

# Cancer in Manitoba

2016 ANNUAL STATISTICAL REPORT



Department of Epidemiology  
and Cancer Registry

 CancerCare Manitoba  
ActionCancerManitoba

# Department of Epidemiology and Cancer Registry

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## Vision

Working together, we will reduce the impact of cancer on all Manitobans.

## Mission

Through early detection, care, research, education, and public outreach, CancerCare Manitoba will contribute to the prevention of cancer and improve the outcomes and quality of life for Manitobans with cancer or blood disorders.

## Introduction to the Data

The Manitoba Cancer Registry is an essential tool for evidence-based, data-driven decision making that has an immense impact on treatment and research. This year's report is based on the following information.

*NOTE: All statistics in the body of this report only include Manitoba residents.*

### Manitoba Cancer Registry data is used for:

- health care planning and monitoring
- surveillance and studies on the causes and prevention of cancer, cancer clusters, treatment patterns, outcomes and survival
- patient care
- quality assurance
- reporting to the Canadian Cancer Registry, the North American Association of Central Cancer Registries and the International Association of Cancer Registries

### Information sources include:

- provincial cytology and pathology departments
- admission/separation data from the provincial hospital abstracting system
- Manitoba Provincial Client Registry
- letters and "Report of Malignant Neoplasm Forms" from physicians and other health care providers
- hospital health records
- correspondence from other provincial and territorial cancer registries on Manitoba residents diagnosed and/or treated in those jurisdictions

### Incidence data

Incidence refers to the number of new cases of cancer diagnosed in Manitoba every year. Cancer cases referenced were diagnosed in the 2016 calendar year. Incidence is also provided by stage of disease at diagnosis.

The Manitoba Cancer Registry uses disease site groupings according to the International Classification of Diseases for Oncology Third Edition (ICD-O3), based on Surveillance Epidemiology and End Results (SEER) Groups. See Appendix 1 for the primary site groupings used for incidence.

### Mortality data

Mortality information refers to Manitobans who died of cancer in the 2016 calendar year, however, those patients may not have been diagnosed in 2016. The Vital Statistics Agency of Manitoba reported cancer as the leading cause of death in the province. In 2016, there were 2,801 deaths due to invasive cancer (age standardized rate – 209.1 per 100,000). The totals in the summary on page 11 include all cancer deaths occurring in Manitoba.

### Rates

Incidence counts and rates are presented in this report. Annual age-standardized rates are per 100,000 population and allow for comparison of cancer rates in different regions with different age structures. Rates are age-standardized (using the direct method) to the 2011 Manitoba population.

### Staging data

The Manitoba Cancer Registry implemented stage data collection for all cases of cancer (excluding non-melanoma skin) diagnosed January 1, 2004 and forward. This data is consistent with the American Joint Committee on Cancer (AJCC) Cancer Staging Manual, 7th edition.

In this report, stage data is shown for all disease site groups with a cancer incidence of 40 cases per year or more and is represented using pie charts. Stage information, along with frequency of incidence for each of these sites, can also be found in table format on page 8.

### Population data

Data are based on Manitoba estimates provided by Manitoba Health, Seniors and Active Living.

**Additional statistical information is available upon request. Please contact the Manitoba Cancer Registry at:**

1-877-787-1272 (toll-free), or  
[CCMBepireg@cancercare.mb.ca](mailto:CCMBepireg@cancercare.mb.ca)

## Manitoba's Cancer Profile

### Facts & Figures

#### Manitoba's cancer profile

Cancer is a significant health issue. In 2016, **11,899** Manitobans were diagnosed with cancer:

- **6,506** invasive cancers
- **2,057** in situ (confined to the area of origin)
- **355** unspecified cancers
- **115** benign brain and CNS (central nervous system)

In this same year, **2,801** people died from the disease.

The number of cancer cases in Manitoba is influenced by three factors:

- the age of the population
- the size of the population
- risk factors such as unhealthy living (including smoking, poor diet, inactivity, sun exposure), some environmental carcinogens, genetic predisposition and not being screened.

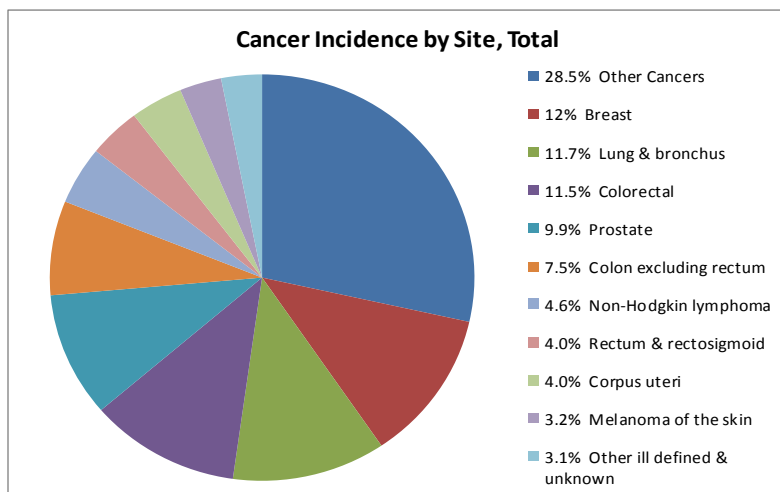
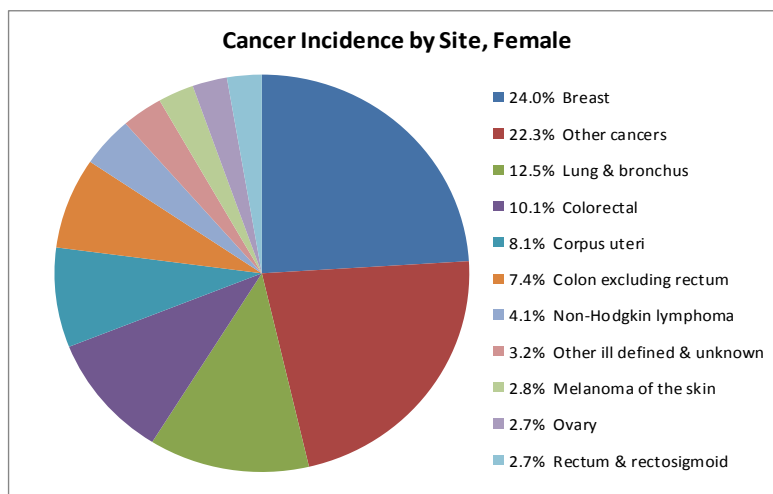
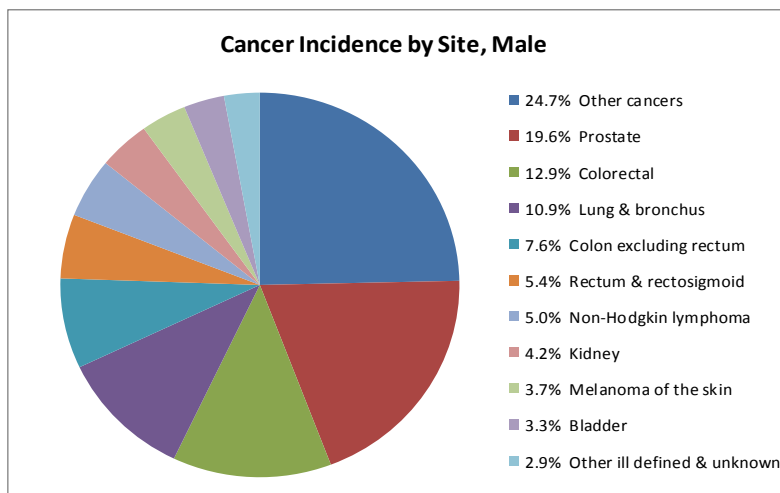
## Most Common Cancer Diagnoses, 2016

### Incidence

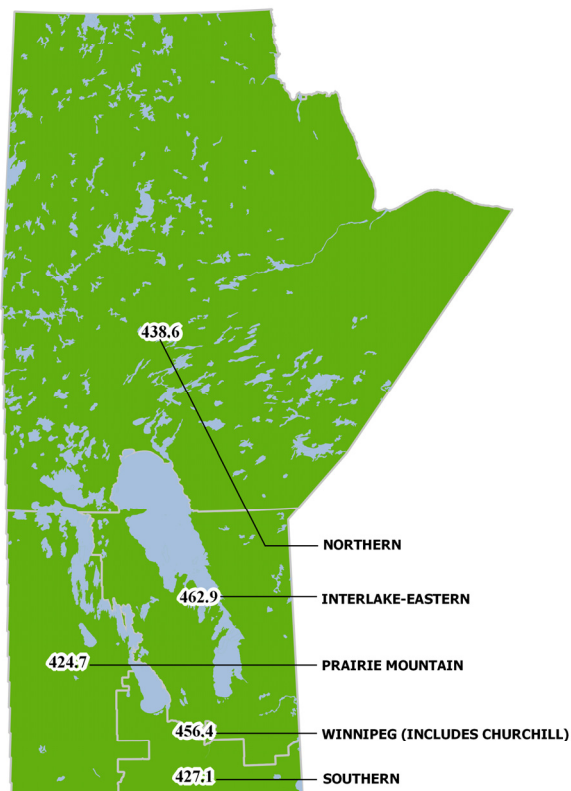
Male		Female		Total	
SITE	CASES	SITE	CASES	SITE	CASES
Prostate	727	Breast	874	Breast	883
Colorectal	480	Lung & bronchus	456	Lung & bronchus	861
Lung & bronchus	405	Colorectal	367	Colorectal	847
Colon excluding rectum	281	Corpus uteri	294	Prostate	727
Rectum & rectosigmoid	199	Colon excluding rectum	269	Colon excluding rectum	550
Non-Hodgkin lymphoma	185	Non-Hodgkin lymphoma	150	Non-Hodgkin lymphoma	335
Kidney	155	Other ill defined & unknown	118	Rectum & rectosigmoid	297
Melanoma of the skin	136	Melanoma of the skin	102	Corpus uteri	294
Bladder	122	Ovary	100	Melanoma of the skin	238
Other ill defined & unknown	108	Rectum & rectosigmoid	98	Other ill defined & unknown	226
Pancreas	91	Thyroid	97	Kidney	221

# Cancer Incidence by Site

## Invasive cancers only

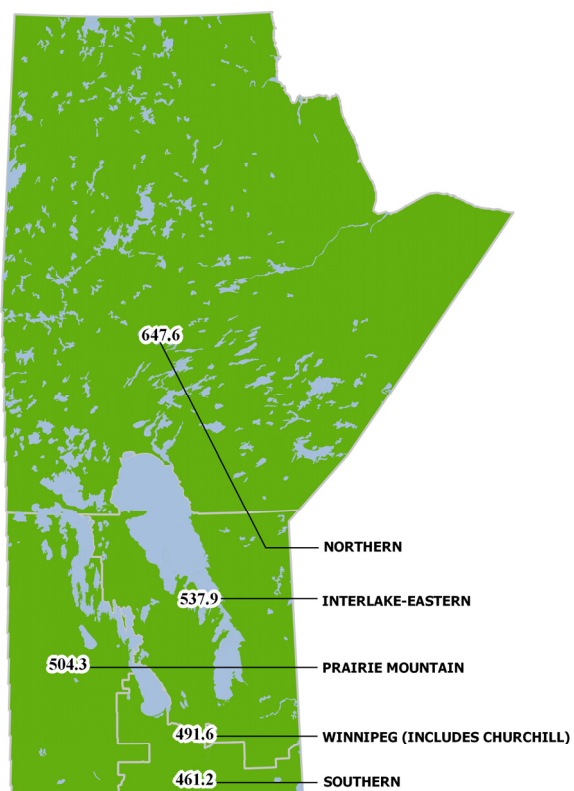


## Manitoba Cancer Rates by Regional Health Authority



### 2016 All Invasive Cancers Male *Incidence*

Age-standardized rate per 100,000  
Standard population: Manitoba 2011  
Out of province residents excluded



## Cancer Incidence - Cases and Rates in Manitoba by Site, 2016

Cancer Site	Age group																					Total			ASIR*				
	00-29			30-39			40-49			50-59			60-69			70-79			80+										
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T		
Buccal cavity & pharynx	Lip	1	0	1	0	0	0	4	0	4	4	4	8	2	3	5	8	4	12	6	6	12	25	17	42	4.08	2.26	3.10	
	Tongue	1	1	2	2	1	3	2	1	3	9	1	10	10	2	12	6	4	10	1	0	1	31	10	41	4.57	1.40	2.94	
	Major salivary gland	0	1	1	0	0	0	0	0	0	2	1	3	0	2	2	1	4	5	1	1	2	4	9	13	0.65	1.22	0.94	
	Floor of mouth	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	3	0	3	1	2	3	7	3	10	1.05	0.38	0.70
	Gum & other mouth	0	0	0	0	0	0	0	2	2	2	1	3	5	5	10	0	3	3	0	5	5	7	16	23	0.98	2.15	1.65	
	Nasopharynx	0	0	0	1	0	1	2	0	2	2	0	2	1	0	1	0	0	0	0	1	1	6	1	7	0.91	0.12	0.53	
	Oropharynx	0	0	0	0	0	0	0	0	0	2	1	3	1	0	1	0	0	0	0	1	1	3	2	5	0.44	0.28	0.37	
	Hypopharynx	0	0	0	0	0	0	0	0	0	1	0	1	2	3	5	4	0	4	1	1	2	8	4	12	1.22	0.52	0.84	
	Other buccal cavity & pharynx	0	0	0	1	0	1	5	1	6	5	1	6	8	2	10	1	1	2	1	1	2	21	6	27	3.16	0.83	1.98	
	Digestive	Esophagus	0	0	0	1	0	1	1	0	1	8	1	9	16	4	20	17	3	20	12	5	17	55	13	68	8.63	1.68	4.86
Stomach		2	0	2	1	1	2	3	2	5	17	7	24	22	13	35	26	9	35	12	11	23	83	43	126	12.75	5.78	9.05	
Small intestine		0	0	0	0	1	1	0	1	1	7	3	10	7	6	13	2	4	6	3	2	5	19	17	36	2.91	2.32	2.58	
Colon excluding rectum		1	5	6	5	3	8	5	12	17	38	30	68	94	62	156	78	71	149	60	86	146	281	269	550	43.84	35.77	39.50	
Rectum & rectosigmoid		1	0	1	2	2	4	14	7	21	47	16	63	70	27	97	36	20	56	29	26	55	199	98	297	30.52	13.24	21.44	
Anus		0	0	0	0	1	1	0	1	1	1	2	3	3	4	7	0	2	2	1	2	3	5	12	17	0.76	1.64	1.22	
Liver		1	1	2	1	0	1	2	2	4	11	2	13	12	3	15	11	3	14	6	3	9	44	14	58	6.75	1.95	4.20	
Gallbladder		0	0	0	0	0	0	0	0	0	0	2	2	2	2	4	1	3	4	0	2	2	3	9	12	0.42	1.21	0.85	
Pancreas		0	0	0	0	0	0	3	3	6	11	10	21	28	25	53	29	26	55	20	24	44	91	88	179	14.29	11.66	12.81	
Other digestive system		0	0	0	1	0	1	3	2	5	4	5	9	10	8	18	19	7	26	6	12	18	43	34	77	6.62	4.54	5.55	
Respiratory	Larynx	1	0	1	0	0	0	0	0	3	0	3	6	2	8	5	0	5	6	0	6	21	2	23	3.37	0.26	1.64		
	Lung & bronchus	0	1	1	2	2	4	8	10	18	48	55	103	112	124	236	144	155	299	91	109	200	405	456	861	63.74	60.43	61.45	
	Other respiratory system	0	0	0	0	0	0	1	1	2	2	0	2	2	0	2	2	2	4	0	1	1	7	4	11	1.03	0.55	0.81	
Bones & joints	2	2	4	0	0	0	2	2	4	0	0	0	1	1	2	0	0	0	0	0	0	5	5	10	0.76	0.77	0.77		
Mesothelial & soft tissue (inc. heart)	Soft tissue (Including heart)	4	5	9	4	3	7	1	4	5	6	4	10	6	3	9	4	3	7	2	1	3	27	23	50	4.04	3.38	3.67	
	Kaposi sarcoma	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	2	0	2	0.34	0.00	0.14	
	Mesothelioma	0	0	0	0	0	0	0	0	0	1	0	1	7	1	8	7	1	8	4	2	6	19	4	23	2.94	0.51	1.62	
Melanoma of the skin	2	2	4	2	9	11	9	13	22	22	16	38	29	21	50	35	17	52	37	24	61	136	102	238	21.98	14.12	17.41		
Breast	0	3	3	0	33	33	0	100	100	3	200	203	0	229	229	2	181	183	4	128	132	9	874	883	1.56	121.70	64.33		
Female genital	Cervix uteri		4			11			7			9			9			2		2			44			6.40			
	Corpus uteri		1			4			33			66			108			49		33			294			40.88			
	Uterus, NOS		0			0			2			2			0			1		1			6			0.89			
	Ovary		0			5			11			21			25			22		16			100			13.86			
	Other female genital system		2			1			4			6			10			16		9			48			6.55			

Cancer Site	Age group																		Total			ASIR*					
	00-29			30-39			40-49			50-59			60-69			70-79			80+			M	F	T	M	F	T
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T						
Male genital																											
Prostate	0			0			7			107			277			234			102			727			110.08		
Testis	13			15			6			5			2			0			0			41			6.09		
Penis	0			0			1			0			2			3			3			9			1.49		
Other male genital system	0			0			0			0			0			0			1			1			0.20		
Urinary																											
Bladder	0	0	0	0	0	0	4	1	5	5	2	7	21	6	27	40	14	54	52	6	58	122	29	151	20.70	3.83	10.94
Kidney	1	1	2	4	2	6	18	6	24	41	13	54	45	19	64	35	13	48	11	12	23	155	66	221	23.39	9.08	16.02
Ureter	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	3	3	6	1	2	3	6	5	11	0.92	0.64	0.78
Other urinary system	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	2	3	1	4	6	2	8	1.04	0.25	0.59
Brain & other CNS																											
Eye	1	0	1	0	2	2	0	2	2	0	0	0	0	1	1	0	1	1	0	0	0	1	6	7	0.15	0.88	0.52
Brain	11	6	17	4	1	5	7	3	10	6	9	15	7	4	11	9	5	14	1	3	4	45	31	76	6.74	4.49	5.62
Other nervous system	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	2	0.15	0.15	0.15
Endocrine																											
Thyroid	3	9	12	4	21	25	6	24	30	11	24	35	7	10	17	2	7	9	2	2	4	35	97	132	5.32	14.50	9.90
Other endocrine	2	1	3	1	0	1	1	2	3	0	2	2	3	0	3	0	2	2	0	1	1	7	8	15	1.01	1.18	1.11
Lymphoma																											
Hodgkin lymphoma	5	5	10	2	2	4	5	1	6	4	2	6	3	2	5	5	2	7	1	0	1	25	14	39	3.81	2.05	2.89
Non-Hodgkin lymphoma	7	5	12	5	6	11	10	6	16	42	22	64	50	42	92	44	35	79	27	34	61	185	150	335	28.49	20.24	24.15
Multiple myeloma	0	0	0	0	0	0	2	0	2	6	5	11	21	12	33	15	11	26	11	12	23	55	40	95	8.53	5.25	6.76
Leukemias																											
Acute lymphocytic leukemia	7	3	10	1	0	1	2	1	3	0	2	2	2	1	3	2	1	3	0	0	0	14	8	22	2.07	1.20	1.64
Chronic lymphocytic leukemia	0	0	0	1	0	1	1	2	3	11	3	14	28	12	40	21	6	27	15	14	29	77	37	114	11.90	4.87	8.14
Acute myeloid leukemia	2	2	4	1	0	1	1	1	2	3	4	7	8	3	11	7	6	13	2	2	4	24	18	42	3.58	2.51	3.01
Chronic myeloid leukemia	0	1	1	1	0	1	1	1	2	2	3	5	2	1	3	9	4	13	3	0	3	18	10	28	0.00	0.00	0.00
Other leukemias	0	0	0	0	0	0	1	0	1	1	0	1	1	1	2	2	0	2	2	3	5	7	4	11	2.82	1.43	2.02
Acute monocytic leukemia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.15	0.50	0.81
Other, ill defined & unknown	0	0	0	2	2	4	2	1	3	14	20	34	23	17	40	39	35	74	28	43	71	108	118	226	17.28	15.60	16.35
TOTAL - ALL INVASIVE	68	62	130	64	113	177	140	272	412	515	577	1092	965	836	1801	913	759	1672	570	652	1222	3235	3271	6506	501.22	447.94	469.01
In situ																											
Non-Melanoma skin & in situ skin	6	5	11	22	44	66	85	91	176	253	254	507	532	456	988	627	413	1040	501	456	957	2026	1719	3745	322.49	230.78	269.86
Breast in situ	0	0	0	0	6	6	0	13	13	0	21	21	0	34	34	0	22	22	0	6	6	0	102	102	0.00	14.29	7.35
Cervix in situ	0	187	187	0	151	151	0	47	47	0	18	18	0	10	10	0	5	5	0	0	0	0	418	418	0.00	62.93	0.00
Prostate in situ	0	0	0	0	0	0	0	0	0	1	0	1	10	0	10	4	0	4	1	0	1	16	0	16	2.30	0.00	0.00
Bladder in situ	0	0	0	0	0	0	0	2	2	9	7	16	32	6	38	38	12	50	36	11	47	115	38	153	18.60	5.11	10.98
Other in situ (Excl. Breast, Skin, Cervix, Prostate, Bladder, Colorectal)	1	5	6	3	4	7	2	7	9	10	21	31	12	22	34	15	17	32	7	5	12	50	81	131	7.68	11.43	9.45
Colorectal in situ	0	0	0	3	3	6	6	7	13	49	34	83	71	34	105	67	41	108	20	23	43	216	142	358	32.39	19.42	25.58
TOTAL - INVASIVE & IN SITU	75	259	334	92	321	413	233	439	672	837	932	1769	1622	1398	3020	1664	1269	2933	1135	1153	2288	5658	5771	11429	884.67	791.89	824.53
Brain uncertain & unspecified	2	0	2	0	0	0	1	0	1	3	0	3	1	4	5	1	2	3	1	2	3	9	8	17	1.40	1.03	1.23
Neoplasms (Uncertain & unspecified, excluding brain)	10	14	24	6	6	12	9	19	28	27	19	46	47	41	88	34	44	78	30	32	62	163	175	338	25.37	24.15	24.51
Brain & nervous system benign	1	2	3	2	8	10	5	12	17	11	16	27	10	15	25	8	8	16	6	11	17	43	72	115	6.67	10.25	8.48
ALL CANCERS	88	275	363	100	335	435	248	470	718	878	967	1845	1680	1458	3138	1707	1323	3030	1172	1198	2370	5873	6026	11899	918.11	827.32	858.74

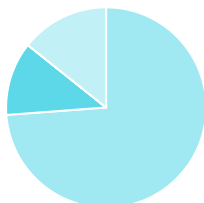
Age-standardized incidence rate per 100,000  
Standard population: Manitoba 2011



Staging on sites with more than 45 cases (Invasive cancers only)

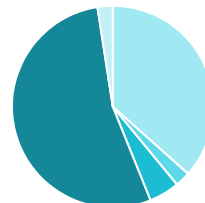
Lip

	Frequency	Percent
Stage I	31	73.81
Stage II	5	11.90
Stage III	0	0.00
Stage IV	0	0.00
Unknown	6	14.29
<b>Total</b>	<b>42</b>	<b>100.00</b>



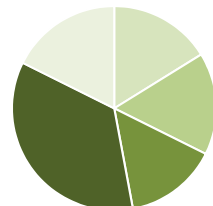
Tongue

	Frequency	Percent
Stage I	15	36.59
Stage II	1	2.44
Stage III	2	4.88
Stage IV	22	53.66
Unknown	1	2.44
<b>Total</b>	<b>41</b>	<b>100.00</b>



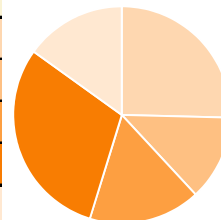
Esophagus

	Frequency	Percent
Stage I	11	16.18
Stage II	11	16.18
Stage III	10	14.71
Stage IV	24	35.29
Unknown	12	17.65
<b>Total</b>	<b>68</b>	<b>100.00</b>



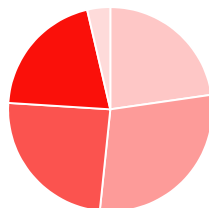
Stomach

	Frequency	Percent
Stage I	32	25.40
Stage II	16	12.70
Stage III	21	16.67
Stage IV	38	30.16
Unknown	19	15.08
<b>Total</b>	<b>126</b>	<b>100.00</b>



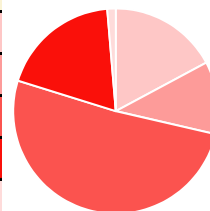
Colon excluding rectum

	Frequency	Percent
Stage I	125	22.73
Stage II	159	28.91
Stage III	134	24.36
Stage IV	112	20.36
Unknown	20	3.64
<b>Total</b>	<b>550</b>	<b>100.00</b>



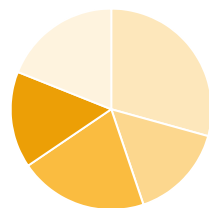
Rectum and rectosigmoid

	Frequency	Percent
Stage I	51	17.17
Stage II	34	11.45
Stage III	152	51.18
Stage IV	56	18.86
Unknown	4	1.35
<b>Total</b>	<b>297</b>	<b>100.00</b>



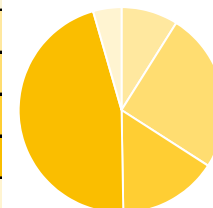
Liver

	Frequency	Percent
Stage I	17	29.31
Stage II	9	15.52
Stage III	12	20.69
Stage IV	9	15.52
Unknown	11	18.97
<b>Total</b>	<b>58</b>	<b>100.00</b>



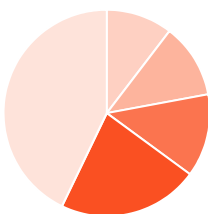
Pancreas

	Frequency	Percent
Stage I	16	8.94
Stage II	45	25.14
Stage III	28	15.64
Stage IV	82	45.81
Unknown	8	4.47
<b>Total</b>	<b>179</b>	<b>100.00</b>



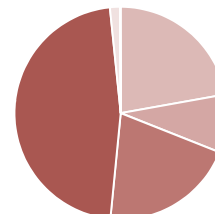
## Other digestive system

	Frequency	Percent
Stage I	8	10.39
Stage II	9	11.69
Stage III	10	12.99
Stage IV	17	22.08
Unknown	33	42.86
<b>Total</b>	<b>77</b>	<b>100.00</b>



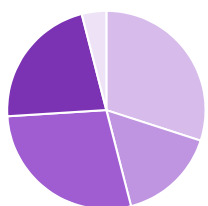
## Lung and bronchus

	Frequency	Percent
Stage I	191	22.18
Stage II	76	8.83
Stage III	177	20.56
Stage IV	403	46.81
Unknown	13	1.51
Occult	1	0.12
<b>Total</b>	<b>861</b>	<b>100.00</b>



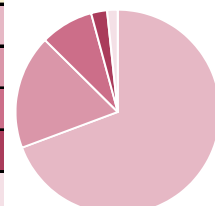
## Soft tissue (including heart)

	Frequency	Percent
Stage I	15	30.00
Stage II	8	16.00
Stage III	14	28.00
Stage IV	11	22.00
Unknown	2	4.00
<b>Total</b>	<b>50</b>	<b>100.00</b>



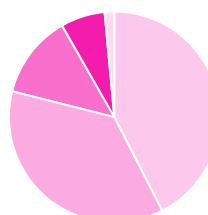
## Melanoma of the skin

	Frequency	Percent
Stage I	165	69.33
Stage II	43	18.07
Stage III	20	8.40
Stage IV	6	2.52
Unknown	4	1.68
<b>Total</b>	<b>238</b>	<b>100.00</b>



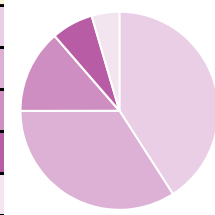
## Breast

	Frequency	Percent
Stage I	375	42.47
Stage II	322	36.47
Stage III	113	12.80
Stage IV	60	6.80
Unknown	13	1.47
<b>Total</b>	<b>883</b>	<b>100.00</b>



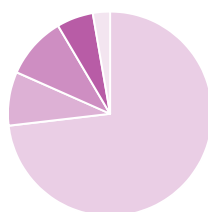
## Cervix uteri

	Frequency	Percent
Stage I	18	40.91
Stage II	15	34.09
Stage III	6	13.64
Stage IV	3	6.82
Unknown	2	4.55
<b>Total</b>	<b>44</b>	<b>100.00</b>



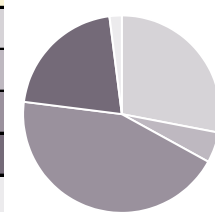
## Corpus uteri

	Frequency	Percent
Stage I	215	73.13
Stage II	25	8.50
Stage III	29	9.86
Stage IV	17	5.78
Unknown	8	2.72
<b>Total</b>	<b>294</b>	<b>100.00</b>



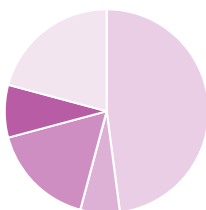
## Ovary

	Frequency	Percent
Stage I	28	28.00
Stage II	5	5.00
Stage III	44	44.00
Stage IV	21	21.00
Unknown	2	2.00
<b>Total</b>	<b>100</b>	<b>100.00</b>



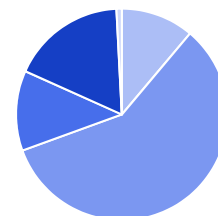
**Other female genital system**

	Frequency	Percent
Stage I	23	47.92
Stage II	3	6.25
Stage III	8	16.67
Stage IV	4	8.33
Unknown	10	20.83
<b>Total</b>	<b>48</b>	<b>100.00</b>



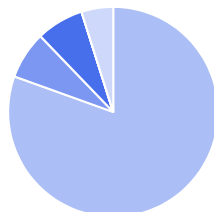
**Prostate**

	Frequency	Percent
Stage I	81	11.14
Stage II	424	58.32
Stage III	89	12.24
Stage IV	127	17.47
Unknown	6	0.83
<b>Total</b>	<b>727</b>	<b>100.00</b>



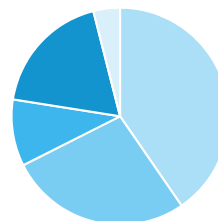
**Testis**

	Frequency	Percent
Stage I	33	80.49
Stage II	3	7.32
Stage III	3	7.32
Stage IV	0	0.00
Unknown	2	4.88
<b>Total</b>	<b>41</b>	<b>100.00</b>



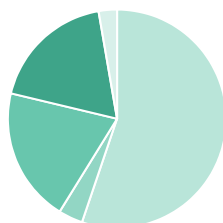
**Bladder**

	Frequency	Percent
Stage I	61	40.40
Stage II	41	27.15
Stage III	15	9.93
Stage IV	28	18.54
Unknown	6	3.97
<b>Total</b>	<b>151</b>	<b>100.00</b>



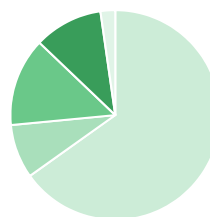
**Kidney**

	Frequency	Percent
Stage I	122	55.20
Stage II	8	3.62
Stage III	44	19.91
Stage IV	41	18.55
Unknown	6	2.71
<b>Total</b>	<b>221</b>	<b>100.00</b>



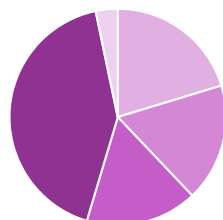
**Thyroid**

	Frequency	Percent
Stage I	86	65.15
Stage II	11	8.33
Stage III	18	13.64
Stage IV	14	10.61
Unknown	3	2.27
<b>Total</b>	<b>132</b>	<b>100.00</b>



**Non-Hodgkin lymphoma**

	Frequency	Percent
Stage I	68	20.30
Stage II	59	17.61
Stage III	56	16.72
Stage IV	141	42.09
Unknown	11	3.28
<b>Total</b>	<b>335</b>	<b>100.00</b>



\* In keeping with international coding conventions, all invasive brain tumors, multiple myeloma and leukemia are considered unstageable using the collaborative staging system utilized by all population-based North American Cancer Registries.

# Deaths by Underlying Cause in Manitoba<sup>1</sup>

(Rate per 100,000)

CAUSES OF DEATH	2016			2015			2014		
	Number	Rate per MB Health Population	Rate per Statistics Canada Population*	Number	Rate per MB Health Population*	Rate per Statistics Canada Population*	Number	Rate per MB Health Population*	Rate per Statistics Canada Population*
Accidents (V01-X59, Y85-Y86)	530	39.6	40.2	534	40.4	41.3	526	40.3	41.0
Cancer (C00 - C97)	2,801	209.1	212.5	2,764	209.3	213.7	2,886	220.9	225.1
Cerebrovascular Disease (I60 - I69)	604	45.1	45.8	596	45.1	46.1	651	49.8	50.8
Diabetes (E10 - E14)	319	23.8	24.2	368	27.9	28.5	324	24.8	25.3
Diseases of the heart (I00 - I09, I11, I13, I20 - I25, I26 - I51)	2,166	161.7	164.3	2,136	161.8	165.1	2,217	169.7	172.9
Pneumonia (J12-J18)	237	17.7	18.0	228	17.3	17.6	226	17.3	17.6
Suicide (X60 - X84, Y890)	193	14.4	14.6	173	13.1	13.4	176	13.5	13.7

## Reference

<sup>1</sup>Vital Statistics Agency, 2016/17 Annual Report. Government of Manitoba; 2017. [cited Oct 10, 2019].

[http://vitalstats.gov.mb.ca/pdf/2017\\_vs\\_annual\\_report\\_en.pdf](http://vitalstats.gov.mb.ca/pdf/2017_vs_annual_report_en.pdf)

## Appendix 1

### INTERNATIONAL CLASSIFICATION OF DISEASES FOR ONCOLOGY 3rd Edition

PRIMARY SITE	SITE/ CELL TYPE	PRIMARY SITE	SITE/ CELL TYPE
<b>Buccal cavity and pharynx</b>	C00:C14	<b>Male genital system</b>	C60:C63
Lip	C000:C009	Prostate	C619
Tongue	C019:C029	Testis	C620:C629
Major salivary gland	C079:C089	Penis	C600:C609
Floor of mouth	C040:C049	Other male genital system	C630:C639
Gum & other mouth	C030:C039, C050:C059, C060:C069	<b>Urinary system</b>	C64:C68
Nasopharynx	C110:C119	Bladder (incl. in situ)	C670:C679
Oropharynx	C100:C109	Kidney and renal pelvis	C649, C659
Hypopharynx	C129, C130:C139	Ureter	C669
Other buccal cavity & pharynx	C090:C099, C140, C142:C148	Other urinary system	C680:C689
<b>Digestive system</b>	C15:C26	<b>Eye</b>	C690:C699
Esophagus	C150:C159	<b>Brain &amp; other nervous system</b>	C70:C72
Stomach	C160:C169	Brain	C710:C719
Small intestine	C170:C179	Other nervous system	C710:C719 ( 953), C700:C709, C720:C729
Colon excluding rectum	C180:C189, C260	<b>Endocrine</b>	C73:C75
Rectum & Rectosigmoid	C199, C209	Thyroid	C739
Anus	C210:C212, C218	Other endocrine	C379, C740:C749, C750:C759
Liver	C220	<b>Lymphomas</b>	
Gallbladder	C239	Hodgkin lymphoma	9650-9667
Pancreas	C250:C259	Non-Hodgkin lymphoma	9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737, 9738
Other digestive system	C240:C249, C221, C480, C481:C482, C268:C269, C488		9811-9818 (except C420, C421, C424) 9823 (except C420, C421, C424) 9827 (except C420, C421, C424) 9837 (except C420, C421, C424)
<b>Respiratory system</b>	C30:C39	Myeloma	9731-9732, 9734
Larynx	C320:C329	<b>Leukemias</b>	C42
Lung & bronchus	C340:C349	Acute lymphocytic	9826, 9835-9836 9811-9818 (only C421) 9837 (only C421)
Other respiratory system	C300:C301, C310:C319, C384, C339, C381:C383, C388, C390:C399	Chronic lymphocytic	9823 (only C421, if SLL C77)
<b>Bones &amp; joints</b>	C400:C419	Acute myeloid	9840, 9861, 9865-9867, 9869, 9871-9874, 9895-9897, 9898, 9910-9911, 9920,
<b>Soft tissue (including heart)</b>	C380, C470:C479, C490:C499	Acute monocytic	9891
<b>Mesothelioma</b>	9050:9055	Chronic myeloid	9863, 9875-9876, 9945-9946
<b>Kaposi sarcoma</b>	9140	Other	9733, 9742, 9800, 9801, 9805-9809, 9820, 9831-9834, 9860, 9870, 9930, 9931, 9940, 9948, 9963, 9964 9827 (only C421)
<b>Skin</b>	C44	<b>Other, ill-defined, &amp; unknown</b>	9740-9741, 9750-9769, 9950, 9960-9962, 9965-9967, 9970-9971, 9975, 9980, 9982-9987, 9989, 9991-9992 C420-C424 (except 9050-9055, 9140, 9590-9992) C760-C768 (except 9050-9055, 9140, 9590-9992) C770-C779 (except 9050-9055, 9140, 9590-9992) C809 (except 9050-9055, 9140, 9590-9992)
Melanomas of the skin	C440:C449 ( 8720:8790)		
Other skin	C440:C449		
<b>Breast</b>	C500:C509		
<b>Female genital system</b>	C51:C58		
Cervix uteri	C530:C539		
Corpus uteri	C540:C549		
Uterus, NOS	C559		
Ovary	C569		
Other female genital system	C529, C510:C519, C570:C589		

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Find the Department of Epidemiology and Cancer Registry and data request guidelines online under the Research tab at [www.cancercare.mb.ca](http://www.cancercare.mb.ca)

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