1	0.3	0.3	0	0.0	0.0
Marquette	0	0	0	1	0	0	0	1	0.8	0.5	2	10.8	6.4
South Westman	1	0	0	0	0	1	1	3	2.3	1.9	3	16.2	12.0
Parkland	1	0	0	0	0	2	0	3	2.0	1.8	2	9.2	5.8
Norman	1	0	0	0	0	0	0	1	1.2	1.3	2	17.0	22.3
Burntwood	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Churchill	1	0	0	0	0	0	0	1	26.2	34.1	0	0.0	0.0
Total	11	7	5	3	6	6	7	45	1.1	1.1	46	8.0	7.4

Esophagus (ICD-9 150)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude Rate	Stand Rate	Number	Crude Rate	Stand Rate
				1993	1994	1995	1996	1990-96	1990-96	Dec. 31, 1996		Dec. 31, 1996	
Males													
Winnipeg	17	14	17	27	18	18	10	121	5.5	6.4	17	5.4	5.8
Brandon	1	1	1	0	2	2	0	7	4.5	5.3	1	4.5	4.6
North Eastman	0	0	2	1	0	0	1	4	3.0	4.1	1	5.1	4.2
South Eastman	3	0	0	1	0	2	4	10	5.6	7.5	2	7.5	9.0
Interlake	3	3	1	2	4	5	2	20	7.7	7.9	5	13.4	12.8
Central	1	4	3	3	4	1	3	19	5.8	6.7	3	6.2	6.8
Marquette	3	1	0	0	1	0	1	6	4.6	3.5	0	0.0	0.0
South Westman	0	1	2	4	0	2	1	10	7.7	6.1	2	10.9	8.6
Parkland	0	0	1	0	4	2	0	7	4.5	3.6	0	0.0	0.0
Norman	1	0	0	1	2	0	0	4	4.6	8.8	1	8.1	21.2
Burntwood	1	0	0	0	1	0	0	2	1.3	4.4	0	0.0	0.0
Churchill	0	0	0	0	0	1	1	2	48.0	66.2	1	182.1	224.1
Total	30	24	27	39	36	33	23	212	5.4	6.3	33	5.9	6.4
Females													
Winnipeg	9	9	8	9	9	7	7	58	2.5	2.2	20	6.0	5.1
Brandon	1	0	1	1	3	0	0	6	3.6	3.1	1	4.1	2.9
North Eastman	0	0	0	0	0	0	0	0	0.0	0.0	1	5.4	6.7
South Eastman	2	1	0	0	1	0	0	4	2.3	2.7	0	0.0	0.0
Interlake	0	2	1	1	2	1	2	9	3.6	3.5	2	5.5	5.2
Central	0	2	1	4	1	2	2	12	3.7	3.4	2	4.2	4.6
Marquette	0	0	1	1	0	0	0	2	1.5	1.0	0	0.0	0.0
South Westman	0	1	0	0	0	1	1	3	2.3	1.8	2	10.8	7.5
Parkland	0	0	2	0	0	1	1	4	2.6	2.0	1	4.6	3.9
Norman	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Burntwood	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	12	15	14	16	16	12	13	98	2.4	2.2	29	5.0	4.4

Stomach (ICD-9 151)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number 1993	1994	1995	1996	1990-96	Crude Rate 1990-96	Stand Rate	Number Dec. 31, 1996	Crude Rate	Stand Rate
Males													
Winnipeg	47	35	46	55	35	40	49	307	13.9	17.3	102	32.6	38.5
Brandon	3	3	6	6	2	4	4	28	18.1	20.6	14	63.6	67.3
North Eastman	6	2	2	1	3	3	1	18	13.6	15.1	4	20.4	25.0
South Eastman	4	2	3	3	2	2	3	19	10.6	14.9	7	26.4	32.1
Interlake	7	8	5	6	6	4	6	42	16.3	17.9	16	43.0	50.0
Central	2	7	6	9	8	6	3	41	12.5	13.9	13	27.0	30.7
Marquette	2	1	5	4	2	4	4	22	16.9	13.5	9	48.8	39.5
South Westman	2	4	6	3	2	2	5	24	18.4	14.6	9	49.1	38.6
Parkland	10	8	6	3	2	2	1	32	20.5	16.3	12	54.5	43.7
Norman	1	4	3	2	0	3	0	13	14.9	27.8	1	8.1	14.7
Burntwood	1	0	2	2	0	1	0	6	3.8	13.5	2	8.5	14.1
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	85	74	90	94	62	71	76	552	14.1	16.7	189	33.7	39.2
Females													
Winnipeg	28	26	29	29	27	18	35	192	8.2	7.4	74	22.3	19.0
Brandon	1	0	0	4	6	1	2	14	8.3	7.4	3	12.4	11.0
North Eastman	4	0	2	1	1	0	0	8	6.4	7.6	1	5.4	6.2
South Eastman	2	4	1	2	1	1	0	11	6.3	7.4	1	3.9	4.2
Interlake	3	5	4	5	3	4	4	28	11.2	10.7	7	19.4	17.7
Central	1	6	4	5	3	1	2	22	6.7	5.6	6	12.5	11.0
Marquette	4	6	1	1	2	1	2	17	13.1	8.6	3	16.2	10.4
South Westman	0	0	1	2	2	2	0	7	5.4	4.1	3	16.2	15.4
Parkland	3	4	3	2	1	3	4	20	13.0	9.4	8	36.7	28.1
Norman	0	1	0	1	1	1	0	4	4.8	7.1	0	0.0	0.0
Burntwood	0	1	0	0	0	0	1	2	1.3	4.2	1	4.5	21.2
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	46	53	45	52	47	32	50	325	8.1	7.4	107	18.5	16.4

Colon (ICD-9 153)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number		1995	1996	1990-96	Crude	Stand	Number	Crude	Stand
				1993	1994				Rate	Rate		Rate	Rate
										Dec. 31, 1996			
Males													
Winnipeg	128	119	112	131	132	129	135	886	40.2	50.6	797	254.6	314.6
Brandon	11	11	13	10	8	4	16	73	47.2	54.2	60	272.5	298.3
North Eastman	7	10	7	3	6	8	8	49	36.9	46.6	35	178.7	204.2
South Eastman	4	9	4	6	5	6	8	42	23.4	32.2	43	162.1	230.4
Interlake	14	15	16	17	12	20	13	107	41.5	45.8	84	225.5	247.5
Central	18	19	18	15	27	20	15	132	40.2	44.4	120	249.4	277.5
Marquette	10	10	16	13	10	15	15	89	68.4	53.7	62	336.1	263.9
South Westman	12	5	20	15	15	11	15	93	71.2	56.6	75	408.8	330.8
Parkland	14	12	8	12	12	6	9	73	46.7	38.0	54	245.2	195.9
Norman	1	3	1	6	3	4	3	21	24.1	37.6	18	145.8	285.6
Burntwood	3	5	1	4	1	3	2	19	11.9	37.4	15	64.0	164.7
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	222	218	216	232	231	226	239	1584	40.3	48.2	1363	242.7	287.7
Females													
Winnipeg	130	133	151	141	129	141	125	950	40.7	36.7	1009	303.6	256.7
Brandon	8	16	12	9	10	15	12	82	48.8	42.3	97	400.5	326.9
North Eastman	6	8	9	8	7	6	7	51	40.8	45.3	48	257.9	280.3
South Eastman	9	3	8	13	10	6	5	54	31.1	36.3	61	237.1	269.7
Interlake	9	15	11	14	14	11	16	90	36.1	34.3	73	201.9	185.2
Central	10	16	24	18	22	11	18	119	36.3	32.4	130	271.2	232.0
Marquette	7	12	14	9	11	12	15	80	61.8	39.6	82	444.1	266.3
South Westman	16	14	11	12	8	15	17	93	71.2	48.3	95	514.5	327.7
Parkland	6	10	7	12	7	11	8	61	39.7	27.3	74	339.9	215.6
Norman	1	6	3	0	5	4	3	22	26.5	37.3	18	152.7	228.9
Burntwood	2	2	2	1	2	0	1	10	6.7	22.3	7	31.5	113.9
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	204	235	252	237	225	232	227	1612	40.0	36.7	1694	293.0	254.6

Rectum, rectosigmoid junction, anus (ICD-9 154)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude	Stand	Number	Crude	Stand
				1993	1994	1995	1996	1990-96	Rate	Rate		Rate	Rate
										Dec. 31, 1996			
Males													
Winnipeg	68	70	71	76	73	71	62	491	22.3	26.7	437	139.6	166.6
Brandon	7	6	9	5	7	3	3	40	25.9	29.5	37	168.0	184.4
North Eastman	2	3	5	2	4	4	2	22	16.6	18.3	31	158.3	189.7
South Eastman	5	6	4	3	4	3	7	32	17.8	22.9	26	98.0	130.9
Interlake	5	11	6	11	18	3	11	65	25.2	27.5	52	139.6	152.8
Central	7	14	15	16	7	11	11	81	24.7	27.1	65	135.1	150.8
Marquette	4	5	1	7	3	5	8	33	25.4	20.6	33	178.9	141.8
South Westman	5	5	3	5	7	9	9	43	32.9	26.4	38	207.1	166.1
Parkland	11	8	10	10	5	13	5	62	39.7	33.1	39	177.1	142.5
Norman	1	2	4	2	3	2	0	14	16.1	25.9	10	81.0	136.8
Burntwood	1	1	2	0	1	0	2	7	4.4	17.3	4	17.1	36.9
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	1	182.1	371.7
Total	116	131	130	137	132	124	120	890	22.7	26.1	773	137.6	159.6
Females													
Winnipeg	53	54	49	44	40	48	42	330	14.1	12.9	378	113.7	96.9
Brandon	3	6	2	7	5	5	3	31	18.4	17.1	28	115.6	98.8
North Eastman	2	2	2	2	3	1	1	13	10.4	11.8	14	75.2	90.9
South Eastman	4	1	3	4	1	2	6	21	12.1	14.1	26	101.1	114.9
Interlake	2	7	4	11	4	5	7	40	16.1	15.3	30	83.0	76.2
Central	6	5	7	5	9	12	10	54	16.5	15.4	60	125.2	108.9
Marquette	3	3	5	0	2	6	5	24	18.5	12.0	32	173.3	106.9
South Westman	7	1	5	3	2	4	3	25	19.1	13.3	32	173.3	108.5
Parkland	4	3	4	5	1	8	5	30	19.5	13.9	31	142.4	99.1
Norman	0	0	2	2	2	4	1	11	13.2	19.0	8	67.9	103.8
Burntwood	0	0	1	0	2	0	1	4	2.7	5.0	4	18.0	39.3
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	84	82	84	83	71	95	84	583	14.5	13.5	643	111.2	97.6

Liver, gallbladder, bile ducts (ICD-9 155-156)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude	Stand	Number	Crude	Stand
				1993	1994	1995	1996	1990-96	Rate	Rate		Rate	Rate
										Dec. 31, 1996			
Males													
Winnipeg	31	18	23	18	27	25	38	180	8.2	9.9	34	10.9	11.9
Brandon	1	0	0	0	1	1	2	5	3.2	3.8	0	0.0	0.0
North Eastman	1	0	3	0	2	3	0	9	6.8	8.6	0	0.0	0.0
South Eastman	2	2	4	1	3	1	0	13	7.2	10.6	0	0.0	0.0
Interlake	3	1	3	4	0	2	4	17	6.6	7.3	3	8.1	7.0
Central	4	5	4	4	0	1	1	19	5.8	6.4	4	8.3	9.3
Marquette	1	3	3	0	1	3	0	11	8.5	6.8	4	21.7	20.5
South Westman	2	1	1	2	1	1	3	11	8.4	6.7	2	10.9	8.6
Parkland	2	2	3	1	1	1	1	11	7.0	5.5	2	9.1	7.1
Norman	1	0	0	0	0	1	0	2	2.3	6.0	0	0.0	0.0
Burntwood	0	0	2	1	1	0	2	6	3.8	14.8	1	4.3	19.3
Churchill	0	0	0	0	1	0	0	1	24.0	53.2	1	182.1	163.8
Total	48	32	46	31	38	39	51	285	7.3	8.6	51	9.1	9.9
Females													
Winnipeg	15	18	14	10	36	33	19	145	6.2	5.6	33	9.9	9.0
Brandon	1	1	4	0	5	0	1	12	7.1	6.3	2	8.3	7.5
North Eastman	2	0	1	0	0	0	1	4	3.2	3.5	0	0.0	0.0
South Eastman	0	4	0	2	3	2	2	13	7.5	8.9	4	15.5	17.7
Interlake	1	0	1	2	5	3	2	14	5.6	5.5	3	8.3	7.7
Central	4	2	4	2	0	0	6	18	5.5	4.8	4	8.3	7.9
Marquette	4	1	3	2	5	2	0	17	13.1	10.2	1	5.4	5.5
South Westman	0	2	0	2	1	3	1	9	6.9	4.5	3	16.2	9.9
Parkland	1	2	3	2	1	2	2	13	8.5	5.4	3	13.8	9.1
Norman	0	0	1	1	1	1	0	4	4.8	7.8	0	0.0	0.0
Burntwood	1	0	1	1	0	0	1	4	2.7	13.7	2	9.0	24.6
Churchill	0	0	0	0	0	1	0	1	26.2	69.1	1	198.4	344.8
Total	29	30	32	24	57	47	35	254	6.3	5.8	56	9.7	8.9

Pancreas (ICD-9 157)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				1990-96	Crude Rate 1990-96	Stand Rate	Number	Crude Rate Dec. 31, 1996	Stand Rate
				1993	1994	1995	1996						
Males													
Winnipeg	37	36	37	34	35	39	39	257	11.7	14.5	23	7.3	8.1
Brandon	4	2	4	3	5	0	1	19	12.3	13.8	0	0.0	0.0
North Eastman	4	0	1	2	1	1	1	10	7.5	8.7	2	10.2	9.1
South Eastman	1	0	3	1	2	4	1	12	6.7	9.5	2	7.5	8.4
Interlake	4	6	2	2	2	3	5	24	9.3	10.0	4	10.7	11.6
Central	6	1	1	6	2	4	2	22	6.7	7.5	1	2.1	2.2
Marquette	5	4	3	4	3	4	2	25	19.2	15.3	1	5.4	5.7
South Westman	2	0	1	2	2	2	1	10	7.7	5.9	0	0.0	0.0
Parkland	7	6	8	7	6	2	5	41	26.2	21.4	4	18.2	14.7
Norman	1	0	1	1	2	1	0	6	6.9	12.7	0	0.0	0.0
Burntwood	0	0	0	1	0	2	1	4	2.5	9.5	1	4.3	5.3
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	71	55	61	63	60	62	58	430	11.0	13.0	38	6.8	7.4
Females													
Winnipeg	37	38	38	35	34	41	32	255	10.9	9.8	20	6.0	5.4
Brandon	2	2	0	2	1	1	3	11	6.5	5.5	2	8.3	6.2
North Eastman	1	2	3	2	0	2	0	10	8.0	9.1	2	10.7	11.4
South Eastman	0	1	1	2	0	1	1	6	3.5	4.1	1	3.9	4.5
Interlake	1	5	2	5	3	2	7	25	10.0	9.3	2	5.5	4.9
Central	7	5	9	5	5	4	7	42	12.8	11.5	3	6.3	4.6
Marquette	4	2	2	0	2	2	0	12	9.3	6.0	2	10.8	6.4
South Westman	2	6	6	1	4	2	2	23	17.6	12.7	1	5.4	4.0
Parkland	3	4	4	5	7	3	5	31	20.2	13.3	3	13.8	9.0
Norman	0	0	1	1	0	2	1	5	6.0	8.5	0	0.0	0.0
Burntwood	1	1	1	3	1	0	2	9	6.0	13.4	1	4.5	7.2
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	58	66	67	61	57	60	60	429	10.7	9.7	37	6.4	5.8

Larynx (ICD-9 161)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude	Stand	Number	Crude	Stand
				1993	1994	1995	1996	1990-96	Rate	Rate		Rate	Rate
										Dec. 31, 1996			
Males													
Winnipeg	14	17	19	23	12	27	23	135	6.1	7.0	175	55.9	65.9
Brandon	1	1	0	0	2	0	2	6	3.9	4.4	6	27.2	29.8
North Eastman	0	2	0	0	2	2	1	7	5.3	6.4	6	30.6	39.6
South Eastman	0	0	0	0	1	1	0	2	1.1	1.3	7	26.4	34.4
Interlake	3	3	4	5	0	1	1	17	6.6	6.8	18	48.3	50.6
Central	1	3	7	3	4	1	4	23	7.0	7.8	28	58.2	64.1
Marquette	1	2	2	1	1	1	7	15	11.5	9.2	14	75.9	58.6
South Westman	1	1	0	2	1	2	1	8	6.1	5.2	10	54.5	43.6
Parkland	1	1	0	1	1	2	0	6	3.8	3.1	12	54.5	42.7
Norman	0	0	2	2	0	1	0	5	5.7	7.3	4	32.4	51.4
Burntwood	0	0	1	0	1	0	0	2	1.3	1.6	3	12.8	35.5
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	22	30	35	37	25	38	39	226	5.8	6.5	283	50.4	57.9
Females													
Winnipeg	4	3	1	4	6	2	5	25	1.1	1.0	37	11.1	9.9
Brandon	0	0	0	0	1	0	0	1	0.6	0.5	4	16.5	13.9
North Eastman	0	0	0	2	0	0	0	2	1.6	1.7	0	0.0	0.0
South Eastman	0	1	0	0	0	0	0	1	0.6	0.7	2	7.8	8.5
Interlake	0	0	0	1	1	0	0	2	0.8	0.7	4	11.1	10.1
Central	0	0	0	1	2	0	0	3	0.9	0.8	3	6.3	6.1
Marquette	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
South Westman	0	0	3	0	0	1	0	4	3.1	2.4	4	21.7	17.1
Parkland	2	0	0	0	0	0	2	4	2.6	2.0	4	18.4	12.5
Norman	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Burntwood	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	6	4	4	8	10	3	7	42	1.0	1.0	58	10.0	9.2

Trachea, bronchus, lung (ICD-9 162)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number		1995	1996	1990-96	Crude	Stand	Number	Crude	Stand
				1993	1994				Rate	Rate		Rate	Rate
										Dec. 31, 1996			
Males													
Winnipeg	244	243	273	282	276	256	243	1817	82.4	100.1	462	147.6	172.7
Brandon	20	24	18	13	13	16	19	123	79.5	89.4	30	136.2	148.6
North Eastman	12	11	12	15	13	10	13	86	64.8	73.2	18	91.9	94.1
South Eastman	17	14	16	13	16	19	9	104	57.9	75.5	33	124.4	165.2
Interlake	30	38	32	45	26	33	36	240	93.0	99.0	53	142.3	144.9
Central	40	35	32	28	34	31	41	241	73.4	80.1	67	139.3	154.6
Marquette	20	22	19	31	18	25	18	153	117.5	91.5	44	238.5	184.7
South Westman	16	15	19	19	18	24	18	129	98.8	80.1	27	147.2	119.3
Parkland	26	24	21	25	30	20	21	167	106.8	86.4	35	158.9	128.1
Norman	9	8	11	8	7	5	9	57	65.4	109.4	13	105.3	160.7
Burntwood	5	4	8	6	6	8	7	44	27.6	80.1	10	42.7	173.2
Churchill	0	0	0	0	1	0	0	1	24.0	137.1	0	0.0	0.0
Total	439	438	461	485	458	447	434	3162	80.5	93.5	792	141.0	160.8
Females													
Winnipeg	169	168	167	170	190	202	211	1277	54.7	50.4	434	130.6	116.3
Brandon	16	7	9	15	11	11	18	87	51.7	48.0	33	136.2	123.6
North Eastman	3	9	4	4	12	11	6	49	39.2	41.9	18	96.7	106.3
South Eastman	4	5	6	4	7	6	8	40	23.0	27.1	19	73.9	81.9
Interlake	23	12	26	16	23	23	28	151	60.6	56.5	45	124.4	113.8
Central	16	14	11	13	16	14	10	94	28.7	27.0	31	64.7	58.6
Marquette	9	6	11	7	13	11	9	66	51.0	35.5	21	113.7	81.6
South Westman	10	8	11	6	9	10	6	60	45.9	33.4	20	108.3	78.9
Parkland	11	11	11	9	8	13	16	79	51.5	37.5	23	105.6	83.9
Norman	1	2	5	5	6	7	5	31	37.3	52.8	15	127.3	166.6
Burntwood	3	5	1	3	4	6	1	23	15.4	44.6	3	13.5	34.6
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	265	247	262	252	299	314	318	1957	48.6	45.6	662	114.5	105.1

Connective tissue (ICD-9 171)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude	Stand	Number	Crude	Stand
				1993	1994	1995	1996	1990-96	Rate	Rate		Rate	Rate
										Dec. 31, 1996			
Males													
Winnipeg	4	7	9	9	10	12	9	60	2.7	2.9	99	31.6	33.8
Brandon	1	2	0	0	0	0	0	3	1.9	2.0	5	22.7	23.6
North Eastman	0	0	1	0	0	0	0	1	0.8	0.6	4	20.4	22.8
South Eastman	1	0	1	2	0	1	0	5	2.8	3.1	9	33.9	38.5
Interlake	1	0	1	0	2	0	3	7	2.7	3.0	8	21.5	21.8
Central	1	2	2	2	1	1	3	12	3.7	4.0	12	24.9	26.8
Marquette	0	0	1	0	1	1	0	3	2.3	2.1	6	32.5	27.6
South Westman	1	0	1	0	0	0	1	3	2.3	1.8	4	21.8	19.8
Parkland	0	1	3	0	0	1	0	5	3.2	2.9	6	27.2	23.3
Norman	0	0	0	0	0	1	0	1	1.1	0.9	2	16.2	28.3
Burntwood	0	1	1	0	1	1	1	5	3.1	7.8	6	25.6	38.4
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	9	13	20	13	15	18	17	105	2.7	2.9	161	28.7	30.5
Females													
Winnipeg	6	5	6	4	6	9	7	43	1.8	1.8	68	20.5	18.8
Brandon	0	0	1	1	1	1	0	4	2.4	2.1	5	20.6	19.6
North Eastman	1	0	0	1	0	0	1	3	2.4	2.4	5	26.9	28.1
South Eastman	0	0	0	0	2	0	0	2	1.2	1.1	3	11.7	12.7
Interlake	1	1	0	0	1	0	0	3	1.2	1.2	7	19.4	18.2
Central	1	1	1	1	2	1	1	8	2.4	2.3	10	20.9	20.3
Marquette	1	0	0	1	0	1	1	4	3.1	2.3	4	21.7	15.6
South Westman	1	0	0	1	0	0	0	2	1.5	1.1	6	32.5	25.9
Parkland	0	1	0	0	0	0	1	2	1.3	0.8	2	9.2	8.5
Norman	0	0	1	0	0	0	0	1	1.2	1.9	4	33.9	37.2
Burntwood	0	1	0	0	0	0	0	1	0.7	0.4	2	9.0	6.6
Churchill	0	0	0	0	0	0	1	1	26.2	23.7	0	0.0	0.0
Total	11	9	9	9	12	12	12	74	1.8	1.8	116	20.1	19.0

Melanoma (ICD-9 172)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				Crude Rate 1990-96	Stand Rate	Number Dec. 31, 1996	Crude Rate	Stand Rate	
				1993	1994	1995	1996						1990-96
Males													
Winnipeg	20	22	36	37	29	26	35	205	9.3	10.2	296	94.6	102.9
Brandon	3	6	1	1	1	4	3	19	12.3	13.6	26	118.1	123.6
North Eastman	2	1	0	3	1	2	0	9	6.8	6.9	9	46.0	48.2
South Eastman	1	2	3	1	2	1	3	13	7.2	9.0	15	56.5	69.1
Interlake	1	1	2	8	4	9	6	31	12.0	12.4	33	88.6	88.6
Central	4	0	7	5	1	3	3	23	7.0	7.6	40	83.1	91.5
Marquette	2	3	1	7	1	3	1	18	13.8	12.1	18	97.6	82.8
South Westman	3	3	5	3	4	1	1	20	15.3	13.9	17	92.7	81.3
Parkland	3	3	1	1	0	0	4	12	7.7	6.6	13	59.0	49.8
Norman	0	1	0	0	0	0	0	1	1.1	2.7	3	24.3	25.2
Burntwood	0	1	1	1	1	0	0	4	2.5	3.2	3	12.8	17.1
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	39	43	57	67	44	49	56	355	9.0	9.9	473	84.2	91.1
Females													
Winnipeg	35	27	27	46	33	28	33	229	9.8	9.4	421	126.7	116.9
Brandon	0	3	2	1	0	6	4	16	9.5	9.3	31	128.0	121.9
North Eastman	4	0	2	1	1	2	3	13	10.4	10.6	21	112.8	121.7
South Eastman	2	0	0	1	1	1	5	10	5.8	6.7	22	85.5	94.4
Interlake	1	3	3	4	6	2	5	24	9.6	9.3	54	149.3	139.0
Central	6	5	3	4	1	6	3	28	8.5	8.6	44	91.8	88.4
Marquette	1	1	2	0	4	2	5	15	11.6	9.5	27	146.2	111.3
South Westman	2	4	3	3	1	1	4	18	13.8	12.2	38	205.8	165.9
Parkland	2	0	6	3	3	3	1	18	11.7	9.6	23	105.6	90.8
Norman	2	2	1	1	0	2	2	10	12.0	14.7	16	135.7	156.5
Burntwood	0	0	0	0	1	3	0	4	2.7	3.1	5	22.5	24.1
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	55	45	49	64	51	56	65	385	9.6	9.4	702	121.4	115.3

Other skin (ICD-9 173)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude	Stand	Number	Crude	Stand
				1993	1994	1995	1996	1990-96	Rate	Rate		Rate	Rate
										Dec. 31, 1996			
Males													
Winnipeg	439	454	494	432	488	502	456	3265	148.1	179.2	4679	1494.8	1790.7
Brandon	51	54	60	56	64	63	45	393	254.0	290.7	534	2425.2	2652.6
North Eastman	23	17	14	25	32	32	32	175	131.8	150.0	265	1353.1	1554.7
South Eastman	16	32	35	34	37	33	41	228	126.9	171.7	348	1311.9	1791.1
Interlake	64	52	58	57	69	53	59	412	159.6	173.0	600	1610.8	1745.9
Central	80	77	89	86	87	93	102	614	186.9	206.2	909	1889.4	2110.7
Marquette	52	50	53	59	76	53	72	415	318.8	257.5	573	3106.5	2469.2
South Westman	64	60	76	78	70	68	59	475	363.8	300.1	699	3809.7	3079.6
Parkland	38	39	49	46	54	59	42	327	209.2	174.4	481	2184.4	1772.5
Norman	16	8	16	11	10	11	10	82	94.0	163.9	91	737.1	1230.8
Burntwood	10	4	2	5	2	7	11	41	25.7	75.3	41	174.9	538.8
Churchill	1	0	1	0	1	0	0	3	72.0	82.5	4	728.6	826.2
Total	854	847	947	889	990	974	929	6430	163.8	192.1	9224	1642.3	1916.4
Females													
Winnipeg	386	367	374	406	395	406	447	2781	119.2	109.5	4535	1364.5	1175.8
Brandon	55	54	58	36	39	37	53	332	197.4	180.8	513	2118.0	1806.2
North Eastman	25	18	16	18	18	13	17	125	99.9	112.1	204	1096.0	1187.5
South Eastman	33	32	37	27	42	29	26	226	130.1	150.8	312	1212.8	1352.3
Interlake	42	62	46	43	49	56	68	366	147.0	140.0	559	1545.8	1422.7
Central	61	49	54	80	71	62	55	432	131.8	121.8	691	1441.4	1271.5
Marquette	33	25	36	51	50	40	48	283	218.7	151.0	463	2507.7	1588.6
South Westman	44	57	46	66	68	48	61	390	298.5	214.9	564	3054.8	2044.4
Parkland	28	32	41	33	48	35	37	254	165.5	118.1	405	1860.2	1235.2
Norman	8	7	4	11	11	11	12	64	77.0	112.2	96	814.5	1193.0
Burntwood	2	5	4	4	9	2	3	29	19.4	42.3	36	162.0	480.5
Churchill	0	2	0	0	0	0	1	3	78.7	115.1	3	595.2	883.2
Total	717	710	716	775	800	739	828	5285	131.2	122.7	8381	1449.4	1282.9

Breast (ICD-9 174 Female, 175 Male)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				Crude Rate 1990-96	Stand Rate 1990-96	Number Dec. 31, 1996	Crude Rate	Stand Rate	
				1993	1994	1995	1996						1990-96
Males - 175													
Winnipeg	1	1	1	3	4	1	0	11	0.5	0.6	16	5.1	5.9
Brandon	0	0	1	1	1	0	0	3	1.9	2.4	3	13.6	15.8
North Eastman	0	0	0	1	0	0	0	1	0.8	0.8	1	5.1	5.0
South Eastman	0	0	0	0	0	0	0	0	0.0	0.0	1	3.8	5.1
Interlake	0	0	1	0	1	0	1	3	1.2	1.5	3	8.1	8.3
Central	1	1	0	0	1	0	0	3	0.9	0.9	2	4.2	5.0
Marquette	0	0	0	1	0	0	0	1	0.8	0.6	2	10.8	8.3
South Westman	0	0	0	0	1	0	1	2	1.5	1.2	1	5.5	4.3
Parkland	1	0	1	0	0	1	0	3	1.9	1.5	2	9.1	7.2
Norman	0	1	0	0	0	0	0	1	1.1	1.0	0	0.0	0.0
Burntwood	0	0	0	0	0	0	0	0	0.0	0.0	1	4.3	8.8
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	3	3	4	6	8	2	2	28	0.7	0.9	32	5.7	6.7
Females - 174													
Winnipeg	388	431	390	400	407	456	402	2874	123.2	117.0	4437	1335.0	1188.1
Brandon	25	41	28	23	30	35	50	232	138.0	133.2	369	1523.5	1385.7
North Eastman	13	19	25	17	10	23	12	119	95.1	99.4	179	961.7	989.5
South Eastman	25	19	20	19	31	17	31	162	93.2	107.7	273	1061.2	1199.8
Interlake	44	57	45	51	51	48	53	349	140.2	132.8	469	1296.9	1187.0
Central	41	47	57	58	56	51	66	376	114.7	112.0	592	1234.9	1132.3
Marquette	26	19	20	33	37	33	23	191	147.6	112.1	306	1657.4	1156.3
South Westman	23	30	27	31	34	32	21	198	151.6	116.5	310	1679.0	1185.7
Parkland	19	14	32	24	37	29	26	181	117.9	93.5	289	1327.4	963.4
Norman	10	9	11	10	5	5	20	70	84.2	112.7	92	780.5	1053.4
Burntwood	5	6	8	6	7	7	13	52	34.8	79.0	59	265.5	611.1
Churchill	2	0	0	0	0	1	2	5	131.2	166.7	2	396.8	641.3
Total	621	692	663	672	705	737	719	4809	119.4	115.7	7377	1275.8	1167.1

Cervix uteri (ICD-9 180)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				Crude	Stand	Number	Crude	Stand	
				1993	1994	1995	1996	1990-96	Rate		Rate	Rate	Rate
										Dec. 31, 1996			
Females													
Winnipeg	34	28	38	34	35	22	43	234	10.0	9.6	606	182.3	166.8
Brandon	3	1	3	2	0	1	1	11	6.5	6.4	35	144.5	130.2
North Eastman	2	3	0	3	2	0	1	11	8.8	9.3	36	193.4	199.0
South Eastman	1	2	1	3	4	1	2	14	8.1	8.5	26	101.1	110.9
Interlake	7	4	3	3	4	4	7	32	12.9	12.8	78	215.7	200.3
Central	3	2	2	2	5	1	4	19	5.8	6.2	57	118.9	117.8
Marquette	2	4	1	5	0	3	0	15	11.6	11.2	33	178.7	140.5
South Westman	1	0	6	3	2	1	4	17	13.0	11.3	39	211.2	175.4
Parkland	2	5	2	5	2	4	8	28	18.2	17.5	40	183.7	155.4
Norman	1	0	2	3	4	1	0	11	13.2	16.8	30	254.5	320.8
Burntwood	1	4	1	5	4	3	3	21	14.1	18.6	25	112.5	189.7
Churchill	0	1	0	0	0	0	0	1	26.2	18.7	2	396.8	489.8
Total	57	54	59	68	62	41	73	414	10.3	10.2	1007	174.2	165.2

Body of uterus (ICD-9 182)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				Crude	Stand	Number	Crude	Stand	
				1993	1994	1995	1996	1990-96	Rate		Rate	Rate	Rate
									1990-96	Dec. 31, 1996			
Females													
Winnipeg	71	79	89	81	96	93	85	594	25.5	24.1	1207	363.2	315.6
Brandon	2	6	7	8	5	5	7	40	23.8	22.4	77	317.9	273.5
North Eastman	2	6	3	1	3	4	4	23	18.4	19.9	45	241.8	260.5
South Eastman	5	3	7	5	4	1	6	31	17.8	20.5	89	346.0	394.2
Interlake	10	14	14	6	10	5	14	73	29.3	26.9	140	387.1	353.5
Central	15	8	11	18	7	11	10	80	24.4	23.3	187	390.1	344.7
Marquette	9	4	5	6	5	4	7	40	30.9	21.3	79	427.9	269.2
South Westman	2	6	3	6	8	10	7	42	32.2	24.9	79	427.9	301.0
Parkland	3	7	5	7	2	7	8	39	25.4	20.7	90	413.4	285.4
Norman	2	1	2	2	2	0	0	9	10.8	14.7	22	186.6	254.1
Burntwood	0	1	4	2	0	1	2	10	6.7	18.5	13	58.5	160.8
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	121	135	150	142	142	141	150	981	24.4	23.4	2028	350.7	313.2

Ovary, uterine adnexa (ICD-9 183)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				Crude	Stand	Number	Crude	Stand	
				1993	1994	1995	1996	1990-96	Rate		Rate	Rate	Rate
											Dec. 31, 1996		
Females													
Winnipeg	51	61	66	68	49	71	60	426	18.3	17.3	491	147.7	134.3
Brandon	5	2	4	3	1	2	6	23	13.7	14.0	27	111.5	105.3
North Eastman	1	0	3	1	5	2	4	16	12.8	13.5	23	123.6	122.9
South Eastman	2	2	5	4	4	4	2	23	13.2	15.2	30	116.6	128.4
Interlake	3	4	3	7	4	9	4	34	13.7	12.9	45	124.4	115.9
Central	5	5	5	11	10	8	11	55	16.8	16.3	57	118.9	112.6
Marquette	1	3	6	6	6	3	2	27	20.9	17.3	22	119.2	97.5
South Westman	3	3	5	2	6	3	4	26	19.9	16.1	31	167.9	129.5
Parkland	6	3	3	5	9	3	4	33	21.5	16.7	29	133.2	98.8
Norman	1	0	2	1	2	0	3	9	10.8	14.1	10	84.8	112.4
Burntwood	1	0	1	4	1	2	0	9	6.0	13.8	8	36.0	49.7
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	79	83	103	112	97	107	100	681	16.9	16.4	773	133.7	125.5

Prostate (ICD-9 185)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				Crude Rate 1990-96	Stand Rate	Number	Crude Rate	Stand Rate	
				1993	1994	1995	1996						1990-96
Males													
Winnipeg	343	431	494	502	476	365	317	2928	132.8	164.2	2648	845.9	1049.2
Brandon	14	20	42	33	32	44	30	215	139.0	157.5	215	976.4	1080.7
North Eastman	17	20	31	42	34	27	22	193	145.4	170.2	176	898.7	1092.5
South Eastman	31	34	41	35	34	30	19	224	124.7	174.8	187	704.9	1021.6
Interlake	35	60	68	80	68	59	38	408	158.1	175.1	341	915.5	1001.8
Central	83	81	87	101	63	61	47	523	159.2	175.4	432	897.9	1007.7
Marquette	18	36	54	54	50	37	39	288	221.3	169.1	263	1425.9	1093.7
South Westman	23	32	55	54	44	46	31	285	218.3	172.1	241	1313.5	1038.3
Parkland	26	40	51	77	45	53	44	336	215.0	170.8	281	1276.1	1010.9
Norman	1	6	6	21	19	19	8	80	91.7	165.5	63	510.3	951.7
Burntwood	4	6	3	11	11	9	7	51	32.0	119.5	37	157.8	614.0
Churchill	0	0	0	0	1	0	0	1	24.0	120.2	0	0.0	0.0
Total	595	766	932	1010	877	750	602	5532	140.9	167.5	4884	869.6	1039.4

Testis (ICD-9 186)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				1990-96	Crude Rate 1990-96	Stand Rate	Number Dec. 31, 1996	Crude Rate	Stand Rate
				1993	1994	1995	1996						
Males													
Winnipeg	12	14	22	18	14	12	19	111	5.0	4.7	266	85.0	82.8
Brandon	0	1	2	2	4	0	0	9	5.8	5.8	18	81.7	83.2
North Eastman	1	3	0	1	1	1	3	10	7.5	7.9	17	86.8	87.3
South Eastman	1	2	0	2	2	1	0	8	4.5	4.6	16	60.3	66.5
Interlake	0	2	2	0	4	1	2	11	4.3	4.3	32	85.9	84.6
Central	5	1	3	2	2	3	2	18	5.5	5.6	32	66.5	70.7
Marquette	0	1	0	1	0	1	2	5	3.8	4.1	9	48.8	48.9
South Westman	0	0	0	0	0	0	0	0	0.0	0.0	10	54.5	49.8
Parkland	1	0	2	0	0	2	1	6	3.8	4.1	14	63.6	63.4
Norman	1	0	0	1	0	1	0	3	3.4	3.0	5	40.5	40.0
Burntwood	0	0	1	0	1	0	1	3	1.9	2.1	14	59.7	74.6
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	21	24	32	27	28	22	30	184	4.7	4.6	433	77.1	77.7

Bladder (ICD-9 188)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				1990-96	Crude Rate 1990-96	Stand Rate	Number	Crude Rate Dec. 31, 1996	Stand Rate
				1993	1994	1995	1996						
Males													
Winnipeg	81	84	70	80	96	102	67	580	26.3	32.8	661	211.2	255.6
Brandon	6	2	9	8	3	6	12	46	29.7	34.9	53	240.7	268.6
North Eastman	4	9	6	3	4	1	3	30	22.6	28.1	33	168.5	191.0
South Eastman	5	4	3	5	6	1	5	29	16.1	20.9	41	154.6	206.9
Interlake	11	10	11	16	13	7	13	81	31.4	34.6	79	212.1	229.3
Central	23	20	8	10	7	13	18	99	30.1	33.5	95	197.5	218.8
Marquette	6	10	3	4	5	6	8	42	32.3	25.2	43	233.1	182.0
South Westman	8	7	9	10	3	8	8	53	40.6	32.9	56	305.2	244.2
Parkland	10	5	13	5	5	4	7	49	31.4	25.0	53	240.7	191.2
Norman	3	1	2	1	3	1	2	13	14.9	24.1	10	81.0	152.9
Burntwood	0	0	2	3	1	4	0	10	6.3	12.7	10	42.7	91.1
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	157	152	136	145	146	153	143	1032	26.3	31.4	1134	201.9	236.2
Females													
Winnipeg	30	31	35	35	31	40	31	233	10.0	9.0	284	85.4	72.4
Brandon	2	5	2	3	1	2	3	18	10.7	9.8	20	82.6	75.9
North Eastman	2	4	2	0	0	0	1	9	7.2	7.5	12	64.5	68.2
South Eastman	2	1	3	2	0	2	3	13	7.5	8.6	14	54.4	61.9
Interlake	5	1	2	3	5	1	1	18	7.2	6.7	27	74.7	68.0
Central	1	5	4	2	3	6	4	25	7.6	6.6	31	64.7	56.0
Marquette	1	0	1	1	1	1	3	8	6.2	5.5	19	102.9	73.8
South Westman	3	1	3	4	0	2	1	14	10.7	7.5	14	75.8	54.2
Parkland	0	4	1	5	2	2	2	16	10.4	7.4	17	78.1	52.5
Norman	0	1	0	0	0	0	3	4	4.8	6.1	3	25.5	26.8
Burntwood	0	0	0	0	1	0	0	1	0.7	3.7	0	0.0	0.0
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	1	198.4	1185.4
Total	46	53	53	55	44	56	52	359	8.9	8.2	442	76.4	67.4

Kidney (ICD-9 1890)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				1990-96	Crude Rate 1990-96	Stand Rate	Number	Crude Rate Dec. 31, 1996	Stand Rate
				1993	1994	1995	1996						
Males													
Winnipeg	38	42	40	53	60	56	51	340	15.4	18.3	261	83.4	96.3
Brandon	0	3	5	0	2	2	4	16	10.3	11.6	14	63.6	67.5
North Eastman	2	3	1	5	4	1	4	20	15.1	16.6	21	107.2	121.6
South Eastman	5	3	1	3	6	2	3	23	12.8	16.3	16	60.3	76.9
Interlake	4	9	4	4	10	7	9	47	18.2	19.0	36	96.6	96.4
Central	4	4	6	6	4	6	6	36	11.0	12.2	34	70.7	77.4
Marquette	3	3	2	3	2	3	1	17	13.1	10.6	15	81.3	63.3
South Westman	2	4	2	6	5	3	2	24	18.4	16.3	22	119.9	102.2
Parkland	4	7	5	5	4	4	4	33	21.1	18.2	26	118.1	100.2
Norman	2	0	3	1	3	2	1	12	13.8	18.1	10	81.0	115.5
Burntwood	3	1	5	1	2	2	2	16	10.0	26.8	13	55.5	169.6
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	67	79	74	87	102	88	87	584	14.9	17.0	468	83.3	93.4
Females													
Winnipeg	22	26	26	25	42	30	18	189	8.1	7.6	173	52.1	47.4
Brandon	1	3	1	1	2	4	3	15	8.9	8.2	8	33.0	32.0
North Eastman	1	1	1	3	2	3	1	12	9.6	10.0	13	69.8	68.6
South Eastman	5	1	4	3	0	0	2	15	8.6	10.1	20	77.7	86.1
Interlake	5	3	4	6	3	3	2	26	10.4	9.9	25	69.1	64.1
Central	3	6	5	5	7	6	4	36	11.0	10.2	34	70.9	66.0
Marquette	2	0	2	0	1	1	2	8	6.2	5.0	10	54.2	43.9
South Westman	3	2	4	0	2	2	2	15	11.5	8.3	9	48.7	37.2
Parkland	1	3	2	4	6	3	1	20	13.0	9.8	21	96.5	77.1
Norman	1	1	2	3	1	2	1	11	13.2	17.9	6	50.9	70.5
Burntwood	1	2	0	1	0	1	0	5	3.4	10.2	6	27.0	50.1
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	45	48	51	51	66	55	36	352	8.7	8.3	325	56.2	52.3

Brain (ICD-9 191)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				1990-96	Crude Rate 1990-96	Stand Rate	Number	Crude Rate Dec. 31, 1996	Stand Rate
				1993	1994	1995	1996						
Males													
Winnipeg	24	26	18	26	18	24	20	156	7.1	7.5	106	33.9	33.8
Brandon	1	0	0	3	4	0	3	11	7.1	7.5	5	22.7	23.1
North Eastman	0	2	2	2	0	2	1	9	6.8	6.9	3	15.3	16.6
South Eastman	1	0	2	3	0	2	3	11	6.1	7.0	12	45.2	46.8
Interlake	2	4	3	1	3	2	3	18	7.0	7.1	4	10.7	10.1
Central	3	5	2	4	5	4	2	25	7.6	8.1	12	24.9	25.7
Marquette	1	2	3	4	1	2	2	15	11.5	10.5	5	27.1	27.4
South Westman	1	1	1	0	5	1	3	12	9.2	8.6	12	65.4	68.3
Parkland	0	0	2	1	2	1	2	8	5.1	4.5	3	13.6	13.8
Norman	2	0	1	0	0	1	0	4	4.6	6.4	3	24.3	23.1
Burntwood	2	1	0	0	1	0	0	4	2.5	4.8	3	12.8	11.4
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	37	41	34	44	39	39	39	273	7.0	7.3	168	29.9	30.0
Females													
Winnipeg	19	17	18	23	20	20	14	131	5.6	5.3	75	22.6	21.9
Brandon	1	2	1	0	3	2	0	9	5.4	5.4	7	28.9	29.0
North Eastman	1	2	3	1	3	0	0	10	8.0	8.2	6	32.2	30.6
South Eastman	2	1	2	2	3	1	1	12	6.9	7.3	4	15.5	16.0
Interlake	2	2	1	1	2	3	1	12	4.8	4.8	9	24.9	26.0
Central	2	4	4	1	4	0	2	17	5.2	4.8	8	16.7	18.2
Marquette	0	0	3	0	2	1	2	8	6.2	5.6	3	16.2	18.6
South Westman	0	0	3	5	3	2	1	14	10.7	8.8	7	37.9	38.4
Parkland	0	0	0	0	1	1	0	2	1.3	0.8	2	9.2	9.5
Norman	1	1	0	2	0	0	1	5	6.0	6.4	3	25.5	23.1
Burntwood	0	2	0	0	0	0	0	2	1.3	0.9	2	9.0	7.2
Churchill	0	0	1	1	0	1	0	3	78.7	84.7	1	198.4	203.4
Total	28	31	36	36	41	31	22	225	5.6	5.4	127	22.0	21.9

Thyroid (ICD-9 193)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude Rate 1990-96	Stand Rate	Number Dec. 31, 1996	Crude Rate	Stand Rate
				1993	1994	1995	1996	1990-96					
Males													
Winnipeg	7	9	11	6	6	9	8	56	2.5	2.6	102	32.6	33.5
Brandon	0	1	0	0	0	0	0	1	0.6	0.7	4	18.2	18.7
North Eastman	0	0	0	2	1	0	0	3	2.3	2.4	5	25.5	26.1
South Eastman	1	0	1	0	0	1	0	3	1.7	1.9	6	22.6	26.3
Interlake	0	2	1	0	1	1	1	6	2.3	2.6	7	18.8	19.4
Central	2	0	1	2	1	1	2	9	2.7	3.0	16	33.3	35.6
Marquette	0	0	0	0	0	0	0	0	0.0	0.0	2	10.8	8.7
South Westman	0	1	1	1	0	0	1	4	3.1	3.1	3	16.4	15.3
Parkland	1	1	0	0	4	0	0	6	3.8	3.4	7	31.8	25.6
Norman	0	0	1	0	0	0	0	1	1.1	2.7	1	8.1	8.8
Burntwood	0	0	0	0	0	0	0	0	0.0	0.0	3	12.8	32.6
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	11	14	16	11	13	12	12	89	2.3	2.4	156	27.8	29.0
Females													
Winnipeg	17	17	26	18	26	33	20	157	6.7	6.5	350	105.3	98.5
Brandon	1	1	1	4	2	0	2	11	6.5	6.2	19	78.4	75.3
North Eastman	1	1	0	2	1	0	1	6	4.8	5.0	22	118.2	123.2
South Eastman	2	4	1	0	4	2	0	13	7.5	8.1	23	89.4	98.4
Interlake	1	2	3	2	6	2	1	17	6.8	6.7	31	85.7	79.9
Central	0	2	2	5	5	7	4	25	7.6	7.9	40	83.4	85.3
Marquette	1	3	0	1	0	0	2	7	5.4	5.3	23	124.6	109.6
South Westman	1	2	1	2	0	2	1	9	6.9	6.5	18	97.5	82.7
Parkland	1	0	0	0	0	1	3	5	3.3	3.0	18	82.7	75.0
Norman	0	0	0	0	1	0	2	3	3.6	4.2	6	50.9	70.7
Burntwood	0	0	1	0	1	1	0	3	2.0	2.7	9	40.5	47.3
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	25	32	35	34	46	48	36	256	6.4	6.3	559	96.7	93.3

Hodgkin's disease (ICD-9 201)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude	Stand	Number	Crude	Stand
				1993	1994	1995	1996	1990-96	Rate	Rate		Rate	Rate
										Dec. 31, 1996			
Males													
Winnipeg	13	3	7	8	8	8	8	55	2.5	2.4	121	38.7	37.4
Brandon	1	1	1	0	0	0	1	4	2.6	2.4	8	36.3	36.2
North Eastman	0	0	1	0	0	0	0	1	0.8	0.8	5	25.5	26.3
South Eastman	1	1	1	1	0	0	0	4	2.2	2.3	7	26.4	28.9
Interlake	0	1	3	0	2	1	1	8	3.1	3.1	10	26.8	26.8
Central	1	1	0	2	2	3	2	11	3.3	3.4	20	41.6	43.7
Marquette	0	1	0	0	0	1	0	2	1.5	1.6	8	43.4	45.9
South Westman	1	1	2	0	0	0	2	6	4.6	4.1	8	43.6	44.1
Parkland	1	1	0	1	1	0	0	4	2.6	2.5	9	40.9	40.0
Norman	0	0	0	0	0	0	0	0	0.0	0.0	2	16.2	15.8
Burntwood	0	0	0	1	1	0	0	2	1.3	1.1	6	25.6	26.5
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	18	10	15	13	14	13	14	97	2.5	2.4	204	36.3	36.3
Females													
Winnipeg	9	6	6	4	7	4	8	44	1.9	1.8	98	29.5	28.6
Brandon	0	1	0	0	3	0	0	4	2.4	2.0	3	12.4	10.5
North Eastman	0	1	0	0	0	1	0	2	1.6	1.7	5	26.9	25.5
South Eastman	0	0	0	0	1	0	1	2	1.2	1.3	10	38.9	39.2
Interlake	1	1	0	1	1	2	0	6	2.4	2.3	13	35.9	36.4
Central	2	0	0	2	0	1	0	5	1.5	1.5	10	20.9	22.9
Marquette	0	1	1	1	0	0	1	4	3.1	3.3	7	37.9	39.1
South Westman	0	0	0	2	1	0	1	4	3.1	2.6	11	59.6	54.6
Parkland	1	1	0	1	1	0	1	5	3.3	3.2	6	27.6	32.8
Norman	1	0	0	0	0	1	0	2	2.4	2.0	3	25.5	24.9
Burntwood	0	1	1	0	0	0	0	2	1.3	1.4	1	4.5	3.4
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	14	12	8	11	14	9	12	80	2.0	1.9	167	28.9	28.8

Multiple myeloma, immunoproliferative neoplasms (ICD-9 203)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number				Crude	Stand	Number	Crude	Stand	
				1993	1994	1995	1996	1990-96	Rate		Rate	Rate	Rate
									1990-96		Dec. 31, 1996		
Males													
Winnipeg	22	13	26	26	23	15	20	145	6.6	8.0	58	18.5	21.3
Brandon	0	0	1	2	3	1	3	10	6.5	7.3	5	22.7	23.3
North Eastman	5	3	0	0	1	0	0	9	6.8	8.9	4	20.4	22.7
South Eastman	0	4	2	2	1	1	1	11	6.1	8.5	6	22.6	29.9
Interlake	2	3	1	1	2	3	2	14	5.4	6.0	6	16.1	17.2
Central	4	4	7	1	4	4	2	26	7.9	8.8	9	18.7	20.5
Marquette	2	0	4	2	1	3	3	15	11.5	9.1	6	32.5	24.1
South Westman	1	2	1	0	3	1	4	12	9.2	7.5	6	32.7	26.5
Parkland	3	6	1	1	0	2	2	15	9.6	7.6	6	27.2	20.5
Norman	0	0	1	1	0	0	1	3	3.4	5.9	2	16.2	22.6
Burntwood	1	0	0	0	0	3	1	5	3.1	5.8	3	12.8	30.9
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	40	35	44	36	38	33	39	265	6.7	7.9	111	19.8	21.9
Females													
Winnipeg	26	15	22	20	12	14	15	124	5.3	4.7	53	15.9	13.8
Brandon	2	0	1	4	1	0	1	9	5.4	4.8	3	12.4	10.5
North Eastman	0	1	1	0	0	0	0	2	1.6	1.8	2	10.7	11.0
South Eastman	0	2	0	0	1	1	0	4	2.3	2.7	2	7.8	9.1
Interlake	1	1	4	2	3	4	2	17	6.8	6.3	8	22.1	19.8
Central	2	1	4	2	4	2	5	20	6.1	5.6	9	18.8	17.4
Marquette	3	6	4	1	2	1	1	18	13.9	9.2	7	37.9	25.6
South Westman	0	0	1	0	1	1	0	3	2.3	1.5	2	10.8	7.3
Parkland	1	2	4	1	2	1	1	12	7.8	5.4	8	36.7	22.2
Norman	0	1	2	0	0	1	0	4	4.8	7.1	1	8.5	12.7
Burntwood	2	0	0	0	2	0	0	4	2.7	7.7	2	9.0	49.0
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	37	29	43	30	28	25	25	217	5.4	4.9	97	16.8	14.9

Leukemia (ICD-9 204-208)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude Rate 1990-96	Stand Rate	Number Dec. 31, 1996	Crude Rate	Stand Rate
				1993	1994	1995	1996	1990-96					
Males													
Winnipeg	45	36	32	39	30	43	42	267	12.1	14.6	206	65.8	75.1
Brandon	5	2	2	2	3	1	4	19	12.3	13.2	16	72.7	76.5
North Eastman	1	1	2	4	6	3	1	18	13.6	15.1	11	56.2	56.2
South Eastman	3	4	1	2	2	1	2	15	8.3	10.9	20	75.4	94.4
Interlake	7	8	5	6	5	3	4	38	14.7	15.4	31	83.2	86.3
Central	5	9	7	3	9	7	7	47	14.3	15.5	31	64.4	67.5
Marquette	6	4	1	2	6	3	4	26	20.0	15.3	23	124.7	106.2
South Westman	4	3	2	3	2	2	2	18	13.8	10.9	15	81.8	65.5
Parkland	3	7	1	4	3	3	3	24	15.4	13.6	16	72.7	60.8
Norman	0	2	1	1	3	1	1	9	10.3	15.3	7	56.7	79.7
Burntwood	1	2	2	1	0	0	1	7	4.4	8.3	5	21.3	20.5
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	80	78	56	67	69	67	71	488	12.4	14.2	381	67.8	74.5
Females													
Winnipeg	19	25	34	24	27	40	31	200	8.6	7.9	167	50.2	46.4
Brandon	3	5	2	3	1	2	1	17	10.1	9.2	15	61.9	58.0
North Eastman	1	1	1	0	0	0	0	3	2.4	2.7	4	21.5	24.7
South Eastman	4	3	4	3	0	2	4	20	11.5	12.6	17	66.1	67.3
Interlake	3	4	3	4	3	4	1	22	8.8	8.6	20	55.3	51.8
Central	4	4	7	5	8	3	7	38	11.6	10.5	29	60.5	55.2
Marquette	3	4	0	0	2	3	1	13	10.0	6.6	10	54.2	40.1
South Westman	2	4	7	2	1	3	5	24	18.4	12.7	9	48.7	39.9
Parkland	1	2	1	3	3	3	2	15	9.8	6.9	17	78.1	64.0
Norman	0	1	2	3	2	0	0	8	9.6	12.3	2	17.0	17.2
Burntwood	0	0	1	2	2	0	3	8	5.4	9.4	9	40.5	57.9
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	40	53	62	49	49	60	55	368	9.1	8.5	299	51.7	48.3

Skin, in situ (ICD-9 232)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude Rate 1990-96	Stand Rate	Number	Crude Rate Dec. 31, 1996	Stand Rate
				1993	1994	1995	1996	1990-96					
Males													
Winnipeg	38	26	54	45	66	71	82	382	17.3	21.6	427	136.4	167.2
Brandon	4	8	8	8	10	9	8	55	35.5	40.2	49	222.5	238.7
North Eastman	3	3	4	4	3	11	4	32	24.1	28.4	26	132.8	154.9
South Eastman	0	3	2	5	5	6	6	27	15.0	19.6	33	124.4	165.7
Interlake	5	7	3	9	5	9	5	43	16.7	18.9	51	136.9	155.1
Central	4	4	13	13	4	9	21	68	20.7	22.9	79	164.2	182.3
Marquette	1	7	6	7	6	4	9	40	30.7	24.3	43	233.1	185.0
South Westman	4	2	8	9	4	10	6	43	32.9	26.4	51	278.0	221.7
Parkland	5	5	8	6	8	4	11	47	30.1	24.8	43	195.3	157.4
Norman	2	0	0	1	4	2	2	11	12.6	21.3	9	72.9	137.9
Burntwood	1	0	1	0	1	1	0	4	2.5	6.2	4	17.1	63.2
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	67	65	107	107	116	136	154	752	19.2	22.8	815	145.1	170.6
Females													
Winnipeg	30	35	38	41	60	64	65	333	14.3	12.8	398	119.7	101.4
Brandon	3	9	11	11	9	2	5	50	29.7	27.0	47	194.0	158.9
North Eastman	4	2	2	1	5	0	7	21	16.8	18.9	23	123.6	137.6
South Eastman	7	4	2	7	8	3	8	39	22.4	26.6	36	139.9	155.2
Interlake	9	12	5	10	7	5	12	60	24.1	22.7	69	190.8	177.7
Central	7	12	7	9	12	9	11	67	20.4	17.9	80	166.9	143.8
Marquette	2	7	8	9	13	6	13	58	44.8	29.7	68	368.3	220.5
South Westman	3	6	9	11	8	5	15	57	43.6	29.7	63	341.2	224.0
Parkland	6	2	5	5	4	5	6	33	21.5	16.1	37	169.9	116.6
Norman	2	1	2	0	1	1	1	8	9.6	13.3	10	84.8	115.6
Burntwood	2	1	1	0	0	0	0	4	2.7	8.2	2	9.0	26.9
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	1	198.4	169.9
Total	75	91	90	104	127	100	143	730	18.1	16.6	834	144.2	126.0

Breast, in situ (ICD-9 2330)

RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude	Stand	Number	Crude	Stand
				1993	1994	1995	1996	1990-96	Rate	Rate		Rate	Rate
										Dec. 31, 1996			
Males													
Winnipeg	1	0	0	0	0	2	1	4	0.2	0.2	4	1.3	1.5
Brandon	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
North Eastman	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
South Eastman	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Interlake	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Central	0	0	0	0	0	0	0	0	0.0	0.0	1	2.1	2.3
Marquette	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
South Westman	1	0	0	0	0	0	0	1	0.8	0.6	1	5.5	4.2
Parkland	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Norman	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Burntwood	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	2	0	0	0	0	2	1	5	0.1	0.2	6	1.1	1.2
Females													
Winnipeg	17	18	25	40	35	52	44	231	9.9	9.6	379	114.0	103.3
Brandon	2	3	4	1	3	5	4	22	13.1	13.2	29	119.7	110.8
North Eastman	1	2	1	2	3	0	1	10	8.0	8.4	19	102.1	101.8
South Eastman	1	1	3	0	2	3	2	12	6.9	7.9	31	120.5	137.0
Interlake	2	7	1	1	3	6	3	23	9.2	8.8	39	107.8	100.0
Central	2	2	2	1	1	6	6	20	6.1	6.1	42	87.6	86.2
Marquette	2	2	2	1	1	5	1	14	10.8	10.0	25	135.4	106.3
South Westman	3	1	2	0	0	0	1	7	5.4	4.7	12	65.0	48.0
Parkland	1	3	1	0	1	5	4	15	9.8	7.7	26	119.4	87.5
Norman	1	0	0	0	0	0	2	3	3.6	4.3	5	42.4	55.0
Burntwood	1	0	1	0	3	1	2	8	5.4	9.7	8	36.0	53.2
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	33	39	42	46	52	83	70	365	9.1	9.0	615	106.4	99.3

Cervix, in situ (ICD-9 2331)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number 1993	1994	1995	1996	1990-96	Crude Rate 1990-96	Stand Rate	Number Dec. 31, 1996	Crude Rate	Stand Rate
Females													
Winnipeg	252	209	237	250	225	216	256	1645	70.5	66.4	4134	1243.8	1193.6
Brandon	15	20	30	25	23	9	21	143	85.0	81.5	371	1531.7	1547.0
North Eastman	9	10	10	12	8	10	15	74	59.1	62.3	233	1251.8	1267.4
South Eastman	12	8	15	13	11	13	12	84	48.3	49.9	230	894.1	955.4
Interlake	18	11	18	28	26	23	23	147	59.0	61.0	513	1418.6	1384.7
Central	19	11	18	33	30	32	25	168	51.3	54.8	409	853.2	917.7
Marquette	8	12	11	16	11	8	10	76	58.7	69.5	240	1299.9	1344.1
South Westman	6	7	7	13	7	7	13	60	45.9	55.6	186	1007.4	1046.0
Parkland	7	8	7	13	13	12	9	69	44.9	53.6	245	1125.3	1170.1
Norman	5	7	8	7	14	10	4	55	66.2	61.5	154	1306.5	1447.9
Burntwood	7	14	19	32	23	25	31	151	101.2	100.3	267	1201.4	1590.3
Churchill	0	1	1	3	2	0	1	8	209.9	155.3	9	1785.7	2201.5
Total	358	318	381	445	393	365	420	2680	66.5	65.3	6991	1209.0	1204.4

Other, in situ (excluding skin, breast, cervix) (ICD-9 230, 231, 233, 234)

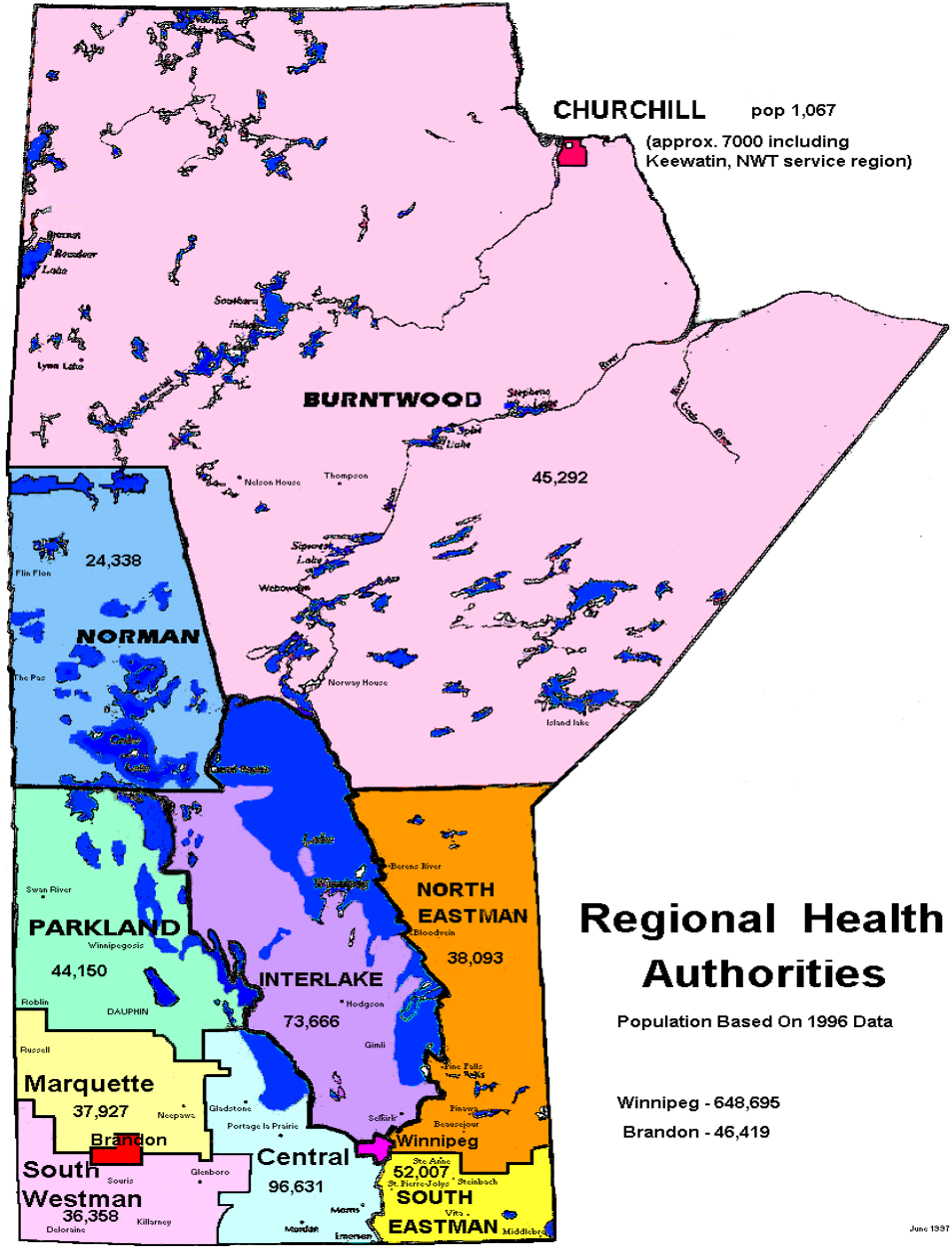
RHA	Incidence									Prevalence			
	1990	1991	1992	Number					Crude Rate 1990-96	Stand Rate	Number Dec. 31, 1996	Crude Rate	Stand Rate
				1993	1994	1995	1996	1990-96					
Males													
Winnipeg	67	56	93	88	120	111	126	661	30.0	36.7	704	224.9	271.8
Brandon	7	12	9	15	14	13	10	80	51.7	58.7	79	358.8	385.4
North Eastman	3	5	8	5	4	12	5	42	31.6	36.8	39	199.1	238.2
South Eastman	2	7	4	7	9	8	7	44	24.5	32.2	51	192.3	257.3
Interlake	11	9	12	14	12	18	8	84	32.5	35.8	84	225.5	246.3
Central	6	8	24	17	14	13	26	108	32.9	36.4	118	245.3	272.7
Marquette	4	8	9	10	9	6	14	60	46.1	36.5	65	352.4	277.7
South Westman	9	4	12	11	5	12	14	67	51.3	41.6	73	397.9	318.0
Parkland	8	7	8	11	12	5	14	65	41.6	34.1	62	281.6	226.8
Norman	2	0	0	1	8	2	2	15	17.2	28.8	14	113.4	208.3
Burntwood	1	0	2	0	2	1	0	6	3.8	11.1	5	21.3	76.4
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	120	116	181	179	209	201	226	1232	31.4	37.0	1294	230.4	269.2
Females													
Winnipeg	327	295	328	363	358	364	406	2441	104.6	98.0	5254	1580.8	1490.9
Brandon	20	32	51	39	38	18	32	230	136.8	129.9	475	1961.1	1919.6
North Eastman	14	15	15	15	16	10	27	112	89.5	95.3	284	1525.8	1557.4
South Eastman	22	15	20	20	22	23	22	144	82.9	90.3	309	1201.2	1299.7
Interlake	32	34	27	42	40	39	40	254	102.0	101.8	656	1814.1	1752.4
Central	30	30	31	49	46	53	48	287	87.6	88.3	574	1197.4	1232.1
Marquette	16	23	25	27	26	22	26	165	127.5	119.5	355	1922.8	1755.9
South Westman	14	16	20	25	18	13	31	137	104.9	97.1	280	1516.5	1384.8
Parkland	14	13	16	20	19	24	22	128	83.4	83.1	327	1501.9	1436.9
Norman	8	8	10	8	19	11	7	71	85.4	86.9	173	1467.7	1657.4
Burntwood	10	16	21	32	28	28	33	168	112.6	122.3	287	1291.4	1729.4
Churchill	0	1	1	3	3	0	1	9	236.2	195.5	13	2579.4	3528.8
Total	507	498	565	643	633	605	695	4146	103.0	99.8	8987	1554.2	1517.2

Neoplasm uncertain behaviour (ICD-9 235-238)

RHA	Incidence								Prevalence				
	1990	1991	1992	Number		1995	1996	1990-96	Crude	Stand	Number	Crude	Stand
				1993	1994				Rate	Rate		Rate	Rate
									1990-96		Dec. 31, 1996		
Males													
Winnipeg	35	39	59	58	79	63	68	401	18.2	22.3	360	115.0	133.1
Brandon	3	3	2	2	3	3	2	18	11.6	13.8	17	77.2	88.8
North Eastman	3	2	6	4	2	4	3	24	18.1	21.0	19	97.0	112.8
South Eastman	5	1	1	2	8	4	5	26	14.5	17.0	27	101.8	121.2
Interlake	8	3	4	9	14	11	10	59	22.9	25.6	50	134.2	141.7
Central	5	7	8	11	10	6	11	58	17.7	19.6	58	120.6	133.8
Marquette	4	5	7	0	3	6	5	30	23.0	19.0	35	189.8	153.4
South Westman	2	2	1	4	11	7	9	36	27.6	23.5	37	201.7	171.4
Parkland	1	1	4	8	5	2	13	34	21.8	18.6	26	118.1	100.4
Norman	1	2	1	3	1	2	2	12	13.8	24.6	10	81.0	130.5
Burntwood	0	0	4	0	3	1	1	9	5.6	10.7	11	46.9	110.6
Churchill	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0
Total	67	65	97	101	139	109	129	707	18.0	21.2	650	115.7	131.1
Females													
Winnipeg	124	85	50	53	70	87	72	541	23.2	21.5	633	190.5	175.1
Brandon	5	13	6	7	8	4	4	47	27.9	26.0	42	173.4	165.2
North Eastman	3	2	7	2	2	3	2	21	16.8	18.8	21	112.8	117.5
South Eastman	7	3	4	5	5	6	4	34	19.6	21.6	44	171.0	189.4
Interlake	13	7	9	7	7	8	14	65	26.1	25.4	76	210.2	203.2
Central	9	9	5	7	7	19	11	67	20.4	19.6	89	185.7	183.2
Marquette	2	4	5	5	8	2	7	33	25.5	21.6	45	243.7	213.9
South Westman	2	3	3	5	3	3	4	23	17.6	12.5	35	189.6	137.9
Parkland	5	4	6	4	6	8	14	47	30.6	25.3	45	206.7	180.2
Norman	4	2	3	6	2	2	4	23	27.7	31.9	22	186.6	206.3
Burntwood	4	4	2	2	1	1	2	16	10.7	17.8	24	108.0	187.2
Churchill	1	1	0	0	0	0	0	2	52.5	42.0	1	198.4	169.9
Total	179	137	100	103	119	143	138	919	22.8	21.6	1077	186.3	177.0

Incidence Rates (1990-96) Maps

(All rates are age-standardized and per 100,000 population)



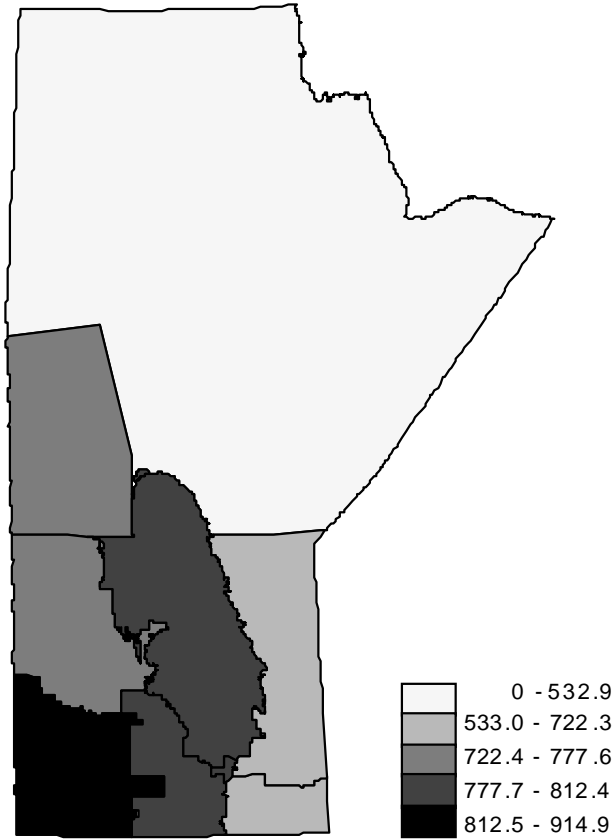
Regional Health Authorities

Population Based On 1996 Data

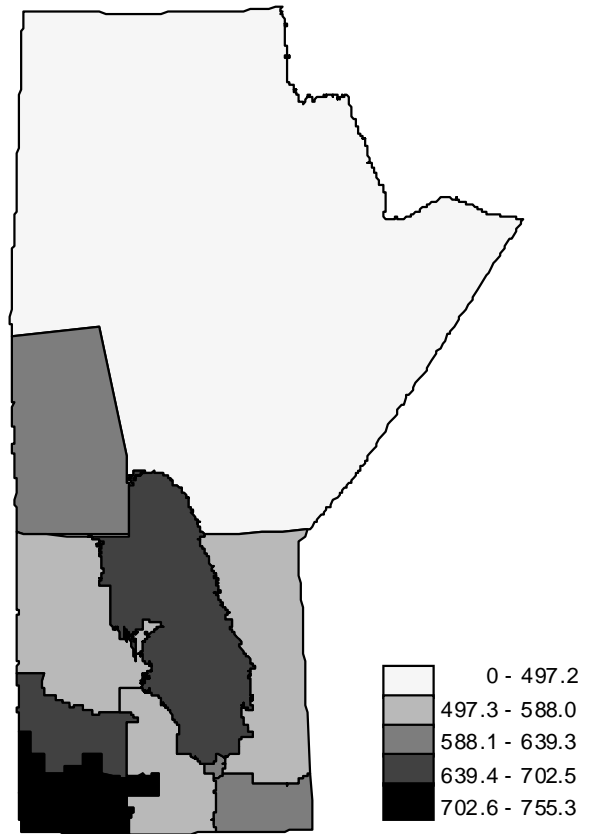
Winnipeg - 648,695

Brandon - 46,419

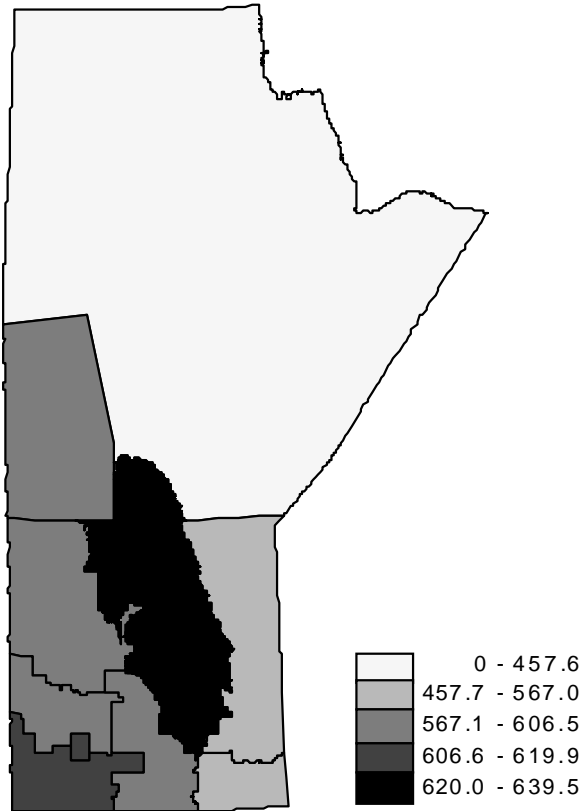
All sites
(ICD-9 140-208, 230-239) - Males
Incidence Rates (per 100,000) 1990-96



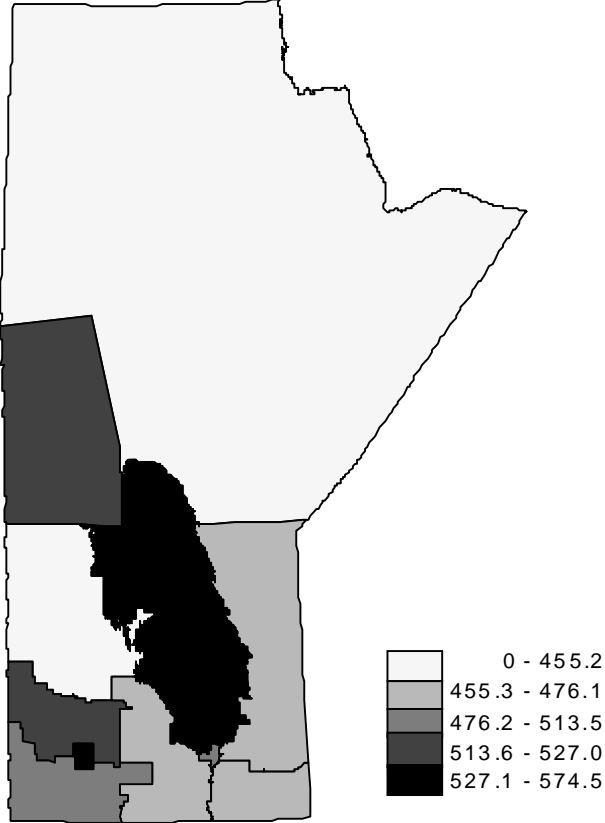
All sites
(ICD-9 140-208, 230-239) - Females
Incidence Rates (per 100,000) 1990-96



All sites excluding other skin
(ICD-9 140-172, 174-208, 230-239) - Males
Incidence Rates (per 100,000) 1990-96

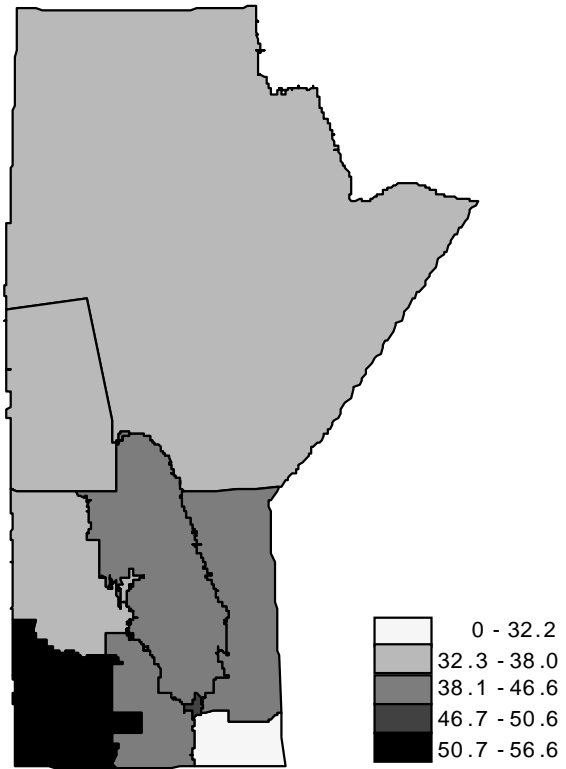


All sites excluding other skin
(ICD-9 140-172, 174-208, 230-239) - Females
Incidence Rates (per 100,000) 1990-96



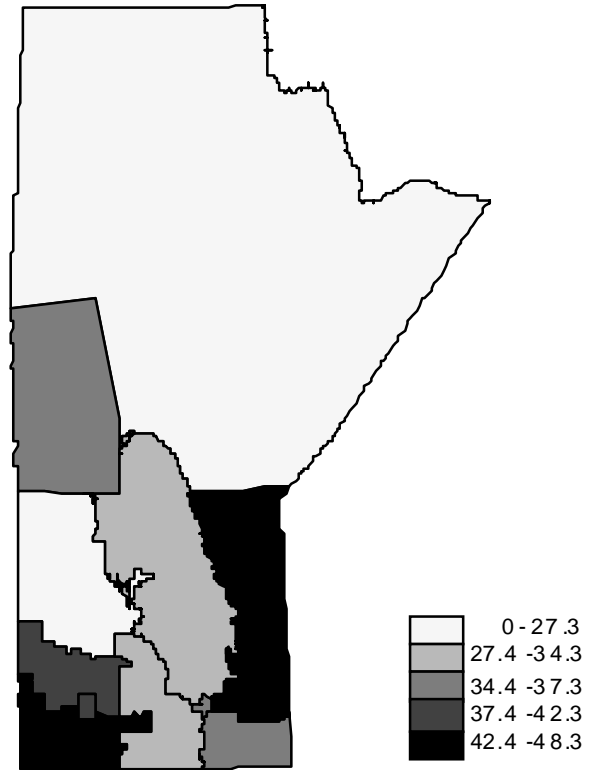
Colon (ICD-9 153) - Males

Incidence Rates (per 100,000) 1990-96

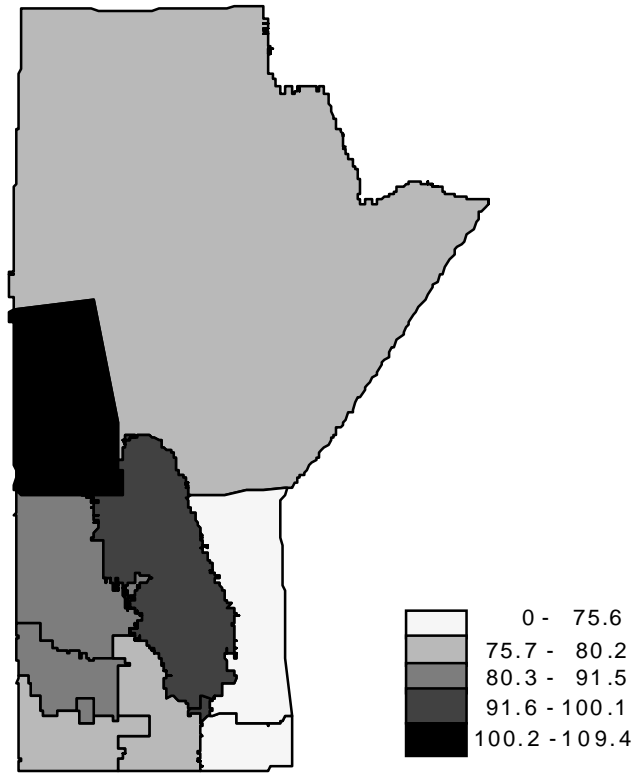


Colon (ICD-9 153) - Females

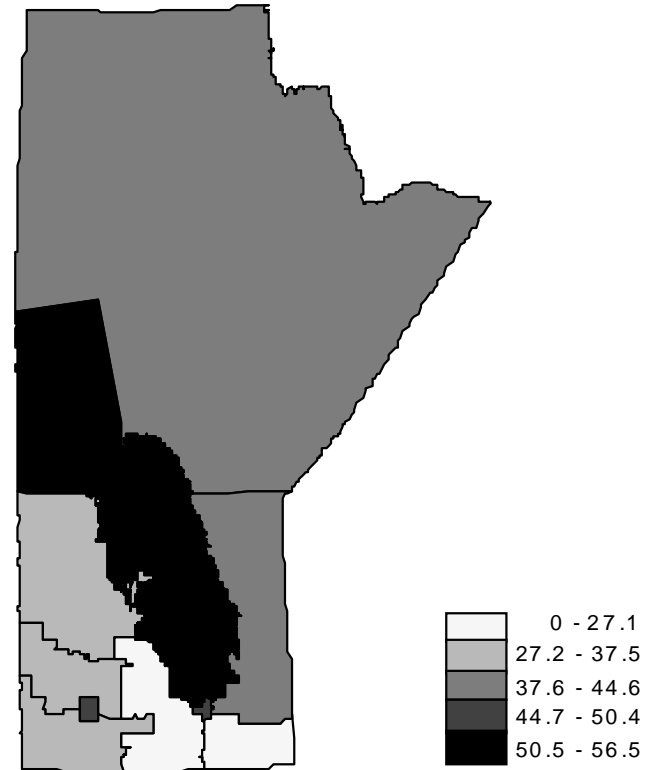
Incidence Rates (per 100,000) 1990-96



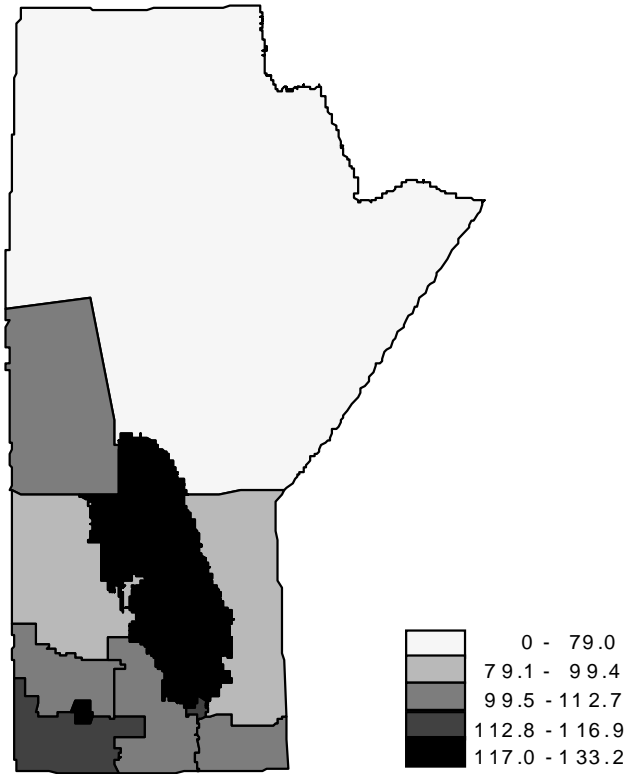
Trachea, bronchus, lung
(ICD-9 162) -Males
Incidence Rates (per 100,000) 1990-96



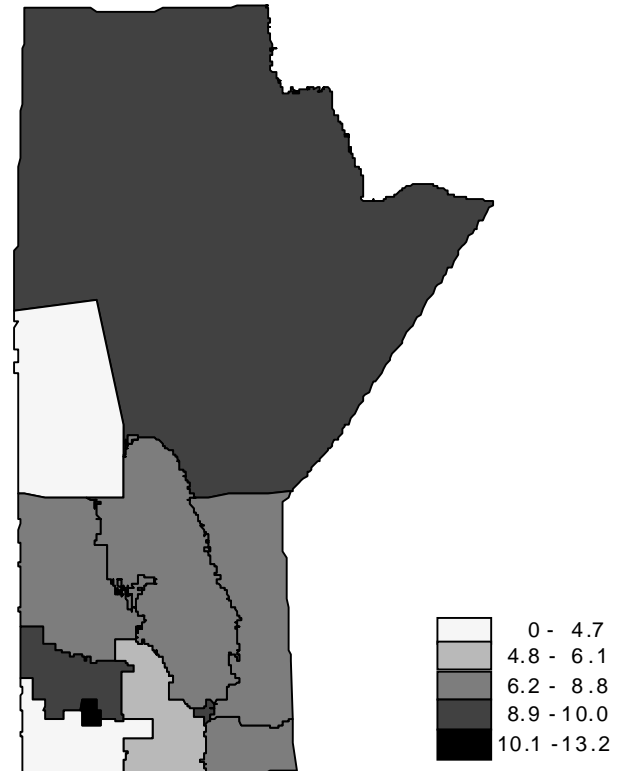
Trachea, bronchus, lung
(ICD-9 162) -Females
Incidence Rates (per 100,000) 1990-96



Breast (ICD-9 174) - Females
Incidence Rates (per 100,000) 1990-96



Breast, in situ (ICD-9 2330) - Females
Incidence Rates (per 100,000) 1990-96



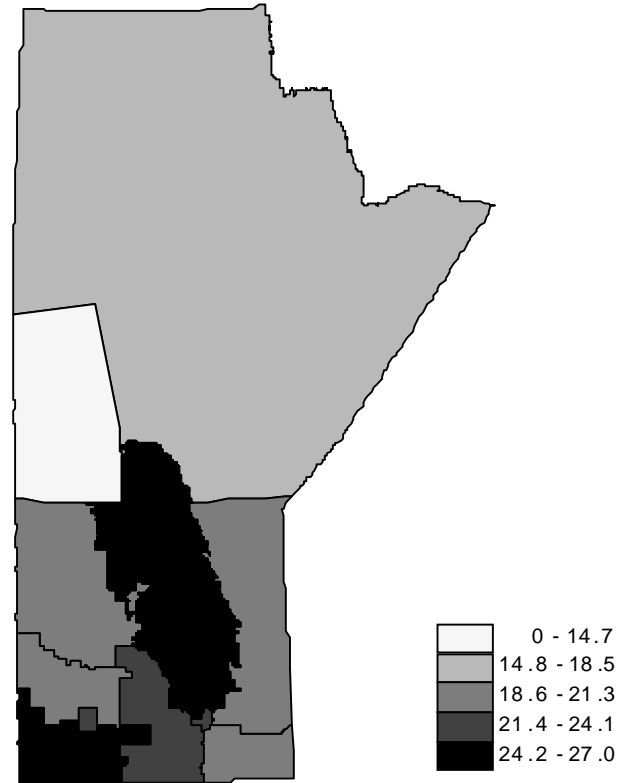
Cervix uteri (ICD-9 180)

Incidence Rates (per 100,000) 1990-96



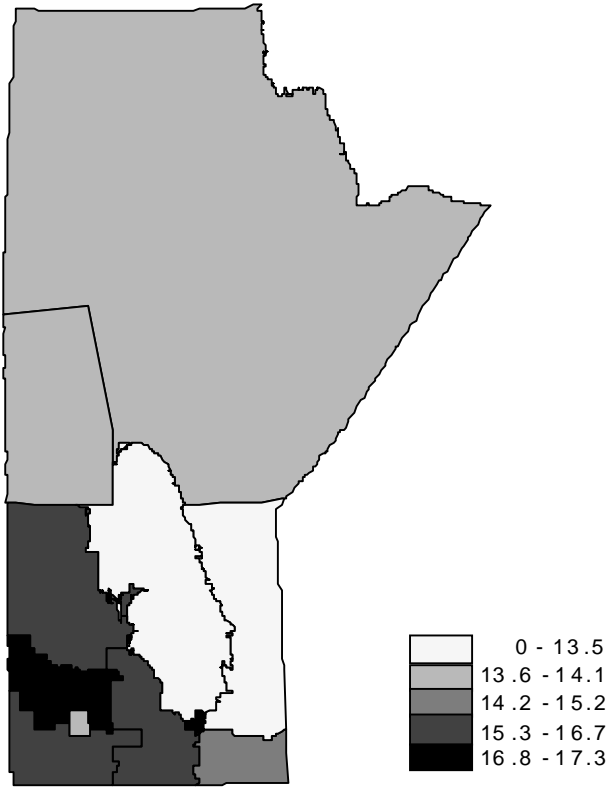
Body of uterus (ICD-9 182)

Incidence Rates (per 100,000) 1990-96



Ovary, uterine adnexa (ICD-9 183)

Incidence Rates (per 100,000) 1990-96



Prostate (ICD-9 185)

Incidence Rates (per 100,000) 1990-96

