

Definition/Description:

This section presents the leading causes of death in the WHR by age and sex. The leading causes of death were ranked by count.

The 10 leading causes of death were ranked based on the Diagnostic Classification Code using ICD-9CM for the data from 1990-1994 and 1995-1999. Causes of death were not determined for the data from 2000 to 2002 as the coding changed from ICD-9 to ICD-10 in the year 2000. The resulting classification categories for the ICD-10 codes are currently being developed. Therefore, only the data from 1990-1999 are used to categorize the leading causes of death.

Source:

The death data used in this report was obtained from Vital Statistics Agency, Consumer and Corporate Affairs, Manitoba Finance and Manitoba Bureau of Statistics, Government of Manitoba. All numerical values, tables, and figures (including spatial analyses) were generated by the Population Health and Health System Analysis Unit, Winnipeg Regional Health Authority.

For further information, a comprehensive Mortality Report, Winnipeg Regional Health Authority, 2004, can be found at

<http://www.wrha.mb.ca/howcare/decsup/files/population/WRHAMortalityReport2004.pdf>

Findings:

Ten Leading Causes of Death Both Sexes, 1995-1999

Diagnostic Classification Codes (ICD-9CM Codes)	Deaths	Rate per 1000	Percentage of Deaths
Ischemic Heart Disease (410-414)	5670	1.774	21.9
Cerebrovascular Disease (430-438)	2129	0.666	8.2
Malignant Neoplasm of Digestive Organ (150-159)	1875	0.587	7.2
Malignant Neoplasm of Respiratory Organ (160-165)	1859	0.582	7.2
Other Forms of Heart Disease (420-429)	1406	0.440	5.4
Injury and poisoning (E800-E999)	1321	0.413	5.1
Malignant Neoplasm of Genitourinary Organ (179-189)	1032	0.323	4.0
Pneumonia and Influenza (480-487)	1022	0.320	3.9
Chronic Obstructive Pulmonary Disease (490-496)	1019	0.319	3.9
Malignant Neoplasm of Bone, Skin, Breast (170-175)	727	0.227	2.8

Both Sexes, 1990-1994

Diagnostic Classification Codes (ICD-9CM Codes)	Deaths	Rate per 1000	Percentage of Deaths
Ischemic Heart Disease (410-414)	5267	1.645	23.0
Cerebrovascular Disease (430-438)	1900	0.593	8.3
Malignant Neoplasm of Digestive Organ (150-159)	1740	0.544	7.6
Malignant Neoplasm of Respiratory Organ (160-165)	1635	0.511	7.1
Other Forms of Heart Disease (420-429)	1146	0.358	5.0
Injury and poisoning (E800-E999)	1053	0.329	4.6
Malignant Neoplasm of Genitourinary Organ (179-189)	1018	0.318	4.4
Pneumonia and Influenza (480-487)	929	0.290	4.1
Chronic Obstructive Pulmonary Disease (490-496)	820	0.256	3.6
ILL-Defined, Unknown Morbidity, Mortality (797-799)	680	0.212	3.0

Females, 1995-1999

Diagnostic Classification Codes (ICD-9CM Codes)	Deaths	Rate per 1000	Percentage of Deaths
Ischemic Heart Disease (410-414)	2819	1.713	21.1
Cerebrovascular Disease (430-438)	1281	0.778	9.6
Malignant Neoplasm of Digestive Organ (150-159)	880	0.535	6.6
Other Forms of Heart Disease (420-429)	784	0.476	5.9
Malignant Neoplasm of Respiratory Organ (160-165)	779	0.473	5.8
Malignant Neoplasm of Bone, Skin, Breast (170-175)	650	0.395	4.9
Pneumonia and Influenza (480-487)	555	0.337	4.2
Injury and poisoning (E800-E999)	513	0.312	3.8
Chronic Obstructive Pulmonary Disease (490-496)	476	0.289	3.6
Malignant Neoplasm of Genitourinary Organ (179-189)	418	0.254	3.1

Females, 1990-1994

Diagnostic Classification Codes (ICD-9CM Codes)	Deaths	Rate per 1000	Percentage of Deaths
Ischemic Heart Disease (410-414)	2516	1.527	22.1
Cerebrovascular Disease (430-438)	1131	0.687	9.9
Malignant Neoplasm of Digestive Organ (150-159)	806	0.489	7.1
Malignant Neoplasm of Respiratory Organ (160-165)	624	0.379	5.5
Other Forms of Heart Disease (420-429)	612	0.372	5.4
Malignant Neoplasm of Bone, Skin, Breast (170-175)	595	0.361	5.2
Pneumonia and Influenza (480-487)	512	0.311	4.5
Malignant Neoplasm of Genitourinary Organ (179-189)	405	0.246	3.6
ILL-Defined, Unknown Morbidity, Mort. (797-799)	354	0.215	3.1
Injury and poisoning (E800-E999)	352	0.214	3.1

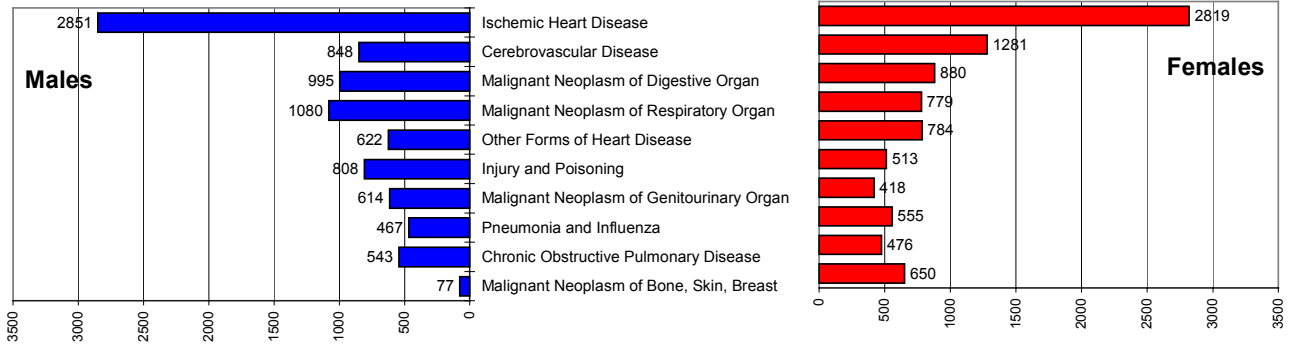
Males, 1995-1999

Diagnostic Classification Codes (ICD-9CM Codes)	Deaths	Rate per 1000	Percentage of Deaths
Ischemic Heart Disease (410-414)	2851	1.839	22.8
Malignant Neoplasm of Respiratory Organ (160-165)	1080	0.697	8.6
Malignant Neoplasm of Digestive Organ (150-159)	995	0.642	7.9
Cerebrovascular Disease (430-438)	848	0.547	6.8
Injury and poisoning (E800-E999)	808	0.521	6.4
Other Forms of Heart Disease (420-429)	622	0.401	5.0
Malignant Neoplasm of Genitourinary Organ (179-189)	614	0.396	4.9
Chronic Obstructive Pulmonary Disease (490-496)	543	0.350	4.3
Pneumonia and Influenza (480-487)	467	0.301	3.7
Malignant Neoplasm of Lymphatic Hematopoietic Tissue (200-208)	391	0.252	3.1

Males, 1990-1994

Diagnostic Classification Codes (ICD-9CM Codes)	Deaths	Rate per 1000	Percentage of Deaths
Ischemic Heart Disease (410-414)	2751	1.770	23.9
Malignant Neoplasm of Respiratory Organ (160-165)	1011	0.651	8.8
Malignant Neoplasm of Digestive Organ (150-159)	934	0.601	8.1
Cerebrovascular Disease (430-438)	769	0.495	6.7
Injury and poisoning (E800-E999)	701	0.451	6.1
Malignant Neoplasm of Genitourinary Organ (179-189)	613	0.394	5.3
Other Forms of Heart Disease (420-429)	534	0.344	4.6
Chronic Obstructive Pulmonary Disease (490-496)	471	0.303	4.1
Pneumonia and Influenza (480-487)	417	0.268	3.6
Malignant Neoplasm of Lymphatic Hematopoietic Tissue (200-208)	332	0.214	2.9

Leading Causes of Death by Count for Both Sexes, 1995-1999



Proportions Attributed to Specific Cause of Death for Both Sexes, 1995-1999

Diagnostic Classification Codes (ICD-9CM)	Deaths	Percentage of Deaths
Ischemic Heart Disease (410-414)	5670	
*AMI(410)	2671	47.1
Cerebrovascular Disease (430-438)	2129	
*All Stroke (430-437, 434, 436)	1863	87.5
Malignant Neoplasm of Respiratory Organ (160-165)	1859	
*Lung Cancer (162)	1789	96.2
Injury and Poisoning (E800-E999)	1321	
*Unintentional Injury (E800-E929 exclude E870-879)	767	58.1
Malignant Neoplasm of Bone, Skin, Breast (170-175)	727	
*Breast Cancer (174)	583	80.2

Proportions Attributed to Specific Cause of Death for Females, 1995-1999

Diagnostic Classification Codes (ICD-9CM)	Deaths	Percentage of Deaths
Ischemic Heart Disease (410-414)	2819	
*AMI (410)	1355	48.1
Cerebrovascular Disease (430-438)	1281	
* All Stroke (430-437, 434, 436)	1134	88.5
Malignant Neoplasm of Respiratory Organ (160-165)	779	
*Lung Cancer (162)	765	98.2
Malignant Neoplasm of Bone, Skin, Breast (170-175)	650	
*Breast Cancer (174)	581	89.4
Injury and Poisoning (E800-E999)	513	
*Unintentional Injury (E800-E929 exclude E870-879)	338	65.9

Proportions Attributed to Specific Cause of Death for Males, 1995-1999

Diagnostic Classification Codes (ICD-9CM)	Deaths	Percentage of Deaths
Ischemic Heart Disease (410-414)	2851	
*AMI (410)	1316	46.2
Malignant Neoplasm of Respiratory Organ (160-165)	1080	
*Lung Cancer (162)	1024	94.8
Cerebrovascular Disease (430-438)	848	
*All Stroke (430-437, 434, 436)	729	86.0
Injury and Poisoning (E800-E999)	808	
*Unintentional Injury (E800-E929 exclude E870-879)	429	53.1
Malignant Neoplasm of Genitourinary Organ (179-189)	614	
*Prostate Cancer (185)	391	63.7

Highlights:

- The 10 leading causes of death account for approximately 70% of all deaths.
- The 10 leading causes of death for 1995-1999, in order of rank, were:
 - Ischemic Heart Disease,
 - Cerebrovascular Disease,
 - Malignant Neoplasm of the Digestive Organs,
 - Malignant Neoplasm of the Respiratory Organs,
 - Other Forms of Heart Disease (Heart Failure, Acute pericarditis, etc.),
 - Injury and Poisonings,
 - Malignant Neoplasms of Genitourinary Organs,
 - Pneumonia and Influenza,
 - Chronic Obstructive Pulmonary Disease
 - Malignant Neoplasm of Bone, Skin and Breast. A similar list of 10 leading causes of death was found for the prior five years.
- Ischemic Heart Disease is notably the leading cause of death for both sexes when total deaths are compared to the Diagnostic Classification Codes. Both males and females have the same leading four causes of death. The fifth leading cause is different for males (Injury and Poisoning) from females (Other Forms of Heart Disease).
- Total deaths for specific diseases such as Acute Myocardial Infarction (AMI), Stroke, Lung Cancer, Breast Cancer and Unintentional Injury account for the majority of the leading causes of death and 30% of all deaths. Of importance is the following:
 - AMI accounts for 47.1% of deaths in the Ischemic Heart Disease category
 - Stroke account for 87.5% of deaths in the Cerebrovascular Disease category
 - Lung Cancer accounts for 96.2% of deaths in the Malignant Neoplasm of the Respiratory Organs category
 - Unintentional Injury accounts for 58.1% of deaths in the Injury and Poisoning category
 - Breast Cancer accounts for 80.2% of deaths in the Malignant Neoplasm of Bone, Skin and Breast category.