

2002-2006

Wisconsin
Cancer Incidence
and Mortality



Wisconsin Department of Health Services
Division of Public Health
Office of Health Informatics

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Office of Health Informatics*

Foreword

Wisconsin Cancer Incidence and Mortality, 2002-2006 presents summary information about Wisconsin cancer incidence (new cancer cases) and mortality (deaths due to cancer) that occurred from 2002 through 2006. The Wisconsin Cancer Reporting System (WCRS), part of the Office of Health Informatics, Division of Public Health, Department of Health Services (DHS), collects reports of all newly diagnosed Wisconsin resident cancer cases from hospitals, clinics, physician offices and out-of-state central cancer registries. This report would not be possible without the conscientious reporting of all these sources.

Since 1976, WCRS has collected cancer incidence data on Wisconsin residents as mandated by section 255.04, Wisconsin Statutes, and HFS 124.05(3)(h), Wisconsin Administrative Code. All invasive and noninvasive malignant tumors, except basal and squamous cell carcinomas of the skin and *in situ* cancers of the cervix uteri, are reportable to WCRS. Starting in 1994, WCRS entered into a cooperative agreement with the U.S. Centers for Disease Control and Prevention (CDC) and became part of the National Program of Cancer Registries (NPCR).

Wisconsin Cancer Incidence and Mortality, formerly an annual report, is now produced every two years. (In alternate years WCRS and the American Cancer Society produce *Wisconsin Cancer Facts and Figures*.) In addition to presenting cancer statistics for the total Wisconsin population, this report provides five-year average incidence and mortality rates for four race groups (African-American, Asian/Pacific Islander, American Indian and white) and Hispanic/Latino ethnicity. This report presents invasive cancer data (except *in situ* bladder cancer), as is the standard practice in most state and national cancer publications.

Wisconsin Cancer Incidence and Mortality, 2002-2006 was produced by the Department of Health Services. Mary Foote developed the statistical data and text for this report. The report was edited by Patricia Nametz. Laura Stephenson created the final data set and Jane Conner prepared data tables and graphs. It was prepared under the supervision of Judith Nugent, Section Chief, Health Care Information Section, and the general direction of Denise Webb, Interim Director, Office of Health Informatics.

We acknowledge the Centers for Disease Control and Prevention (CDC) for its support of this publication under CDC Cooperative Agreement U58/DP000829. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the CDC. This publication, as well as other information about WCRS operations and previous annual and special reports, is available at the Department's Web site (see address below). Requests for further information about this report may be addressed to Mary Foote at the address below.

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Introductory Guide for Reading this Report

Content of the Report. *Wisconsin Cancer Incidence and Mortality, 2002-2006* summarizes data on cases among Wisconsin residents diagnosed with cancer between January 1, 2002 and December 31, 2006 and reported to the Wisconsin Cancer Reporting System (WCRS) by January 15, 2009. Approximately 95 percent of WCRS's estimated 2002-2006 cases are included in this report, according to the national standard for statewide completeness (all cancer sites combined) as calculated by the Centers for Disease Control and Prevention's National Program of Cancer Registries. However, completeness rates are not as high for 2005 and 2006 as for years 2002-2004. The lower completeness for these years is largely due to incomplete reporting by facilities for this time period. Counties affected are generally rural Wisconsin counties, especially those along the state border. Lower completeness results in slightly lower incidence rates and makes 2005 and 2006 annual data less comparable to annual data from previous years.

In this report, tables and graphs for incidence and mortality data are presented for the major cancer sites. Cancer site classifications are those established by the Surveillance, Epidemiology, and End Results (SEER) program at the National Cancer Institute (NCI) and used by the North American Association of Central Cancer Registries (NAACCR). These standard site classifications allow comparisons to national and other state publications.

In addition to demographic characteristics of sex and age, this report presents data by race in four categories: white, African American, American Indian and Asian/Pacific Islander. Cancer incidence rates for the Hispanic/Latino population are derived from an application of the NAACCR Identification Algorithm version 2 (NHIA v2). The NHIA v2 produces Hispanic/Latino rates for all races combined. The NAACCR Asian Pacific Islander Identification Algorithm version 1 was used to enhance Asian race categories. For comparability to previous reports, and due to the small number of cancer cases among racial and ethnic minorities, rates by race are shown independent of rates by Hispanic/Latino ethnicity. Five years of combined data are used to present rates by race, ethnicity and county of residence at diagnosis. All rates based on five years of data should be interpreted as average annual rates. Five-year averages provide more reliable age-adjusted rates for the relatively small minority racial groups in Wisconsin.

The county variable in this report is based on the patient's residence at time of diagnosis for incidence data, and residence at time of death for mortality data. As with the race variable, age-adjusted rates by county were calculated for 2002-2006 combined years of data, because the annual number of cases in each county was often small.

Data Sources. This report includes cancer cases diagnosed in 2002-2006 among Wisconsin residents. These cases were reported by Wisconsin hospitals, clinics and physician offices, cooperating out-of-state cancer registries and selected Minnesota hospitals.

Mortality data used in this report reflect Wisconsin resident death records for the years 2002-2006 from the Vital Records Section, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services. The data file used was the National Center for Health Statistics public use data file of Wisconsin resident deaths. Cancer mortality rate calculations are based on the underlying cause of death recorded on the death certificate.

Invasive Cases. This report focuses on invasive cancer data to make the data comparable with national data and data from other states. Following national standards, invasive cancer rates exclude all *in situ* cancer cases except those of the urinary bladder.

Age-adjusted Incidence and Mortality Rates. Following National Cancer Institute (NCI) and CDC guidelines, WCRS age-adjusts incidence and mortality rates per 100,000 population for Wisconsin residents to the U.S. Census Bureau's 2000 U.S. standard population age distribution. The SEER*Stat software package, from NCI, was used to calculate both incidence and mortality rates. The populations used as denominators for all calculations are described in Appendix 6. All rates in the report are age-adjusted to account for differences in age distribution over time and across different geographic regions.

Cancer incidence rates reflect the number of newly diagnosed cancers in the population, rather than the number of individuals who have been newly diagnosed with cancer. For example, in this report, a person diagnosed with two cancers in the same year will be counted as two cancer cases in the annual count of cancer incidence. Thus "cancer cases" are distinguished from "individuals with cancer."

Incidence and Mortality Comparisons. The incidence data presented in this report reflect new cancers diagnosed in 2002-2006. The mortality data represent cancer deaths that occurred in 2002-2006; the cancer that led to the death *may have been diagnosed prior to 2002*. It is important that readers not make assumptions about survival rates or percents based on the incidence/mortality ratios.

Data Quality and Limitations. This report represents data collected from different types of facilities. Reporting sources vary in their ability to provide timely and complete data, and WCRS appreciates the efforts of reporting facilities to ensure the overall good quality of Wisconsin cancer reports. However, variations in facility compliance and reporting practices exist based on the resources of the facility and the experience and qualifications of the reporters.

Increasing demands on facility reporting systems and decreasing resources to meet all reporting requirements have had an effect on facilities' ability to report data completely and accurately. In this report, reporting gaps are more evident in the county analyses and for less common cancer sites. WCRS is working closely with all facilities to reduce the burden of reporting by making electronic reporting increasingly available, developing training materials that are available on the Web, and providing increased and focused feedback to all reporting facilities.

All Wisconsin-based facilities are required by Wisconsin statute to abstract and report cancer incidence data to WCRS within six months from the date of diagnosis or date of first contact with the patient. This 'six-month rule' is the national standard that all central cancer registries work to achieve and maintain. It is WCRS policy to update database files for late reporting of cases and to accept cases for past years, as is consistent with other central cancer registries in the National Program of Cancer Registries.

WCRS staff edit, process and analyze the cancer data received. Quality assurance measures are in place to identify incomplete and/or inaccurate incoming data. Facility-specific contacts (in person, by phone, or by written correspondence) and group training sessions are implemented as needed (WCRS-initiated) or requested (facility-initiated).

The five-year time frame of this report provides increased reliability for certain data analyses, as small numbers of cases are reported for less common cancer sites, minority race and ethnic groups and county-level data. When reviewing the statewide annual data provided in this report, caution is also warranted when computing rates or relative proportions for specific cancer sites due to the relative rarity of some cancers.

Chapter 1: All Cancer Sites

Incidence

Each year from 2002 through 2006, an annual average of 27,256 cancers were diagnosed among Wisconsin residents. The average age-adjusted incidence rate for all cancers was 470.3 per 100,000 Wisconsin residents (Table 1.1).

For Wisconsin males during 2002-2006 the most commonly diagnosed cancer was prostate cancer (average annual age-adjusted rate of 156.9 per 100,000 males). The second leading cancer among males was cancer of the lung and bronchus (79.8 per 100,000). Cancer of the colon and rectum was the third leading cancer among males (57.1 per 100,000) (Figure 1.7).

For Wisconsin females during 2002-2006 the most commonly diagnosed cancer was cancer of the breast (average annual age-adjusted rate of 122.7 per 100,000 females). Cancer of the lung and bronchus was the second leading cancer among females (54.1 per 100,000), and cancer of the colon and rectum was third (43.2 per 100,000) (Figure 1.8).

Mortality

Cancer is second only to heart disease as the leading cause of death in Wisconsin, with an average of 10,841 cancer deaths each year from 2002 through 2006. The average age-adjusted mortality rate was 184.3 per 100,000 population for all cancers combined (Table 1.2).

Among males in Wisconsin during 2002-2006, lung and bronchial cancer was the leading cause of cancer mortality (average annual age-adjusted mortality rate of 62.9 per 100,000), causing at least twice the deaths of any other cancer. Prostate cancer was the second leading cause of cancer mortality among males (27.8 per 100,000), and cancer of the colon and rectum was third (20.7 per 100,000) (Figure 1.7).

Among females in Wisconsin during 2002-2006 the leading cause of cancer mortality was cancer of the lung and bronchus (38.7 per 100,000). Breast cancer ranked second as a cause of cancer mortality among women (23.4 per 100,000), and cancer of the colon and rectum third (14.5 per 100,000) (Figure 1.8).

Table 1.1. Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	14,114	544.2	-1.8%	13,141	418.4	-0.6%	27,256	470.3	-1.2%
2002	13,964	560.0	N/A	12,954	421.0	N/A	26,918	478.4	N/A
2003	13,824	545.1	N/A	13,092	421.2	N/A	26,916	471.1	N/A
2004	14,717	566.8	N/A	13,167	419.4	N/A	27,884	481.4	N/A
2005	14,180	536.0	N/A	13,429	423.4	N/A	27,609	469.7	N/A
2006	13,887	515.0	N/A	13,065	407.9	N/A	26,952	451.9	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Number of cases is for all invasive cancers and in situ bladder cases. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

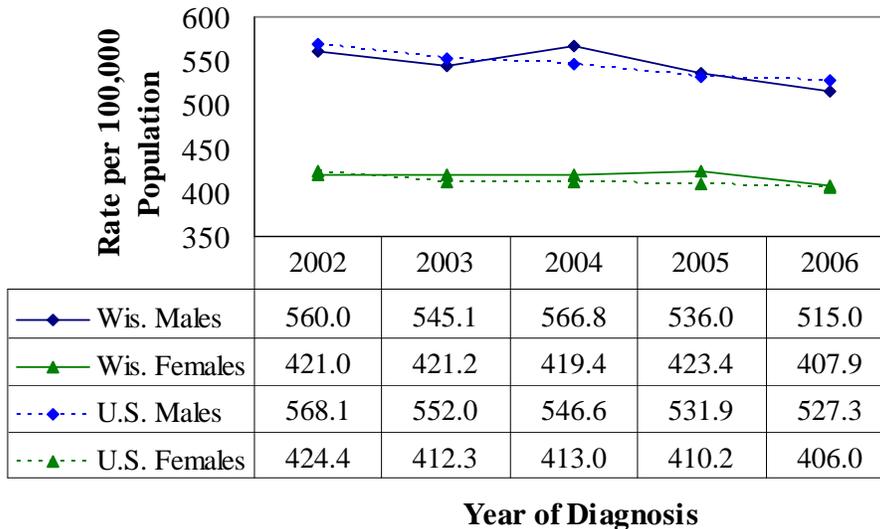
Table 1.2. Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	5,605	226.3	-1.6%	5,236	156.6	-0.5%	10,841	184.3	-0.9%
2002	5,567	232.7	N/A	5,261	161.7	N/A	10,828	189.5	N/A
2003	5,547	228.3	N/A	5,101	154.0	N/A	10,648	183.2	N/A
2004	5,715	231.3	N/A	5,146	154.1	N/A	10,861	185.0	N/A
2005	5,621	222.8	N/A	5,322	156.8	N/A	10,943	183.4	N/A
2006	5,573	217.4	N/A	5,352	156.5	N/A	10,925	180.7	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Number of cases is for all invasive cancers and in situ bladder cases. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

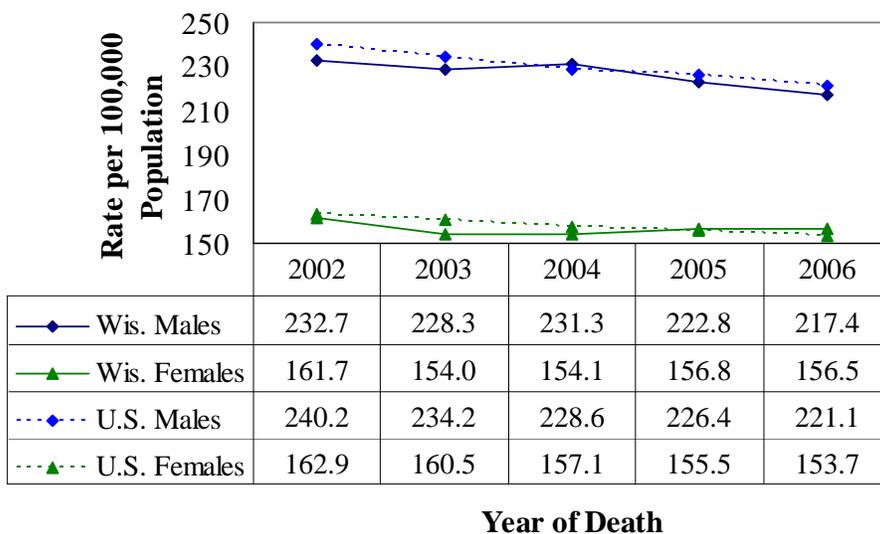
Figure 1.1. Cancer, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

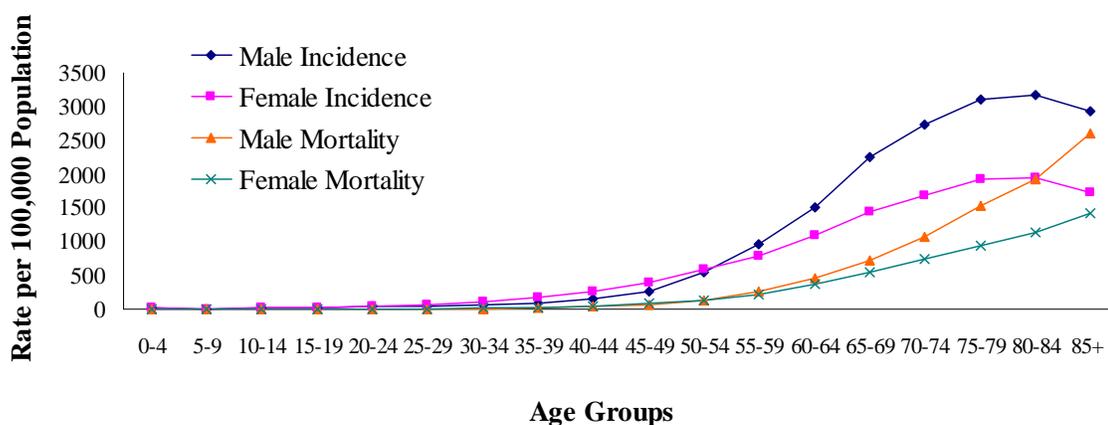
Figure 1.2. Cancer, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

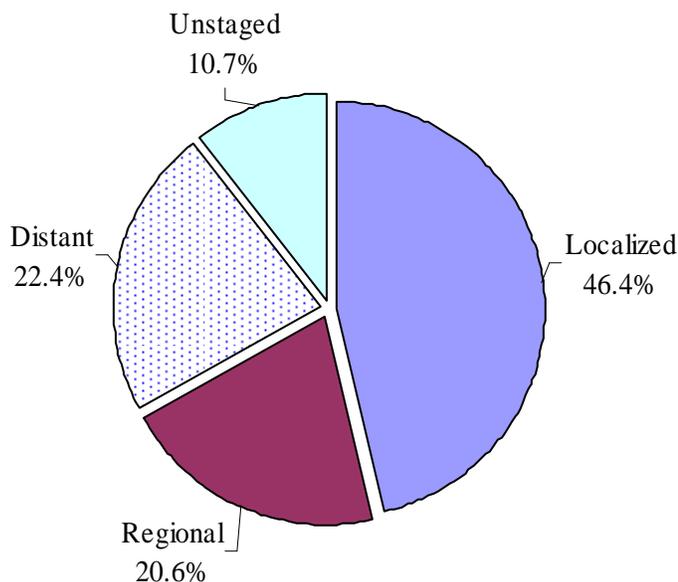
Figure 1.3. Cancer, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and the National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population (2002-2006) for each age group and sex.

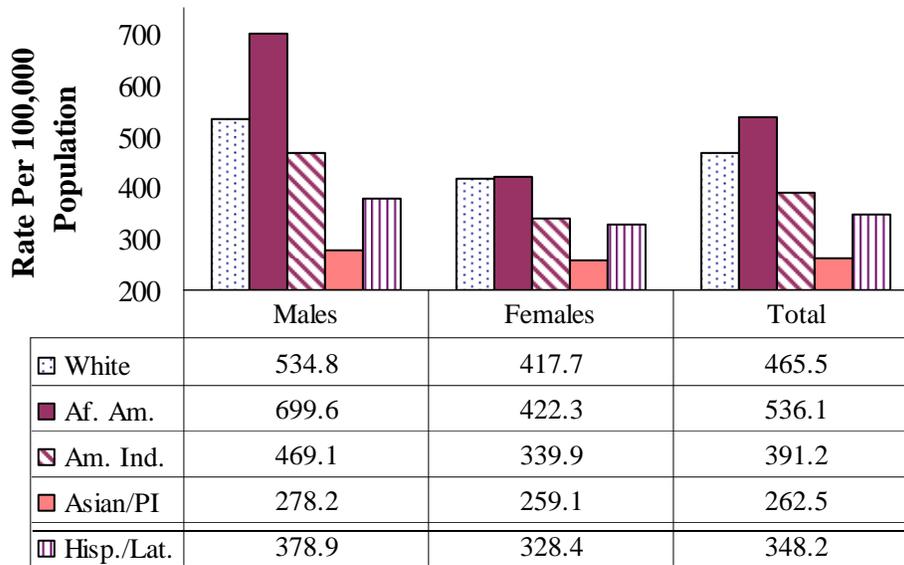
Figure 1.4. Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

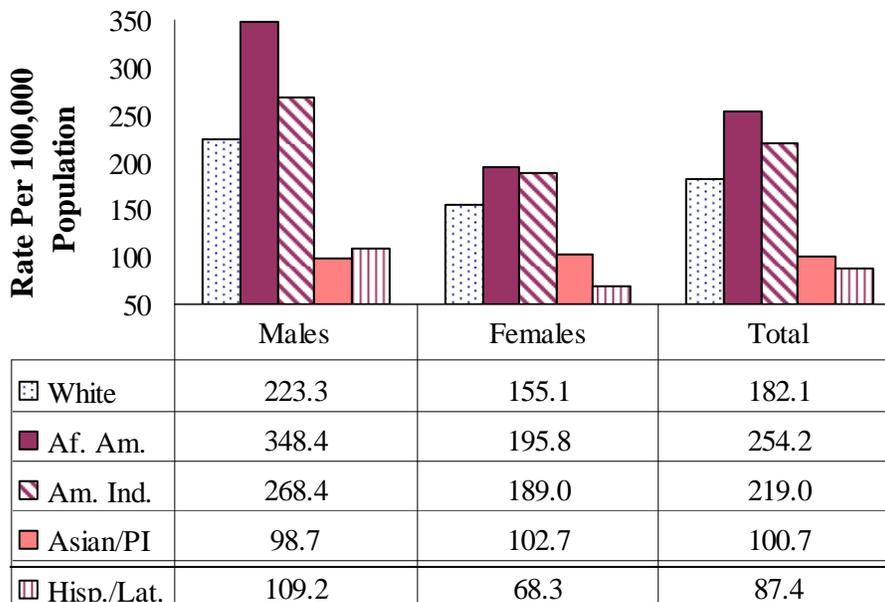
Figure 1.5. Cancer, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

Figure 1.6. Cancer, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, as analyzed using SEER*Stat.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

Table 1.3. Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	639	428.8	395.4	464.7	329	221.3	197.6	247.4
Ashland	391	409.5	369.4	452.9	191	185.6	159.7	214.6
Barron	1,128	400.1	376.8	424.5	563	188.3	172.9	204.8
Bayfield	403	402.6	363.6	444.9	187	186.4	160.4	215.8
Brown	5,380	486.0	473.0	499.2	1,829	168.7	161.0	176.7
Buffalo	346	397.4	356.3	442.3	167	184.4	157.3	215.1
Burnett	458	377.7	343.1	415.3	249	199.5	175.3	226.7
Calumet	945	470.9	441.1	502.2	327	168.2	150.4	187.6
Chippewa	1,541	479.4	455.7	504.1	607	183.0	168.7	198.3
Clark	955	495.9	464.4	529.0	357	165.6	148.5	184.2
Columbia	1,432	466.4	442.4	491.4	585	184.5	169.8	200.2
Crawford	555	529.4	485.7	576.3	218	198.1	172.4	226.8
Dane	8,588	433.4	424.1	442.9	3,165	169.0	163.1	175.1
Dodge	2,116	446.1	427.2	465.6	984	200.4	188.0	213.4
Door	1,105	537.5	505.7	571.1	338	155.2	139.0	173.1
Douglas	901	366.9	343.1	391.9	535	211.2	193.5	230.1
Dunn	628	330.6	305.0	357.7	304	157.5	140.2	176.5
Eau Claire	1,736	371.8	354.4	389.9	823	170.8	159.2	183.1
Florence	114	338.4	277.6	410.2	71	201.2	156.8	256.2
Fond du Lac	2,827	518.3	499.2	537.9	1,057	185.5	174.3	197.1
Forest	326	473.0	421.7	529.3	141	194.7	163.3	231.0
Grant	1,070	374.7	352.3	398.3	542	178.9	164.0	194.9
Green	899	457.4	427.7	488.7	369	180.8	162.7	200.6
Green Lake	623	485.4	447.3	526.2	297	216.3	191.9	243.3
Iowa	449	359.5	326.9	394.6	206	165.9	143.9	190.4
Iron	235	453.1	394.5	519.5	111	195.7	159.7	239.5
Jackson	522	473.9	434.0	516.7	216	191.2	166.4	218.7
Jefferson	1,701	425.9	405.7	446.7	737	183.0	170.0	196.8
Juneau	810	517.3	482.0	554.6	356	221.0	198.5	245.5
Kenosha	3,596	482.0	466.3	498.1	1,455	197.0	187.0	207.5
Kewaunee	572	488.9	449.2	531.1	207	165.4	143.3	190.1
La Crosse	2,740	499.5	480.9	518.7	985	175.7	164.8	187.2
Lafayette	394	412.4	372.4	455.8	183	186.7	160.4	216.3
Langlade	663	477.7	441.4	516.5	313	211.4	188.2	236.9
Lincoln	915	489.4	457.8	522.7	344	174.8	156.6	194.7
Manitowoc	2,390	488.3	468.7	508.5	865	168.3	157.2	180.0
Marathon	3,237	472.3	456.1	489.0	1,179	167.9	158.4	177.8

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	1,178	418.3	394.4	443.5	566	188.8	173.3	205.4
Marquette	597	575.4	529.1	625.1	233	215.9	188.8	246.4
Menominee	118	617.7	503.8	748.8	43	320.2	220.1	444.7
Milwaukee	23,121	496.4	489.9	502.8	9,505	200.9	196.9	205.0
Monroe	1,129	493.1	464.6	522.9	454	193.2	175.8	212.0
Oconto	1,024	477.0	448.0	507.3	405	186.2	168.4	205.4
Oneida	1,401	537.9	509.5	567.6	514	190.9	174.5	208.5
Outagamie	3,832	475.9	460.9	491.3	1,426	178.2	169.0	187.7
Ozaukee	2,275	474.4	454.9	494.6	834	176.2	164.4	188.7
Pepin	182	409.3	351.1	474.7	100	209.8	169.9	256.9
Pierce	488	301.1	274.5	329.5	261	169.3	149.1	191.3
Polk	899	353.4	330.5	377.5	504	193.0	176.4	210.8
Portage	1,445	451.5	428.4	475.6	526	166.3	152.3	181.3
Price	515	486.8	444.7	532.3	216	189.9	164.9	218.1
Racine	4,836	492.7	478.8	506.9	1,804	185.3	176.8	194.1
Richland	482	432.7	394.3	474.0	201	164.4	142.2	189.3
Rock	3,898	482.1	467.1	497.6	1,610	198.2	188.6	208.2
Rusk	467	480.7	437.2	527.6	196	183.3	158.2	211.8
St. Croix	913	286.8	268.1	306.3	541	175.6	160.9	191.3
Sauk	1,382	430.8	408.2	454.3	628	186.2	171.8	201.6
Sawyer	437	381.5	346.1	419.8	235	202.4	177.2	230.5
Shawano	1,220	482.0	455.0	510.2	499	182.1	166.3	199.0
Sheboygan	3,218	516.5	498.7	534.8	1,183	183.2	172.8	194.1
Taylor	496	441.5	403.1	482.6	185	153.4	131.8	177.6
Trempealeau	736	445.1	413.0	479.1	290	163.4	144.7	183.9
Vernon	871	496.6	463.7	531.3	313	166.6	148.5	186.6
Vilas	901	509.4	475.2	545.8	321	172.5	153.5	193.6
Walworth	2,527	498.8	479.4	518.7	941	183.4	171.8	195.5
Washburn	482	430.3	391.7	472.1	244	201.4	176.6	229.1
Washington	3,110	495.4	478.0	513.3	1,131	184.2	173.6	195.3
Waukesha	10,522	521.8	511.8	532.0	3,550	179.5	173.6	185.5
Waupaca	1,570	495.7	471.2	521.2	679	197.2	182.4	212.9
Waushara	714	440.4	408.2	474.6	327	194.8	174.1	217.4
Winnebago	3,774	464.3	449.6	479.5	1,537	187.5	178.2	197.2
Wood	2,186	481.5	461.3	502.4	811	169.0	157.4	181.3

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, as analyzed using SEER*Stat.

Notes: Total cases exclude in situ cases except for in situ bladder cancer. Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 1: All Cancer Sites

Table 1.4. Most Common Cancers, by Age and Sex, Wisconsin, 2002 – 2006

Age in Years										
Sex	Less than 15		15 to 24		25 to 44		45 to 64		65 and older	
	Cancer Type	Rate	Cancer Type	Rate	Cancer Type	Rate	Cancer Type	Rate	Cancer Type	Rate
Male	Leukemia	5.4	Testis	7.9	Testis	15.2	Prostate	233.7	Prostate	826.5
	Brain & Other Nerv. Sys.	3.4	Hodgkin Lymphoma	4.1	Melanoma of the Skin	9.1	Lung and Bronchus	93.8	Lung and Bronchus	451.4
	Soft Tissue Inc. Heart	1.1	Brain & Other Nerv. Sys.	2.8	Colon and Rectum	7.8	Colon and Rectum	66.1	Colon and Rectum	311.5
	Bones & Joints	1.0	Non-Hodgkin Lymphoma	2.6	Non-Hodgkin Lymphoma	7.4	Urinary Bladder	34.5	Urinary Bladder	224.1
	Non-Hodgkin Lymphoma	0.9	Leukemia	2.6	Kidney & Renal Pelvis	5.3	Kidney & Renal Pelvis	32.9	Non-Hodgkin Lymphoma	110.2
Female	Leukemia	5.2	Thyroid	5.5	Breast	55.9	Breast	242.7	Breast	411.5
	Brain & Other Nerv. Sys.	2.3	Hodgkin Lymphoma	5.1	Thyroid	18.9	Lung and Bronchus	77.9	Lung and Bronchus	271.2
	Kidney & Renal Pelvis	0.8	Melanoma of the Skin	4.6	Melanoma of the Skin	13.4	Uterine	65.2	Colon and Rectum	254.7
	Bones & Joints	0.7	Ovary	2.2	Cervix Uteri	10.4	Colon and Rectum	46.1	Uterine	91.6
	Soft Tissue Inc. Heart	0.5	Brain & Other Nerv. Sys.	2.0	Colon and Rectum	8.3	Ovary	29.8	Non-Hodgkin Lymphoma	85.5

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are based on five-year average age-specific incidence per 100,000 population and show the five cancers with the highest age-specific rates for each age group.

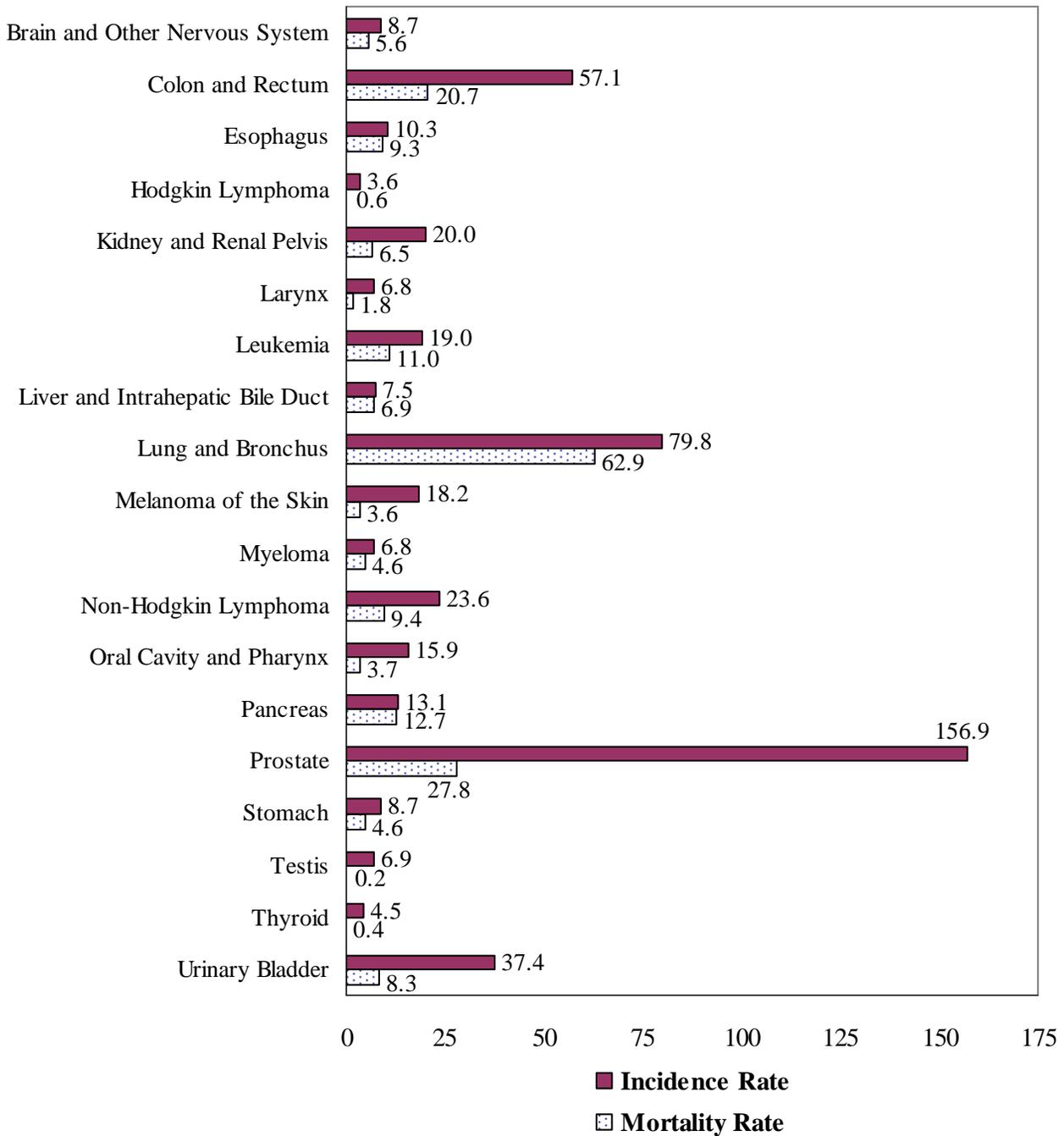
Table 1.5. Most Common Causes of Cancer Deaths, by Age and Sex, Wisconsin, 2002 – 2006

Age in Years										
Sex	Less than 15		15 to 24		25 to 44		45 to 64		65 and older	
	Cancer Type	Rate	Cancer Type	Rate	Cancer Type	Rate	Cancer Type	Rate	Cancer Type	Rate
Male	Leukemia	0.7	Brain & Other Nerv. Sys.	0.8	Lung and Bronchus	2.5	Lung and Bronchus	62.1	Lung and Bronchus	375.9
	Brain & Other Nerv. Sys.	0.6	Leukemia	0.7	Brain & Other Nerv. Sys.	2.4	Colon and Rectum	16.2	Prostate	195.6
	Soft Tissue Incl. Heart	0.4	Bones & Joints	0.5	Leukemia	1.6	Pancreas	14.1	Colon and Rectum	127.7
	Bones & Joints	0.1	Soft Tissue Incl. Heart	0.4	Colon and Rectum	1.5	Esophagus	12.2	Pancreas	73.1
	Kidney & Renal Pelvis	0.1	Non-Hodgkin Lymphoma	0.3	Melanoma of the Skin	1.3	Liver & Bile Duct	9.3	Leukemia	65.8
Female	Leukemia	0.7	Leukemia	0.5	Breast	5.8	Lung and Bronchus	47.4	Lung and Bronchus	216.7
	Brain & Other Nerv. Sys.	0.6	Ovary	0.4	Lung and Bronchus	3.3	Breast	36.2	Breast	115.2
	Other Endocrine Incl. Thymus	0.1	Bones & Joints	0.3	Brain & Other Nerv. Sys.	1.5	Ovary	12.9	Colon and Rectum	102.5
	Bones & Joints	0.1	Soft Tissue Incl. Heart	0.3	Ovary	1.4	Colon and Rectum	11.5	Pancreas	62.7
	-----	----	Brain & Other Nerv. Sys.	0.2	Colon and Rectum	1.4	Pancreas	9.6	Ovary	49.1

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are based on five-year average age-specific mortality per 100,000 population and show the five cancers with the highest age-specific rates for each age group.

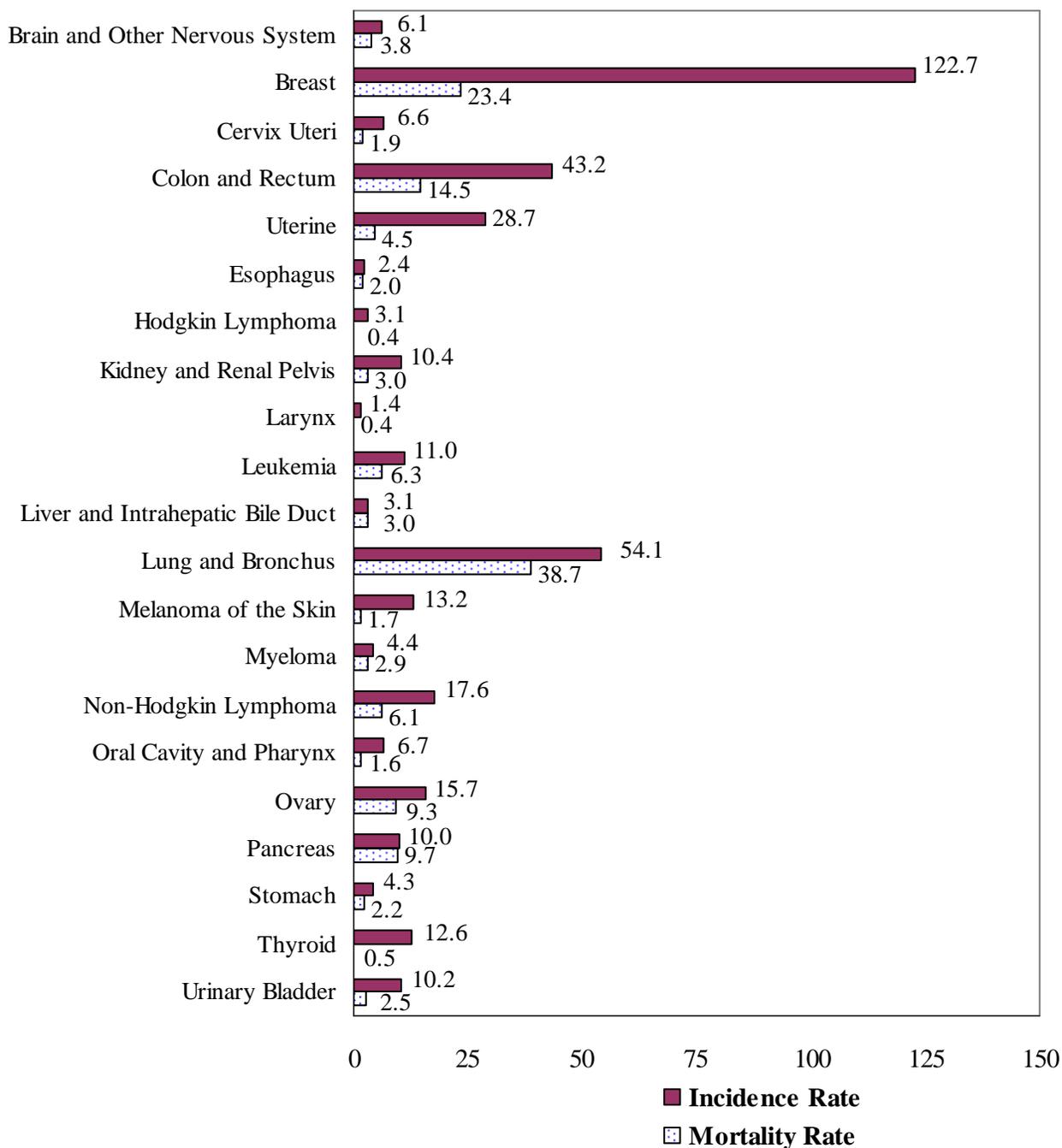
Figure 1.7. Burden of Cancer Incidence and Mortality Among Wisconsin Males, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are age-adjusted to the 2000 U.S. standard population and show the five-year average annual rate of incidence and mortality per 100,000 Wisconsin males.

Figure 1.8. Burden of Cancer Incidence and Mortality Among Wisconsin Females, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are age-adjusted to the 2000 U.S. standard population and show the five-year average annual rate of incidence and mortality per 100,000 Wisconsin females.

Chapter 2: Breast Cancer (Female)

Incidence

During 2002-2006, breast cancer was the most commonly diagnosed cancer among Wisconsin women (Figure 1.8). Each year, approximately 3,800 women were diagnosed with this disease (Table 2.1).

Breast cancer incidence increased dramatically with age. Compared to women aged 35-39, those aged 65-69 were almost seven times more likely to be diagnosed with breast cancer (60.6 and 409.6 per 100,000 age-specific female population, respectively) (Figure 2.3).

During 2002-2006, almost two-thirds of breast cancer cases (62%) were diagnosed at an early (localized) stage (Figure 2.4).

White women were more likely to be diagnosed with breast cancer (123.5 per 100,000) than women in other racial and ethnic groups. African-American women had the second highest incidence rate of breast cancer (108.8 per 100,000), followed by American Indian women (78.9 per 100,000), Hispanic/Latina women of any race (91.6 per 100,000), and Asian/Pacific Islander women (64.7 per 100,000) (Figure 2.5).

Mortality

Breast cancer was the second leading cause of female cancer deaths (second only to lung cancer) in Wisconsin (Figure 1.8). Approximately 770 women died of breast cancer each year from 2002 through 2006 (Table 2.2).

Breast cancer mortality rates vary between racial and ethnic groups. In 2002-2006, African American women had the highest mortality rate (26.1 per 100,000), followed by American Indian women (25.3 per 100,000), white women (23.3 per 100,000) and Asian /Pacific Islander women (8.5 per 100,000). Hispanic/Latina women (of any race) experienced the lowest mortality rate, 6.4 per 100,000 female population (Figure 2.6).

Wisconsin's female breast cancer mortality rate in 2006 (22.6 per 100,000) was similar to the national rate (23.5 per 100,000) (Figure 2.2).

Table 2.1. Female Breast Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Diagnosis	Number of Cases	Age-Adj. Rate	APC
Annual Average 2002-2006	3,792	122.7	-2.3%
2002	3,929	130.2	N/A
2003	3,758	123.5	N/A
2004	3,795	122.5	N/A
2005	3,773	120.8	N/A
2006	3,704	117.0	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin female population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

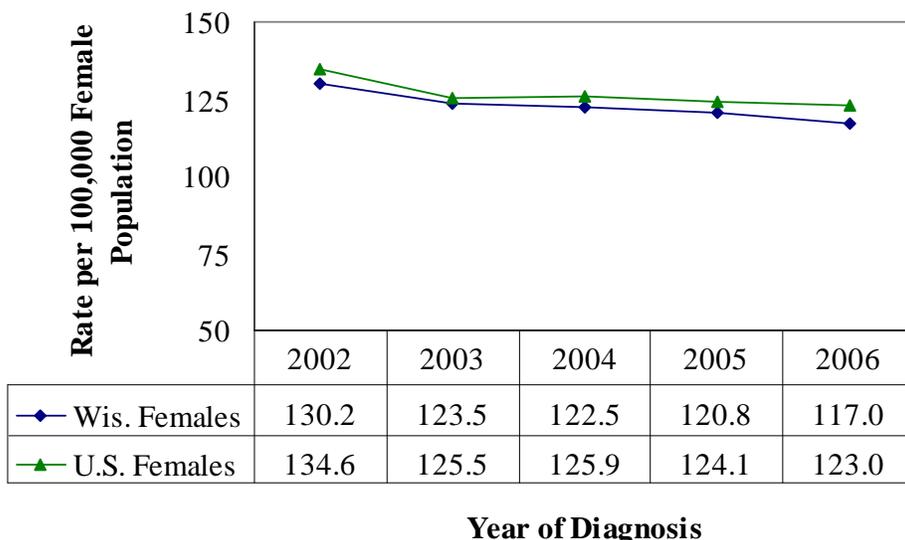
Table 2.2. Female Breast Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Death	Number of Deaths	Age-Adj. Rate	APC
Annual Average 2002-2006	770	23.4	-2.0%
2002	790	24.5	N/A
2003	769	23.8	N/A
2004	773	23.5	N/A
2005	764	22.7	N/A
2006	755	22.6	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

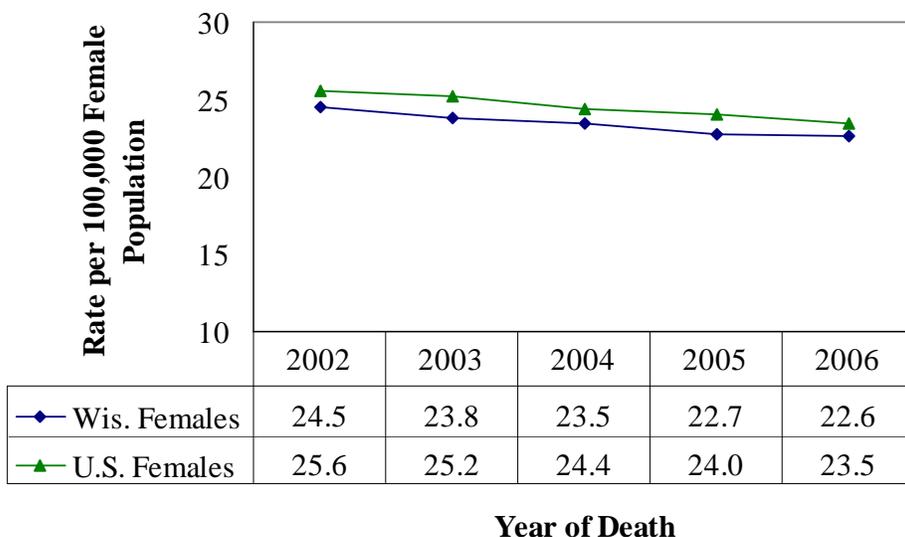
Note: Rates are per 100,000 Wisconsin female population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

Figure 2.1. Female Breast Cancer, Age-Adjusted Incidence Rates, Wisconsin and United States, 2002 - 2006



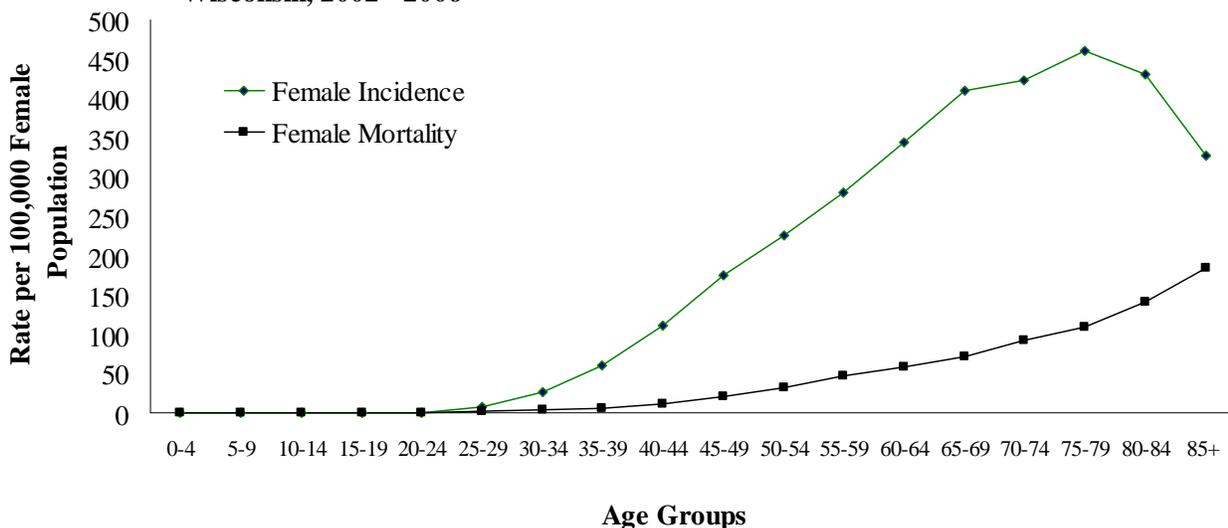
Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.
 Note: Rates are per 100,000 female population, and are age-adjusted to the 2000 U.S. standard population.

Figure 2.2. Female Breast Cancer, Age-Adjusted Mortality Rates, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.
 Note: Rates are per 100,000 female population, and are age-adjusted to the 2000 U.S. standard population.

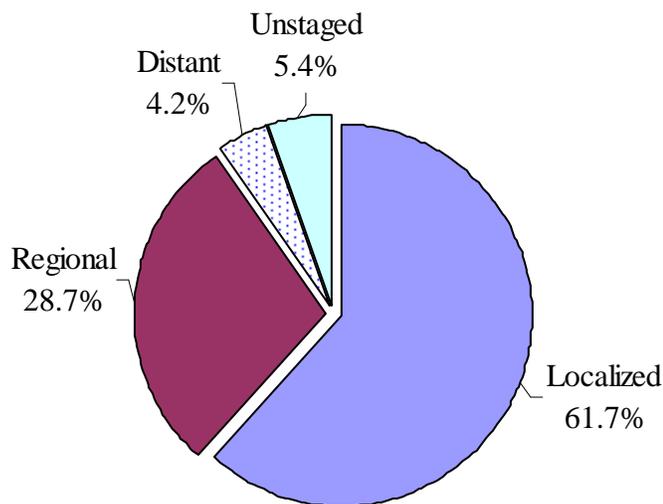
Figure 2.3. Female Breast Cancer, Age-Specific Incidence and Mortality Rates, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, as analyzed using SEER*Stat.

Note: Rates are per 100,000 female population (2002-2006) for each age group.

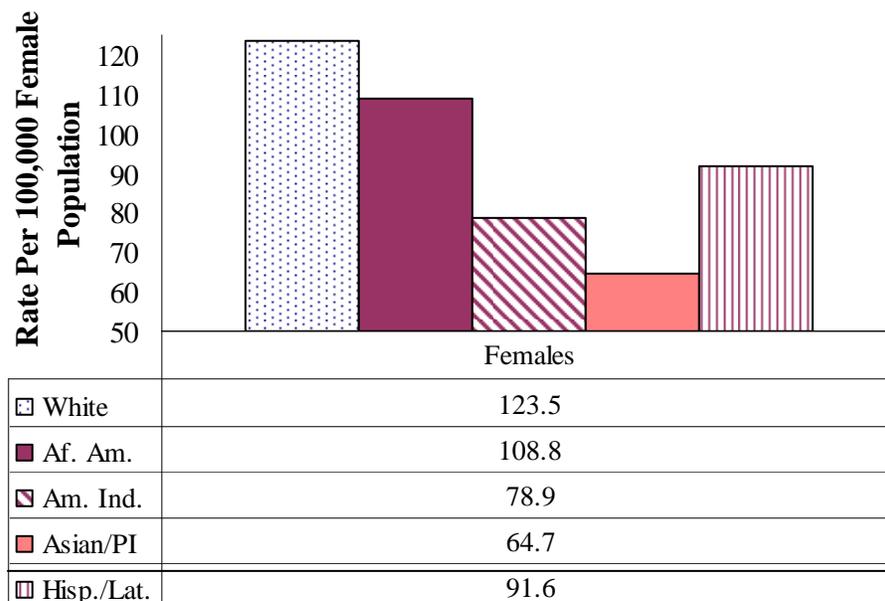
Figure 2.4. Female Breast Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

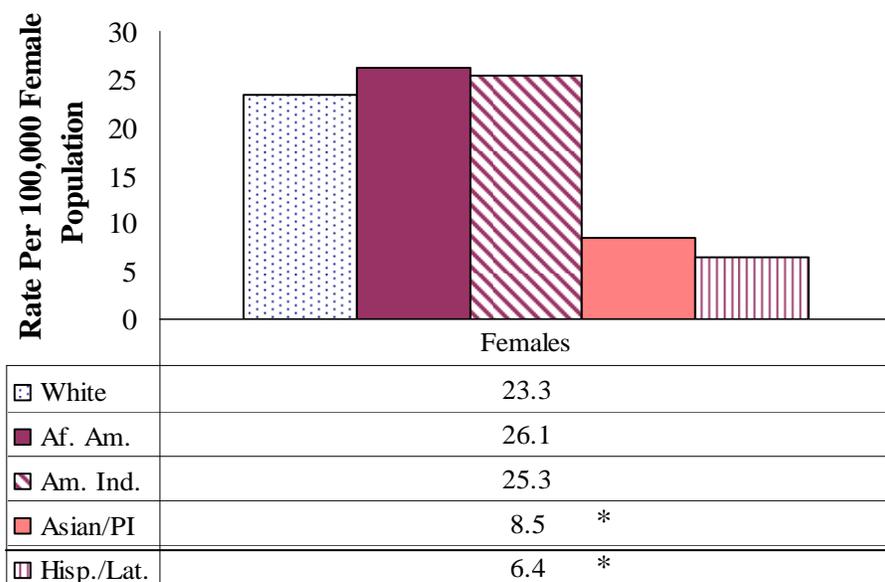
Figure 2.5. Female Breast Cancer, Age-Adjusted Incidence Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 female population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

Figure 2.6. Female Breast Cancer, Age-Adjusted Mortality Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 female population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	53	74.6	55.1	99.6	16	23.2	13.1	39.4
Ashland	53	110.3	82.2	145.3	16	27.4	15.2	46.3
Barron	162	114.6	97.2	134.3	35	22.8	15.8	32.1
Bayfield	45	89.2	64.6	121.3	8	17.9	7.3	37.1
Brown	803	133.1	124.0	142.7	126	20.6	17.1	24.6
Buffalo	42	93.4	66.7	128.0	10	20.9	9.8	40.4
Burnett	53	94.4	69.4	126.3	15	23.7	13.1	41.1
Calumet	145	133.7	112.6	157.4	23	20.4	12.9	30.7
Chippewa	191	112.2	96.6	129.6	46	25.9	18.9	34.9
Clark	133	134.7	111.9	160.8	19	15.8	9.2	25.8
Columbia	204	128.2	111.0	147.4	34	19.3	13.3	27.4
Crawford	60	111.3	84.4	144.7	11	18.4	8.9	34.8
Dane	1,394	126.0	119.4	132.9	283	25.7	22.7	28.9
Dodge	315	129.7	115.6	145.1	81	30.9	24.4	38.7
Door	176	176.2	150.3	205.8	27	20.5	13.4	31.3
Douglas	114	88.8	73.0	107.0	30	21.9	14.6	31.9
Dunn	90	92.0	73.8	113.3	12	11.1	5.6	19.7
Eau Claire	236	95.1	83.2	108.3	46	18.0	13.1	24.2
Florence	12	75.5	38.4	137.9	0	0.0	0.0	35.0
Fond du Lac	376	129.6	116.7	143.7	84	26.2	20.7	32.8
Forest	30	83.8	55.9	122.4	7	18.6	7.1	42.0
Grant	104	68.9	55.9	84.3	36	21.2	14.6	30.0
Green	107	105.2	86.0	127.6	19	16.4	9.8	26.2
Green Lake	54	85.7	63.4	113.7	19	26.9	15.7	43.9
Iowa	66	102.5	79.1	130.7	18	28.6	16.9	45.4
Iron	23	88.9	54.8	140.7	3	11.6	2.3	42.4
Jackson	71	131.6	102.4	166.7	20	35.8	21.6	56.3
Jefferson	230	107.2	93.7	122.1	41	17.7	12.6	24.1
Juneau	81	99.4	78.5	124.6	21	24.2	14.8	37.8
Kenosha	475	116.1	105.8	127.1	103	24.2	19.7	29.4
Kewaunee	84	141.7	112.7	176.1	17	25.6	14.5	42.4
La Crosse	408	136.4	123.3	150.6	100	31.9	25.9	39.1
Lafayette	54	108.2	81.1	142.1	15	27.8	15.3	47.5
Langlade	72	100.8	78.3	128.4	12	13.2	6.5	25.0
Lincoln	123	128.2	106.1	153.9	18	18.0	10.4	29.3
Manitowoc	312	122.1	108.6	136.8	60	20.5	15.5	26.8
Marathon	494	135.5	123.7	148.2	84	22.1	17.5	27.5

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	152	105.3	88.7	124.3	44	27.1	19.3	37.3
Marquette	66	132.5	101.0	171.3	16	29.2	16.4	49.3
Menominee	17	169.7	98.2	273.9	3	27.4	5.5	85.1
Milwaukee	3,187	122.5	118.2	126.9	658	23.6	21.8	25.5
Monroe	171	146.1	124.8	170.1	36	28.0	19.5	39.2
Oconto	122	114.6	95.0	137.1	30	26.9	18.1	38.7
Oneida	193	149.2	128.4	172.9	42	31.5	22.4	43.4
Outagamie	576	131.2	120.6	142.4	102	22.7	18.4	27.6
Ozaukee	389	151.8	136.9	168.0	62	23.0	17.6	29.7
Pepin	17	72.4	41.2	119.2	4	13.9	3.6	40.7
Pierce	73	82.1	64.2	103.5	23	24.1	15.2	36.4
Polk	87	67.1	53.5	83.2	25	17.2	10.9	26.0
Portage	206	120.8	104.7	138.6	43	24.4	17.6	33.1
Price	73	128.8	100.4	164.0	8	11.3	4.7	25.6
Racine	748	140.9	130.9	151.4	117	21.5	17.7	25.8
Richland	47	80.8	58.6	109.0	15	21.2	11.5	37.0
Rock	484	111.0	101.3	121.5	125	27.6	23.0	33.0
Rusk	60	119.0	90.0	155.1	18	30.4	17.6	50.2
St. Croix	107	60.0	49.0	72.7	29	16.1	10.7	23.2
Sauk	223	131.9	114.8	150.8	53	27.6	20.5	36.6
Sawyer	47	86.7	63.2	116.9	17	28.7	16.6	47.5
Shawano	149	116.5	98.1	137.4	38	27.8	19.4	38.8
Sheboygan	380	116.3	104.7	128.8	84	23.3	18.4	29.1
Taylor	67	112.6	86.4	144.5	12	18.7	9.2	34.2
Trempealeau	108	127.1	103.6	154.6	17	18.1	10.1	30.1
Vernon	129	147.8	122.8	176.7	23	22.6	14.1	34.8
Vilas	137	159.2	132.2	190.8	27	29.8	19.0	45.6
Walworth	346	130.5	117.0	145.2	66	23.1	17.8	29.5
Washburn	72	129.2	100.5	164.5	10	15.7	7.4	30.8
Washington	435	127.8	116.0	140.5	96	27.0	21.8	33.1
Waukesha	1,563	141.9	134.9	149.2	272	23.8	21.1	26.9
Waupaca	183	116.5	99.9	135.1	46	26.4	19.1	35.7
Waushara	87	107.2	85.4	133.3	21	24.3	14.9	38.4
Winnebago	515	118.9	108.7	129.7	107	23.4	19.1	28.4
Wood	297	126.5	112.3	142.2	47	17.5	12.7	23.6

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, as analyzed using SEER*Stat.

Notes: Rates are per 100,000 female population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 3: Cervical Cancer

Incidence

During 2002-2006, cervical cancer was the 14th most frequently diagnosed cancer among Wisconsin women (Figure 1.8), and the fourth most frequent cancer among women aged 25-44 (Table 1.4). Each year, approximately 185 women were diagnosed with this disease (Table 3.1).

Cervical cancer incidence rates vary between racial and ethnic groups. Among the racial groups, African American women had the highest incidence rate (13.1 per 100,000 female population), Asian/Pacific Islander women had the second highest incidence rate (9.4 per 100,000), followed by American Indian women (8.6 per 100,000) and white women (6.1 per 100,000). Hispanic/Latina women (of any race) also experienced a relatively high incidence rate, 12.7 per 100,000 (Figure 3.5).

During 2002-2006, over half of all cervical cancer cases (52%) were diagnosed at an early (localized) stage (Figure 3.4).

Mortality

Cervical cancer was the 16th most frequent cause of cancer mortality among Wisconsin women (Figure 1.8). Approximately 57 women died of cervical cancer each year from 2002 through 2006 (Table 3.2).

Wisconsin's cervical cancer mortality rate was lower than the national rate every year during the 2002-2006 period (Figure 3.2).

Although cervical cancer mortality rates are low in all racial groups, there are some differences. Asians/Pacific Islanders had the highest mortality rate (7.1 per 100,000), and African Americans the second highest (5.6 per 100,000) (Figure 3.6). Caution should be used as these rates are based on small numbers.

Table 3.1. Cervical Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Diagnosis	Number of Cases	Age-Adj. Rate	APC
Annual Average 2002-2006	185	6.6	-5.1%
2002	193	7.0	N/A
2003	190	6.7	N/A
2004	203	7.3	N/A
2005	187	6.5	N/A
2006	154	5.3	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin female population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

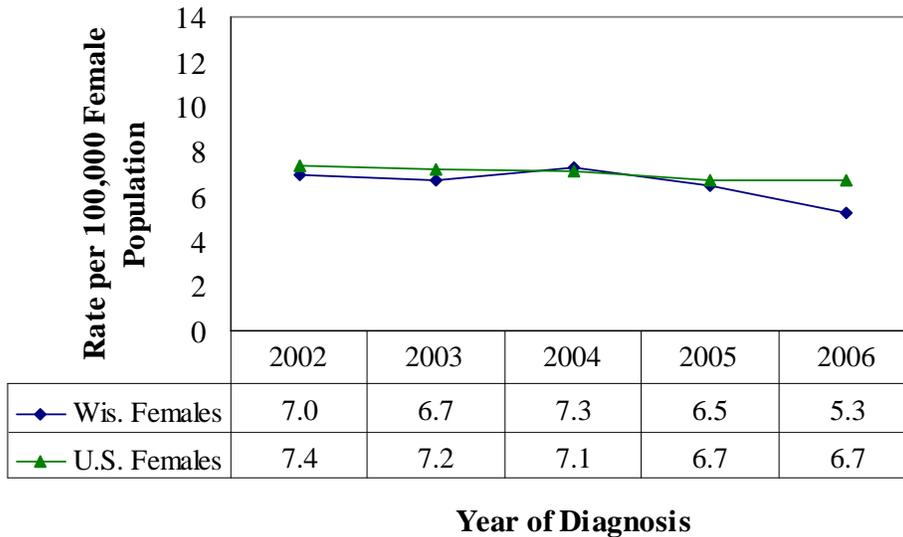
Table 3.2. Cervical Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Death	Number of Deaths	Age-Adj. Rate	APC
Annual Average 2002-2006	57	1.9	2.1%
2002	49	1.7	N/A
2003	57	1.8	N/A
2004	63	2.0	N/A
2005	61	1.9	N/A
2006	56	1.8	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin female population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

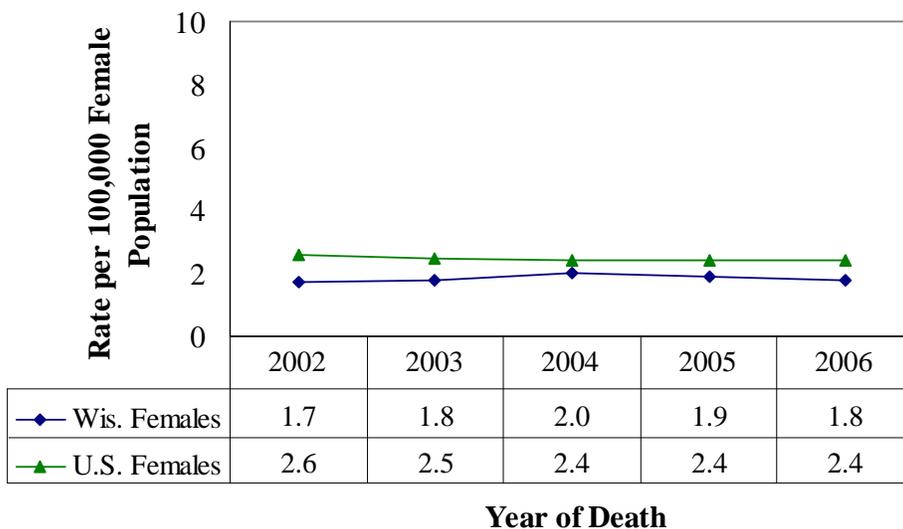
Figure 3.1. Cervical Cancer, Age-Adjusted Incidence Rates, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 female population, and are age-adjusted to the 2000 U.S. standard population.

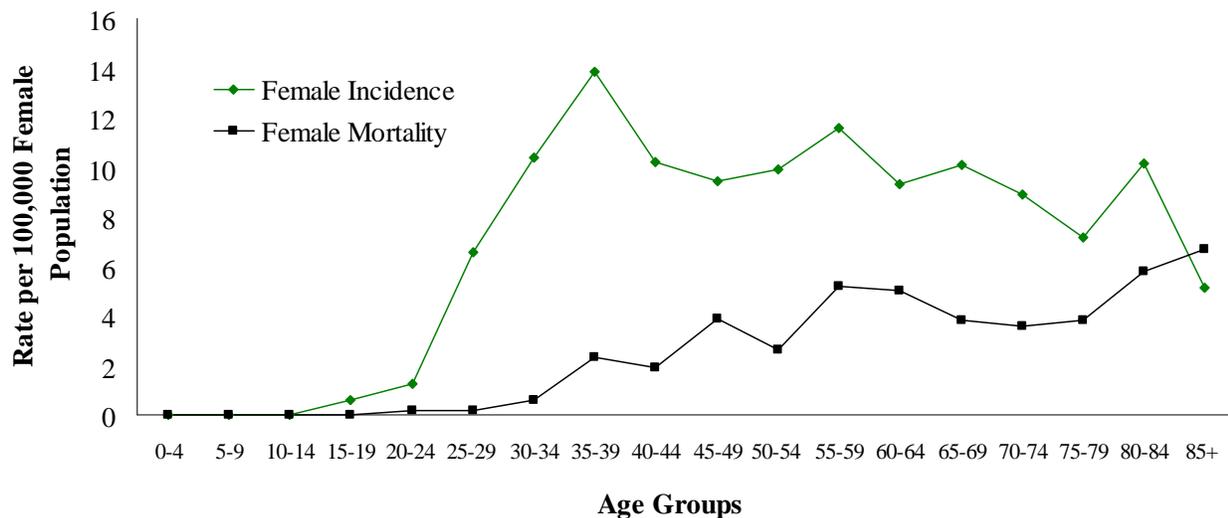
Figure 3.2. Cervical Cancer, Age-Adjusted Mortality Rates, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 female population, and are age-adjusted to the 2000 U.S. standard population.

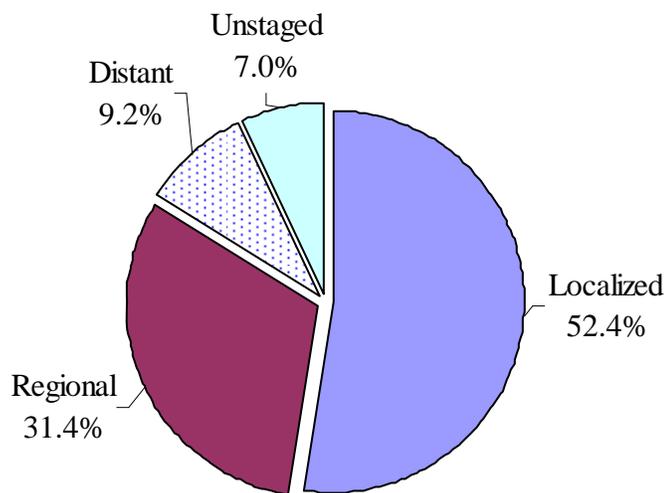
Figure 3.3. Cervical Cancer, Age-Specific Incidence and Mortality Rates, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 female population (2002-2006) for each age group.

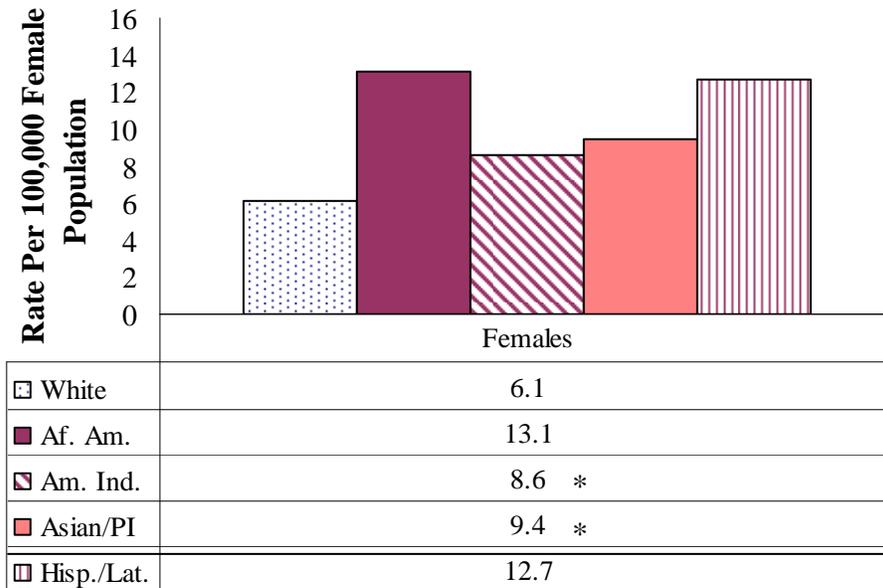
Figure 3.4. Cervical Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

Figure 3.5. Cervical Cancer, Age-Adjusted Incidence Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006

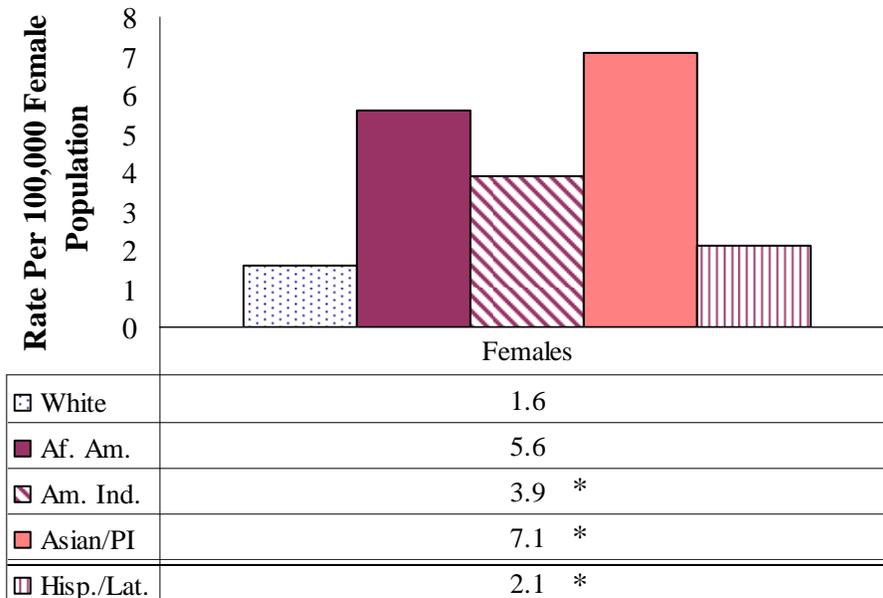


Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are cases per 100,000 female population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 3.6. Cervical Cancer, Age-Adjusted Mortality Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are deaths per 100,000 female population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 3.3. Cervical Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	2	2.6	0.3	12.0	3	3.5	0.7	13.0
Ashland	3	6.2	1.3	18.8	0	0.0	0.0	9.0
Barron	6	5.6	2.0	12.2	2	1.9	0.2	6.8
Bayfield	2	4.1	0.5	17.0	0	0.0	0.0	10.8
Brown	41	7.0	5.0	9.5	8	1.3	0.5	2.6
Buffalo	4	10.9	2.9	28.7	2	4.8	0.6	18.7
Burnett	4	11.3	3.0	28.7	1	2.9	0.1	15.5
Calumet	7	6.4	2.6	13.3	2	1.7	0.2	6.3
Chippewa	9	5.7	2.6	11.0	2	1.1	0.1	4.4
Clark	3	3.9	0.8	11.1	2	2.3	0.3	8.4
Columbia	13	9.3	4.9	15.9	3	1.9	0.4	5.9
Crawford	4	9.9	2.6	25.5	2	4.1	0.5	15.8
Dane	52	4.4	3.3	5.8	10	0.9	0.4	1.7
Dodge	10	4.5	2.1	8.4	3	1.2	0.2	3.7
Door	9	11.6	4.9	23.3	5	4.6	1.5	12.1
Douglas	8	6.4	2.7	12.9	6	4.5	1.6	10.1
Dunn	4	5.0	1.3	12.3	3	2.9	0.5	9.0
Eau Claire	6	2.2	0.8	5.0	1	0.3	0.0	2.0
Florence	1	7.3	0.2	47.0	1	7.3	0.2	47.0
Fond du Lac	21	8.3	5.1	12.8	2	0.5	0.1	2.3
Forest	2	8.9	1.0	31.8	2	10.6	1.3	35.5
Grant	11	11.3	5.5	20.2	4	2.9	0.8	7.7
Green	9	9.8	4.4	18.9	1	0.5	0.0	4.9
Green Lake	6	12.0	4.2	26.8	2	4.7	0.5	16.6
Iowa	3	5.4	1.1	15.6	0	0.0	0.0	6.3
Iron	0	0.0	0.0	26.8	0	0.0	0.0	26.8
Jackson	1	2.6	0.1	13.2	0	0.0	0.0	7.9
Jefferson	11	5.7	2.8	10.1	2	1.0	0.1	3.6
Juneau	3	3.6	0.7	11.6	1	1.6	0.0	8.8
Kenosha	36	9.2	6.4	12.7	11	2.9	1.4	5.1
Kewaunee	0	0.0	0.0	7.3	0	0.0	0.0	7.3
La Crosse	8	2.8	1.2	5.6	4	1.0	0.3	2.9
Lafayette	1	3.3	0.1	16.3	2	5.6	0.7	19.8
Langlade	3	5.3	1.0	16.3	1	1.4	0.0	9.5
Lincoln	5	6.4	2.0	15.3	2	1.3	0.2	6.8
Manitowoc	9	4.0	1.8	7.8	4	1.6	0.4	4.3
Marathon	21	6.5	4.0	9.9	6	1.7	0.6	3.7

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	10	8.2	3.7	15.8	3	2.2	0.4	6.9
Marquette	1	3.8	0.1	18.5	2	5.5	0.7	20.0
Menominee	3	36.8	7.4	105.7	0	0.0	0.0	41.9
Milwaukee	219	8.9	7.8	10.2	84	3.2	2.5	4.0
Monroe	4	3.9	1.1	10.0	2	1.9	0.2	6.8
Oconto	8	8.6	3.6	17.1	6	5.3	1.9	12.0
Oneida	8	7.2	3.0	14.9	3	2.9	0.6	8.9
Outagamie	31	7.1	4.8	10.1	5	1.1	0.4	2.6
Ozaukee	20	8.1	4.9	12.7	4	1.4	0.4	3.9
Pepin	1	4.9	0.1	29.0	0	0.0	0.0	20.4
Pierce	2	2.2	0.3	8.1	1	0.9	0.0	5.7
Polk	9	7.3	3.3	14.2	3	2.4	0.5	7.3
Portage	11	6.8	3.4	12.3	3	1.7	0.3	5.2
Price	2	4.7	0.5	18.6	0	0.0	0.0	10.9
Racine	38	7.6	5.4	10.5	7	1.4	0.6	2.9
Richland	2	3.6	0.4	14.0	0	0.0	0.0	8.2
Rock	25	6.1	3.9	9.0	4	0.9	0.2	2.3
Rusk	0	0.0	0.0	10.1	0	0.0	0.0	10.1
St. Croix	9	4.7	2.2	9.0	4	2.3	0.6	5.9
Sauk	13	8.8	4.7	15.2	2	1.4	0.2	5.0
Sawyer	3	5.2	1.0	17.2	2	3.5	0.4	14.8
Shawano	11	10.9	5.3	19.6	1	1.0	0.0	5.5
Sheboygan	12	3.8	1.9	6.8	7	2.1	0.8	4.5
Taylor	0	0.0	0.0	7.7	0	0.0	0.0	7.7
Trempealeau	6	8.1	2.8	18.0	0	0.0	0.0	5.4
Vernon	3	3.7	0.7	11.3	0	0.0	0.0	5.2
Vilas	5	7.2	2.0	18.9	1	1.0	0.0	8.8
Walworth	14	5.9	3.2	9.8	10	3.7	1.8	6.8
Washburn	1	1.8	0.0	12.3	2	3.1	0.4	13.9
Washington	26	7.8	5.1	11.5	7	1.9	0.8	4.1
Waukesha	47	4.7	3.4	6.3	10	0.9	0.4	1.7
Waupaca	9	6.7	3.0	12.8	2	0.9	0.1	4.3
Waushara	5	9.3	2.9	21.9	4	4.4	1.2	12.8
Winnebago	21	5.4	3.3	8.3	4	1.1	0.3	2.7
Wood	10	5.8	2.8	10.7	3	1.4	0.3	4.3

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, as analyzed using SEER*Stat.

Notes: Rates are per 100,000 female population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 4: Cancers of the Colon and Rectum

Incidence

During 2002-2006, cancer of the colon and rectum (colorectal cancer) was the third most commonly diagnosed cancer for both males and females in Wisconsin (Figures 1.7 and 1.8). On average, 2,891 cases of colon and rectal cancer were diagnosed annually during this period (Table 4.1).

Incidence increases dramatically with age for both sexes. Colorectal cancer was over 15 times more common among men aged 65-69 compared to men aged 40-44, and 10 times more common among women aged 65-69 compared to women aged 40 to 44 (Figure 4.3).

Approximately 40 percent of colon and rectum cancers were diagnosed at the early (localized) stage; 50 percent were diagnosed at a regional or distant stage and 10 percent were unstaged (Figure 4.4).

Mortality

Cancer of the colon and rectum was the third leading cause of cancer-related mortality among both men and women in Wisconsin during 2002-2006 (Figures 1.7 and 1.8). It resulted in over 1,000 deaths annually (Table 4.2) and accounted for 10 percent of all cancer-related mortality.

Mortality rates from colon and rectum cancers declined during the 2002-2006 period by an annual average of 4.4 percent for males and 3.7 percent for females (Table 4.2).

Male mortality rates of colon and rectum cancer vary greatly by race and ethnicity, with the American Indian rate (39.8 per 100,000) twice as high as the white rate (20.4 per 100,000) (Figure 4.6). The Hispanic/Latino male mortality rate for colorectal cancer (6.9 per 100,000) was lower than rates in all four racial groups for males.

Table 4.1. Colorectal Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	1,454	57.1	-6.1%	1,437	43.2	-4.1%	2,891	49.4	-5.1%
2002	1,557	63.5	N/A	1,472	44.9	N/A	3,029	53.2	N/A
2003	1,530	61.3	N/A	1,542	46.9	N/A	3,072	53.2	N/A
2004	1,496	58.9	N/A	1,473	44.5	N/A	2,969	50.9	N/A
2005	1,370	52.9	N/A	1,401	41.7	N/A	2,771	46.7	N/A
2006	1,318	49.8	N/A	1,297	38.4	N/A	2,615	43.5	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

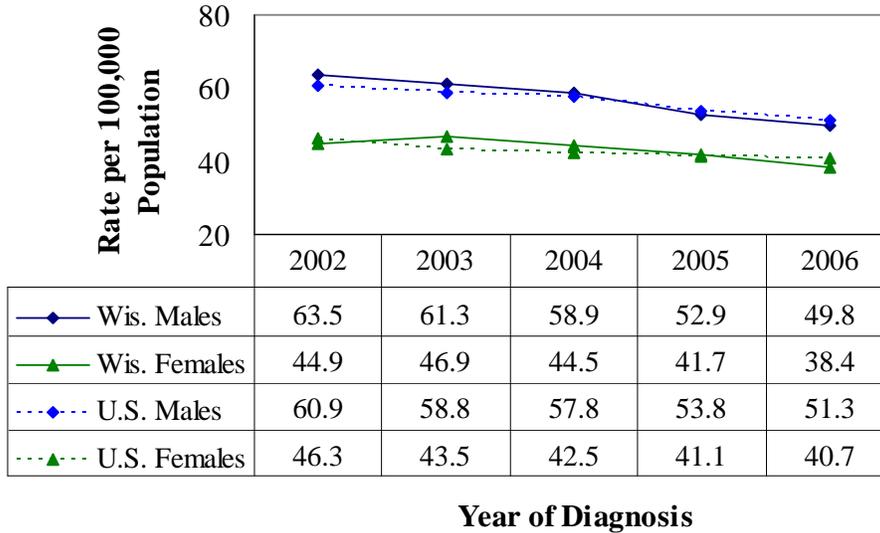
Table 4.2. Colorectal Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	508	20.7	-4.4%	515	14.5	-3.7%	1,023	17.2	-4.1%
2002	530	22.5	N/A	535	15.6	N/A	1,065	18.5	N/A
2003	536	22.2	N/A	538	15.2	N/A	1,074	18.3	N/A
2004	498	20.3	N/A	508	14.2	N/A	1,006	16.9	N/A
2005	492	19.8	N/A	507	13.9	N/A	999	16.4	N/A
2006	484	19.0	N/A	487	13.5	N/A	971	15.8	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

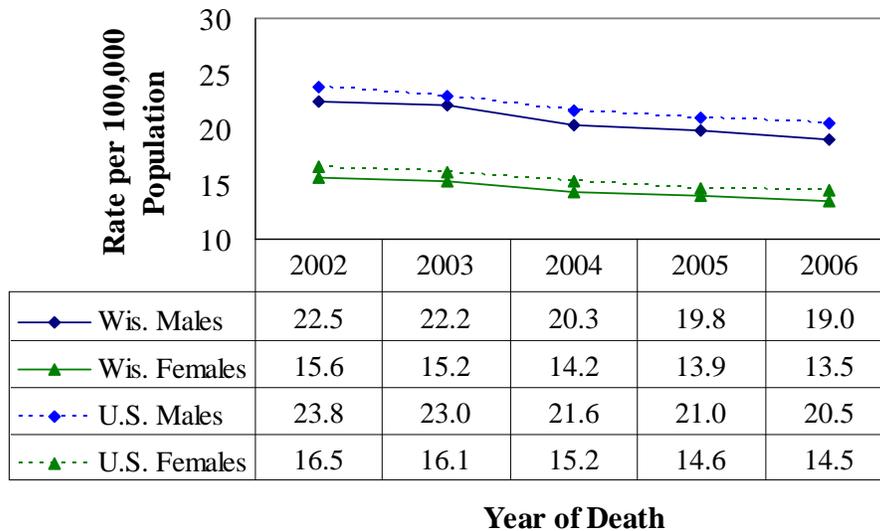
Figure 4.1. Colorectal Cancer, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

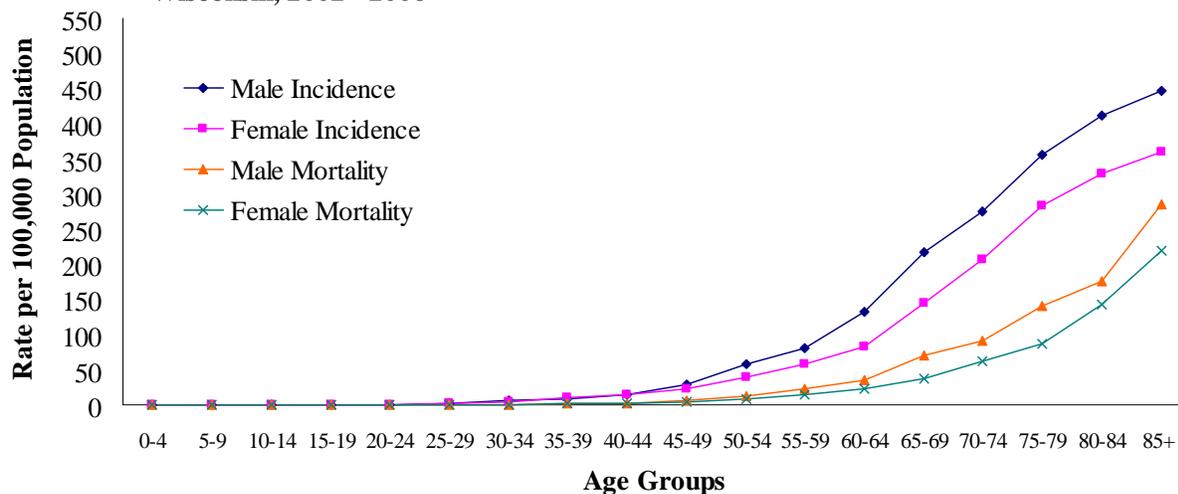
Figure 4.2. Colorectal Cancer, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

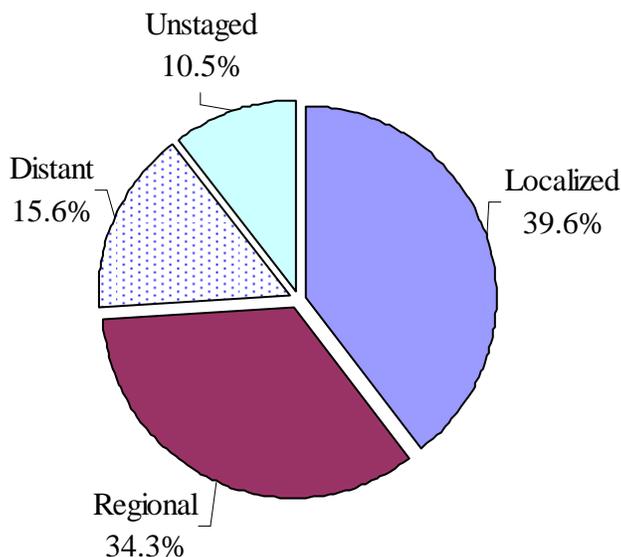
Figure 4.3. Colorectal Cancer, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population (2002-2006) for each age group and sex.

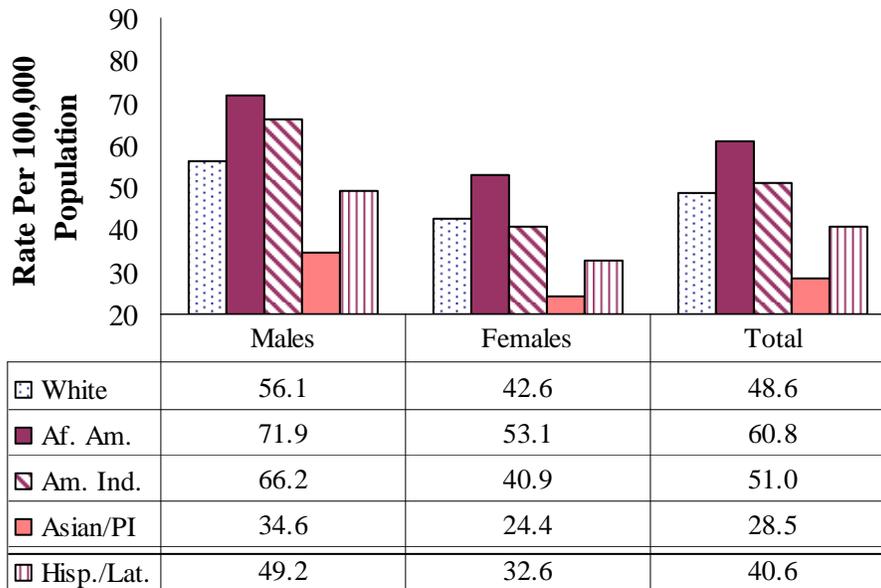
Figure 4.4. Colorectal Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

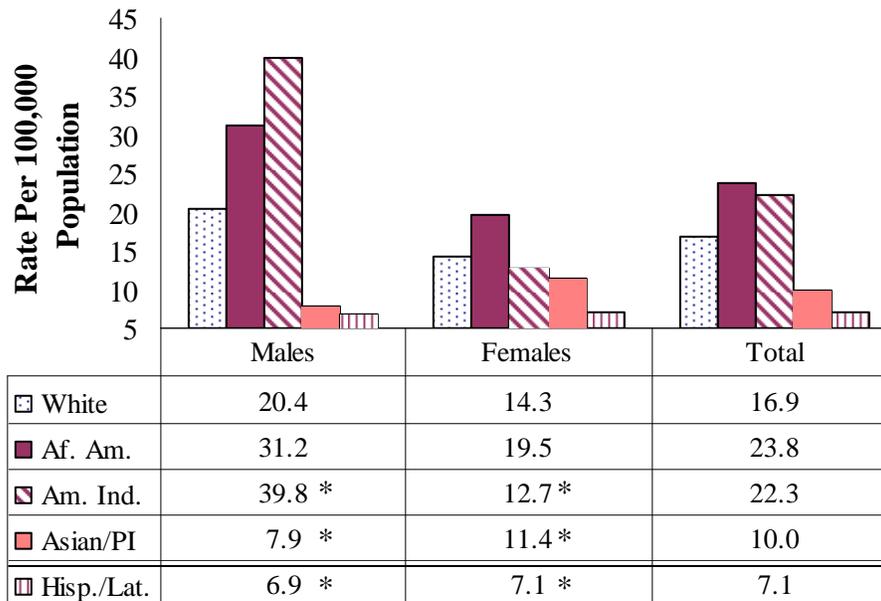
Figure 4.5. Colorectal Cancer, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population in each group, and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic /Latino origin category.

Figure 4.6. Colorectal Cancer, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population in each group, and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic /Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 4.3. Colorectal Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	68	42.7	33.0	54.8	28	18.5	12.2	27.4
Ashland	45	45.0	32.6	60.8	24	22.7	14.4	34.3
Barron	119	41.8	34.6	50.2	56	19.2	14.4	25.1
Bayfield	57	56.4	42.7	73.7	21	21.1	13.0	32.9
Brown	549	50.2	46.1	54.6	169	15.3	13.1	17.8
Buffalo	35	38.0	26.5	53.4	17	17.9	10.4	29.3
Burnett	54	44.6	33.4	59.0	23	18.0	11.4	27.9
Calumet	114	59.7	49.2	71.8	40	20.7	14.8	28.2
Chippewa	171	52.8	45.1	61.4	48	14.5	10.7	19.4
Clark	81	39.7	31.4	49.6	32	14.5	9.8	20.8
Columbia	164	52.6	44.8	61.4	56	17.4	13.1	22.7
Crawford	56	51.7	38.9	67.6	22	20.8	13.0	31.9
Dane	777	40.6	37.8	43.6	274	14.7	13.0	16.6
Dodge	251	52.2	45.9	59.1	102	20.3	16.5	24.7
Door	126	58.6	48.8	70.3	39	18.0	12.8	25.0
Douglas	74	29.5	23.1	37.2	62	23.4	17.8	30.1
Dunn	67	34.5	26.7	44.0	26	12.8	8.3	18.9
Eau Claire	189	38.7	33.3	44.7	82	16.5	13.1	20.5
Florence	9	22.6	10.3	46.8	4	10.5	2.8	31.3
Fond du Lac	320	56.6	50.5	63.3	110	19.2	15.7	23.2
Forest	46	63.8	46.4	86.5	13	16.6	8.8	29.7
Grant	121	40.4	33.4	48.5	61	19.3	14.7	25.0
Green	137	67.2	56.3	79.7	54	25.9	19.4	34.0
Green Lake	67	50.5	38.9	64.9	25	16.2	10.4	24.6
Iowa	51	40.9	30.4	53.9	24	19.2	12.3	28.8
Iron	27	45.8	29.9	69.8	7	10.2	4.1	25.9
Jackson	59	52.3	39.8	67.7	27	23.4	15.4	34.4
Jefferson	194	48.4	41.8	55.8	77	18.5	14.6	23.2
Juneau	84	53.2	42.4	66.1	36	22.1	15.4	30.8
Kenosha	382	51.6	46.5	57.1	125	17.2	14.3	20.5
Kewaunee	64	53.6	41.1	68.7	25	19.5	12.5	29.3
La Crosse	278	49.7	44.0	56.0	98	16.9	13.7	20.6
Lafayette	49	49.2	36.4	65.5	27	26.7	17.6	39.2
Langlade	75	53.0	41.5	67.0	26	16.9	10.9	25.3
Lincoln	106	53.1	43.4	64.6	36	18.1	12.6	25.4
Manitowoc	250	49.1	43.1	55.7	77	14.5	11.4	18.2
Marathon	336	47.9	42.9	53.4	97	13.5	10.9	16.5

Chapter 4: Cancers of the Colon and Rectum

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	125	41.6	34.6	49.9	47	14.9	10.9	20.2
Marquette	57	52.6	39.6	68.9	16	14.8	8.4	24.9
Menominee	18	91.9	50.2	152.7	4	34.2	7.5	87.5
Milwaukee	2,467	52.3	50.2	54.4	858	17.9	16.7	19.2
Monroe	137	59.1	49.6	69.9	34	14.1	9.8	19.8
Oconto	99	44.9	36.5	54.8	43	19.7	14.3	26.7
Oneida	156	56.6	48.0	66.5	46	16.6	12.2	22.5
Outagamie	409	50.9	46.1	56.1	147	18.1	15.3	21.3
Ozaukee	216	44.4	38.7	50.8	84	17.7	14.1	22.0
Pepin	18	39.2	23.0	63.2	13	26.8	14.1	47.1
Pierce	43	26.8	19.3	36.2	21	14.3	8.8	21.8
Polk	107	41.2	33.7	49.9	64	24.0	18.5	30.8
Portage	144	45.8	38.6	53.9	36	11.3	7.9	15.7
Price	47	43.8	32.0	59.2	23	20.8	13.1	32.1
Racine	504	51.6	47.2	56.4	151	15.3	12.9	17.9
Richland	71	62.6	48.6	79.4	21	17.1	10.5	26.6
Rock	429	53.2	48.3	58.5	128	15.5	12.9	18.5
Rusk	55	54.7	41.1	71.9	13	11.2	5.9	20.1
St. Croix	91	28.6	22.9	35.2	43	14.3	10.3	19.3
Sauk	184	55.4	47.6	64.2	55	15.8	11.9	20.7
Sawyer	41	37.2	26.5	51.2	22	18.5	11.5	28.7
Shawano	147	55.5	46.8	65.4	43	15.1	10.9	20.5
Sheboygan	436	68.4	62.0	75.1	137	20.9	17.6	24.8
Taylor	55	47.4	35.6	62.0	20	16.1	9.8	25.4
Trempealeau	94	50.5	40.5	62.3	33	17.3	11.7	24.8
Vernon	79	42.1	33.3	52.7	36	18.2	12.7	25.6
Vilas	96	51.7	41.6	64.1	28	13.8	9.2	20.8
Walworth	257	50.3	44.3	56.8	109	20.8	17.0	25.1
Washburn	37	31.9	22.3	44.8	24	20.3	12.8	31.0
Washington	311	50.5	45.0	56.5	107	17.6	14.4	21.2
Waukesha	1,003	50.4	47.4	53.7	308	15.7	14.0	17.5
Waupaca	179	54.5	46.7	63.3	65	17.5	13.5	22.6
Waushara	75	46.3	36.3	58.6	37	21.5	15.1	30.0
Winnebago	402	48.8	44.1	53.8	148	17.6	14.9	20.8
Wood	215	45.3	39.4	51.9	81	16.2	12.8	20.3

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 5: Uterine Cancer

Incidence

During 2002-2006, uterine cancer (cancer of the uterus) was the fourth most common cancer diagnosed in Wisconsin women (Figure 1.8). Each year 889 women were diagnosed with this disease (Table 5.1).

Generally, uterine cancer incidence increases with age. The rate increased sharply beginning at ages 50-54 and peaked at ages 65-69, with a decline at older ages (Figure 5.3).

During 2002-2006, 69 percent of all uterine cancer cases in Wisconsin were diagnosed at the local stage, and 24 percent at the regional or distant stage (Figure 5.4).

White women had the highest uterine cancer incidence rate (28.9 per 100,000) and Asian/Pacific Islanders the lowest (12.0 per 100,000) (Figure 5.5).

The incidence of uterine cancer was slightly higher in Wisconsin than nationally each year (Figure 5.1).

Mortality

Uterine cancer was the eighth most frequent cause of cancer death for Wisconsin women (Figure 1.8). Approximately 148 women died of uterine cancer each year from 2002 through 2006 (Table 5.2).

African American women had the highest mortality rate from uterine cancer (9.0 per 100,000) and American Indians had the lowest (3.2 per 100,000). For Hispanic/Latina women (of any race), the mortality rate was 2.1 per 100,000 (Figure 5.6).

Uterine cancer mortality increased with age, so the highest mortality rate was among women aged 85 and older (Figure 5.3).

Table 5.1. Uterine Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Diagnosis	Number of Cases	Age-Adj. Rate	APC
Annual Average 2002-2006	889	28.7	2.2%
2002	823	27.5	N/A
2003	816	26.9	N/A
2004	927	29.9	N/A
2005	938	29.7	N/A
2006	940	29.2	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin female population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

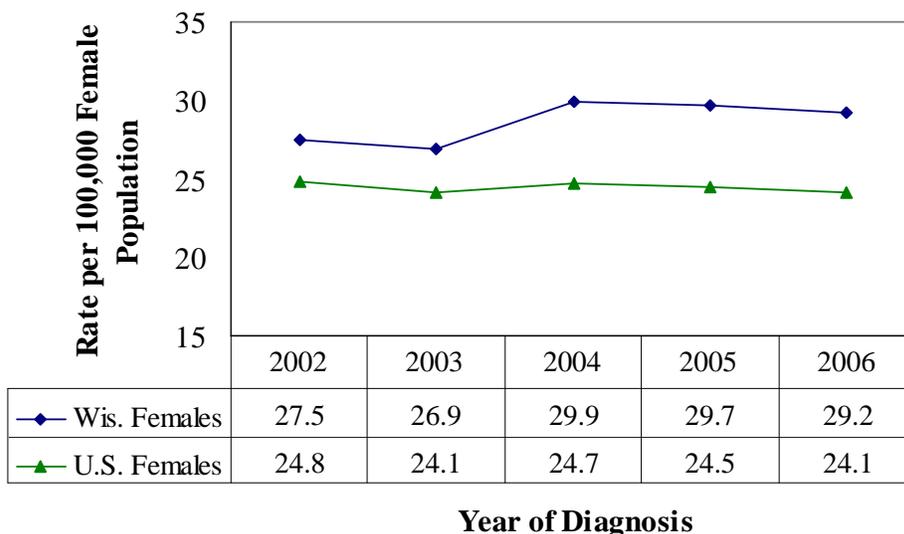
Table 5.2. Uterine Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Death	Number of Deaths	Age-Adj. Rate	APC
Annual Average 2002-2006	148	4.5	1.8%
2002	151	4.7	N/A
2003	142	4.2	N/A
2004	126	3.8	N/A
2005	156	4.7	N/A
2006	166	4.9	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin female population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

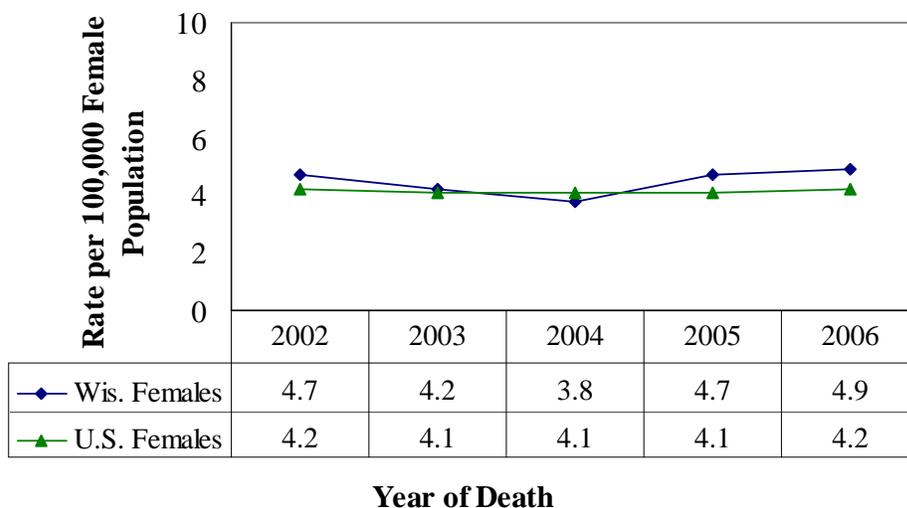
Figure 5.1. Uterine Cancer, Age-Adjusted Incidence Rates, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 female population, and are age-adjusted to the 2000 U.S. standard population.

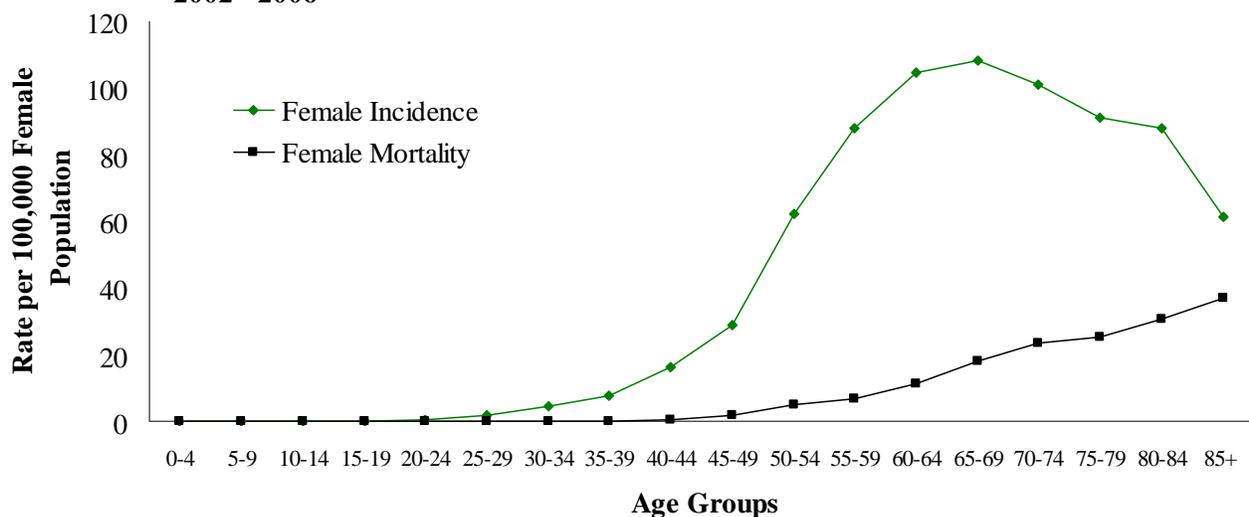
Figure 5.2. Uterine Cancer, Age-Adjusted Mortality Rates, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 female population, and are age-adjusted to the 2000 U.S. standard population.

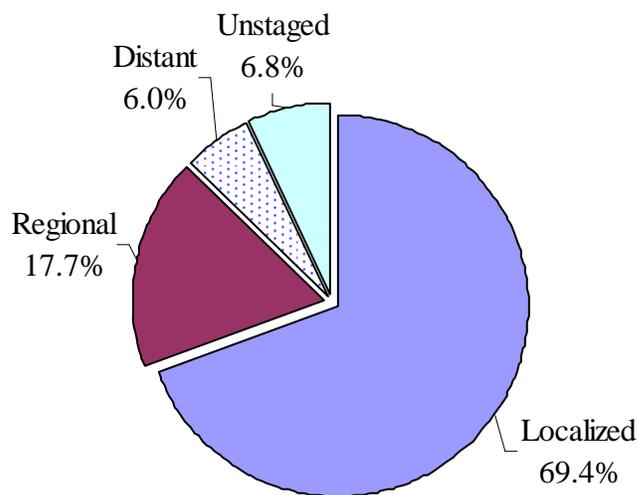
Figure 5.3. Uterine Cancer, Age-Specific Incidence and Mortality Rates, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 female population (2002-2006) for each age group.

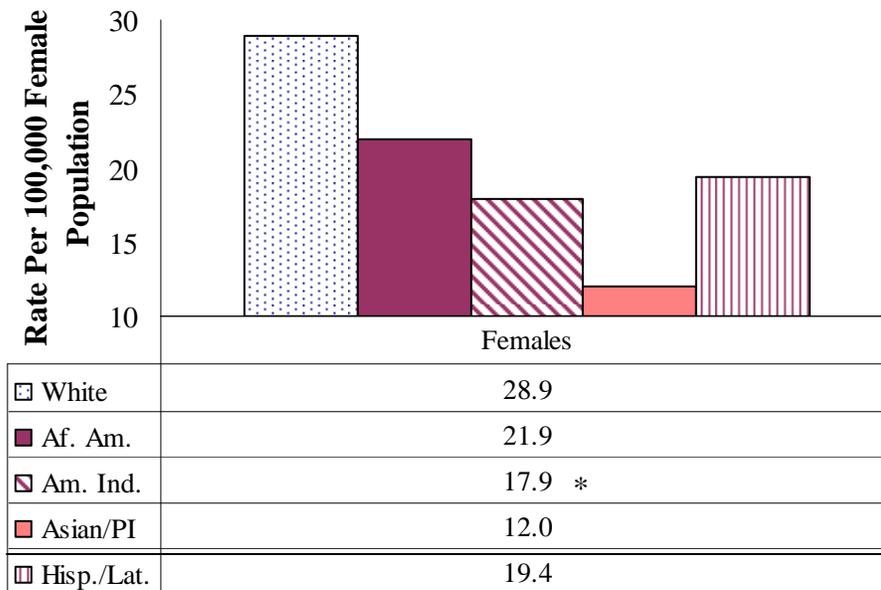
Figure 5.4. Uterine Cancer, Stage of Disease at Diagnosis, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

Figure 5.5. Uterine Cancer, Age-Adjusted Incidence Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006

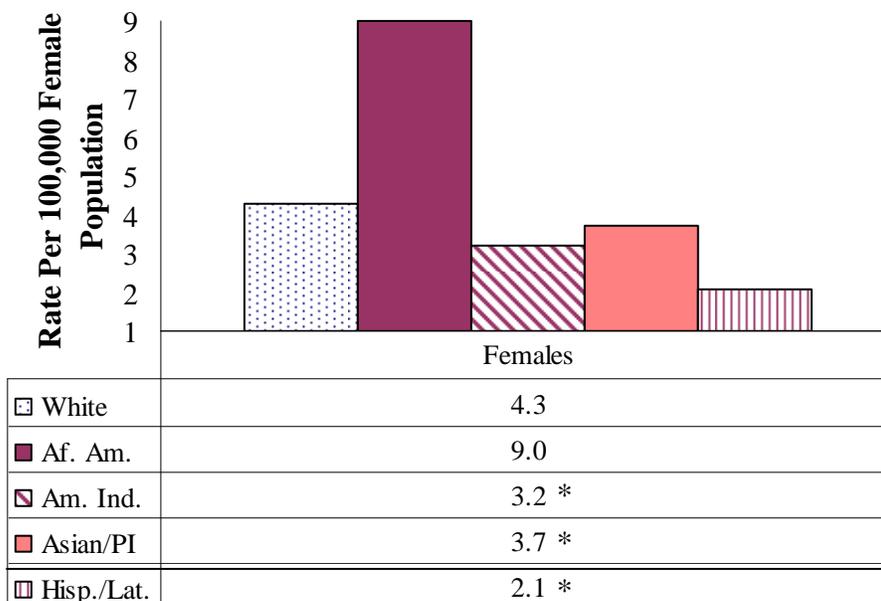


Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 female population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 5.6. Uterine Cancer, Age-Adjusted Mortality Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 female population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic /Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 5.3. Uterine Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	27	37.5	24.5	56.2	4	5.3	1.4	15.7
Ashland	24	51.4	32.7	77.1	1	1.8	0.0	11.9
Barron	41	25.5	18.1	35.2	9	4.5	2.0	9.4
Bayfield	9	17.3	7.9	34.7	3	5.8	1.2	19.4
Brown	178	29.6	25.4	34.3	27	4.5	3.0	6.6
Buffalo	9	21.0	9.5	41.1	4	6.9	1.8	20.6
Burnett	15	25.8	14.2	44.3	6	8.8	3.2	21.6
Calumet	40	38.3	27.3	52.2	8	7.7	3.3	15.2
Chippewa	41	25.3	18.1	34.5	10	5.5	2.6	10.3
Clark	19	21.4	12.7	33.9	3	3.1	0.6	9.5
Columbia	52	33.4	24.9	44.0	15	8.3	4.6	14.2
Crawford	19	34.7	20.7	55.3	0	0.0	0.0	9.1
Dane	301	27.6	24.5	30.9	44	4.4	3.1	5.9
Dodge	67	28.0	21.6	35.7	17	5.7	3.2	9.4
Door	47	42.1	30.5	57.4	7	5.5	2.1	13.0
Douglas	32	26.3	17.9	37.2	3	1.9	0.4	6.2
Dunn	31	30.7	20.8	43.7	3	2.8	0.6	8.5
Eau Claire	44	17.5	12.7	23.6	12	4.3	2.2	7.6
Florence	7	40.7	16.2	91.3	0	0.0	0.0	35.0
Fond du Lac	82	28.8	22.8	35.9	5	1.2	0.4	3.3
Forest	9	28.0	12.5	55.4	0	0.0	0.0	15.3
Grant	37	23.0	16.0	32.4	6	3.5	1.2	8.3
Green	30	26.8	18.0	38.8	11	10.3	5.1	18.9
Green Lake	20	29.3	17.7	46.7	1	1.6	0.0	10.6
Iowa	20	30.6	18.7	47.6	6	8.8	3.2	19.7
Iron	4	16.9	4.4	50.6	2	6.4	0.6	35.2
Jackson	20	35.6	21.7	55.7	2	3.6	0.4	13.9
Jefferson	66	30.4	23.4	38.8	11	5.1	2.5	9.3
Juneau	16	19.9	11.3	33.0	4	4.8	1.2	13.3
Kenosha	128	31.5	26.3	37.5	12	2.6	1.4	4.7
Kewaunee	11	18.4	9.0	33.6	3	4.1	0.8	13.6
La Crosse	83	28.7	22.8	35.7	15	4.6	2.5	7.7
Lafayette	20	40.8	24.7	64.1	1	1.6	0.0	11.8
Langlade	19	30.4	18.0	48.5	3	3.6	0.7	12.5
Lincoln	33	37.4	25.5	53.2	6	4.9	1.7	11.9
Manitowoc	80	31.9	25.2	39.9	12	4.4	2.2	7.9
Marathon	114	30.9	25.5	37.3	15	3.6	2.0	6.1

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	41	27.8	19.8	38.4	11	6.9	3.4	13.1
Marquette	19	37.1	22.1	59.7	2	3.1	0.4	14.6
Menominee	1	11.6	0.3	63.6	0	0.0	0.0	41.9
Milwaukee	712	27.6	25.6	29.7	147	5.4	4.5	6.3
Monroe	39	33.8	24.0	46.4	3	2.6	0.5	7.9
Oconto	23	21.0	13.3	31.8	2	1.6	0.2	6.5
Oneida	32	25.6	17.2	37.1	10	6.9	3.3	13.6
Outagamie	131	30.5	25.4	36.2	29	6.5	4.3	9.3
Ozaukee	66	25.6	19.8	32.8	8	3.2	1.4	6.5
Pepin	3	12.7	2.5	40.4	1	2.1	0.1	22.8
Pierce	13	13.7	7.3	23.6	2	1.9	0.2	7.3
Polk	23	16.2	10.2	24.8	6	4.3	1.5	9.8
Portage	50	28.8	21.3	38.1	11	6.4	3.2	11.5
Price	16	29.0	16.4	49.2	1	4.0	0.1	19.6
Racine	149	28.1	23.7	33.0	24	4.4	2.8	6.7
Richland	20	34.9	21.0	55.1	1	2.0	0.1	11.8
Rock	129	29.5	24.6	35.1	29	6.3	4.2	9.2
Rusk	18	39.0	22.4	63.6	1	1.1	0.0	11.3
St. Croix	29	16.5	11.0	23.8	5	3.1	1.0	7.1
Sauk	57	35.1	26.5	45.7	9	5.6	2.6	10.8
Sawyer	11	17.0	8.4	32.1	5	7.8	2.5	20.2
Shawano	43	34.0	24.5	46.3	8	4.9	2.1	10.4
Sheboygan	132	41.0	34.2	48.7	20	5.7	3.4	8.9
Taylor	19	33.5	20.0	53.0	2	3.4	0.4	13.3
Trempealeau	19	23.9	14.3	37.7	3	3.2	0.6	10.5
Vernon	31	35.3	23.9	50.5	4	4.1	1.1	11.4
Vilas	28	31.4	20.4	47.3	2	1.9	0.2	9.9
Walworth	71	26.6	20.7	33.6	10	3.4	1.6	6.4
Washburn	11	22.5	10.6	42.1	0	0.0	0.0	9.4
Washington	114	33.7	27.8	40.6	11	3.2	1.6	5.8
Waukesha	331	29.4	26.3	32.8	37	3.2	2.2	4.4
Waupaca	55	33.9	25.4	44.5	10	5.1	2.4	9.9
Waushara	24	29.9	18.9	45.7	3	3.4	0.7	11.5
Winnebago	126	29.2	24.3	34.8	25	5.5	3.5	8.2
Wood	63	26.5	20.3	34.1	8	2.6	1.1	5.5

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 female population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 6: Cancer of the Esophagus

Incidence

The 2002-2006 average annual incidence rate for cancer of the esophagus among Wisconsin males (10.3 per 100,000) was four times the rate among females (2.4 per 100,000) (Table 6.1). National rates show a similar male-female disparity ratio for this cancer, approximately 4 to 1 (Figure 6.1).

Twenty-three percent of all esophageal cancer cases were diagnosed at the early or local stage, 32 percent at the regional stage and 29 percent at the distant stage (Figure 6.4).

For males, Wisconsin incidence rates in 2002-2006 were higher than national incidence rates; among females, Wisconsin rates were similar to national rates (Figure 6.1).

Mortality

For the five-year period, the male mortality rate for esophageal cancer (9.3 per 100,000) was almost five times the female rate (2.0 per 100,000) (Table 6.2). This is consistent with national rates (Figure 6.2).

Esophageal cancer mortality rates varied by race and ethnicity. African Americans and American Indians had the highest mortality rates (8.5 and 7.6 per 100,000, respectively) compared with the rate for whites (5.1 per 100,000) and Asian/Pacific Islanders (0.7 per 100,000) (Figure 6.6). The mortality rate for Hispanics/Latinos was also relatively low (1.6 per 100,000).

Esophageal cancer mortality rates increased with age among both sexes, with the highest rate among those 80 years of age and older (Figure 6.3).

Table 6.1. Esophageal Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	269	10.3	-1.2%	76	2.4	-4.4%	345	5.9	-1.8%
2002	253	10.2	N/A	81	2.6	N/A	334	5.9	N/A
2003	267	10.4	N/A	78	2.5	N/A	345	6.1	N/A
2004	291	11.1	N/A	80	2.5	N/A	371	6.4	N/A
2005	263	9.8	N/A	68	2.0	N/A	331	5.6	N/A
2006	272	9.9	N/A	74	2.2	N/A	346	5.6	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

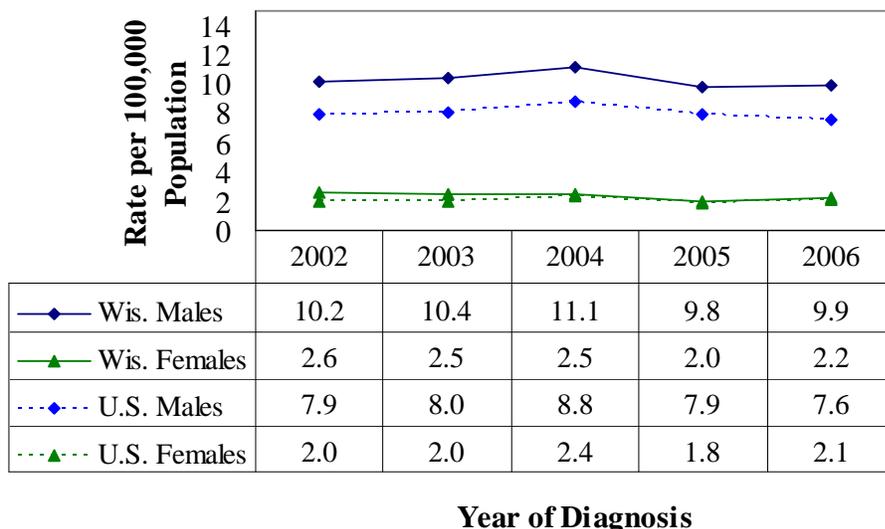
Table 6.2. Esophageal Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	239	9.3	1.3%	66	2.0	-2.3%	305	5.2	0.6%
2002	230	9.3	N/A	66	2.0	N/A	296	5.2	N/A
2003	220	8.8	N/A	72	2.1	N/A	292	5.1	N/A
2004	248	9.6	N/A	61	1.8	N/A	309	5.3	N/A
2005	237	9.1	N/A	71	2.1	N/A	308	5.2	N/A
2006	260	9.7	N/A	62	1.8	N/A	322	5.3	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

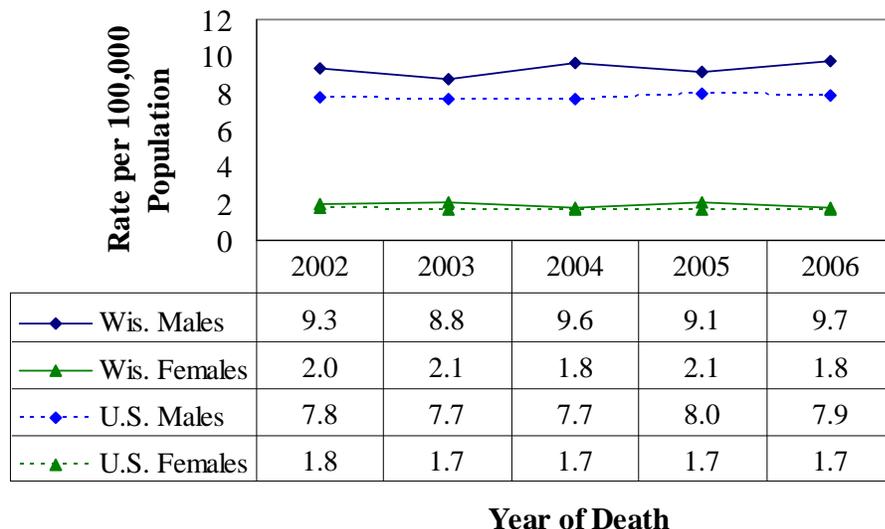
Figure 6.1. Esophageal Cancer, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

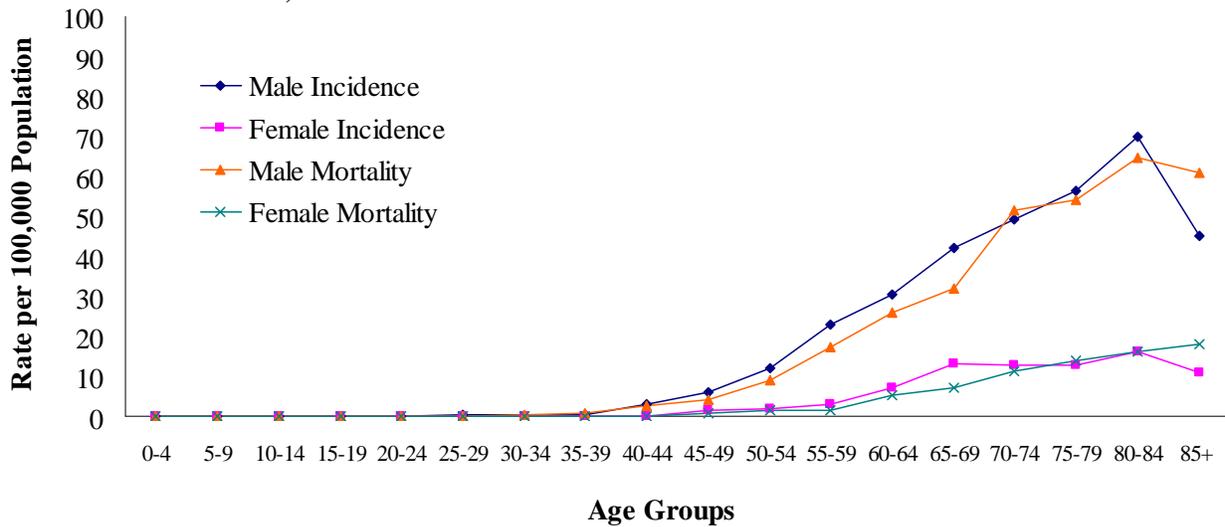
Figure 6.2. Esophageal Cancer, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

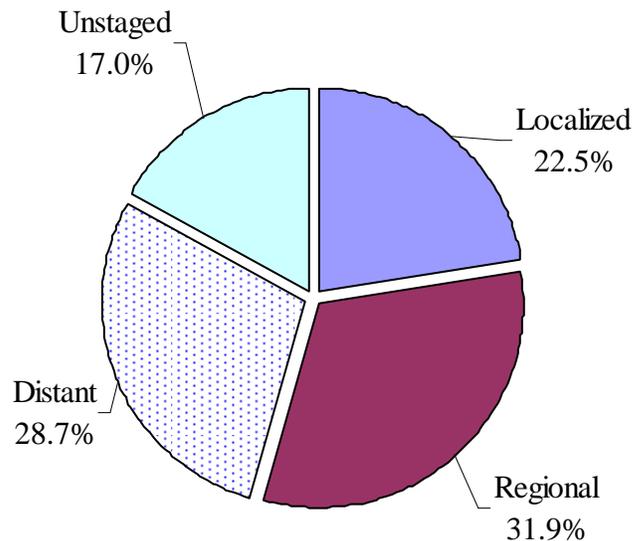
Figure 6.3. Esophageal Cancer, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population (2002-2006) for each age group and sex.

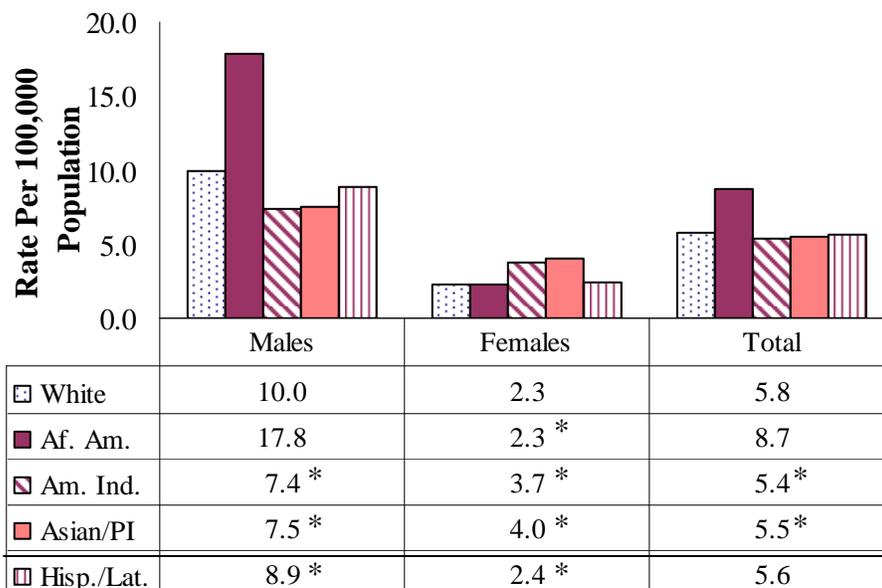
Figure 6.4. Esophageal Cancer, Stage of Disease at Diagnosis, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

Figure 6.5. Esophageal Cancer, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006

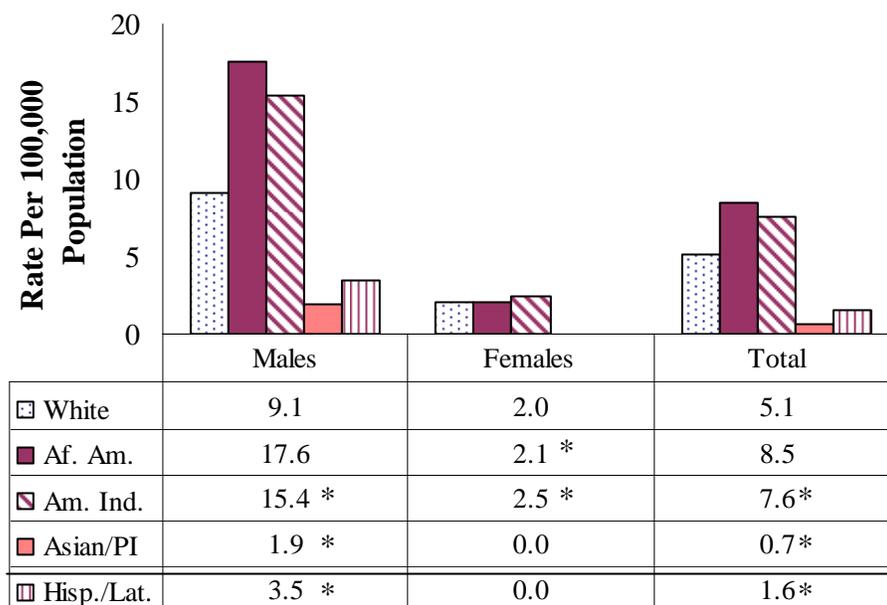


Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population in each group, and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 6.6. Esophageal Cancer, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population in each group, and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 6.3. Esophageal Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	12	8.8	4.5	16.1	6	4.0	1.5	9.6
Ashland	5	4.9	1.5	12.0	4	4.0	1.1	10.7
Barron	22	7.7	4.8	11.8	20	7.0	4.3	11.0
Bayfield	9	9.0	4.1	17.8	8	7.7	3.3	16.1
Brown	68	6.5	5.1	8.3	49	4.6	3.4	6.0
Buffalo	2	2.3	0.3	9.2	1	1.2	0.0	7.3
Burnett	6	4.7	1.7	11.3	10	7.9	3.8	15.5
Calumet	17	8.3	4.8	13.3	13	7.0	3.7	11.9
Chippewa	16	4.9	2.8	8.0	13	3.9	2.1	6.7
Clark	12	6.0	3.1	10.8	6	3.1	1.1	6.9
Columbia	16	5.2	3.0	8.6	11	3.6	1.8	6.5
Crawford	7	6.6	2.7	14.1	4	3.6	1.0	9.9
Dane	82	4.3	3.4	5.3	88	4.7	3.8	5.8
Dodge	30	6.3	4.2	9.0	39	8.1	5.8	11.1
Door	7	3.3	1.3	7.3	12	5.8	3.0	10.6
Douglas	13	5.1	2.7	8.8	14	5.7	3.1	9.6
Dunn	9	5.0	2.3	9.4	11	6.1	3.1	10.9
Eau Claire	23	4.9	3.1	7.4	24	5.1	3.3	7.6
Florence	1	2.4	0.1	20.0	2	5.6	0.7	24.8
Fond du Lac	33	5.9	4.1	8.4	33	5.9	4.0	8.3
Forest	8	12.2	5.1	25.2	6	8.5	3.0	20.1
Grant	17	5.9	3.4	9.6	21	7.2	4.5	11.2
Green	10	5.1	2.4	9.5	13	6.5	3.4	11.2
Green Lake	10	8.2	3.9	15.4	7	5.8	2.3	12.5
Iowa	2	1.6	0.2	5.9	1	0.7	0.0	4.5
Iron	5	7.9	2.5	23.3	8	13.0	5.5	29.7
Jackson	6	5.3	1.9	11.8	6	5.5	2.0	12.2
Jefferson	24	6.0	3.8	9.0	17	4.1	2.4	6.6
Juneau	9	5.7	2.6	11.1	6	3.9	1.4	8.8
Kenosha	43	5.8	4.2	7.8	30	4.0	2.7	5.8
Kewaunee	4	3.5	0.9	9.1	3	2.6	0.5	7.9
La Crosse	32	5.9	4.0	8.3	28	5.2	3.4	7.5
Lafayette	10	10.4	5.0	19.5	9	9.5	4.3	18.4
Langlade	11	7.7	3.8	14.3	11	8.3	4.0	15.3
Lincoln	13	6.6	3.5	11.6	9	4.6	2.1	9.0
Manitowoc	32	6.5	4.5	9.3	27	5.4	3.6	8.0
Marathon	34	5.0	3.5	7.0	41	5.9	4.3	8.1

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	14	4.9	2.7	8.5	12	4.1	2.1	7.4
Marquette	7	6.3	2.5	13.9	7	6.1	2.4	13.5
Menominee	0	0.0	0.0	21.7	0	0.0	0.0	21.7
Milwaukee	318	6.8	6.1	7.6	254	5.4	4.8	6.1
Monroe	14	5.9	3.2	10.0	11	4.6	2.3	8.3
Oconto	8	3.7	1.6	7.5	3	1.4	0.3	4.2
Oneida	15	5.9	3.3	10.1	9	3.2	1.5	6.5
Outagamie	44	5.4	3.9	7.3	50	6.2	4.6	8.1
Ozaukee	30	6.2	4.2	8.9	34	7.2	5.0	10.1
Pepin	3	6.7	1.3	20.7	3	6.7	1.3	20.7
Pierce	3	2.1	0.4	6.0	8	5.4	2.3	10.5
Polk	15	5.6	3.1	9.4	11	4.1	2.0	7.5
Portage	14	4.3	2.4	7.3	11	3.5	1.7	6.3
Price	8	7.2	3.1	15.3	10	8.6	4.1	16.9
Racine	55	5.7	4.3	7.4	47	4.7	3.5	6.3
Richland	10	8.6	4.1	16.2	7	5.5	2.2	11.9
Rock	53	6.4	4.8	8.4	41	5.1	3.6	6.9
Rusk	7	6.6	2.6	14.5	4	3.6	1.0	10.3
St. Croix	10	3.3	1.6	6.0	17	5.9	3.4	9.3
Sauk	29	8.8	5.9	12.7	22	6.8	4.2	10.3
Sawyer	8	6.9	3.0	14.3	9	7.6	3.5	15.2
Shawano	5	2.2	0.7	5.2	6	2.4	0.9	5.4
Sheboygan	40	6.5	4.6	8.9	32	5.0	3.4	7.2
Taylor	6	5.3	1.9	11.8	6	5.4	2.0	11.9
Trempealeau	4	2.5	0.7	6.6	5	2.9	0.9	7.1
Vernon	12	6.3	3.3	11.4	9	5.0	2.3	9.7
Vilas	14	7.9	4.3	14.1	13	7.8	4.0	14.1
Walworth	36	6.9	4.9	9.6	27	5.3	3.5	7.8
Washburn	9	7.7	3.5	15.4	8	6.9	2.9	14.5
Washington	45	7.1	5.2	9.5	35	5.7	4.0	8.0
Waukesha	110	5.4	4.4	6.5	93	4.7	3.8	5.8
Waupaca	23	7.0	4.4	10.7	20	6.0	3.7	9.4
Waushara	12	6.8	3.5	12.4	13	7.5	4.0	13.2
Winnebago	58	7.2	5.5	9.3	57	7.0	5.3	9.1
Wood	28	6.0	4.0	8.8	22	4.5	2.8	7.0

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population, and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 7: Cancers of the Kidney and Renal Pelvis

Incidence

Each year during 2002-2006, approximately 859 Wisconsin residents were diagnosed with cancer of the kidney and renal pelvis. The age-adjusted incidence rate increased during that five-year period from 13.5 to 16.2 per 100,000 population (Table 7.1).

The average annual age-adjusted incidence rate of kidney and renal cancer for Wisconsin males (20.0 per 100,000) was almost twice the rate for Wisconsin females (10.4 per 100,000) (Figure 7.1).

Fifty-nine percent of all kidney and renal cancer cases were diagnosed at the early (localized) stage, and 33 percent at the regional or distant stage (Figure 7.4).

Among the four major racial groups in Wisconsin, African American had the highest age-adjusted incidence rate of kidney and renal cancer (17.6 per 100,000) and Asians/Pacific Islanders had the lowest (4.7 per 100,000). The incidence rate for Hispanics/Latinos (of any race) was 12.5 per 100,000 (Figure 7.5).

Mortality

Each year during the 2002-2006 period, approximately 267 Wisconsin residents died of cancer of the kidney and renal pelvis (Table 7.2).

For this five-year period, the male mortality rate (6.5 per 100,000) was over twice the female rate (3.0 per 100,000). This is consistent with national trends (Figure 7.2).

Mortality rates for this cancer varied by race. American Indians had the highest mortality rate (6.9 per 100,000) and Asians/Pacific Islanders had the lowest (1.9 per 100,000) (Figure 7.6). Hispanics/Latinos (of any race) experienced a mortality rate of 3.5 per 100,000.

Table 7.1. Kidney and Renal Pelvis Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 - 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	532	20.0	5.6%	327	10.4	1.3%	859	14.8	4.1%
2002	459	18.0	N/A	302	9.8	N/A	761	13.5	N/A
2003	493	19.1	N/A	333	10.8	N/A	826	14.5	N/A
2004	529	19.7	N/A	329	10.4	N/A	858	14.8	N/A
2005	563	20.7	N/A	324	10.3	N/A	887	15.1	N/A
2006	618	22.5	N/A	347	10.7	N/A	965	16.2	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

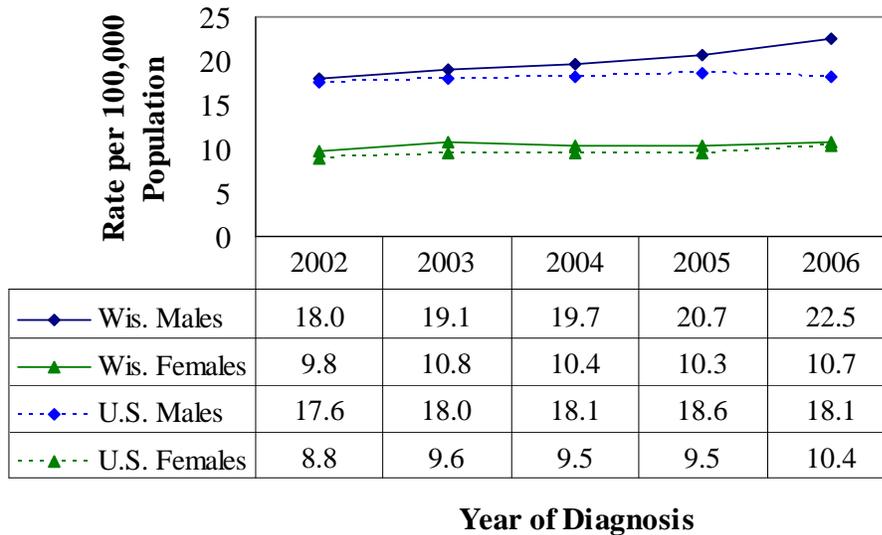
Table 7.2. Kidney and Renal Pelvis Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	165	6.5	-1.1%	102	3.0	-4.4%	267	4.6	-1.9%
2002	171	6.9	N/A	104	3.2	N/A	275	4.9	N/A
2003	151	6.1	N/A	108	3.2	N/A	259	4.5	N/A
2004	171	6.8	N/A	107	3.2	N/A	278	4.8	N/A
2005	156	5.9	N/A	87	2.6	N/A	243	4.1	N/A
2006	177	6.6	N/A	102	2.9	N/A	279	4.6	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

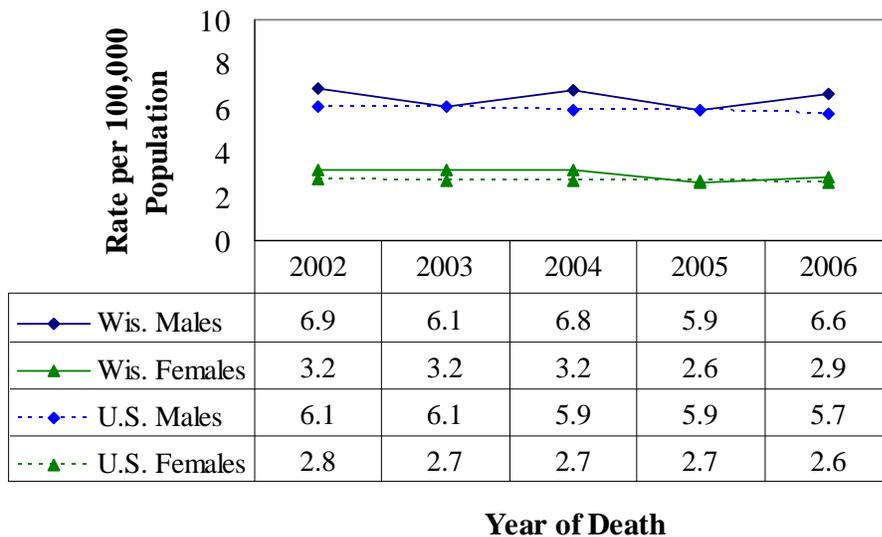
Figure 7.1. Kidney and Renal Pelvis Cancer, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

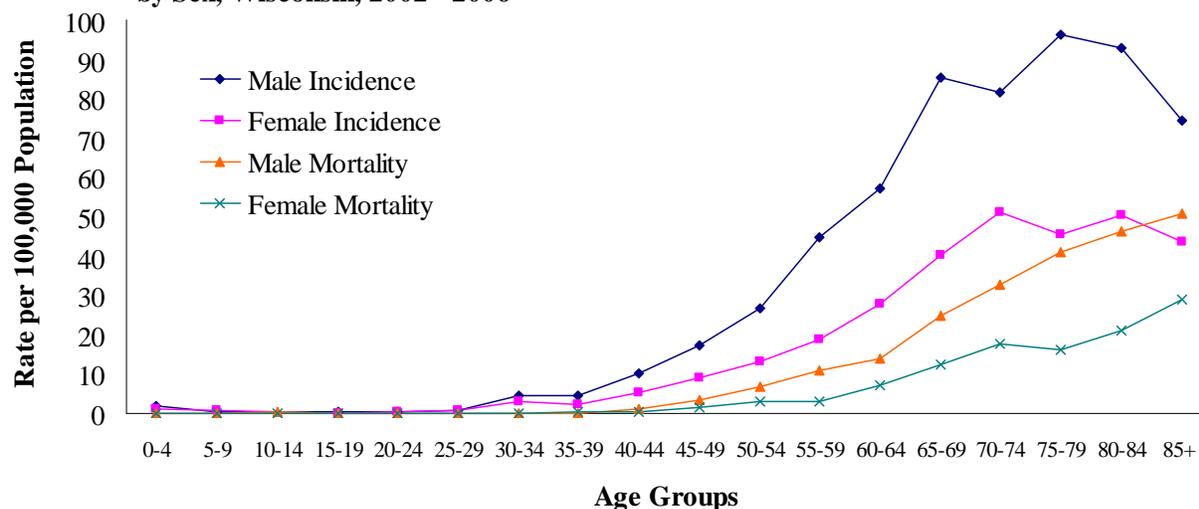
Figure 7.2. Kidney and Renal Pelvis Cancer, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

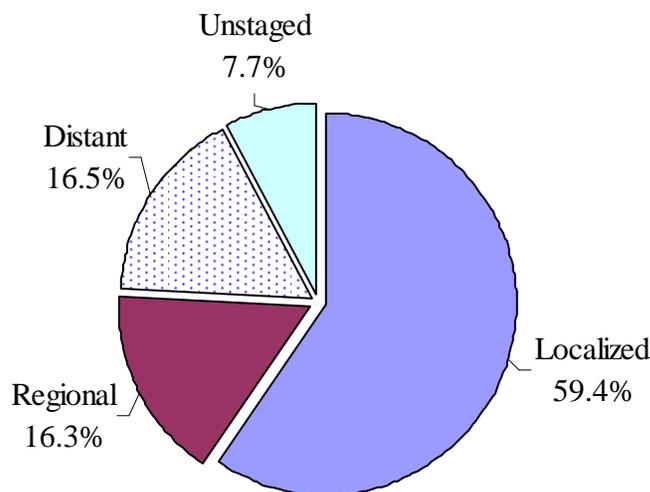
Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

Figure 7.3. Kidney and Renal Pelvis Cancer, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin, 2002 - 2006



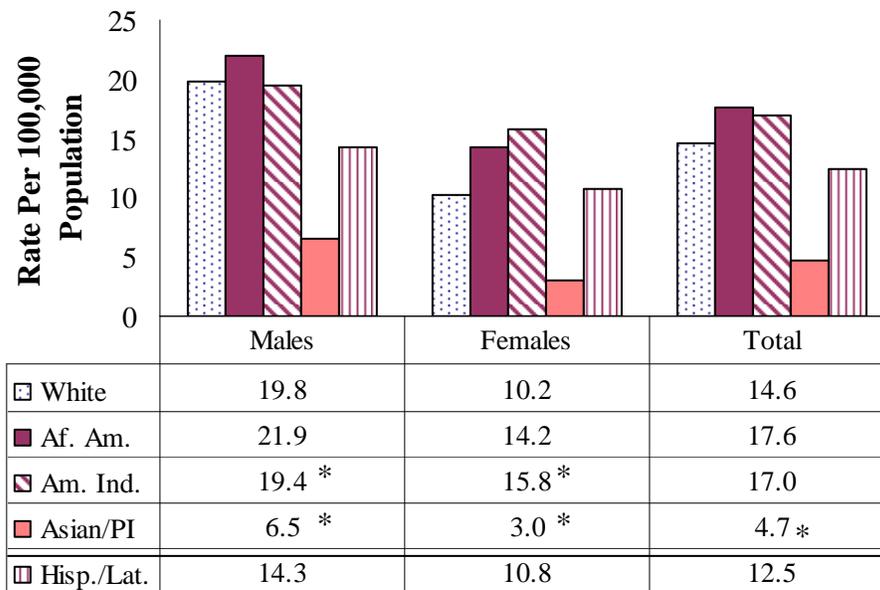
Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.
 Note: Rates are per 100,000 population (2002-2006) for each age group and sex.

Figure 7.4. Kidney and Renal Pelvis Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.
 Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

Figure 7.5. Kidney and Renal Pelvis Cancer, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006

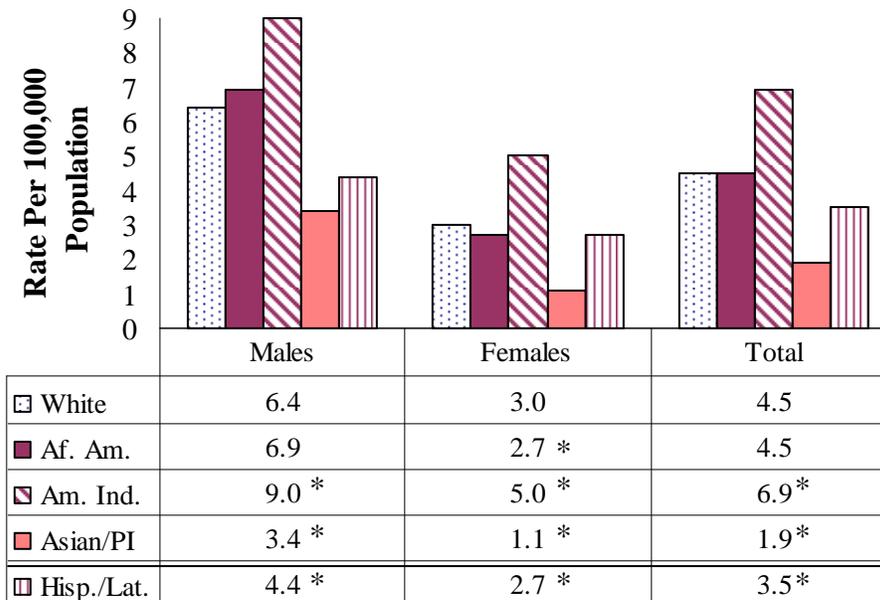


Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 7.6. Kidney and Renal Pelvis Cancer, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 7.3. Kidney and Renal Pelvis Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	21	15.3	9.3	24.2	6	3.8	1.4	9.1
Ashland	11	11.7	5.8	21.3	5	5.0	1.6	12.2
Barron	28	9.8	6.5	14.4	11	3.8	1.9	7.0
Bayfield	11	10.3	5.1	19.3	4	3.6	1.0	10.5
Brown	200	18.2	15.7	20.9	50	4.7	3.5	6.2
Buffalo	9	10.5	4.8	20.4	3	3.2	0.6	10.2
Burnett	11	8.9	4.4	16.8	9	7.2	3.3	14.6
Calumet	41	20.5	14.6	27.8	3	1.5	0.3	4.3
Chippewa	50	15.4	11.4	20.3	25	7.5	4.8	11.2
Clark	31	16.2	10.9	23.2	9	4.8	2.2	9.2
Columbia	40	13.3	9.5	18.2	20	6.3	3.8	9.8
Crawford	10	10.5	4.9	19.8	3	2.8	0.6	8.8
Dane	237	12.0	10.5	13.7	77	4.1	3.2	5.1
Dodge	61	13.0	9.9	16.8	26	5.4	3.5	8.0
Door	37	17.0	12.0	23.9	7	3.1	1.3	7.1
Douglas	29	11.9	8.0	17.2	12	4.9	2.5	8.7
Dunn	20	10.4	6.4	16.1	8	4.3	1.9	8.5
Eau Claire	65	13.6	10.5	17.4	23	4.7	3.0	7.1
Florence	3	8.0	1.6	28.0	1	2.9	0.1	21.0
Fond du Lac	83	15.0	11.9	18.7	25	4.4	2.8	6.5
Forest	14	22.1	11.7	38.3	5	6.9	2.2	17.5
Grant	32	11.6	7.9	16.5	14	4.8	2.6	8.2
Green	29	15.2	10.1	22.0	13	6.7	3.5	11.6
Green Lake	14	10.3	5.6	18.0	6	4.7	1.7	10.8
Iowa	12	9.6	4.9	16.8	5	3.9	1.3	9.3
Iron	10	19.8	9.3	39.6	6	9.0	3.3	24.5
Jackson	25	22.5	14.5	33.4	13	11.6	6.1	20.0
Jefferson	45	11.1	8.1	14.9	21	5.3	3.3	8.2
Juneau	25	15.4	10.0	23.0	10	6.0	2.9	11.4
Kenosha	123	16.4	13.6	19.6	33	4.6	3.2	6.5
Kewaunee	19	16.8	10.1	26.3	8	6.7	2.9	13.6
La Crosse	81	14.8	11.8	18.4	21	3.8	2.3	5.8
Lafayette	12	12.4	6.4	22.0	4	4.2	1.1	11.1
Langlade	23	18.3	11.5	28.0	7	5.4	2.2	11.6
Lincoln	34	18.6	12.8	26.3	7	3.7	1.5	7.9
Manitowoc	71	14.9	11.6	18.9	20	4.0	2.4	6.3
Marathon	103	14.6	11.9	17.7	39	5.5	3.9	7.6

Chapter 7: Cancers of the Kidney and Renal Pelvis

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	30	10.6	7.1	15.4	4	1.2	0.3	3.5
Marquette	14	14.1	7.5	24.6	5	4.9	1.5	12.4
Menominee	11	61.2	29.7	111.1	2	9.1	1.1	36.3
Milwaukee	738	15.8	14.7	17.0	207	4.4	3.8	5.0
Monroe	35	15.1	10.5	21.1	13	5.3	2.8	9.2
Oconto	37	17.4	12.2	24.1	10	4.7	2.3	8.8
Oneida	54	21.3	15.9	28.2	14	5.3	2.9	9.3
Outagamie	135	16.8	14.0	19.8	47	5.9	4.3	7.9
Ozaukee	61	12.6	9.6	16.3	21	4.3	2.6	6.6
Pepin	4	9.4	2.6	24.8	0	0.0	0.0	10.0
Pierce	10	5.2	2.5	9.7	3	1.8	0.4	5.1
Polk	29	11.8	7.9	17.1	11	4.2	2.1	7.6
Portage	41	13.1	9.4	17.8	19	6.1	3.7	9.6
Price	13	11.7	6.2	20.9	6	4.8	1.7	11.8
Racine	175	17.8	15.2	20.6	42	4.4	3.1	5.9
Richland	16	16.0	8.9	26.4	6	5.3	1.9	11.9
Rock	114	14.0	11.6	16.9	38	4.6	3.3	6.4
Rusk	11	11.8	5.9	21.7	1	1.0	0.0	6.6
St. Croix	20	6.4	3.9	9.9	14	4.6	2.5	7.7
Sauk	28	8.8	5.8	12.7	13	3.7	2.0	6.5
Sawyer	6	5.5	2.0	12.6	5	4.4	1.4	10.9
Shawano	42	16.5	11.9	22.6	14	5.0	2.7	8.7
Sheboygan	91	14.6	11.8	18.0	23	3.6	2.3	5.4
Taylor	19	17.2	10.3	27.1	11	8.9	4.4	16.4
Trempealeau	20	12.8	7.8	20.0	6	3.6	1.3	8.2
Vernon	22	12.3	7.6	19.0	9	5.4	2.5	10.5
Vilas	24	13.8	8.6	21.4	8	4.0	1.7	8.8
Walworth	72	14.3	11.2	18.1	23	4.5	2.9	6.8
Washburn	17	15.7	8.9	26.1	4	3.1	0.8	9.0
Washington	111	17.7	14.6	21.4	25	4.0	2.6	5.9
Waukesha	339	16.7	14.9	18.6	95	4.8	3.9	5.8
Waupaca	45	14.7	10.7	19.9	13	3.9	2.1	6.9
Waushara	26	15.3	10.0	22.9	4	2.3	0.6	6.5
Winnebago	146	17.8	15.0	20.9	42	5.1	3.7	6.9
Wood	71	15.6	12.1	19.7	17	3.7	2.1	6.0

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 8: Leukemia

Incidence

Approximately 832 Wisconsin residents were diagnosed with leukemia each year during 2002-2006 (Table 8.1). Certain types of leukemia occur more frequently in children; it was the most commonly diagnosed cancer among both males and females under age 15 (Table 1.4).

The 2002-2006 average annual age-adjusted incidence rate for leukemia was higher for males than females (19.0 per 100,000 compared to 11.0 per 100,000) (Table 8.1).

Mortality

During 2002-2006 an average of 485 deaths from leukemia were reported each year among Wisconsin residents (Table 8.2). Among both males and females under age 15, leukemia was the leading cause of cancer deaths (Table 1.5).

As observed for leukemia incidence rates, leukemia mortality rates were higher among males (11.0 per 100,000) than females (6.3 per 100,000) (Table 8.2). National rates show a similar pattern (Figure 8.2).

Table 8.1. Leukemia Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	484	19.0	1.0%	348	11.0	-1.0%	832	14.5	0.2%
2002	465	18.9	N/A	348	11.2	N/A	813	14.5	N/A
2003	458	18.3	N/A	351	11.2	N/A	809	14.2	N/A
2004	483	18.9	N/A	350	11.0	N/A	833	14.5	N/A
2005	507	19.5	N/A	358	11.4	N/A	865	15.0	N/A
2006	506	19.2	N/A	332	10.5	N/A	838	14.2	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

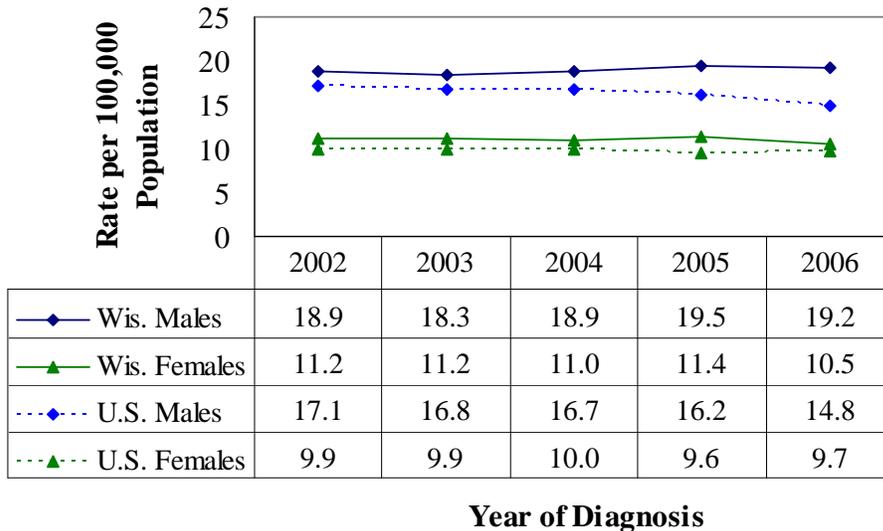
Table 8.2. Leukemia Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	270	11.0	5.7%	215	6.3	-4.0%	485	8.3	1.3%
2002	225	9.4	N/A	223	6.7	N/A	448	7.8	N/A
2003	248	10.2	N/A	229	6.8	N/A	477	8.2	N/A
2004	279	11.5	N/A	217	6.3	N/A	496	8.5	N/A
2005	310	12.4	N/A	199	5.6	N/A	509	8.6	N/A
2006	289	11.4	N/A	208	6.0	N/A	497	8.2	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

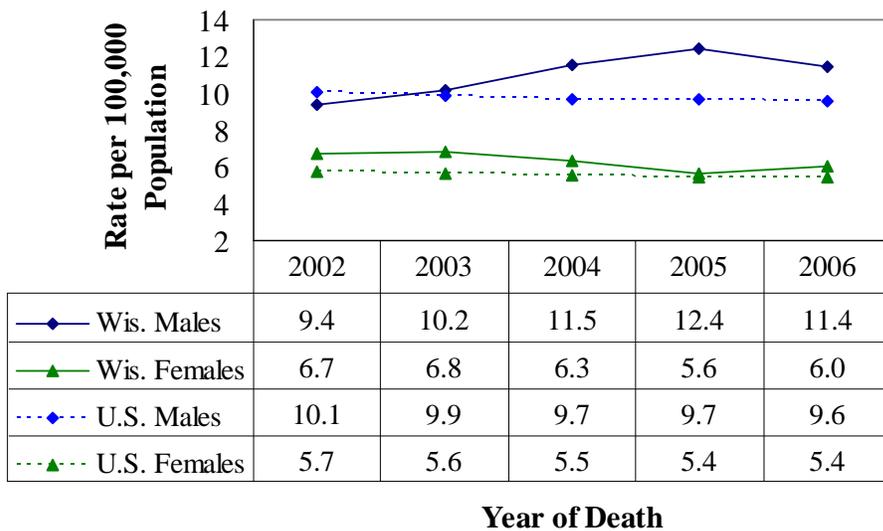
Figure 8.1. Leukemia, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

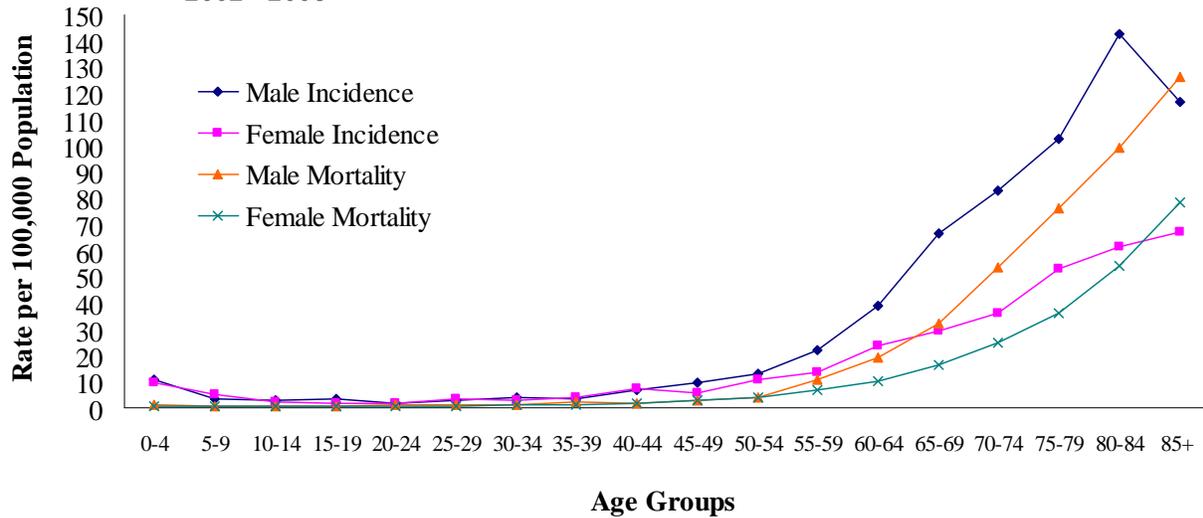
Figure 8.2. Leukemia, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

Figure 8.3. Leukemia, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin, 2002 - 2006

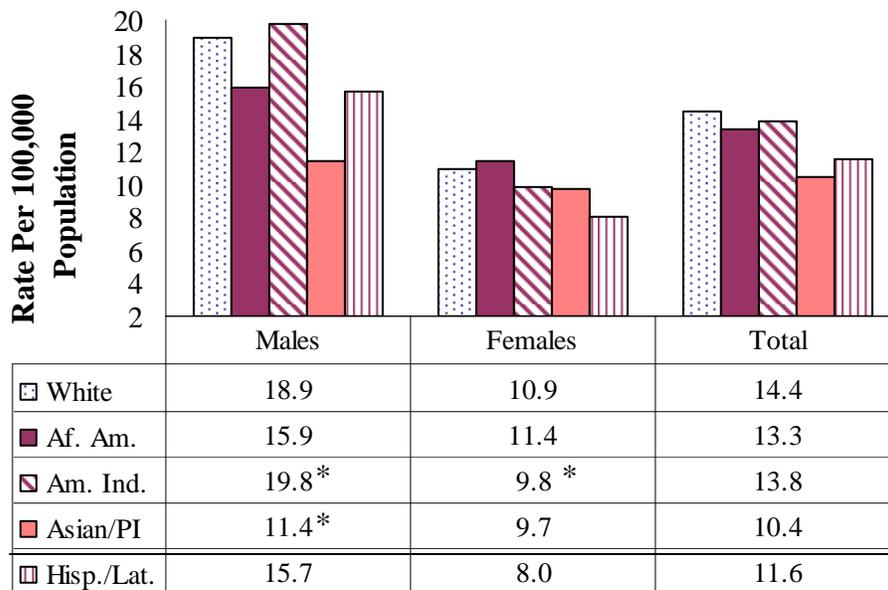


Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population (2002-2006) for each age group and sex.

Information on stage of disease at diagnosis is not presented for leukemia because it is systemic and all leukemia cases are therefore classified as distant stage.

Figure 8.4. Leukemia, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



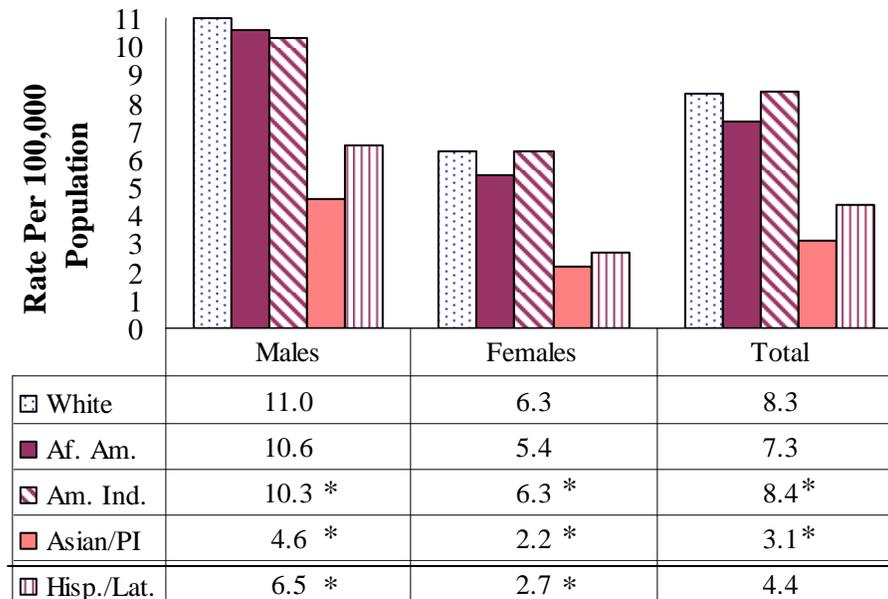
Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population.

Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 8.5. Leukemia, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population.

Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 8.3. Leukemia Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	19	14.9	8.7	24.1	15	10.1	5.5	17.6
Ashland	2	1.4	0.2	6.4	10	8.5	4.0	16.5
Barron	30	10.7	7.2	15.4	25	8.4	5.4	12.7
Bayfield	9	10.3	4.5	20.4	8	8.8	3.7	18.2
Brown	134	12.0	10.0	14.2	74	6.7	5.2	8.4
Buffalo	11	12.0	6.0	22.1	7	8.2	3.2	17.5
Burnett	13	10.7	5.7	19.2	8	6.4	2.8	13.6
Calumet	24	12.3	7.8	18.3	16	8.5	4.8	13.7
Chippewa	46	14.5	10.6	19.4	25	8.0	5.1	11.8
Clark	27	13.1	8.6	19.4	23	10.4	6.5	15.9
Columbia	43	14.4	10.4	19.5	26	8.2	5.3	12.1
Crawford	10	9.0	4.3	17.1	9	7.8	3.5	15.4
Dane	281	14.5	12.8	16.3	158	8.6	7.3	10.0
Dodge	55	11.8	8.8	15.3	41	8.3	5.9	11.3
Door	27	13.9	8.9	20.9	13	5.9	3.1	10.6
Douglas	31	12.9	8.7	18.4	22	9.0	5.6	13.8
Dunn	14	7.2	3.9	12.2	11	5.8	2.8	10.4
Eau Claire	53	11.7	8.8	15.4	32	6.4	4.4	9.1
Florence	3	8.9	1.8	29.9	3	8.2	1.7	28.5
Fond du Lac	81	15.0	11.8	18.7	42	7.6	5.4	10.3
Forest	6	8.3	3.0	19.7	4	4.7	1.3	14.1
Grant	25	8.3	5.3	12.4	22	6.9	4.3	10.7
Green	29	14.5	9.6	21.0	9	3.8	1.7	7.5
Green Lake	17	13.1	7.5	21.6	6	4.6	1.7	10.7
Iowa	20	16.1	9.8	25.0	13	10.3	5.4	17.7
Iron	4	7.2	2.0	22.8	3	4.9	1.0	19.5
Jackson	18	17.3	10.2	27.5	11	9.4	4.7	17.1
Jefferson	56	14.2	10.7	18.5	27	6.9	4.5	10.0
Juneau	30	18.8	12.7	27.1	12	7.5	3.9	13.3
Kenosha	63	8.4	6.4	10.8	44	6.0	4.3	8.0
Kewaunee	17	13.3	7.7	21.7	8	6.3	2.7	12.9
La Crosse	76	13.6	10.7	17.0	31	5.4	3.7	7.8
Lafayette	13	14.2	7.4	24.8	9	9.3	4.1	18.1
Langlade	21	16.2	9.9	25.2	12	8.2	4.1	15.0
Lincoln	29	15.8	10.5	23.0	13	6.8	3.6	11.9
Manitowoc	75	15.3	12.0	19.3	35	6.9	4.8	9.7
Marathon	98	14.5	11.7	17.7	61	8.8	6.7	11.4

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	41	16.0	11.3	22.1	34	11.9	8.1	17.0
Marquette	18	16.0	9.4	26.1	12	10.9	5.6	19.9
Menominee	0	0.0	0.0	21.7	2	23.9	2.5	75.3
Milwaukee	729	15.5	14.4	16.7	402	8.5	7.6	9.3
Monroe	41	17.9	12.8	24.3	17	7.5	4.3	12.0
Oconto	29	13.9	9.3	20.1	15	7.1	4.0	11.8
Oneida	35	14.7	10.1	21.0	28	10.6	7.0	15.7
Outagamie	112	13.9	11.4	16.7	75	9.2	7.2	11.5
Ozaukee	78	17.1	13.5	21.4	32	6.9	4.7	9.8
Pepin	4	8.8	2.4	23.6	6	9.9	3.6	23.9
Pierce	19	12.4	7.4	19.5	11	7.2	3.5	12.8
Polk	44	16.7	12.1	22.5	28	10.7	7.1	15.7
Portage	48	15.0	11.0	19.9	35	11.1	7.7	15.4
Price	26	25.6	16.4	38.5	16	13.1	7.4	22.4
Racine	133	13.7	11.4	16.2	82	8.5	6.7	10.5
Richland	23	20.6	12.9	31.4	11	8.7	4.3	16.2
Rock	125	15.6	13.0	18.6	68	8.3	6.5	10.6
Rusk	10	11.3	5.2	21.5	10	9.7	4.6	18.6
St. Croix	49	16.1	11.9	21.3	26	8.1	5.2	11.9
Sauk	33	10.4	7.1	14.8	29	8.8	5.9	12.7
Sawyer	11	10.3	5.1	19.0	8	7.4	3.2	15.3
Shawano	41	15.9	11.3	21.7	15	5.5	3.1	9.3
Sheboygan	119	19.3	15.9	23.1	67	10.3	8.0	13.2
Taylor	21	19.0	11.7	29.4	10	8.5	4.0	16.0
Trempealeau	26	16.5	10.7	24.5	21	11.4	6.9	18.0
Vernon	26	15.7	10.2	23.3	9	5.0	2.3	9.8
Vilas	15	10.6	5.6	18.4	13	8.2	4.1	15.2
Walworth	78	15.2	12.0	19.0	43	8.3	6.0	11.2
Washburn	15	16.2	8.7	27.4	7	6.6	2.5	14.5
Washington	97	15.8	12.8	19.3	57	9.4	7.1	12.3
Waukesha	333	16.9	15.1	18.8	185	9.5	8.2	11.0
Waupaca	58	19.2	14.5	25.0	41	11.9	8.5	16.3
Waushara	26	16.6	10.8	24.6	15	9.8	5.5	16.6
Winnebago	106	13.1	10.7	15.8	68	8.2	6.3	10.4
Wood	79	17.3	13.7	21.7	41	8.6	6.1	11.8

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 9: Cancer of the Lung and Bronchus

Incidence

From 2002 to 2006, each year an average of 3,743 Wisconsin residents were diagnosed with cancer of the lung and bronchus (Table 9.1). Cancer of the lung and bronchus is the third most commonly diagnosed cancer in Wisconsin, following prostate and breast cancers (Figures 1.7 and 1.8).

Cancer of the lung and bronchus occurred more often among men (79.8 per 100,000 population) than among women (54.1 per 100,000 population). Over the 2002-2006 period, both males and females in Wisconsin had higher lung cancer incidence rates than their national counterparts (Figure 9.1).

Among the racial groups, African Americans had the highest rates of lung and bronchus cancers (96.5 per 100,000) (Figure 9.5). Asians/Pacific Islanders had the lowest incidence rate for this cancer (25.0 per 100,000). Hispanics/Latinos (of any race) had an incidence rate of 36.6 per 100,000.

Nineteen percent of lung and bronchus cancer cases were diagnosed at the localized stage of disease during 2002-2006, 25 percent were diagnosed at the regional stage, and 43 percent at the distant stage (Figure 9.4).

Lung and bronchus cancer incidence rates for the combined years 2002-2006 varied by county, ranging from 39.6 per 100,000 in Iowa County to 123.3 per 100,000 in Menominee County (Table 9.3).

Mortality

During 2002-2006, cancer of the lung and bronchus was the leading cause of cancer-related death for both men and women (Figures 1.7 and 1.8). Over 1,200 female deaths and 1,500 male deaths were reported each year during 2002-2006 (Table 9.2).

Lung and bronchial cancer mortality varied greatly by race and ethnicity, closely following incidence patterns. African Americans had the highest death rate (79.5 per 100,000). The lowest cancer mortality rates were found among Asians/Pacific Islanders (19.0 per 100,000) and Hispanics/Latinos (17.5 per 100,000) (Figure 9.6).

In contrast to the pattern for incidence, Wisconsin lung and bronchus cancer mortality rates during 2002-2006 for both men and women were lower than national rates (Figure 9.2).

By county, lung and bronchus cancer mortality rates for the combined years 2002-2006 ranged from a low of 33.8 per 100,000 in Kewaunee County to a high of 90.6 per 100,000 in Menominee County (Table 9.3).

Table 9.1. Lung Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	2,040	79.8	-3.6%	1,703	54.1	0.5%	3,743	64.8	-1.6%
2002	2,054	83.4	N/A	1,663	53.9	N/A	3,717	66.1	N/A
2003	2,108	83.8	N/A	1,677	54.0	N/A	3,785	66.5	N/A
2004	2,151	84.2	N/A	1,655	52.7	N/A	3,806	66.0	N/A
2005	1,937	74.6	N/A	1,777	55.6	N/A	3,714	63.5	N/A
2006	1,950	73.6	N/A	1,742	54.5	N/A	3,692	62.5	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

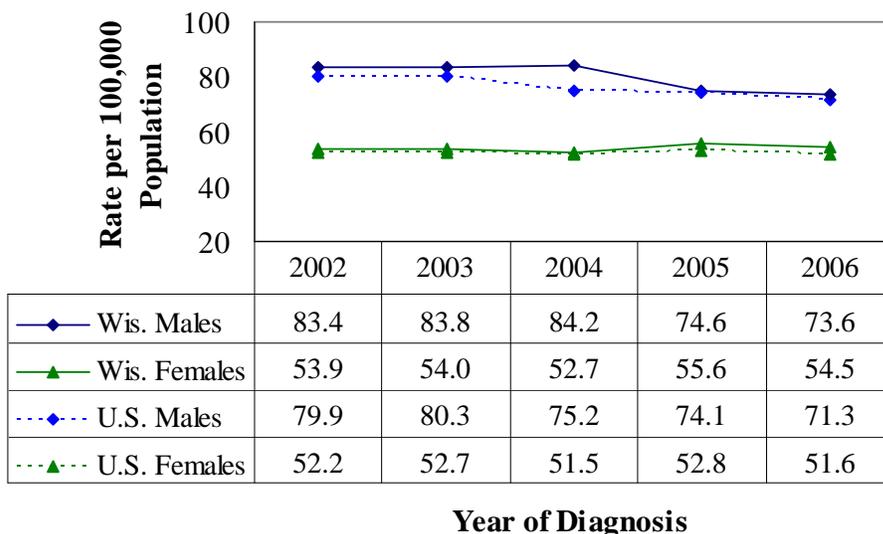
Table 9.2. Lung Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	1,579	62.9	-2.0%	1,250	38.7	1.0%	2,828	48.7	-0.4%
2002	1,559	64.2	N/A	1,244	39.8	N/A	2,803	49.7	N/A
2003	1,572	64.0	N/A	1,153	36.1	N/A	2,725	47.4	N/A
2004	1,671	66.5	N/A	1,234	38.3	N/A	2,905	50.2	N/A
2005	1,562	61.2	N/A	1,295	39.6	N/A	2,857	48.6	N/A
2006	1,530	59.2	N/A	1,322	40.0	N/A	2,852	48.1	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

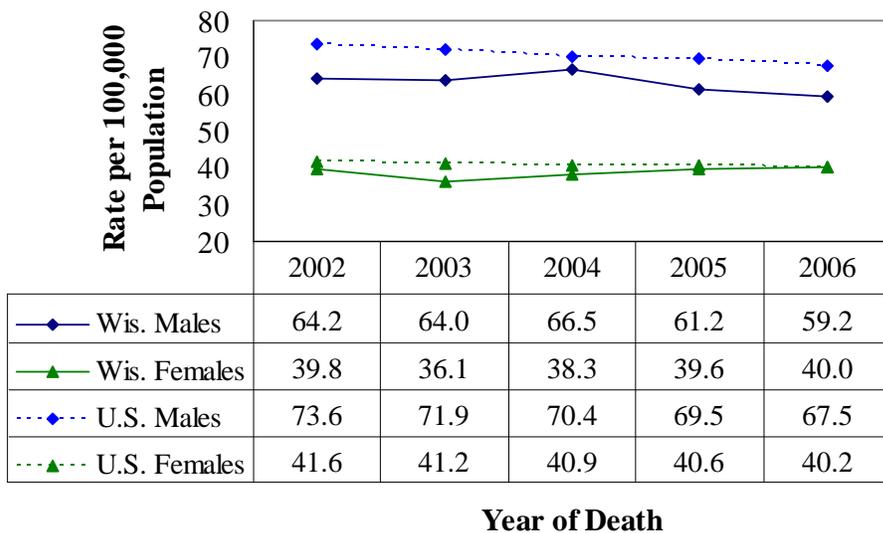
Figure 9.1. Lung Cancer, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

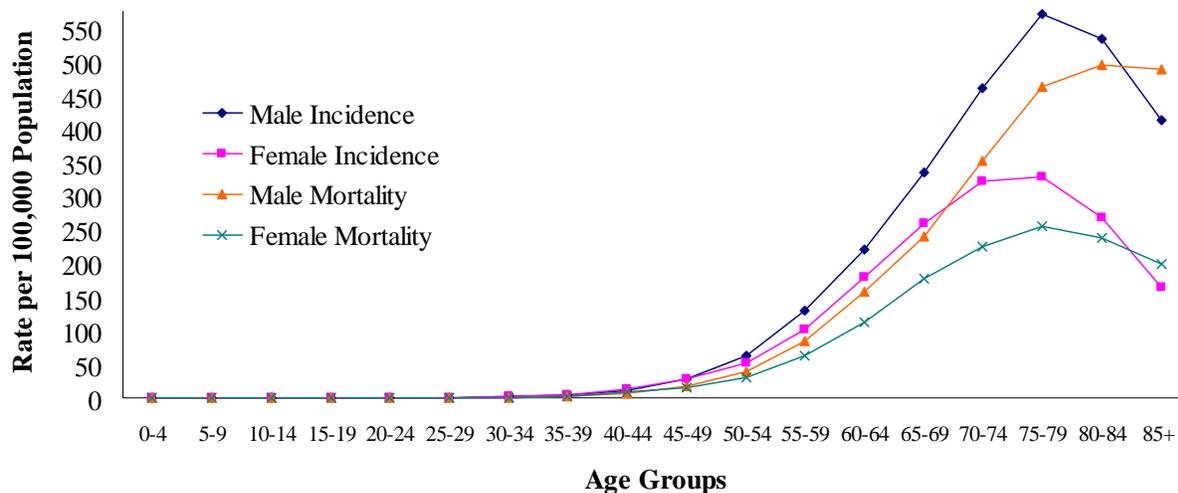
Figure 9.2. Lung Cancer, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

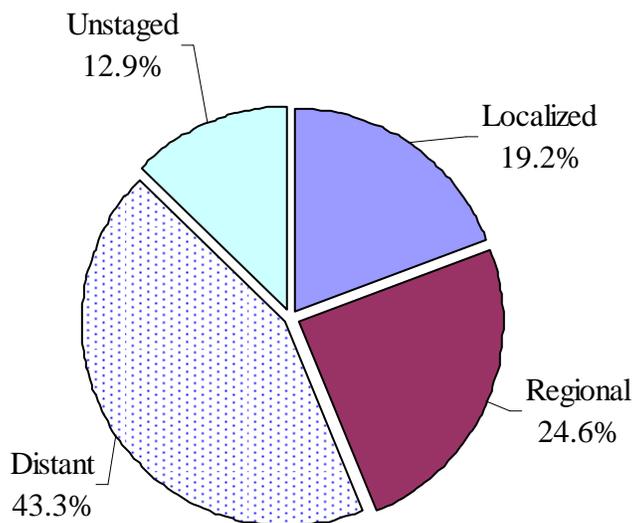
Figure 9.3. Lung Cancer, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population (2002-2006) for each age group and sex.

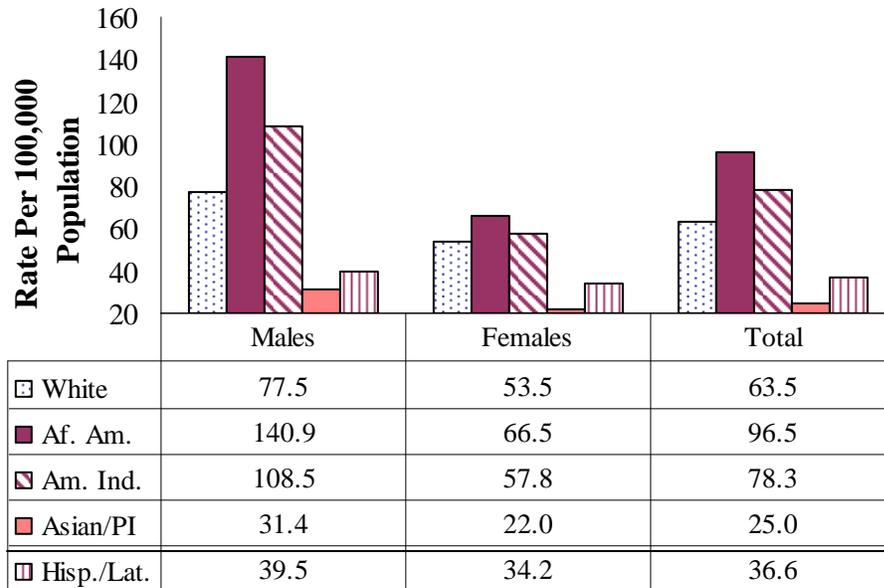
Figure 9.4. Lung Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

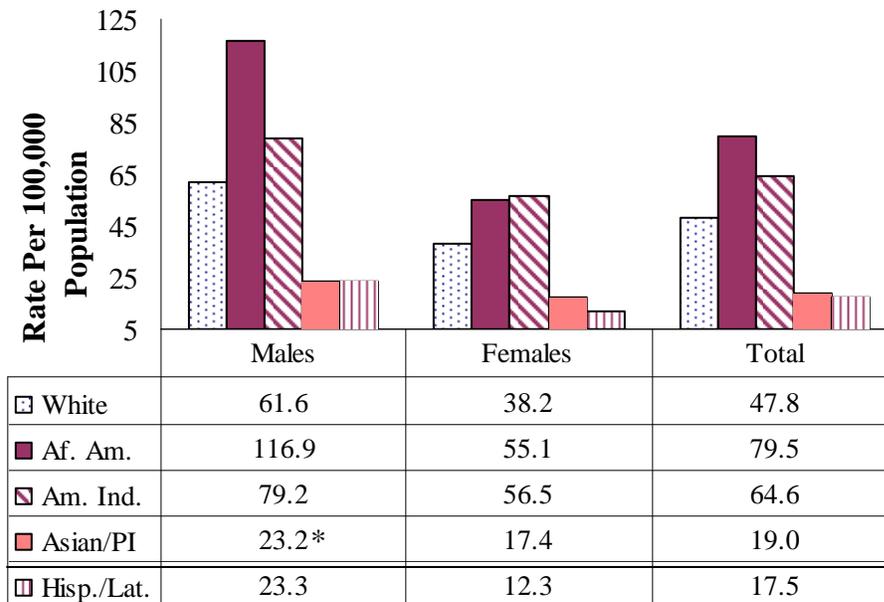
Figure 9.5. Lung Cancer, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

Figure 9.6. Lung Cancer, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Hispanic origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 9.3. Lung Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	127	80.8	67.2	97.0	106	67.8	55.4	82.6
Ashland	79	83.6	66.1	104.6	54	54.5	40.8	71.5
Barron	146	51.0	43.0	60.1	129	44.5	37.1	53.0
Bayfield	56	55.9	42.1	73.3	43	42.9	31.0	58.4
Brown	616	57.2	52.8	62.0	465	43.6	39.7	47.7
Buffalo	38	42.7	30.2	59.2	37	40.9	28.8	56.9
Burnett	80	63.4	50.1	79.6	73	57.3	44.8	72.8
Calumet	84	42.7	34.0	53.0	78	40.6	32.0	50.7
Chippewa	222	68.8	60.0	78.5	158	48.6	41.3	56.8
Clark	117	60.1	49.6	72.2	76	37.3	29.3	47.0
Columbia	208	67.0	58.2	76.8	143	45.1	38.0	53.3
Crawford	91	83.9	67.5	103.5	65	59.2	45.6	75.9
Dane	1,065	57.1	53.6	60.6	765	41.7	38.7	44.8
Dodge	284	59.8	53.1	67.3	231	48.4	42.3	55.1
Door	138	63.6	53.4	75.5	85	39.0	31.1	48.6
Douglas	153	61.4	52.0	72.1	148	59.1	49.9	69.5
Dunn	79	43.2	34.1	53.8	67	36.4	28.2	46.2
Eau Claire	249	53.5	47.0	60.7	226	48.0	41.9	54.7
Florence	20	59.2	35.9	94.2	21	62.4	38.3	98.1
Fond du Lac	363	66.3	59.6	73.6	279	50.4	44.6	56.8
Forest	68	94.0	72.7	120.3	48	65.5	48.2	87.9
Grant	171	58.7	50.2	68.3	145	49.1	41.4	57.9
Green	128	65.5	54.6	78.0	91	46.0	37.0	56.6
Green Lake	88	66.2	52.9	82.1	78	57.1	45.0	71.9
Iowa	49	39.6	29.3	52.5	53	42.9	32.1	56.2
Iron	48	91.8	67.3	124.5	34	61.3	42.0	88.7
Jackson	79	70.7	56.0	88.3	52	46.1	34.4	60.6
Jefferson	224	57.2	49.9	65.3	183	46.3	39.8	53.5
Juneau	150	94.7	80.1	111.4	111	68.7	56.4	82.9
Kenosha	586	80.0	73.6	86.8	434	59.5	54.0	65.4
Kewaunee	68	57.8	44.8	73.6	41	33.8	24.2	46.2
La Crosse	349	64.0	57.5	71.2	275	50.3	44.5	56.7
Lafayette	65	66.4	51.2	85.0	46	46.8	34.2	62.8
Langlade	114	81.0	66.7	97.8	85	58.4	46.5	72.7
Lincoln	145	75.2	63.4	88.8	97	50.4	40.8	61.7
Manitowoc	275	54.7	48.4	61.7	212	42.0	36.5	48.2
Marathon	372	54.7	49.3	60.6	282	40.8	36.1	45.9

Chapter 9: Cancer of the Lung and Bronchus

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	174	60.1	51.5	70.0	159	53.8	45.7	63.1
Marquette	128	120.3	100.0	143.9	73	65.9	51.6	83.6
Menominee	23	123.3	76.6	187.6	13	90.6	43.1	161.7
Milwaukee	3,498	76.0	73.5	78.6	2,545	54.8	52.6	56.9
Monroe	141	60.4	50.8	71.3	129	55.4	46.3	66.0
Oconto	151	69.0	58.4	81.1	113	51.5	42.4	62.1
Oneida	227	81.8	71.5	93.5	140	50.9	42.7	60.4
Outagamie	412	52.8	47.8	58.2	342	44.0	39.4	48.9
Ozaukee	258	54.5	48.0	61.6	200	42.3	36.6	48.7
Pepin	26	58.4	38.0	86.3	31	67.3	45.4	96.6
Pierce	73	48.9	38.2	61.5	59	41.1	31.2	53.0
Polk	133	51.7	43.3	61.4	112	43.6	35.8	52.5
Portage	183	58.9	50.7	68.2	123	40.0	33.2	47.7
Price	101	91.9	74.7	112.4	51	45.5	33.7	60.6
Racine	708	73.0	67.7	78.7	521	53.9	49.3	58.7
Richland	71	61.3	47.8	77.7	49	41.6	30.7	55.4
Rock	645	79.7	73.7	86.1	520	64.2	58.8	70.0
Rusk	64	64.4	49.5	82.8	49	48.9	36.1	65.3
St. Croix	125	41.0	34.0	48.9	136	44.8	37.4	53.1
Sauk	164	51.0	43.5	59.5	164	50.6	43.1	59.1
Sawyer	69	58.7	45.6	74.9	55	46.6	35.1	61.2
Shawano	174	67.6	57.8	78.6	124	46.2	38.4	55.2
Sheboygan	350	56.0	50.2	62.2	265	42.1	37.1	47.5
Taylor	60	53.7	40.9	69.3	44	37.8	27.4	51.0
Trempealeau	83	50.7	40.3	63.0	68	39.7	30.7	50.7
Vernon	99	55.6	45.1	68.0	76	41.5	32.6	52.2
Vilas	150	80.1	67.4	95.0	95	50.1	40.3	62.0
Walworth	328	64.9	58.0	72.3	247	48.8	42.9	55.3
Washburn	78	66.9	52.7	84.1	65	54.2	41.7	69.7
Washington	393	64.1	57.9	70.9	289	47.5	42.2	53.4
Waukesha	1,311	65.7	62.2	69.4	899	45.2	42.3	48.3
Waupaca	192	59.6	51.5	68.8	161	48.6	41.4	56.9
Waushara	131	78.0	65.1	92.9	90	53.9	43.3	66.6
Winnebago	504	63.1	57.7	68.9	409	50.7	45.9	55.9
Wood	292	62.9	55.8	70.6	210	44.3	38.5	50.9

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 10: Melanoma of the Skin

Incidence

From 2002 through 2006, approximately 878 Wisconsin residents each year were diagnosed with melanoma of the skin (Table 10.1).

Melanoma incidence increased with age. The highest age-specific incidence rate was found among males aged 85 and older (Figure 10.3).

In Wisconsin, 69 percent of melanomas were diagnosed at the local stage, and 13 percent at the regional or distant stage. Seventeen percent were not staged (Figure 10.4).

Wisconsin melanoma incidence rates for both sexes were lower than national incidence rates during 2002-2006 (Figure 10.1).

Mortality

The melanoma mortality rate among males for the 2002-2006 period (3.6 per 100,000) was over the twice the female rate (1.7 per 100,000) (Table 10.2).

During 2002-2006, the male mortality rate decreased by an annual average of 0.5 percent, while the female mortality rate increased by 7.7 percent annually (Table 10.2).

Wisconsin mortality rates from melanoma were similar to national mortality rates (Figure 10.2).

Table 10.1. Melanoma of the Skin Incidence: Number of Cases, Age-Adjusted Rates, Average Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	486	18.2	3.8%	392	13.2	1.4%	878	15.3	2.6%
2002	464	18.0	N/A	380	13.2	N/A	844	15.2	N/A
2003	416	15.9	N/A	375	12.7	N/A	791	14.0	N/A
2004	491	18.3	N/A	376	12.5	N/A	867	15.0	N/A
2005	511	19.0	N/A	445	14.9	N/A	956	16.5	N/A
2006	546	19.9	N/A	384	13.0	N/A	930	15.9	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

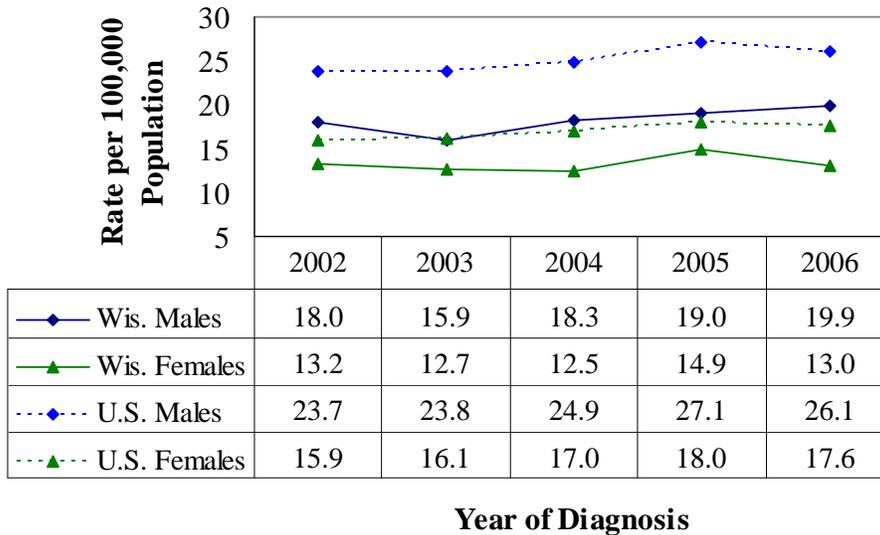
Table 10.2. Melanoma of the Skin Mortality: Number of Deaths, Age-Adjusted Rates, Average Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	94	3.6	-0.5%	54	1.7	7.7%	148	2.5	2.5%
2002	102	4.1	N/A	40	1.2	N/A	142	2.5	N/A
2003	79	3.1	N/A	58	1.8	N/A	137	2.4	N/A
2004	92	3.6	N/A	45	1.4	N/A	137	2.4	N/A
2005	97	3.7	N/A	76	2.3	N/A	173	2.9	N/A
2006	99	3.7	N/A	52	1.6	N/A	151	2.5	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

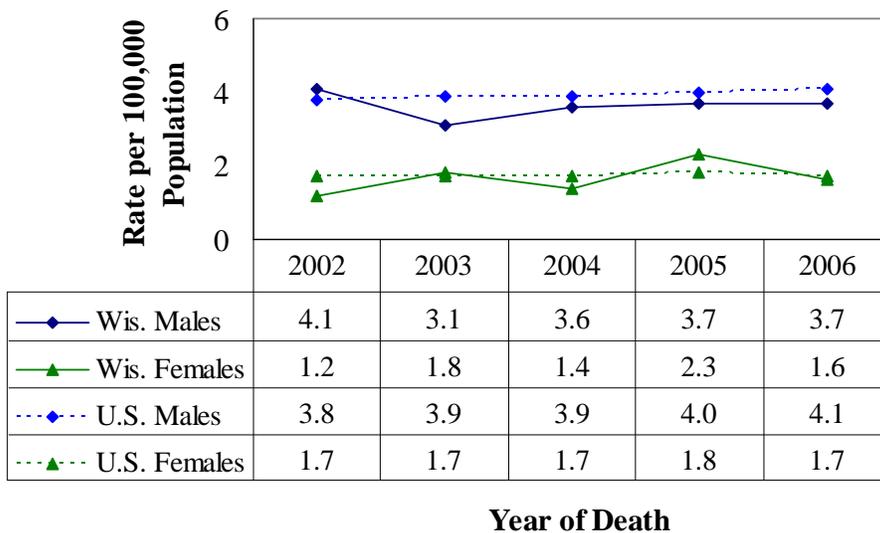
Figure 10.1 Melanoma of the Skin, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

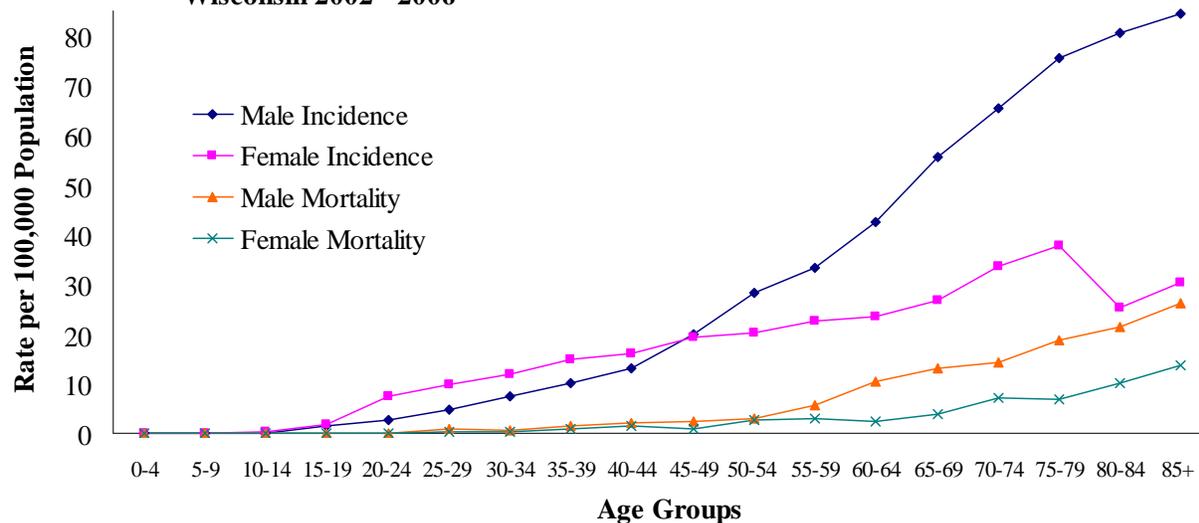
Figure 10.2 Melanoma of the Skin, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

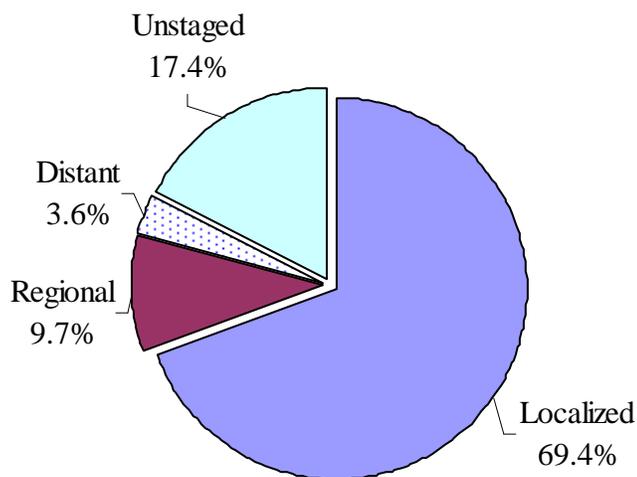
Figure 10.3. Melanoma of the Skin, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population (2002 - 2006) for each age group and sex.

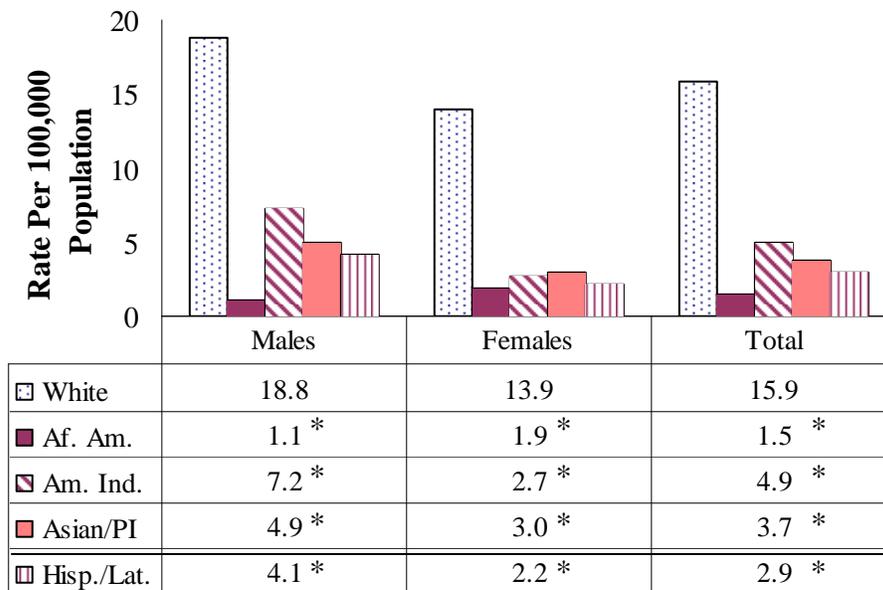
Figure 10.4. Melanoma of the Skin, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

Figure 10.5. Melanoma of the Skin, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006

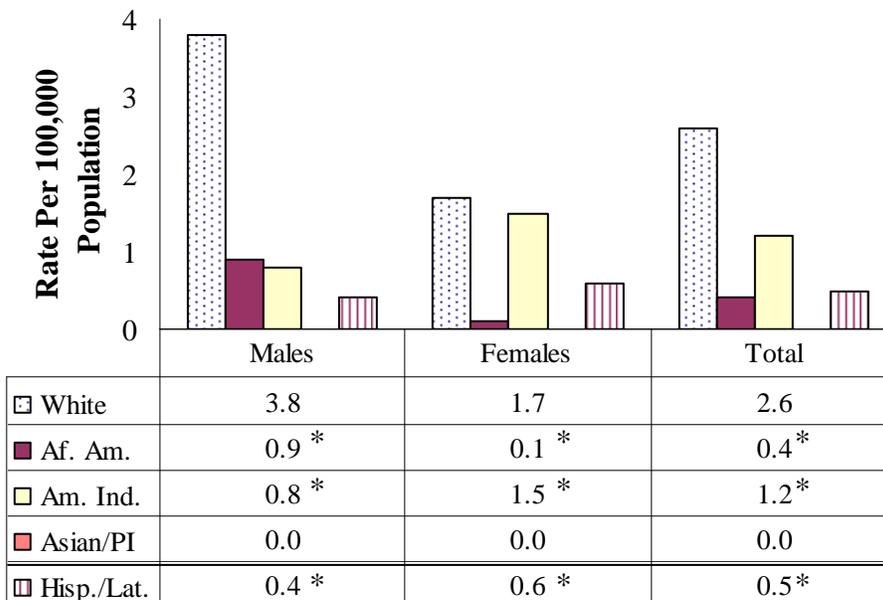


Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 10.6. Melanoma of the Skin, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 10.3. Melanoma of the Skin Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	15	10.5	5.7	18.0	0	0.0	0.0	3.9
Ashland	6	6.3	2.3	14.0	3	2.7	0.5	8.7
Barron	26	9.3	6.0	13.8	10	3.3	1.6	6.2
Bayfield	9	10.0	4.5	19.8	5	4.7	1.5	12.0
Brown	261	22.6	20.0	25.6	24	2.3	1.4	3.4
Buffalo	10	12.5	6.0	23.5	5	6.1	1.9	14.8
Burnett	9	7.0	3.2	14.3	5	4.1	1.3	10.6
Calumet	33	15.6	10.7	22.0	6	2.9	1.0	6.2
Chippewa	26	8.2	5.3	12.0	8	2.4	1.0	4.7
Clark	25	14.7	9.4	21.7	5	2.4	0.8	5.8
Columbia	38	12.8	9.0	17.6	7	2.3	0.9	4.8
Crawford	14	14.0	7.5	24.0	4	3.8	1.0	10.4
Dane	328	15.5	13.8	17.3	35	1.8	1.2	2.5
Dodge	60	12.8	9.7	16.5	13	2.7	1.4	4.6
Door	45	23.9	17.3	32.6	3	1.3	0.3	4.7
Douglas	18	7.7	4.6	12.3	6	2.5	0.9	5.5
Dunn	10	5.0	2.4	9.3	3	1.6	0.3	4.7
Eau Claire	33	7.2	5.0	10.2	8	1.8	0.8	3.5
Florence	0	0.0	0.0	16.8	0	0.0	0.0	16.8
Fond du Lac	144	27.6	23.3	32.6	13	2.5	1.3	4.3
Forest	5	10.6	3.3	24.9	4	5.4	1.5	15.4
Grant	38	14.1	9.9	19.5	8	2.9	1.2	5.9
Green	24	13.1	8.4	19.7	3	1.6	0.3	4.8
Green Lake	18	15.9	9.2	25.7	5	5.0	1.5	12.0
Iowa	12	9.4	4.8	16.5	3	2.5	0.5	7.3
Iron	4	6.5	1.7	21.5	0	0.0	0.0	13.4
Jackson	12	11.3	5.8	19.9	3	2.7	0.5	8.3
Jefferson	47	11.7	8.6	15.6	16	4.1	2.3	6.6
Juneau	16	11.0	6.2	18.1	3	2.2	0.5	6.5
Kenosha	78	10.4	8.2	13.0	20	2.7	1.6	4.2
Kewaunee	20	17.9	10.9	27.9	2	1.4	0.2	5.8
La Crosse	103	18.9	15.4	23.0	9	1.6	0.7	3.0
Lafayette	16	17.4	9.8	28.6	2	2.8	0.3	9.7
Langlade	14	10.8	5.7	18.7	5	3.1	1.0	8.1
Lincoln	34	18.9	13.0	26.7	7	3.8	1.5	8.0
Manitowoc	122	26.0	21.6	31.2	20	3.9	2.4	6.2
Marathon	98	14.8	12.0	18.0	7	0.9	0.4	2.0

Chapter 10: Melanoma of the Skin

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	36	14.1	9.8	19.8	10	3.4	1.6	6.6
Marquette	25	25.9	16.5	39.1	2	2.2	0.2	8.8
Menominee	3	15.1	3.0	46.1	0	0.0	0.0	21.7
Milwaukee	573	12.1	11.1	13.2	86	1.8	1.5	2.3
Monroe	28	12.5	8.3	18.1	8	3.7	1.6	7.3
Oconto	40	19.7	14.0	27.0	12	5.5	2.8	9.7
Oneida	27	11.1	7.2	16.6	4	1.9	0.5	5.3
Outagamie	124	14.7	12.3	17.6	26	3.1	2.0	4.5
Ozaukee	93	19.6	15.8	24.2	12	2.6	1.3	4.6
Pepin	4	9.5	2.6	25.0	2	5.4	0.6	19.6
Pierce	13	8.0	4.2	13.8	4	2.5	0.7	6.3
Polk	30	11.7	7.8	16.8	9	3.6	1.6	7.0
Portage	32	9.5	6.5	13.5	6	1.7	0.6	3.8
Price	14	15.5	8.2	26.9	4	3.3	0.9	9.8
Racine	139	14.1	11.9	16.7	23	2.3	1.5	3.5
Richland	18	17.0	9.9	27.2	3	2.7	0.6	8.3
Rock	143	18.0	15.2	21.3	21	2.7	1.7	4.1
Rusk	8	7.9	3.4	16.4	2	1.8	0.2	7.8
St. Croix	17	5.2	3.0	8.4	8	2.5	1.1	4.9
Sauk	23	7.2	4.6	10.9	4	1.1	0.3	3.0
Sawyer	8	8.0	3.3	16.3	4	3.3	0.9	9.3
Shawano	28	12.0	7.9	17.5	9	3.3	1.5	6.5
Sheboygan	155	25.8	21.9	30.2	23	3.7	2.4	5.6
Taylor	19	17.4	10.4	27.4	3	2.7	0.6	8.2
Trempealeau	21	13.7	8.4	21.1	2	1.2	0.1	4.6
Vernon	25	16.6	10.5	24.7	5	3.0	1.0	7.2
Vilas County	20	13.1	7.7	21.2	7	3.7	1.5	8.6
Walworth	111	22.2	18.2	26.8	20	4.0	2.4	6.2
Washburn	6	5.4	1.9	12.6	3	2.3	0.5	7.9
Washington	115	18.2	15.0	21.9	19	2.9	1.8	4.6
Waukesha	493	24.8	22.6	27.1	71	3.5	2.8	4.5
Waupaca	43	13.4	9.7	18.3	9	2.8	1.3	5.5
Waushara	14	9.4	5.0	16.2	2	1.2	0.1	4.9
Winnebago	114	13.8	11.3	16.6	22	2.6	1.6	4.0
Wood	55	12.9	9.7	16.8	15	3.4	1.9	5.7

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 11: Non-Hodgkin Lymphoma

Incidence

On average, from 2002 through 2006, 1,178 cases of non-Hodgkin lymphoma were diagnosed annually in Wisconsin. The age-adjusted incidence rate was higher among males (23.6 per 100,000 population) than females (17.6 per 100,000) (Table 11.1).

Twenty-two percent of non-Hodgkin lymphomas were diagnosed at the local stage (Figure 11.4). Eleven percent of cases had regional disease and 61 percent had distant disease at the time of diagnosis.

Whites had the highest age-adjusted incidence rate of non-Hodgkin lymphoma (20.4 per 100,000); American Indians had the second highest rate (14.5 per 100,000) (Figure 11.5). The rate for those of Hispanic/Latino ethnicity (of any race) was 17.5 per 100,000.

Mortality

From 2002 through 2006, approximately 445 Wisconsin residents died each year from non-Hodgkin lymphoma (Table 11.2).

The Wisconsin mortality rate for non-Hodgkin lymphoma was relatively stable from 2002 to 2006 (Table 11.2). The average annual percent increase was less than 1 percent.

The mortality rate for this cancer was highest among American Indians (7.8 per 100,000) and lowest among Asians/Pacific Islanders (2.1 per 100,000) (Figure 11.6).

Table 11.1. Non-Hodgkin Lymphoma Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	611	23.6	3.1%	566	17.6	2.0%	1,178	20.3	2.6%
2002	553	22.1	N/A	546	17.2	N/A	1,099	19.5	N/A
2003	553	21.9	N/A	534	16.9	N/A	1,087	19.0	N/A
2004	657	25.4	N/A	560	17.4	N/A	1,217	20.9	N/A
2005	619	23.4	N/A	597	18.4	N/A	1,216	20.6	N/A
2006	674	24.9	N/A	595	18.2	N/A	1,269	21.2	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

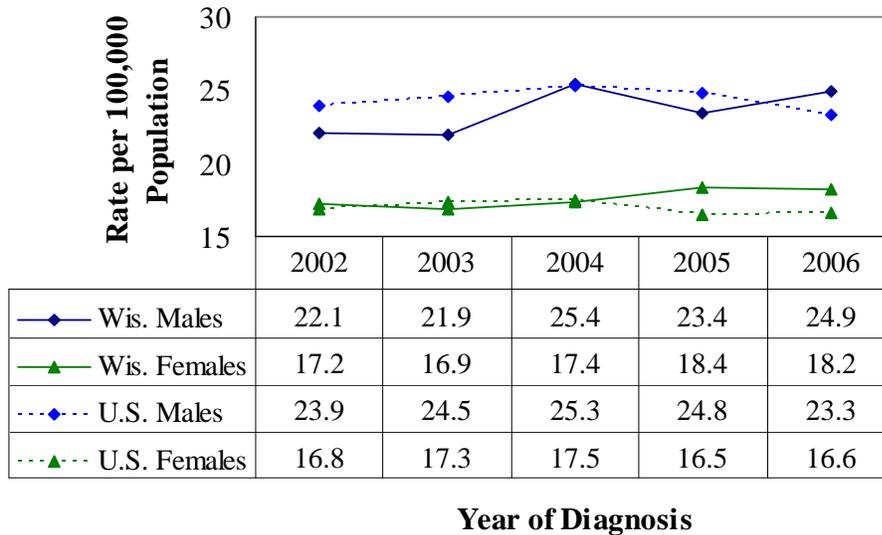
Table 11.2. Non-Hodgkin Lymphoma Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	231	9.4	1.1%	214	6.1	0.3%	445	7.5	0.9%
2002	218	9.2	N/A	209	6.2	N/A	427	7.4	N/A
2003	223	9.1	N/A	204	5.9	N/A	427	7.3	N/A
2004	234	9.5	N/A	213	6.2	N/A	447	7.6	N/A
2005	242	9.8	N/A	227	6.3	N/A	469	7.8	N/A
2006	238	9.4	N/A	218	6.0	N/A	456	7.5	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

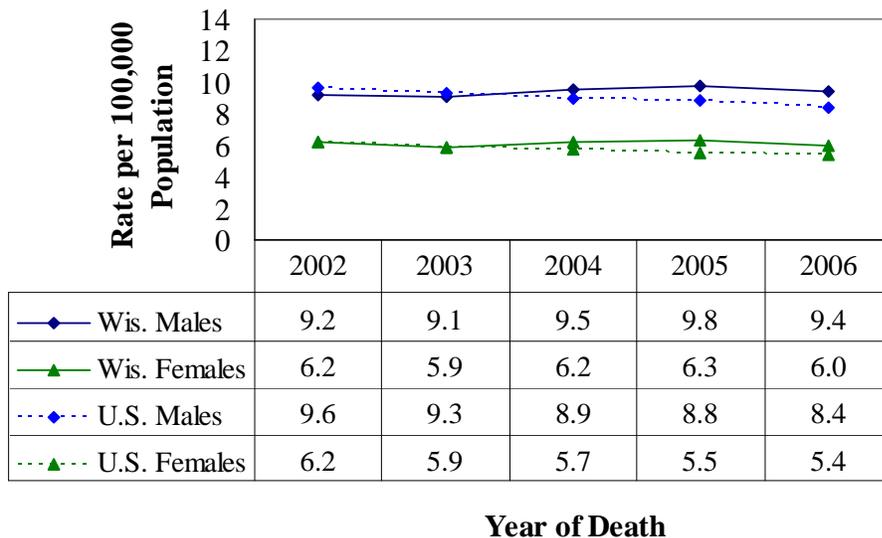
Figure 11.1. Non-Hodgkin Lymphoma, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

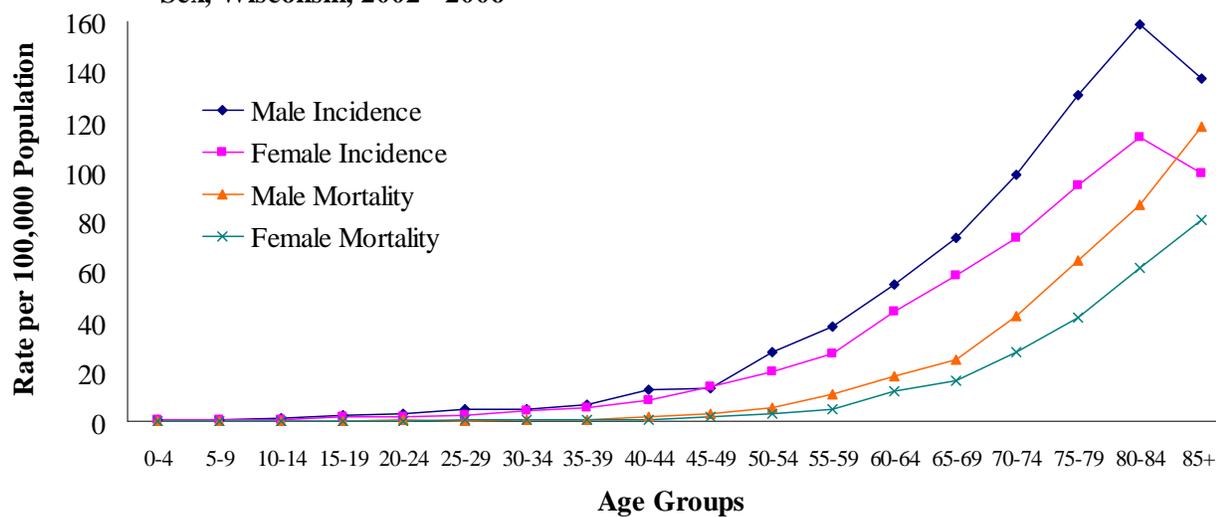
Figure 11.2. Non-Hodgkin Lymphoma, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

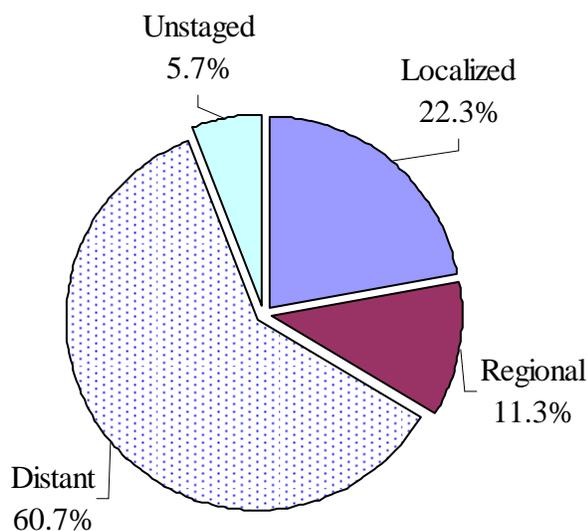
Figure 11.3. Non-Hodgkin Lymphoma, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population (2002-2006) for each age group and sex.

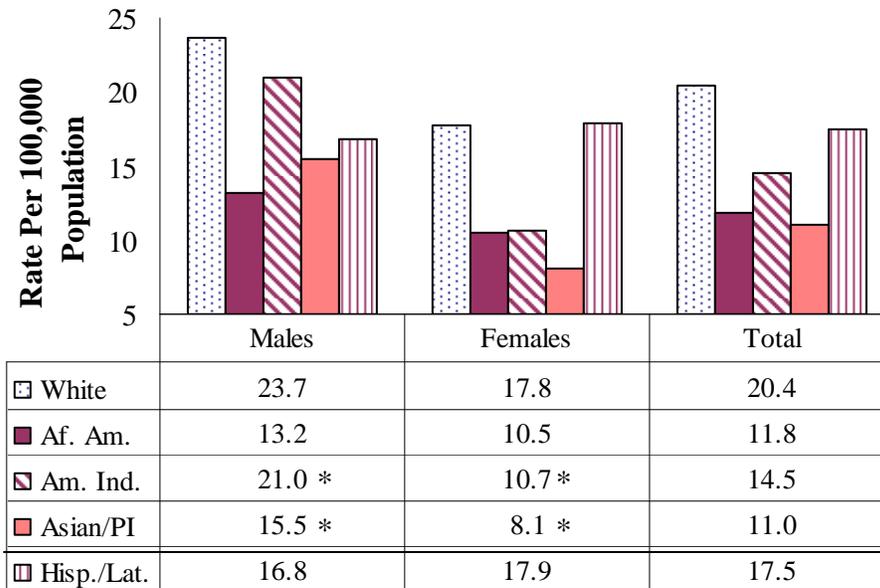
Figure 11.4. Non-Hodgkin Lymphoma, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

Figure 11.5. Non-Hodgkin Lymphoma, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006

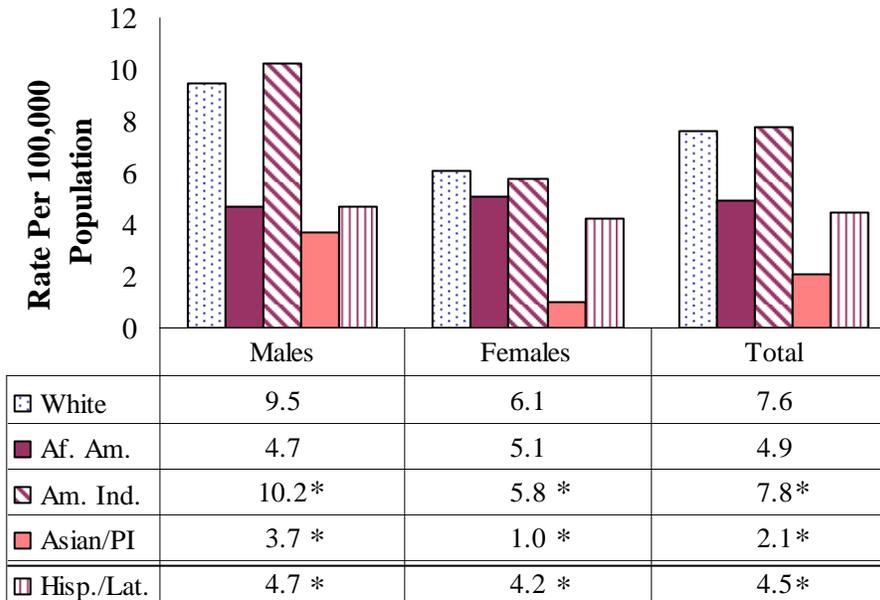


Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic /Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 11.6. Non-Hodgkin Lymphoma, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from the Hispanic /Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 11.3. Non-Hodgkin Lymphoma Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	19	12.4	7.4	20.2	2	1.6	0.2	6.6
Ashland	17	18.4	10.6	29.7	4	3.1	0.8	9.1
Barron	40	14.2	10.1	19.5	23	7.4	4.7	11.4
Bayfield	13	13.1	7.0	23.2	8	8.0	3.5	16.6
Brown	235	21.4	18.7	24.3	76	7.1	5.6	8.9
Buffalo	15	16.2	9.1	27.4	9	9.4	4.3	18.6
Burnett	14	11.5	6.3	20.2	7	5.7	2.3	12.7
Calumet	29	14.0	9.4	20.2	12	6.1	3.1	10.6
Chippewa	84	26.0	20.8	32.3	29	8.6	5.8	12.5
Clark	42	22.0	15.8	29.9	14	6.5	3.5	11.1
Columbia	53	17.6	13.2	23.1	17	5.4	3.1	8.8
Crawford	25	24.3	15.5	36.4	8	7.7	3.2	15.9
Dane	381	19.5	17.5	21.6	136	7.4	6.2	8.8
Dodge	99	20.4	16.6	24.9	49	9.7	7.2	13.0
Door	59	27.3	20.8	35.6	13	5.9	3.1	10.7
Douglas	44	18.0	13.1	24.3	13	5.2	2.8	9.0
Dunn	24	12.5	7.9	18.6	13	6.2	3.3	10.8
Eau Claire	78	16.7	13.2	20.9	36	7.4	5.2	10.4
Florence	5	15.5	4.8	39.7	3	8.2	1.7	28.5
Fond du Lac	112	20.4	16.8	24.6	55	9.5	7.2	12.5
Forest	11	16.9	8.2	31.5	8	12.3	5.1	25.4
Grant	51	18.2	13.5	24.1	21	6.3	3.9	9.8
Green	40	20.5	14.6	28.0	14	6.8	3.7	11.5
Green Lake	26	20.0	12.9	29.9	18	13.0	7.7	21.1
Iowa	14	11.0	6.0	18.6	3	2.3	0.5	6.9
Iron	11	21.4	10.0	42.4	4	6.4	1.7	21.4
Jackson	22	20.8	13.0	31.7	3	2.8	0.6	8.4
Jefferson	71	17.5	13.7	22.1	40	9.6	6.9	13.2
Juneau	44	29.1	21.1	39.4	20	12.2	7.4	19.1
Kenosha	146	19.5	16.4	22.9	53	7.3	5.4	9.5
Kewaunee	37	30.9	21.7	42.9	17	13.1	7.5	21.3
La Crosse	120	21.9	18.2	26.2	36	6.3	4.4	8.7
Lafayette	15	15.5	8.7	25.9	6	6.1	2.2	13.7
Langlade	36	24.9	17.3	35.2	19	11.8	7.1	19.0
Lincoln	43	23.0	16.6	31.3	16	8.1	4.6	13.4
Manitowoc	93	18.8	15.1	23.1	33	6.2	4.3	8.8
Marathon	167	24.2	20.7	28.2	48	6.6	4.9	8.8

Chapter 11: Non-Hodgkin Lymphoma

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	44	15.9	11.4	21.7	22	7.3	4.5	11.3
Marquette	20	19.6	11.7	31.1	3	2.7	0.5	8.9
Menominee	1	6.5	0.2	34.2	3	18.8	3.5	54.8
Milwaukee	986	20.9	19.6	22.3	373	7.7	7.0	8.6
Monroe	57	24.7	18.7	32.1	20	8.7	5.3	13.5
Oconto	45	21.2	15.4	28.5	15	7.0	3.9	11.7
Oneida	57	22.4	16.9	29.4	25	9.7	6.3	14.7
Outagamie	175	21.8	18.6	25.3	67	8.2	6.4	10.4
Ozaukee	103	21.5	17.5	26.2	27	5.8	3.8	8.5
Pepin	8	18.0	7.8	36.3	3	5.6	1.1	18.4
Pierce	19	11.9	7.1	18.6	11	7.8	3.9	13.8
Polk	46	18.1	13.2	24.2	17	6.6	3.8	10.7
Portage	76	23.8	18.8	29.9	19	6.1	3.7	9.6
Price	17	15.5	9.0	25.8	6	5.4	1.9	12.8
Racine	193	19.7	17.0	22.7	63	6.5	5.0	8.3
Richland	26	23.8	15.4	35.5	9	7.3	3.3	14.5
Rock	148	18.3	15.5	21.5	71	8.7	6.8	11.0
Rusk	23	22.7	14.2	34.8	12	11.0	5.6	20.2
St. Croix	50	16.0	11.8	21.2	25	8.2	5.3	12.1
Sauk	55	16.9	12.7	22.1	23	6.9	4.4	10.5
Sawyer	25	21.6	14.0	32.5	9	7.7	3.5	15.2
Shawano	46	18.8	13.7	25.3	23	8.4	5.3	12.7
Sheboygan	115	18.4	15.1	22.1	42	6.5	4.6	8.8
Taylor	24	21.6	13.8	32.5	6	4.5	1.6	10.5
Trempealeau	30	18.2	12.2	26.2	12	6.7	3.4	12.1
Vernon	42	23.0	16.5	31.5	17	8.4	4.9	13.8
Vilas	28	15.0	9.9	22.5	9	4.4	2.0	9.3
Walworth	109	21.7	17.8	26.2	38	7.4	5.2	10.2
Washburn	18	18.6	10.6	30.5	11	8.7	4.3	16.4
Washington	156	25.2	21.3	29.5	53	8.7	6.5	11.4
Waukesha	464	23.3	21.2	25.5	178	9.1	7.8	10.6
Waupaca	68	20.8	16.1	26.5	34	9.8	6.7	13.9
Waushara	29	19.1	12.6	27.8	11	6.4	3.2	11.9
Winnebago	150	18.6	15.7	21.8	60	7.3	5.6	9.4
Wood	100	21.4	17.4	26.2	23	4.3	2.7	6.6

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 12: Cancer of the Ovary

Incidence

From 2002 to 2006, 487 women annually were diagnosed with ovarian cancer in Wisconsin (Table 12.1). The Wisconsin age-adjusted incidence rates of ovarian cancer were higher than national rates for four of those five years (Figure 12.1).

During this five-year period, the Wisconsin incidence rate increased by an annual average of 6 percent, from 13.6 per 100,000 to 17.3 per 100,000 female population (Figure 12.1).

Cancer of the ovary was diagnosed at the local stage of disease in 16 percent of cases, and at a regional or distant stage in 72 percent of cases (Figure 12.4).

The highest age-adjusted ovarian cancer incidence rate by ethnicity was that of Hispanics/Latinas (of any race), at 17.8 per 100,000. Among the racial groups, the highest ovarian cancer incidence rate was that of whites (15.9 per 100,000) and the lowest rate was that of American Indians (5.1 per 100,000) (Figure 12.5).

Mortality

Ovarian cancer was the fifth leading cause of cancer mortality for Wisconsin females (Figure 1.8), with an annual average of 304 deaths each year (Table 12.2).

Ovarian cancer was the second leading cause of cancer mortality among women aged 15-24, the fourth leading cause of cancer mortality among women aged 25-44, and the third leading cause of cancer mortality among women aged 45-64 (Table 1.5).

Ovarian cancer mortality rates varied by race, ranging from 9.5 per 100,000 female population among white women to 3.6 per 100,000 among American Indian women. Hispanic/Latina women (of any race) had an ovarian cancer mortality rate of 5.7 per 100,000 (Figure 12.6).

Table 12.1. Ovarian Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Diagnosis	Number of Cases	Age-Adj. Rate	APC
Annual Average 2002-2006	487	15.7	5.7%
2002	409	13.6	N/A
2003	469	15.3	N/A
2004	486	15.6	N/A
2005	521	16.6	N/A
2006	549	17.3	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin female population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

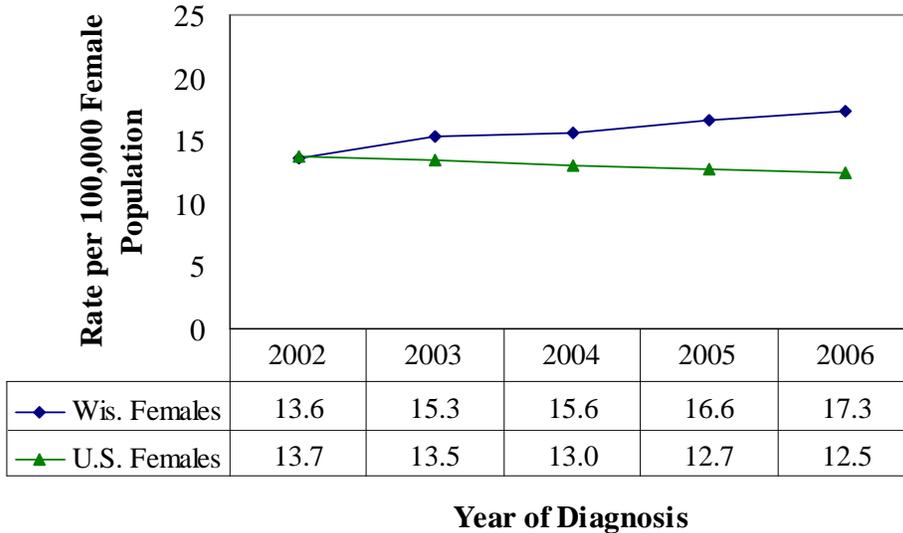
Table 12.2. Ovarian Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Death	Number of Deaths	Age-Adj. Rate	APC
Annual Average 2002-2006	304	9.3	1.2%
2002	299	9.5	N/A
2003	289	8.8	N/A
2004	289	9.0	N/A
2005	318	9.7	N/A
2006	326	9.7	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin female population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

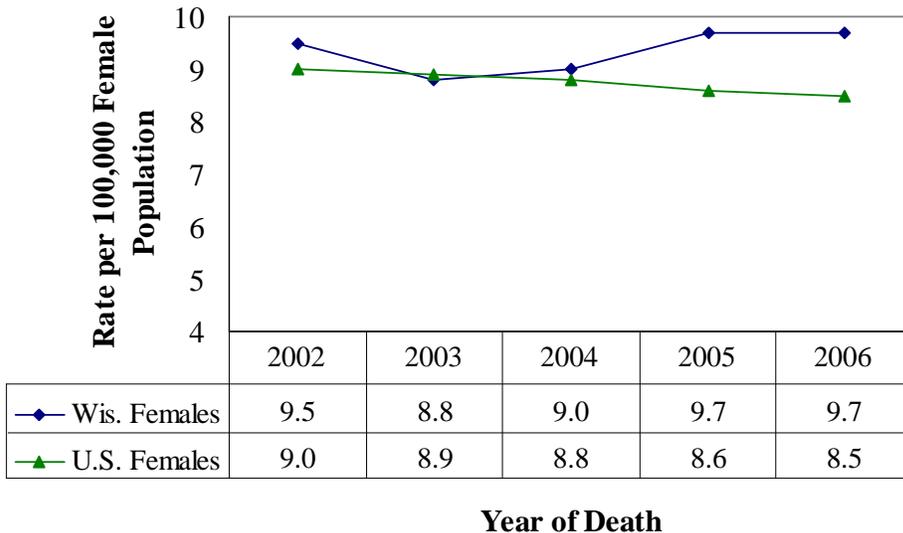
Figure 12.1. Ovarian Cancer, Age-Adjusted Incidence Rates, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 female population, and are age-adjusted to the 2000 U.S. standard population.

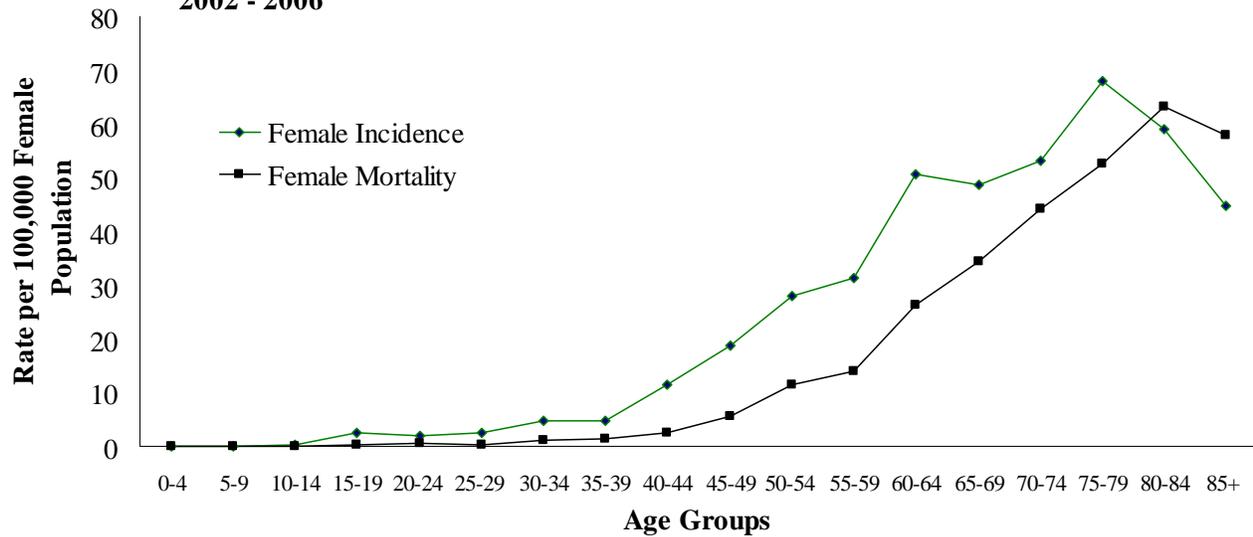
Figure 12.2. Ovarian Cancer, Age-Adjusted Mortality Rates, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 female population, and are age-adjusted to the 2000 U.S. standard population.

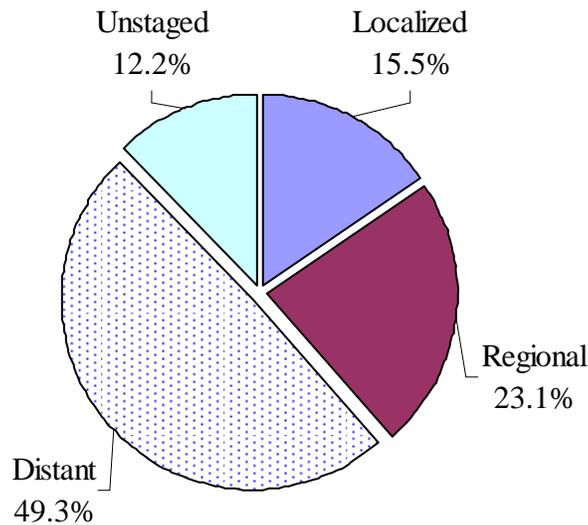
Figure 12.3. Ovarian Cancer, Age-Specific Incidence and Mortality Rates, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 female population (2002-2006) for each age group.

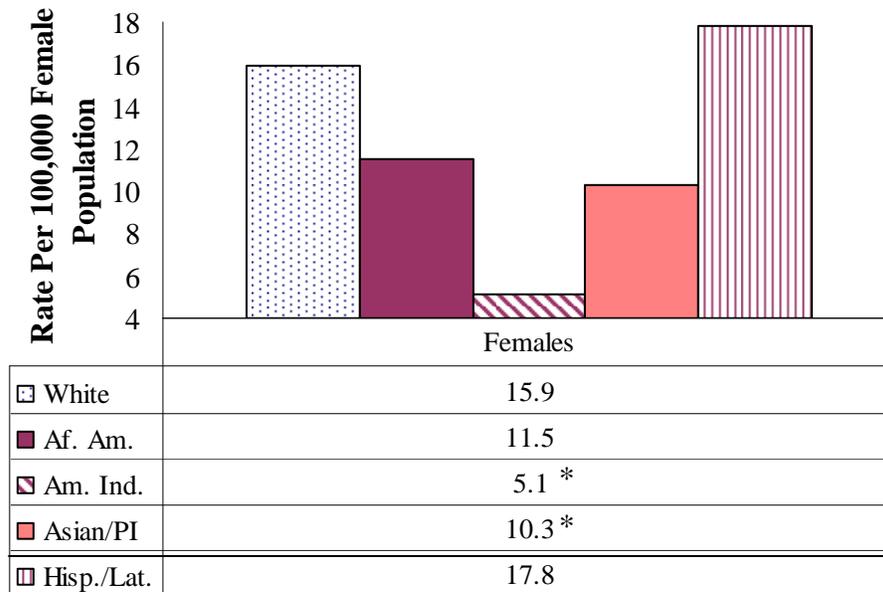
Figure 12.4. Ovarian Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

Figure 12.5. Ovarian Cancer, Age-Adjusted Incidence Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006

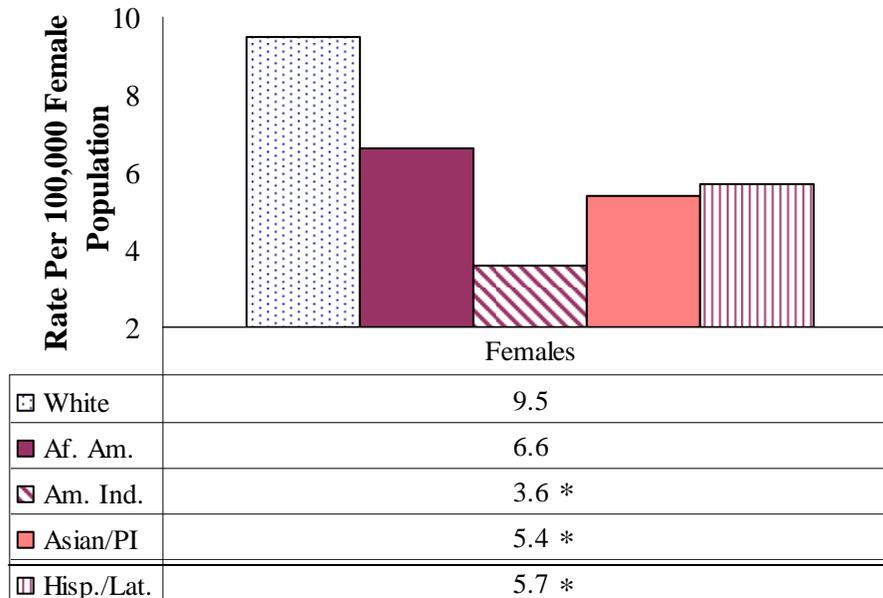


Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 female population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 12.6. Ovarian Cancer, Age-Adjusted Mortality Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 female population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 12.3. Ovarian Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	7	10.1	3.9	22.6	7	10.4	4.1	23.1
Ashland	8	16.5	7.1	33.1	4	7.4	2.0	20.2
Barron	26	16.7	10.8	25.1	10	6.0	2.7	11.8
Bayfield	3	6.2	1.2	20.4	5	9.8	3.1	25.1
Brown	91	15.2	12.2	18.7	58	9.3	7.0	12.1
Buffalo	2	5.8	0.7	21.4	3	7.0	1.4	21.9
Burnett	7	11.0	4.3	24.9	4	6.5	1.8	19.0
Calumet	18	16.5	9.7	26.2	14	12.8	6.9	21.5
Chippewa	26	15.1	9.8	22.4	17	9.6	5.5	15.6
Clark	17	18.6	10.7	30.2	10	8.7	4.0	16.8
Columbia	21	13.3	8.2	20.6	15	9.2	5.1	15.5
Crawford	8	14.1	6.0	29.3	4	6.2	1.6	18.1
Dane	174	15.7	13.5	18.3	112	10.7	8.8	13.0
Dodge	27	10.6	6.9	15.6	30	10.8	7.2	15.8
Door	17	14.7	8.5	24.8	8	7.0	2.9	15.2
Douglas	16	12.2	6.9	20.0	10	7.4	3.5	13.9
Dunn	6	6.3	2.3	13.8	5	4.2	1.3	10.4
Eau Claire	23	8.9	5.6	13.5	21	7.5	4.6	11.7
Florence	2	15.3	1.6	60.7	3	15.6	3.2	56.1
Fond du Lac	51	18.7	13.8	24.6	24	7.6	4.8	11.6
Forest	5	15.8	4.8	39.6	4	11.6	2.9	32.9
Grant	20	13.6	8.2	21.4	15	8.9	4.9	15.3
Green	16	16.0	9.1	26.3	12	11.2	5.7	20.0
Green Lake	11	17.9	8.5	33.6	8	9.2	3.7	20.5
Iowa	8	13.1	5.6	26.0	9	13.7	6.2	26.5
Iron	1	4.6	0.1	33.5	2	5.5	0.6	33.2
Jackson	3	5.6	1.0	17.3	5	8.7	2.8	21.2
Jefferson	28	13.5	9.0	19.6	15	6.8	3.8	11.3
Juneau	17	22.2	12.6	36.5	10	11.3	5.3	21.7
Kenosha	65	15.8	12.2	20.2	46	10.7	7.8	14.4
Kewaunee	10	15.0	7.1	28.7	7	9.7	3.8	21.3
La Crosse	47	15.4	11.3	20.7	27	8.6	5.6	12.7
Lafayette	9	21.1	9.4	40.9	5	9.3	3.0	23.1
Langlade	14	19.9	10.6	34.8	9	12.5	5.4	25.3
Lincoln	15	15.7	8.6	26.5	12	12.1	6.1	22.0
Manitowoc	48	18.6	13.6	25.0	26	9.2	6.0	13.8
Marathon	55	15.6	11.7	20.4	37	9.8	6.9	13.7

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	26	18.0	11.6	27.0	24	14.2	8.9	22.0
Marquette	9	18.3	8.1	36.4	4	7.5	2.0	21.5
Menominee	1	8.2	0.2	54.8	0	0.0	0.0	41.9
Milwaukee	394	15.0	13.6	16.6	244	9.0	7.9	10.2
Monroe	14	13.4	7.3	22.6	6	4.9	1.8	11.0
Oconto	14	12.9	7.0	22.0	9	7.6	3.4	14.9
Oneida	28	22.6	14.8	33.6	15	10.5	5.8	18.1
Outagamie	77	17.6	13.9	22.0	46	10.3	7.5	13.8
Ozaukee	38	15.0	10.5	20.9	32	12.1	8.3	17.3
Pepin	6	23.7	8.3	55.4	3	10.8	2.0	36.8
Pierce	10	11.4	5.4	21.1	3	2.9	0.6	9.0
Polk	22	17.5	10.9	26.7	17	13.4	7.8	21.8
Portage	29	16.9	11.3	24.4	11	6.5	3.2	11.7
Price	9	13.8	6.1	29.2	7	11.0	4.3	25.7
Racine	83	15.7	12.5	19.5	48	9.0	6.6	12.0
Richland	11	18.8	9.2	34.7	4	6.0	1.6	17.1
Rock	77	17.8	14.0	22.3	42	9.1	6.5	12.3
Rusk	10	18.6	8.7	35.9	3	6.0	1.2	19.4
St. Croix	22	11.9	7.4	18.1	11	5.9	2.9	10.7
Sauk	28	15.4	10.1	22.7	26	12.8	8.2	19.3
Sawyer	8	13.4	5.8	28.1	7	13.0	5.1	28.1
Shawano	15	12.4	6.9	20.8	18	12.5	7.3	20.3
Sheboygan	62	19.0	14.5	24.5	38	11.1	7.8	15.5
Taylor	10	17.7	8.3	33.2	2	3.8	0.5	14.1
Trempealeau	16	18.4	10.3	30.6	10	11.6	5.4	22.0
Vernon	12	13.6	6.9	24.3	9	7.6	3.4	15.7
Vilas	23	22.1	13.9	35.0	5	6.1	1.6	16.7
Walworth	57	21.0	15.9	27.3	35	12.5	8.6	17.4
Washburn	8	13.2	5.6	28.0	7	10.7	4.2	24.2
Washington	60	17.7	13.5	22.8	24	7.1	4.5	10.6
Waukesha	198	18.0	15.5	20.7	117	10.5	8.7	12.6
Waupaca	20	12.4	7.5	19.6	19	10.2	6.0	16.5
Waushara	9	10.0	4.5	20.2	8	9.0	3.9	19.0
Winnebago	77	18.0	14.2	22.5	39	9.1	6.4	12.5
Wood	29	12.3	8.2	17.9	15	5.6	3.1	9.5

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 female population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 13: Cancer of the Pancreas

Incidence

On average in 2002-2006, 666 cases of pancreatic cancer were diagnosed annually in Wisconsin (Table 13.1).

Age-adjusted incidence rates for pancreatic cancer in Wisconsin were similar to U.S. incidence rates (Figure 13.1).

The majority of pancreatic cancers (73%) were diagnosed at the later stages of disease, either regional or distant. A relatively high proportion of cases (18%) were reported as unknown in stage at the time of diagnosis (Figure 13.4).

In Wisconsin during 2002-2006, African Americans experienced the highest incidence rate of pancreatic cancer (16.2 per 100,000 population), followed by whites (11.2 per 100,000) and American Indians (10.3 per 100,000). Hispanics/Latinos (of any race) experienced an incidence rate of 11.6 per 100,000 population (Figure 13.5).

Mortality

From 2002 through 2006, more than 650 Wisconsin residents died annually from pancreatic cancer (Table 13.2).

Males had a higher age-adjusted mortality rate (12.7 per 100,000 population) than females (9.7 per 100,000) (Table 13.2).

African Americans had the highest pancreatic cancer mortality rate (16.0 per 100,000), followed by American Indians (12.5 per 100,000), whites (11.0 per 100,000) and Asians/Pacific Islanders (7.5 per 100,000). Hispanics/Latinos (of any race) had a pancreatic cancer mortality rate of 6.4 per 100,000 (Figure 13.6).

During 2002-2006, pancreatic cancer mortality rates in Wisconsin were similar to national rates (Figure 13.2).

Table 13.1. Pancreatic Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	333	13.1	-1.2%	333	10.0	-0.2%	666	11.4	-0.8%
2002	321	13.1	N/A	348	10.6	N/A	669	11.7	N/A
2003	335	13.5	N/A	348	10.3	N/A	683	11.8	N/A
2004	344	13.4	N/A	285	8.6	N/A	629	10.8	N/A
2005	328	12.4	N/A	332	9.9	N/A	660	11.1	N/A
2006	339	12.9	N/A	354	10.6	N/A	693	11.6	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

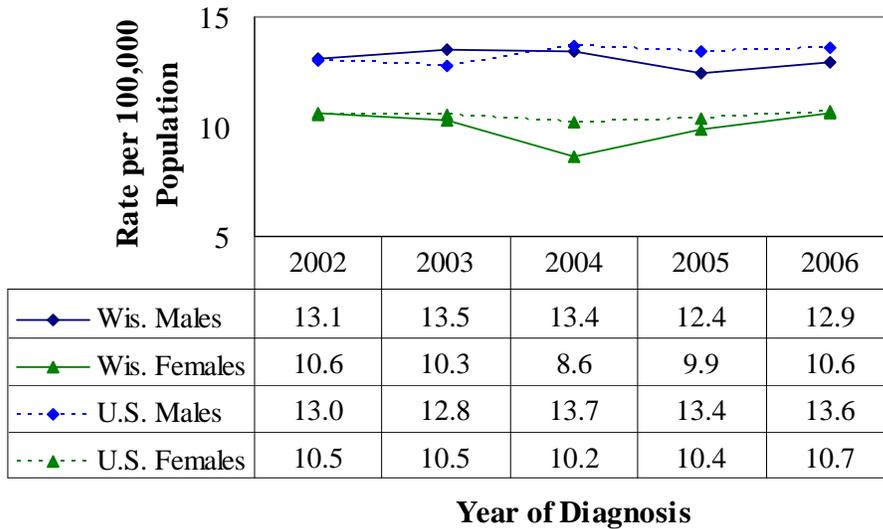
Table 13.2. Pancreatic Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	322	12.7	0.1%	331	9.7	-1.0%	654	11.1	-0.5%
2002	316	12.8	N/A	345	10.4	N/A	661	11.6	N/A
2003	313	12.7	N/A	321	9.5	N/A	634	10.9	N/A
2004	314	12.4	N/A	327	9.5	N/A	641	10.9	N/A
2005	332	12.8	N/A	317	9.1	N/A	649	10.9	N/A
2006	336	12.8	N/A	347	10.1	N/A	683	11.3	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

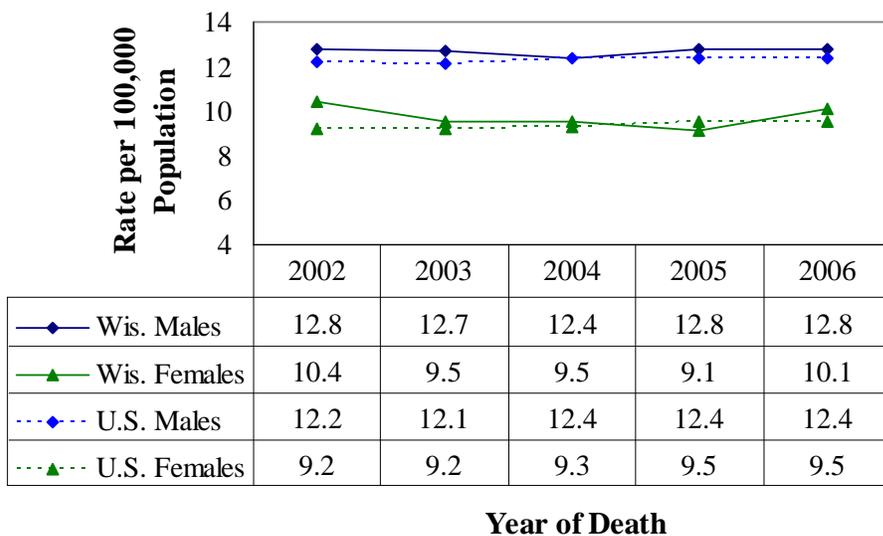
Figure 13.1 Pancreatic Cancer, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

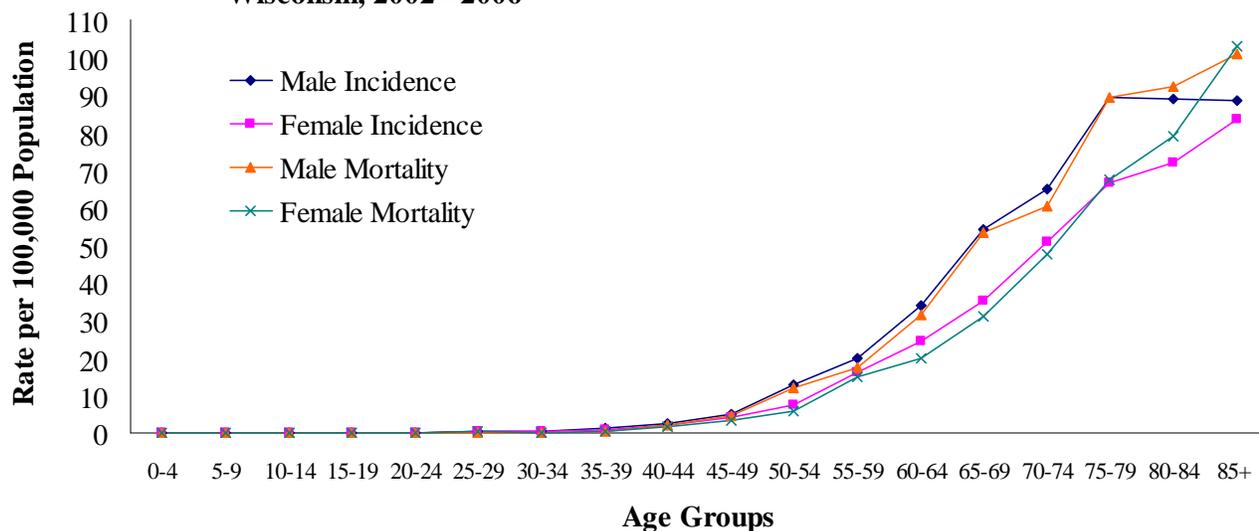
Figure 13.2 Pancreatic Cancer, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, , 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

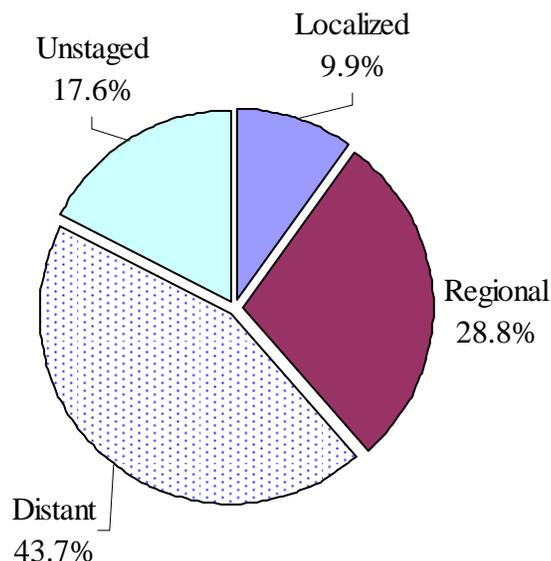
Figure 13.3. Pancreatic Cancer, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population (2002-2006) for each age group and sex.

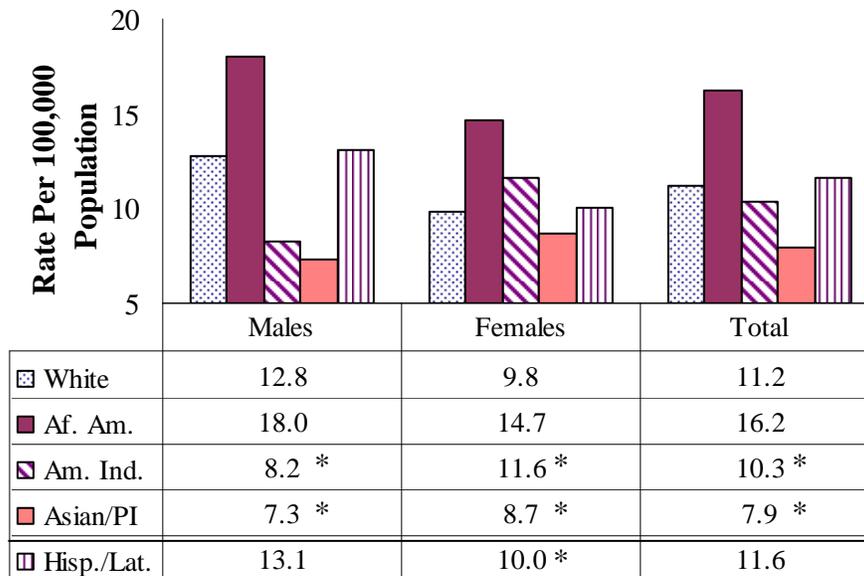
Figure 13.4. Pancreatic Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

Figure 13.5. Pancreatic Cancer, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin 2002 - 2006

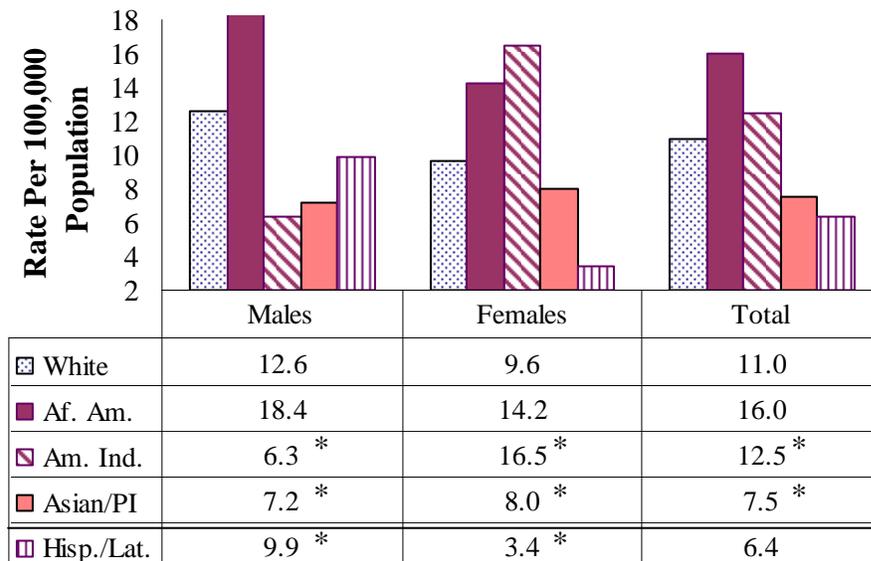


Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are cases per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 13.6. Pancreatic Cancer, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 13.3. Pancreatic Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	20	13.1	7.9	21.0	19	12.9	7.7	20.8
Ashland	8	8.0	3.4	16.2	9	8.9	4.0	17.5
Barron	34	11.1	7.6	15.7	35	11.1	7.7	15.7
Bayfield	12	11.3	5.8	20.6	13	12.8	6.8	22.6
Brown	110	10.1	8.3	12.1	111	10.2	8.3	12.2
Buffalo	13	14.3	7.6	25.1	13	13.9	7.4	24.4
Burnett	9	7.2	3.3	14.7	16	12.6	7.2	21.3
Calumet	13	6.4	3.4	10.9	19	9.8	5.8	15.2
Chippewa	37	11.3	7.9	15.6	40	11.8	8.4	16.1
Clark	28	13.6	9.0	19.8	25	11.5	7.4	17.3
Columbia	38	12.0	8.5	16.6	34	10.7	7.4	15.0
Crawford	10	8.9	4.2	16.9	9	7.5	3.4	14.9
Dane	225	12.2	10.6	13.9	209	11.4	9.9	13.1
Dodge	46	9.3	6.8	12.4	45	9.0	6.6	12.1
Door	25	12.2	7.9	18.6	22	10.1	6.3	15.8
Douglas	30	12.3	8.3	17.7	33	13.2	9.0	18.6
Dunn	27	14.9	9.8	21.7	24	12.8	8.2	19.0
Eau Claire	51	10.8	8.1	14.3	55	11.6	8.7	15.2
Florence	0	0.0	0.0	16.8	3	8.1	1.7	28.2
Fond du Lac	52	9.2	6.9	12.2	60	10.4	7.9	13.4
Forest	9	12.4	5.7	24.8	8	10.7	4.6	22.5
Grant	29	9.8	6.6	14.2	29	9.6	6.4	14.0
Green	26	12.5	8.1	18.6	24	11.5	7.3	17.4
Green Lake	24	17.7	11.2	26.9	28	20.2	13.3	29.9
Iowa	15	12.5	7.0	20.7	13	10.6	5.6	18.2
Iron	8	16.1	6.8	35.1	6	11.4	4.1	28.6
Jackson	13	11.5	6.1	19.9	12	10.7	5.5	18.9
Jefferson	49	12.4	9.1	16.4	52	13.2	9.9	17.4
Juneau	20	12.3	7.5	19.3	14	8.5	4.6	14.6
Kenosha	80	10.7	8.5	13.4	94	12.6	10.2	15.4
Kewaunee	13	11.2	6.0	19.4	10	8.1	3.9	15.3
La Crosse	59	10.5	8.0	13.6	51	9.2	6.8	12.1
Lafayette	13	12.6	6.7	22.0	11	10.9	5.4	20.0
Langlade	22	14.8	9.2	23.0	21	14.2	8.7	22.3
Lincoln	24	12.2	7.8	18.5	22	11.2	7.0	17.3
Manitowoc	68	13.6	10.6	17.4	57	11.1	8.4	14.5
Marathon	77	11.0	8.7	13.8	78	11.0	8.7	13.8

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	23	7.9	5.0	12.0	32	10.7	7.3	15.4
Marquette	18	17.9	10.4	29.2	14	13.1	7.1	22.7
Menominee	0	0.0	0.0	21.7	0	0.0	0.0	21.7
Milwaukee	635	13.6	12.5	14.7	600	12.7	11.7	13.8
Monroe	28	11.5	7.6	16.7	27	11.0	7.2	16.1
Oconto	17	7.8	4.5	12.6	14	6.4	3.5	10.9
Oneida	36	12.8	9.0	18.1	30	10.7	7.2	15.7
Outagamie	86	10.9	8.7	13.5	76	9.7	7.6	12.1
Ozaukee	50	10.5	7.8	14.0	54	11.6	8.7	15.1
Pepin	5	12.1	3.9	28.8	6	13.9	5.0	31.2
Pierce	15	8.9	4.9	14.7	17	10.2	5.9	16.4
Polk	22	8.0	5.0	12.3	27	9.7	6.4	14.3
Portage	27	8.4	5.5	12.3	29	8.9	6.0	12.9
Price	16	14.1	8.0	23.8	14	12.0	6.5	21.2
Racine	114	11.5	9.5	13.9	117	11.9	9.8	14.3
Richland	10	8.6	4.1	16.3	10	8.4	4.0	15.9
Rock	79	9.8	7.8	12.2	75	9.2	7.3	11.6
Rusk	13	12.2	6.5	21.6	14	12.7	6.9	22.2
St. Croix	43	13.2	9.5	17.8	46	14.3	10.4	19.2
Sauk	26	7.7	5.0	11.3	30	8.8	5.9	12.7
Sawyer	9	7.5	3.4	14.9	9	7.8	3.5	15.4
Shawano	30	10.9	7.4	15.8	25	9.0	5.8	13.4
Sheboygan	69	10.9	8.5	13.9	62	9.7	7.4	12.4
Taylor	8	6.3	2.7	12.9	8	6.0	2.5	12.4
Trempealeau	11	6.4	3.2	11.8	22	12.5	7.8	19.2
Vernon	13	7.2	3.8	12.5	17	9.3	5.4	15.2
Vilas	26	13.1	8.5	19.9	19	9.7	5.8	16.0
Walworth	51	10.2	7.6	13.4	42	8.5	6.1	11.5
Washburn	12	10.0	5.1	18.2	14	11.2	6.1	19.7
Washington	80	12.6	10.0	15.7	71	11.3	8.8	14.3
Waukesha	235	11.7	10.3	13.3	212	10.7	9.3	12.2
Waupaca	31	9.5	6.4	13.6	32	9.5	6.5	13.6
Waushara	21	11.9	7.4	18.6	25	14.7	9.5	22.0
Winnebago	88	10.7	8.6	13.2	108	13.1	10.7	15.8
Wood	50	10.7	7.9	14.2	46	9.7	7.1	13.1

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 14: Prostate Cancer

Incidence

During 2002-2006, more than 4,100 Wisconsin men annually were diagnosed with prostate cancer (Table 14.1). It was the most commonly diagnosed cancer in Wisconsin males (Figure 1.7).

The majority of prostate cancer cases (78%) were diagnosed at the early (localized) stage of disease (Figure 14.4).

Prostate cancer was rarely diagnosed before age 40. Incidence increased dramatically with age and peaked at ages 70-74 (Figure 14.3).

Among racial groups, African American males had the highest age-adjusted incidence rate (245.1 per 100,000 male population) and Asian/Pacific Islander males had the lowest incidence rate (65.4 per 100,000). Hispanic/Latino males (of any race) had an incidence rate of 107.9 per 100,000 (Figure 14.5).

Mortality

Prostate cancer is second only to lung cancer as a cause of cancer deaths among Wisconsin males (Figure 1.7), with an average of 636 deaths attributed to prostate cancer each year from 2002 to 2006 (Table 14.2).

Parallel to prostate cancer incidence, the highest age-adjusted mortality rate was among African Americans (48.2 per 100,000) and the lowest was among Asians/Pacific Islanders (4.7 per 100,000). Men of Hispanic/Latino ethnicity (of any race) experienced a low prostate cancer mortality rate, 4.8 per 100,000 (Figure 14.6).

From 2002 to 2006, Wisconsin's prostate cancer mortality rate decreased by an average annual of 5 percent (from 30.0 to 24.0 per 100,000) (Table 14.2).

In 2006, the prostate cancer mortality rate in Wisconsin (24.0 per 100,000) was similar to the national rate (23.6 per 100,000) (Figure 14.2).

Table 14.1. Prostate Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Diagnosis	Number of Cases	Age-Adj. Rate	APC
Annual Average 2002-2006	4,116	156.9	-3.7%
2002	4,238	169.3	N/A
2003	4,013	156.9	N/A
2004	4,336	164.9	N/A
2005	4,092	152.4	N/A
2006	3,900	142.1	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin male population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

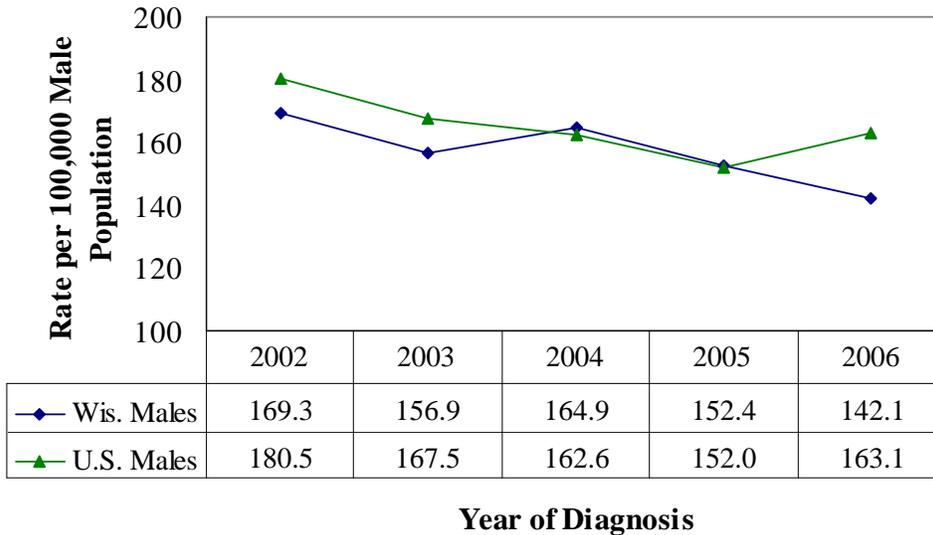
Table 14.2. Prostate Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), Wisconsin, 2002 – 2006

Year of Death	Number of Deaths	Age-Adj. Rate	APC
Annual Average 2002-2006	636	27.8	-5.1%
2002	660	30.0	N/A
2003	668	29.5	N/A
2004	654	28.8	N/A
2005	629	26.9	N/A
2006	571	24.0	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin male population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

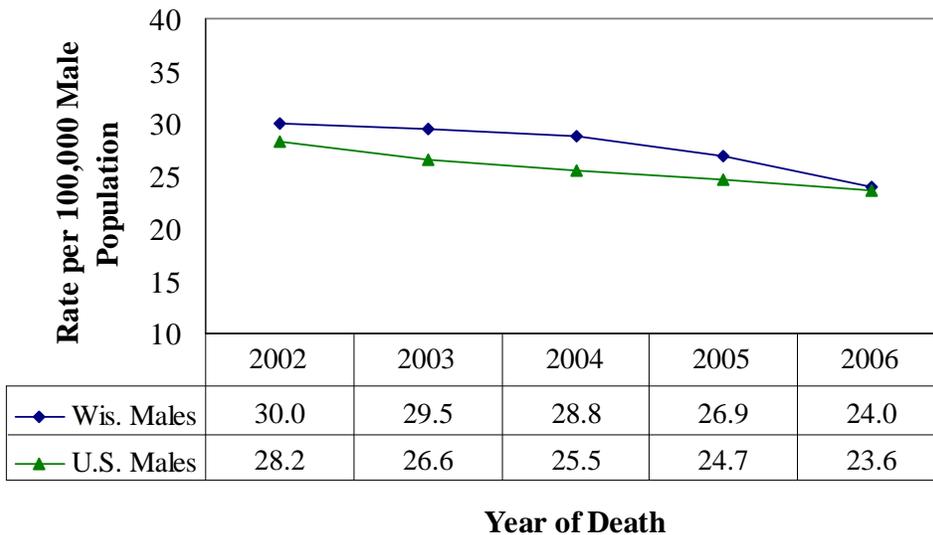
Figure 14.1. Prostate Cancer, Age-Adjusted Incidence Rates, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 male population, and are age-adjusted to the 2000 U.S. standard population.

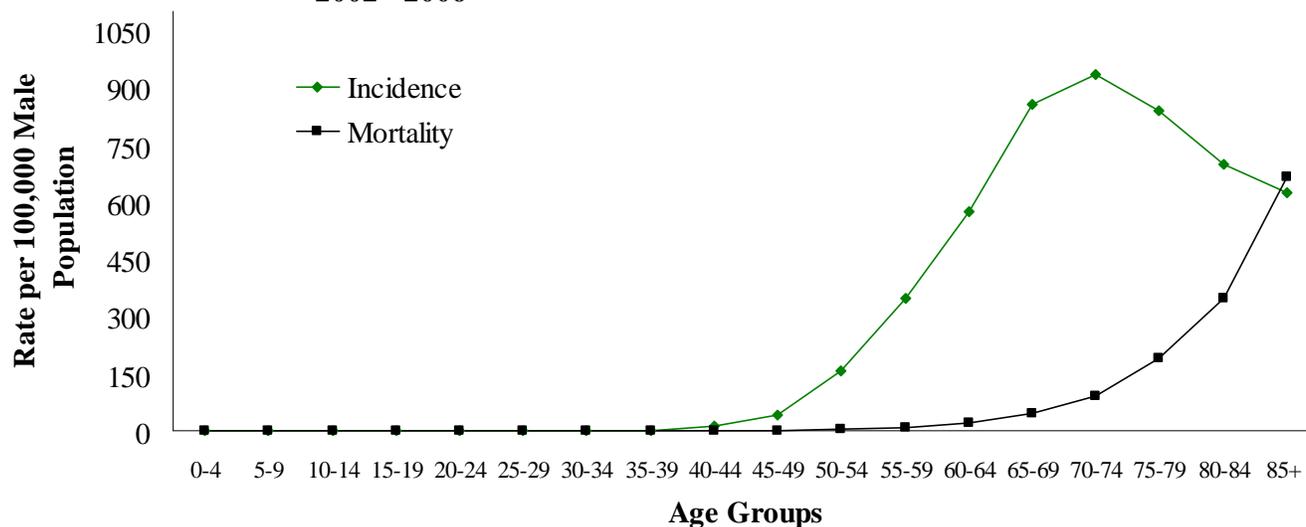
Figure 14.2. Prostate Cancer, Age-Adjusted Mortality Rates, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 male population, and are age-adjusted to the 2000 U.S. standard population.

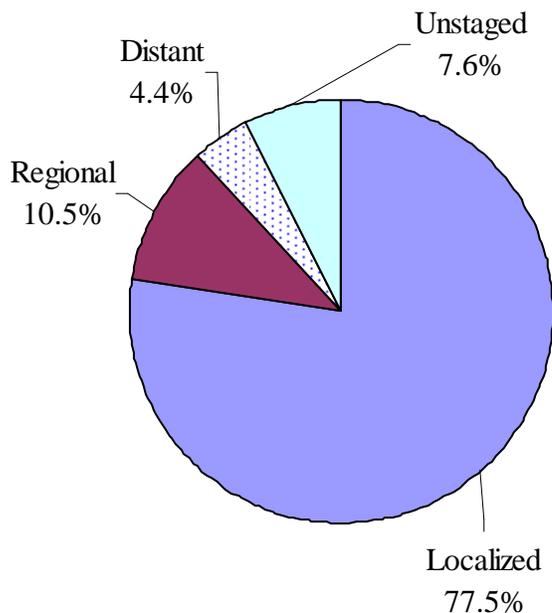
Figure 14.3. Prostate Cancer, Age-Specific Incidence and Mortality Rates, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 male population (2002-2006) for each age group.

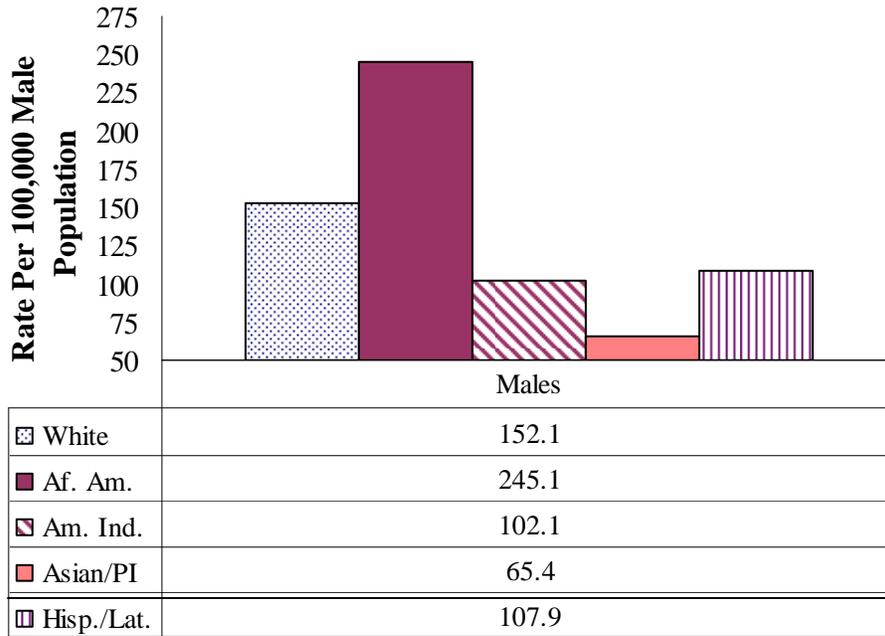
Figure 14.4. Prostate Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

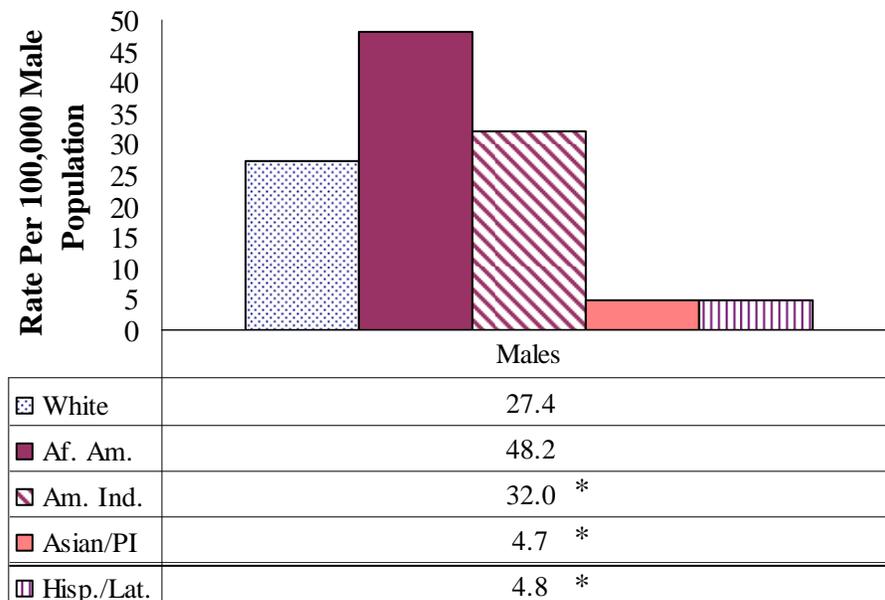
Figure 14.5. Prostate Cancer, Age-Adjusted Incidence Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 male population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from Hispanic/Latino origin category.

Figure 14.6. Prostate Cancer, Age-Adjusted Mortality Rates, by Race and Ethnicity, Wisconsin, 2002 - 2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 male population in each group and are age-adjusted to the 2000 U.S. standard population. Race categories are not mutually exclusive from Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 14.3. Prostate Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	80	102.5	80.9	128.8	22	34.5	21.2	53.5
Ashland	59	136.4	103.8	176.3	14	32.3	17.6	54.6
Barron	166	127.7	109.0	148.8	44	34.3	24.9	46.2
Bayfield	69	131.3	101.9	167.7	8	18.2	7.8	37.1
Brown	827	164.9	153.6	176.7	103	26.1	21.3	31.6
Buffalo	66	156.8	121.2	200.2	12	30.8	15.9	54.4
Burnett	88	141.8	113.4	176.3	16	30.9	17.6	51.3
Calumet	182	193.3	165.7	224.0	12	15.8	8.1	27.1
Chippewa	250	169.7	149.3	192.3	36	26.9	18.9	37.3
Clark	175	195.4	167.5	226.7	24	24.6	15.7	36.8
Columbia	198	141.6	122.4	162.9	28	22.2	14.7	32.1
Crawford	101	196.6	160.0	239.5	12	25.1	12.9	44.3
Dane	1,272	144.5	136.4	153.0	198	29.2	25.2	33.6
Dodge	305	139.7	124.4	156.4	58	28.9	21.9	37.3
Door	175	178.4	152.9	207.5	11	12.0	6.0	22.3
Douglas	147	135.2	114.1	159.1	45	45.9	33.4	61.3
Dunn	90	106.0	85.0	130.3	25	31.1	20.1	45.8
Eau Claire	268	131.4	116.0	148.3	65	34.3	26.5	43.7
Florence	15	81.1	45.0	140.1	6	37.3	13.6	86.7
Fond du Lac	442	182.1	165.4	200.0	71	31.5	24.6	39.7
Forest	44	131.6	95.2	178.7	7	21.3	8.5	46.1
Grant	174	133.2	114.1	154.6	31	25.5	17.3	36.3
Green	103	117.7	95.9	143.0	18	21.5	12.7	34.0
Green Lake	96	162.7	131.8	199.3	11	18.5	9.2	33.9
Iowa	77	132.2	104.1	165.7	10	19.2	9.1	35.1
Iron	36	136.9	95.7	194.6	9	35.1	16.0	73.2
Jackson	82	156.5	124.3	194.6	9	18.9	8.6	35.8
Jefferson	279	153.4	135.7	172.8	40	25.1	17.9	34.1
Juneau	115	154.9	127.8	186.4	20	29.2	17.8	45.4
Kenosha	525	158.0	144.5	172.3	70	25.5	19.9	32.2
Kewaunee	100	180.1	146.4	219.4	12	22.5	11.6	39.5
La Crosse	472	195.3	177.9	213.8	49	22.8	16.8	30.0
Lafayette	46	103.8	75.9	138.9	10	23.5	11.2	43.7
Langlade	85	125.5	100.2	155.9	7	10.7	4.3	22.9
Lincoln	129	146.9	122.6	174.9	30	35.8	24.1	51.4
Manitowoc	365	165.6	149.0	183.6	54	26.3	19.7	34.3
Marathon	517	165.0	151.0	180.0	86	30.1	24.0	37.1

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	220	162.3	141.5	185.6	40	31.7	22.6	43.4
Marquette	89	173.4	138.9	214.7	14	26.9	14.5	46.6
Menominee	20	219.3	126.1	351.7	1	33.0	0.8	135.1
Milwaukee	3,102	159.4	153.8	165.2	483	27.5	25.1	30.1
Monroe	192	175.6	151.5	202.6	37	38.5	27.0	53.0
Oconto	184	170.0	146.2	196.9	29	33.0	22.0	47.4
Oneida	204	155.4	134.6	178.8	32	28.2	19.2	40.5
Outagamie	598	168.4	155.0	182.7	82	27.1	21.5	33.6
Ozaukee	365	156.7	140.8	174.1	47	25.5	18.6	33.9
Pepin	37	172.5	121.4	238.9	3	14.0	2.9	42.5
Pierce	79	109.9	86.4	137.5	23	37.8	23.7	56.4
Polk	131	112.7	94.1	134.0	40	36.8	26.2	50.2
Portage	218	142.3	123.8	162.7	32	25.8	17.6	36.3
Price	67	130.3	100.9	166.6	13	24.2	12.9	42.9
Racine	729	164.7	152.8	177.3	93	25.9	20.9	31.8
Richland	41	78.6	56.4	107.1	11	22.4	11.2	40.5
Rock	507	137.8	125.9	150.4	83	27.0	21.4	33.4
Rusk	65	138.3	106.7	177.1	20	40.7	24.8	64.0
St. Croix	122	92.2	76.1	110.5	48	44.5	32.7	58.8
Sauk	208	143.2	124.3	164.1	54	39.3	29.5	51.3
Sawyer	88	150.3	120.4	186.3	20	40.9	24.8	64.0
Shawano	187	152.8	131.7	176.5	44	36.8	26.8	49.6
Sheboygan	518	185.1	169.4	201.8	73	28.2	22.1	35.4
Taylor	67	124.7	96.6	158.6	11	20.6	10.3	37.2
Trempealeau	133	170.3	142.5	202.1	14	17.7	9.7	30.1
Vernon	166	200.1	170.8	233.3	22	26.8	16.8	40.9
Vilas	118	128.9	106.5	155.7	13	14.8	7.8	26.8
Walworth	351	151.2	135.7	168.0	36	18.0	12.6	24.9
Washburn	85	148.5	118.4	184.7	17	32.1	18.7	52.4
Washington	466	159.6	145.1	175.1	64	29.6	22.7	37.8
Waukesha	1,772	191.5	182.4	200.8	192	27.1	23.3	31.2
Waupaca	283	185.8	164.8	208.9	65	42.6	32.9	54.4
Waushara	77	93.2	73.4	117.3	14	18.8	10.2	32.3
Winnebago	532	146.6	134.2	159.7	81	25.5	20.2	31.6
Wood	338	162.2	145.3	180.5	48	23.7	17.4	31.4

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 male population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Chapter 15: Cancer of the Urinary Bladder

Incidence

In 2002-2006, 1,273 cases of bladder cancer were diagnosed each year in Wisconsin (Table 15.1).

Bladder cancer was the fourth most common cancer diagnosed among Wisconsin males during 2002-2006 (Figure 1.7). The age-adjusted incidence rate for males (37.4 per 100,000) was almost four times the rate among females (10.2 per 100,000) (Table 15.1).

The majority of bladder cancers (83%) were diagnosed at the early (localized) stage of disease. A relatively low proportion of cases (11%) were diagnosed at a regional or distant stage (Figure 15.4).

By racial group, whites in Wisconsin had the highest bladder cancer incidence rate (22.2 per 100,000), followed by African Americans (9.4 per 100,000). Hispanics/Latinos (of any race) experienced an incidence rate of 10.5 per 100,000 population.

Mortality

In 2002-2006, an average of 291 Wisconsin residents died annually from bladder cancer (Table 15.2).

Males had a higher age-adjusted mortality rate (8.3 per 100,000) than females (2.5 per 100,000) during the five-year period (Table 15.2).

Whites had the highest bladder cancer mortality rate (4.9 per 100,000), followed by American Indians and African Americans (3.5 and 2.9 per 100,000, respectively). Asians/Pacific Islanders had the lowest mortality rate (1.0 per 100,000) of any racial group. Hispanics/Latinos (of any race) had a bladder cancer mortality rate of 1.3 per 100,000 (Figure 15.6).

Table 15.1. Bladder Cancer Incidence: Number of Cases, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Diagnosis	Male			Female			Total		
	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC	Number of Cases	Age-Adj. Rate	APC
Annual Avg. 2002-2006	934	37.4	-0.1%	339	10.2	-0.9%	1,273	21.8	-0.2%
2002	896	37.1	N/A	310	9.6	N/A	1,206	21.3	N/A
2003	885	36.4	N/A	371	11.2	N/A	1,256	21.8	N/A
2004	981	39.1	N/A	327	9.9	N/A	1,308	22.4	N/A
2005	991	39.0	N/A	383	11.3	N/A	1,374	23.1	N/A
2006	916	35.5	N/A	304	9.0	N/A	1,220	20.4	N/A

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

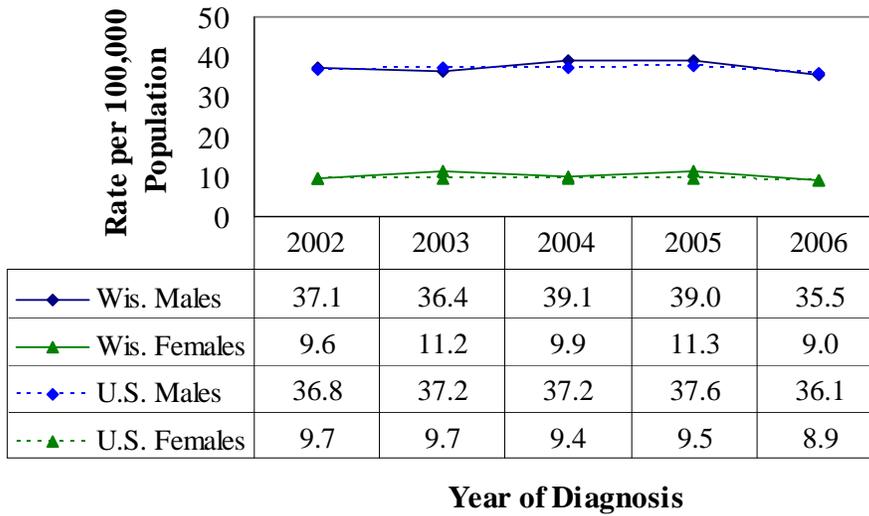
Table 15.2. Bladder Cancer Mortality: Number of Deaths, Age-Adjusted Rates, Annual Percent Change (APC), by Sex, Wisconsin, 2002 – 2006

Year of Death	Male			Female			Total		
	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC	Number of Deaths	Age-Adj. Rate	APC
Annual Avg. 2002-2006	196	8.3	1.3%	94	2.5	9.7%	291	4.8	3.6%
2002	191	8.3	N/A	78	2.2	N/A	269	4.6	N/A
2003	171	7.4	N/A	78	2.1	N/A	249	4.2	N/A
2004	220	9.3	N/A	89	2.4	N/A	309	5.1	N/A
2005	192	8.0	N/A	120	3.1	N/A	312	5.1	N/A
2006	208	8.6	N/A	107	2.8	N/A	315	5.0	N/A

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 Wisconsin population and are age-adjusted to the 2000 U.S. standard population. Annual Percent Change (APC) represents the average annual percent change in the rate; see Definitions, page 130, for a more complete description.

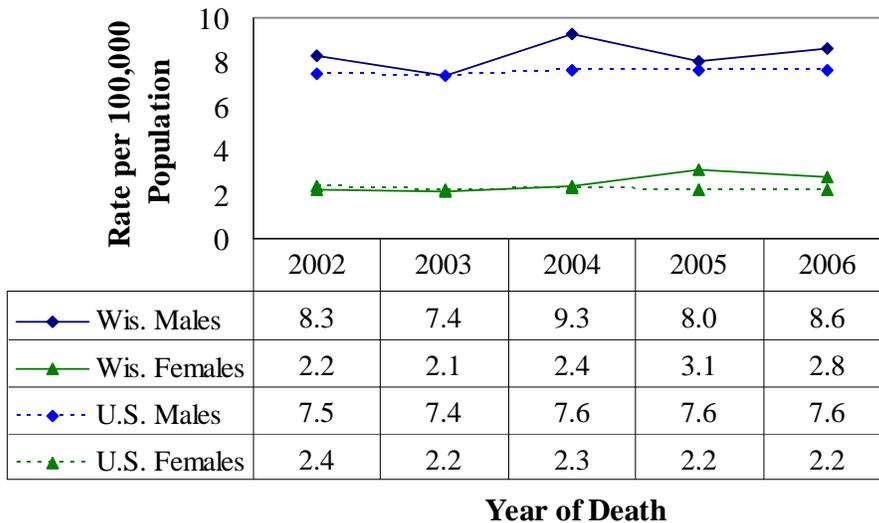
Figure 15.1 Bladder Cancer, Age-Adjusted Incidence Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

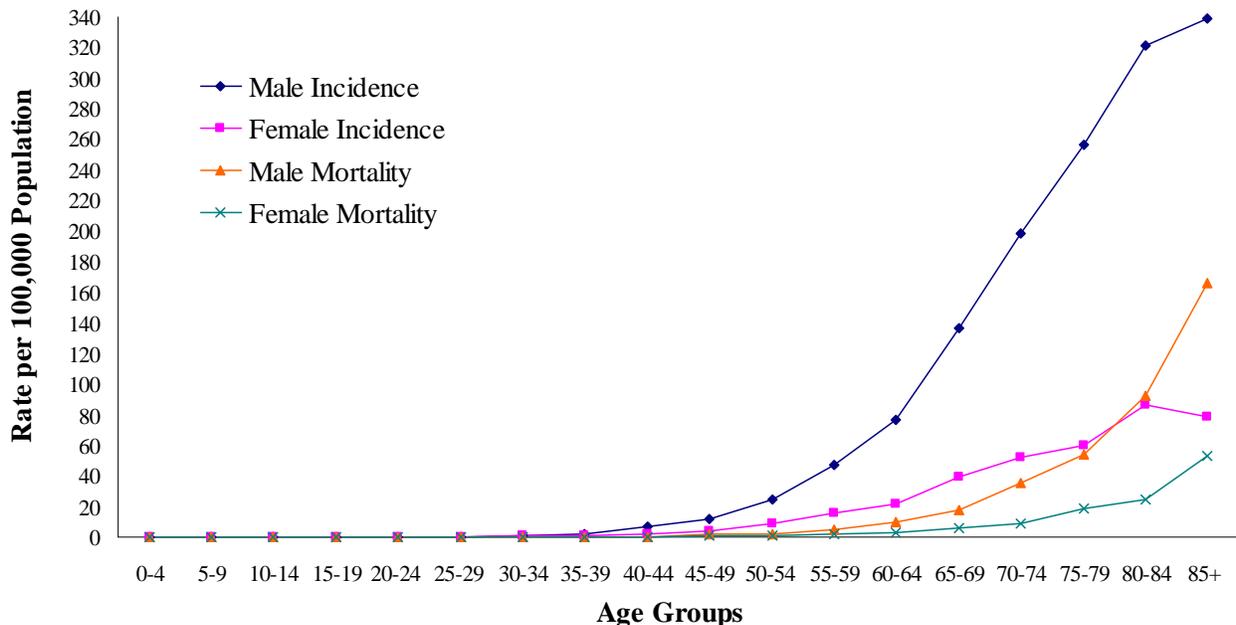
Figure 15.2 Bladder Cancer, Age-Adjusted Mortality Rates, by Sex, Wisconsin and United States, 2002 - 2006



Sources: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat; and Surveillance, Epidemiology, and End Results (SEER) Cancer Statistics Review, 1975-2006, National Cancer Institute.

Note: Rates are per 100,000 sex-specific population, and are age-adjusted to the 2000 U.S. standard population.

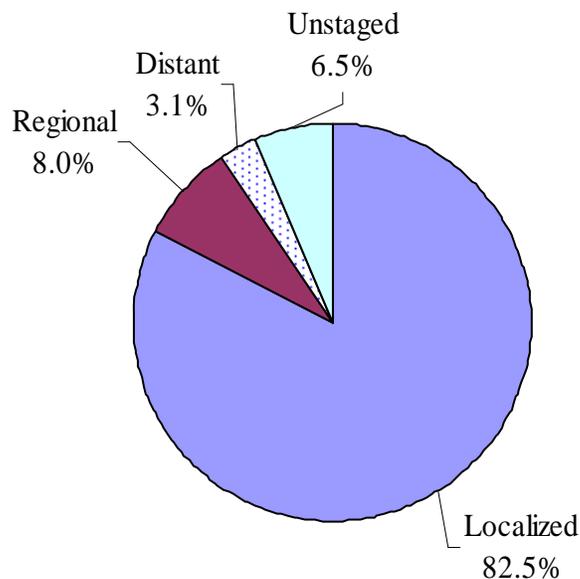
Figure 15.3. Bladder Cancer, Age-Specific Incidence and Mortality Rates, by Sex, Wisconsin, 2002 - 2006



Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population (2002-2006) for each age group and sex.

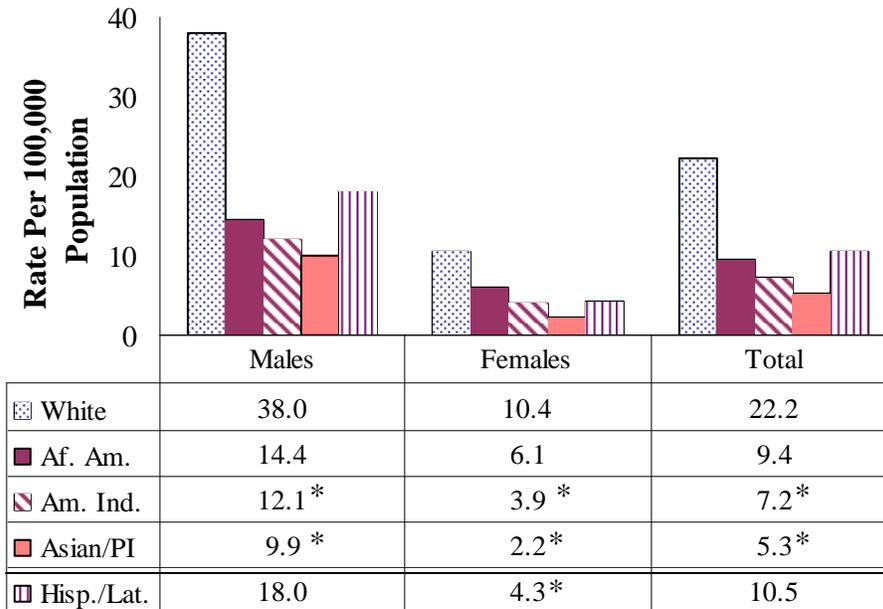
Figure 15.4. Bladder Cancer, Stage of Disease at Diagnosis, Wisconsin, 2002 - 2006



Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Note: See Definitions, page 131, for definition of stage of disease at diagnosis.

Figure 15.5 Bladder Cancer, Age-Adjusted Incidence Rates, by Race, Ethnicity and Sex, Wisconsin, 2002-2006



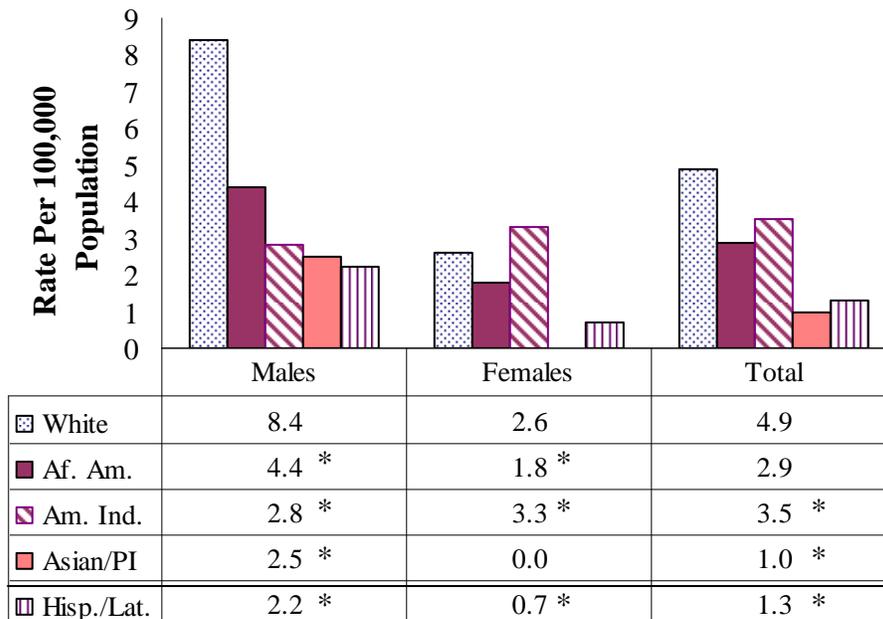
Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population.

Race categories are not mutually exclusive from Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 cases) for the five-year period.

Figure 15.6. Bladder Cancer, Age-Adjusted Mortality Rates, by Race, Ethnicity and Sex, Wisconsin, 2002-2006



Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Note: Rates are per 100,000 population in each group and are age-adjusted to the 2000 U.S. standard population.

Race categories are not mutually exclusive from Hispanic/Latino origin category.

* Rate based on small number (fewer than 20 deaths) for the five-year period.

Table 15.3. Bladder Cancer Incidence and Mortality: Number of Cases and Deaths, Average Age-Adjusted Rates and Confidence Intervals, by County, Wisconsin, 2002 – 2006								
County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Adams	34	21.2	14.6	30.3	7	4.8	1.9	10.7
Ashland	15	14.4	8.0	24.3	5	4.0	1.3	10.3
Barron	71	23.9	18.6	30.3	17	5.3	3.1	8.7
Bayfield	25	24.0	15.5	36.3	3	2.7	0.6	9.2
Brown	288	26.9	23.8	30.2	54	4.9	3.7	6.4
Buffalo	14	15.5	8.4	26.6	0	0.0	0.0	5.4
Burnett	25	19.2	12.4	29.2	4	3.1	0.8	9.1
Calumet	57	29.0	21.9	37.5	8	4.2	1.8	8.2
Chippewa	73	22.7	17.8	28.6	10	3.0	1.4	5.5
Clark	44	22.1	16.0	29.9	8	3.3	1.4	6.8
Columbia	68	21.6	16.7	27.4	22	6.8	4.3	10.5
Crawford	28	27.2	18.0	39.8	7	6.7	2.7	14.2
Dane	304	16.6	14.8	18.6	68	3.8	2.9	4.8
Dodge	98	20.2	16.4	24.7	34	6.7	4.6	9.4
Door	59	27.2	20.6	35.6	13	5.8	3.1	10.4
Douglas	29	11.1	7.4	16.1	13	5.3	2.8	9.1
Dunn	26	13.4	8.7	19.8	8	3.8	1.6	7.6
Eau Claire	86	18.7	14.9	23.1	19	3.9	2.3	6.2
Florence	6	17.3	6.3	41.1	1	2.4	0.1	20.0
Fond du Lac	140	24.7	20.7	29.2	31	5.2	3.5	7.4
Forest	16	21.0	12.0	35.4	3	4.0	0.8	13.5
Grant	47	16.1	11.8	21.5	12	3.4	1.7	6.1
Green	39	19.3	13.6	26.5	14	6.6	3.6	11.3
Green Lake	39	27.3	19.3	37.9	13	8.5	4.5	15.3
Iowa	26	20.5	13.4	30.2	5	4.0	1.3	9.5
Iron	15	26.4	14.6	47.1	6	9.4	3.3	25.1
Jackson	30	27.1	18.2	38.9	5	4.3	1.4	10.5
Jefferson	57	14.6	11.0	18.9	20	5.2	3.2	8.0
Juneau	42	26.2	18.8	35.6	14	9.3	5.1	15.8
Kenosha	209	28.4	24.6	32.5	38	5.0	3.5	6.8
Kewaunee	33	27.9	19.1	39.4	9	6.7	3.0	13.2
La Crosse	135	24.3	20.4	28.9	21	3.7	2.3	5.6
Lafayette	9	8.9	4.1	17.4	2	2.1	0.3	8.0
Langlade	39	26.1	18.5	36.2	14	8.7	4.7	15.2
Lincoln	41	22.0	15.7	30.1	7	3.1	1.2	6.9
Manitowoc	133	26.1	21.8	31.0	24	4.3	2.8	6.6
Marathon	151	21.9	18.5	25.7	34	4.6	3.2	6.5

Chapter 15: Cancer of the Urinary Bladder

County	Incidence				Mortality			
	Total Cases	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Marinette	54	18.6	13.9	24.5	6	1.8	0.7	4.4
Marquette	23	21.0	13.2	32.4	7	6.1	2.5	13.6
Menominee	6	28.8	10.3	64.9	1	3.9	0.1	27.6
Milwaukee	983	21.0	19.7	22.3	246	5.0	4.4	5.7
Monroe	43	18.3	13.2	24.8	18	7.5	4.4	12.0
Oconto	54	24.8	18.6	32.5	10	4.5	2.1	8.4
Oneida	77	28.3	22.3	35.6	16	5.8	3.3	9.7
Outagamie	190	24.0	20.7	27.7	30	3.6	2.5	5.2
Ozaukee	119	24.5	20.3	29.4	19	4.1	2.5	6.5
Pepin	9	20.6	9.3	40.0	6	11.8	4.1	27.6
Pierce	28	17.6	11.6	25.4	12	7.8	4.0	13.5
Polk	36	13.9	9.7	19.4	14	5.3	2.9	9.1
Portage	70	22.6	17.6	28.6	16	4.7	2.7	7.6
Price	18	16.0	9.4	26.1	5	4.4	1.4	11.4
Racine	193	19.7	17.0	22.7	43	4.4	3.2	5.9
Richland	11	9.0	4.5	16.7	4	3.0	0.8	8.5
Rock	187	23.2	20.0	26.8	50	6.2	4.6	8.2
Rusk	23	22.9	14.4	34.9	4	3.7	1.0	10.5
St. Croix	33	11.7	8.0	16.4	11	4.0	2.0	7.0
Sauk	54	16.7	12.5	21.8	17	4.9	2.8	7.9
Sawyer	23	18.9	11.9	29.0	7	6.0	2.4	13.2
Shawano	71	26.7	20.8	33.8	18	6.0	3.6	9.8
Sheboygan	165	25.6	21.8	29.8	46	6.8	5.0	9.2
Taylor	26	22.1	14.3	32.7	4	3.2	0.8	8.6
Trempealeau	30	17.7	11.9	25.6	6	3.5	1.2	7.9
Vernon	32	16.9	11.5	24.1	9	4.5	2.1	9.0
Vilas	47	24.8	18.1	33.8	4	2.1	0.6	6.6
Walworth	124	24.4	20.3	29.2	21	3.9	2.4	6.0
Washburn	25	21.1	13.6	31.7	10	7.5	3.6	14.8
Washington	146	23.7	20.0	27.9	28	4.6	3.1	6.7
Waukesha	473	23.7	21.6	26.0	104	5.4	4.4	6.5
Waupaca	91	27.0	21.7	33.3	19	5.1	3.0	8.2
Waushara	34	20.0	13.8	28.3	13	7.6	4.0	13.4
Winnebago	208	25.6	22.2	29.3	35	4.2	2.9	5.8
Wood	107	23.4	19.1	28.4	22	4.1	2.6	6.4

Sources: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services; and National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.) County-level data are subject to greater variation because the number of events can be small; caution is needed in interpreting rates based on small numbers.

Appendix 1

Cancer Reporting Statute (s. 255.04, Wisconsin Statutes)

- (1) Any hospital, as defined under s. 50.33(2), any physician and any laboratory certified under 42 USC 263a shall report information concerning any person diagnosed as having cancer or a precancerous condition to the department as prescribed by the department under sub. (2).
- (2) The department shall prescribe:
 - (a) The form on which the report under sub. (1) shall be submitted.
 - (b) The time schedule under which the report under sub. (1) shall be submitted.
 - (c) The types of cancer and precancerous conditions to be reported under sub. (1).
- (3) Any information reported to the department under sub. (1) or (5) which could identify any individual who is the subject of the report or the physician submitting the report shall be confidential and may not be disclosed by the department except to the following:
 - (a) A central tumor registry in another state if the individual who is the subject of the information resides in the other state.
 - (b) A national tumor registry recognized by the department.
- (4) The report of information under sub. (1) or (5) may not be construed as a violation of any person's responsibility for maintaining the confidentiality of patient health care records, as defined under s. 146.81 (4).
- (5) The department may, to the extent feasible, collect information related to the occupation of cancer patients in order to fulfill the purpose of s. 250.04 (3) (b) 4.

Administrative Rule: Hospital Cancer Reporting (HFS 124.05(3) (h), Wis. Admin. Code)

Every hospital shall report to the department all malignant neoplasms that are diagnosed by the hospital and all malignant neoplasms diagnosed elsewhere if the individual is subsequently admitted to the hospital. The report of each malignant neoplasm shall be made on a form prescribed or approved by the department and shall be submitted to the department within 6 months after the diagnosis is made or within 6 months after the individual's first admission to the hospital if the neoplasm is diagnosed elsewhere, as appropriate. In this paragraph, "malignant neoplasm" means an *in situ* or invasive tumor of the human body, but does not include a squamous cell carcinoma or basal cell carcinoma arising in the skin or an *in situ* carcinoma of the cervix uteri.

Appendix 2: Required/Recommended Data Items for 2006 Cancer Diagnoses

Abstracted By	Date of Diagnosis	Reason for No Radiation
Accession Number--Hospital	Date of Last Contact	Reason for No Surgery
Address at Diagnosis--City	Derived Summary Stage	Record Type
Address at Diagnosis--No & Street	Derived Summary Stage Flags	Regional Nodes Examined
Address at Diagnosis--State	Diagnostic Confirmation	Regional Nodes Positive
Address at Diagnosis--Supplemental	FIN Coding System	Registry Type
Address at Diagnosis--Zip Code	First Course RX Calculation Method	Reporting Facility
Age at Diagnosis	Grade	RX Coding System--Current
Behavior Code ICD-O-3	Histologic Type ICD-O-3	RX Date--Chemotherapy
Birth Date	Hormone Therapy	RX Date--Hormone
Birthplace	ICD Revision Number	RX Date--Immunotherapy
Census Tract	ICD-O-3 Conversion Flag	RX Date--Other
Census Tract Certainty	Immunotherapy	RX Date--Radiation
Chemotherapy	Institution Referred From	RX Date--Surgery
Class Of Case	Institution Referred To	RX Date--Systemic Treatment
COC Coding System--Current	Laterality	Scope Regional Lymph Node Surgery
COC Coding System--Original	Marital Status at Diagnosis	SEER Coding System--Current
Collaborative Stage (CS) Tumor Size	Medical Record Number	SEER Coding System--Original
County of Residence at Diagnosis	Morph Coding System--Current	SEER Summary Stage
CS Extension	Morph Coding System--Original	Sequence Number--Hospital
CS Lymph Nodes	NAACCR Record Version	Sex
CS Metastases at Diagnosis	Name--Alias	Site Coding System--Current
<i>CS Metastases Evaluation</i>	Name--First	Site Coding System--Original
<i>CS Reg Nodes Evaluation</i>	Name--Last	Site of Distant Metastases
CS Site-Specific Factor 1	Name--Maiden	Social Security Number
<i>CS Site-Specific Factor 2</i>	Name--Middle	Spanish/Hispanic Ethnicity
CS Site-Specific Factor 3	Name--Suffix	Surgery Primary Site
<i>CS Site-Specific Factor 4</i>	Other RX	Surgery/Radiation Sequence
<i>CS Site-Specific Factor 5</i>	Physician--Follow-Up	Systemic/Surgery Sequence
<i>CS Site-Specific Factor 6</i>	Primary Payer at Diagnosis	Usual Industry
<i>CS Tumor Size/Ext Eval</i>	Primary Site	Usual Occupation
CS Version 1st	Race (up to 5 different races per patient)	Transplant/Endocrine RX
CS Version Latest	Race Coding System--Current	Type Of Reporting Source
Date Case Completed	Race Coding System--Original	Vital Status
Date of 1st Contact	Radiation--Regional Modality	

Note: Per federal cancer reporting requirements established by the National Program of Cancer Registries, the above data items are required or recommended for each case submitted to the Wisconsin Cancer Reporting System. The data items are either reported directly to WCRS or generated at the state registry. Recommended fields are in italics; all other fields are required.

Appendix 3: Cancer Reporting System Operating Procedures

Data Collection. The Wisconsin Cancer Reporting System (WCRS) receives hospital information from medical records departments or tumor registries. Each records department or registry has two major responsibilities. The first is case finding. All of the hospital's newly diagnosed and/or admitted cancer cases need to be identified. As part of this identification, medical records as well as radiology, pathology, outpatient clinic and autopsy reports need to be examined to assure complete reporting. The second responsibility of the registry or records department is to report the cases identified from one or more of the above-mentioned processes to WCRS. Reporting is done by completing the Neoplasm Report Form or submitting electronic files using a pre-approved record layout and submission protocol. All Wisconsin hospitals are required to report electronically beginning in 2009.

Physicians and freestanding clinics report (1) all cancer cases they treat, and (2) those cases they diagnose if the case is not referred to a Wisconsin hospital for treatment within two months of the diagnosis date. All clinics are required to report electronically beginning in 2010.

Reports for Wisconsin residents receiving care in Alaska, Arkansas, Arizona, California, Colorado, Florida, Illinois, Indiana, Iowa, Kentucky, Massachusetts, Michigan, Mississippi, Missouri, Montana, Texas, Washington, West Virginia and Wyoming are reported to WCRS by the central registries for those states. Minnesota hospitals with substantial numbers of Wisconsin resident cancer patients report Wisconsin cases directly to WCRS.

Finally, WCRS matches its records to the Wisconsin resident annual death file prepared by the Vital Records Section of the Office of Health Informatics to add mortality information for cases previously reported to WCRS. From that match, WCRS identifies cases where cancer is indicated on the death certificate only (DCO) but no report exists in the registry. For those DCO cases, WCRS queries the medical source listed on the death certificate (the hospital, out-of-state registry, physician or coroner who certified the death) to provide information about the cancer case that was not previously reported to WCRS. Cases for which follow-back information is not available remain DCO cases and often have incomplete or missing information about the cancer, such as the date or stage of disease at diagnosis. In this report, for DCO cases, the date of death is used as the date of diagnosis, following the current protocol practiced by NAACCR, U.S. Department of Health and Human Services federal publications and most state-level publications.

Supplemental Data Sources. The mortality data used in this report reflect Wisconsin resident deaths that occurred in 2002-2006 for which the underlying cause of death was a reportable cancer. SEER*Stat public use mortality data for 2002-2006 were used in preparing this report. The original source of the mortality data on Wisconsin residents contained in the SEER*Stat public use file is Wisconsin resident death certificates filed in the Vital Records Section, Office of Health Informatics, Wisconsin Department of Health Services, which reports Wisconsin death record data to the National Center for Health Statistics.

Rate Calculations. For this report, all incidence and mortality data were calculated using the SEER*Stat statistical package from the National Cancer Institute. Rates were age-adjusted using the direct method to the 2000 U.S. standard population. All rates are rounded to the nearest tenth; rates less than 0.05 are shown as 0.0. Wisconsin population estimates for 2002 through 2006 by race, by Hispanic/Latino ethnicity, and by county were provided by the National Cancer Institute as part of its SEER*Stat statistical software package. The population estimates and methodology are available at the following Web site: www.seer.cancer.gov/popdata/.

Cancer Incidence Sites. The International Classification of Diseases for Oncology, version 3 (ICD-O-3) was used for cancer cases diagnosed since 2001. The sites in this report are based on the SEER Program's recode variables based on primary site and histology types for ICD-O-3. The complete list of SEER Site Recode ICD-O-3 Definitions is available at: www.seer.cancer.gov/siterecode/icdo3_d01272003/

Cancer Mortality Sites. International Classification of Diseases, Tenth Edition (ICD-10), for coding underlying cause of death was used for cancer deaths that occurred in 1999 and subsequent years. The SEER program codes for cancer causes of death used in this report can be found at: www.seer.cancer.gov/codrecode/1969+_d09172004/index.html

Reportable Cases. All primary malignant neoplasms are reportable in Wisconsin except basal cell and squamous cell carcinoma of the skin and noninvasive cancers of the cervix uteri. Benign tumors (except for benign tumors of the brain and central nervous system), premalignant conditions and diseases secondary to the neoplastic process are not reportable.

The incidence tables in this publication are based on Wisconsin resident cases of reportable cancer first diagnosed during the years 2002 - 2006 and reported to the Wisconsin Cancer Reporting System by January 15, 2009.

Record Confidentiality. In addition to protecting data release as required by the cancer reporting statute, WCRS follows strict guidelines once data are received to maintain the in-house confidentiality of patient records. Procedures include, but are not limited to, securely storing all records on the Department computer network; limiting computer access for confidential data items to only WCRS staff; and locking up all paper and electronic media that include confidential data items. More detailed information regarding confidentiality protections may be obtained by contacting WCRS. Please note that even though WCRS, as a public health surveillance system, is classified as HIPAA-exempt (Health Insurance Portability and Accountability Act) per the HIPAA Privacy Rule (45 CFR 164.501 and 45 CFR 164.512), it follows HIPAA guidelines to the extent possible.

Quality Assurance. WCRS staff edit cancer reports for completeness and logical consistency, and make periodic checks for consistency among multiple reports received for the same case. If an inconsistency is found, queries are sent to the reporting agent and corrections are made in the records. If more than one report is on file for the same person or tumor, the records are matched using national case-merging and consolidation protocols. This protocol allows for the most accurate and complete information on the description of the tumor cell type, extent of disease at diagnosis, method of diagnostic confirmation, types of definitive therapy, race of patient, etc.

Completeness and Timeliness of Reports. The statewide completeness estimate is 95 percent for 2002-2005 data and 92 percent for 2006 data. Completeness estimates are calculated by the National Program of Cancer Registries, Centers for Disease Control and Prevention. Statewide training sessions offered by WCRS to the reporting facilities focus on increasing complete casefinding, timeliness, and compliance with the cancer reporting statute and administrative rule. Completeness estimates vary by individual cancer site and county.

Based on analysis subsequent to the creation of the data set used in this report, WCRS discovered that the data consolidation process used to create the data set was undercounting melanoma cases by approximately 1.5%, as compared to the national standard for case consolidation for this cancer site.

In this report, the American Indian/Native Alaskan race is underrepresented for 2005 and 2006 cases due to underreporting and misclassification of cases in the data base. Part of this under-representation may be attributed to reduced reporting to WCRS by Wisconsin's tribal clinics for those diagnosis years. Cases for 2002-2004 were reported to WCRS as part of a study entitled "Improving American Indian Cancer

Surveillance and Data Reporting in Wisconsin." This project, supported by the Great Lakes Native American Research Center for Health, was conducted by Spirit of EAGLES at the University of Wisconsin Carbone Cancer Center in conjunction with Wisconsin tribal and urban clinics, the Great Lakes Tribal Epidemiology Center and the Wisconsin Cancer Reporting System. The study only included cases diagnosed through 2004. Currently, collaborative efforts are underway to support ongoing reporting by American Indian tribal and urban clinics in Wisconsin.

Multiple Tumor Determination. When apparent multiple neoplasms of the same primary site in one patient exist simultaneously or over a period of time, WCRS applies the following rules to determine whether more than one independent primary tumor exists:

- 1) A single lesion with multiple histologic types is considered a single primary.
- 2) An independent primary cancer of the same histologic type as one diagnosed in the same site more than one year earlier is considered a separate primary cancer, unless the physician states that it is a recurrence of the earlier cancer.
- 3) Simultaneous multiple lesions of the same histologic type within the same primary site are considered a single primary cancer.
- 4) Multiple lesions of different histologic types within a single site, whether occurring simultaneously or at different times, are considered separate primaries.
- 5) Each side of a paired organ is considered a separate site with the following three exceptions: simultaneous ovarian tumors, simultaneous Wilm's tumors (of the kidney) and simultaneous retinoblastomas (of the eye). These exceptions are coded as a tumor of the paired organ with bilateral presentation (involvement of the tumor in both sides of a paired organ). Aside from the above exceptions, lesions in both sides of a paired organ are considered separate tumors whether occurring simultaneously or at different times unless a physician determines a) one side is metastatic from the other or b) the tumor is presenting bilaterally.

While the ICD-O codes (used to code incidence cases) are used to assign both a primary site code *and* a cell type code to every tumor, ICD-10 codes (used to code deaths) reflect either site *or* cell type. The ICD-10 has three skin tumor classifications: one for melanomas of the skin, one for Kaposi's sarcoma of the skin, and one for all other skin tumors combined. Basal cell and squamous cell carcinomas of the skin, which are not reportable to the Wisconsin Cancer Reporting System, make up the majority of these "other" skin tumors. In this publication, only reportable nonmelanoma skin cancers are included in the *incidence* tables in the site group "All Others."

Appendix 4: Definitions

Age-Adjusted Rate - Incidence or mortality rate adjusted to account for different age distributions between populations. In this report, all rates are age-adjusted using the 2000 U.S. standard population. This publication used the direct method of calculating rates, in which the age-specific rates in the Wisconsin population are weighted by the proportionate age distribution of the standard U.S. population. Age-adjusted rates can be compared only when the same standard population and adjustment method are used in the calculations.

Age-Specific Rate - A crude rate showing the actual number of cancer cases or deaths found in a relatively narrow age group (for example, 40-45 years) per 100,000 population in that age group. Age-specific rates can be used to compare differences in incidence or mortality between age groups; an age-specific rate can also be compared to other rates for the same age group.

Annual Percent Change (APC) - The yearly average percent change in incidence or mortality rates during the five-year period was computed using SEER*Stat statistical software from the National Cancer Institute. Not as subject to yearly fluctuations as the total percent of change over time, the APC provides a more reliable measure of change. The APC is calculated by fitting a least squares regression line to the natural logarithm of the rates using the year as a regressor variable; this is called the "weighted least squares method."

Cancer Incidence - New cases of cancer that occur during a specified period in a population at risk of developing the disease, expressed as the number of cases or as a rate, usually per 100,000 persons. A cancer incidence rate is the number of newly diagnosed cancers of a specific site that occurred in a specified time period, expressed as the number of cancers per 100,000 population at risk.

Cancer Mortality - Deaths with cancer as the underlying cause of death that occur during a specified period of time in a particular population. A cancer mortality rate is expressed as the number of deaths due to cancer in a specified site that occurred in a specified time period, per 100,000 population at risk.

Confidence Interval - A 95% confidence interval is commonly reported; this interval will contain the true value 95 percent of the time. The range between the lower and upper limits of the confidence interval defines with 95% probability the "true" rate. A rate with a larger confidence interval is less precise than a rate with a smaller confidence interval.

Burden – In this report the burden of cancer is shown by the number of new cases and/or deaths from cancer. Wisconsin's Comprehensive Cancer Control Plan has the primary goal of assessing and addressing the cancer burden in the state by reducing morbidity and mortality from cancer and reducing disparities in cancer burden among subpopulations.

Invasive – Describes a malignant cancer or tumor that has invaded tissue or surrounding organs.

Patient Residence - The data collected by WCRS reflects the patient's residence at the time of diagnosis. Mortality data are based on the decedent's county of residence at the time of death.

Patient Race - The race categories used in this report are 1) white, 2) African American 3) American Indian 4) Asian/Pacific Islander. Persons with unknown race are excluded from the race-based analyses. See caveats and limitations on page 132. The specific race categories are as follows:

White
African American or black
American Indian, Aleutian, or Eskimo

Asian/Pacific Islander	
Chinese	Guamanian, NOS
Japanese	Polynesian, NOS
Filipino	Tahitian
Hawaiian	Samoan
Korean	Tongan
Asian Indian, Pakistani	Melanesian, NOS
Vietnamese	Fiji Islander
Hmong	New Guinean
Kampuchean	Other Asian, inc. Asian, NOS
Thai	and Oriental, NOS
Micronesian, NOS	Pacific Islander, NOS
Chamorroan	
Unknown	

Patient Ethnicity – Hispanic or Latino refers to persons of Mexican, Puerto Rican, Cuban, South or Central American, or other Spanish culture, regardless of race. See caveats and limitations, page 132.

Stage of Disease at Diagnosis - The stage of disease at diagnosis refers to how far a cancer had spread from the site of origin when it was diagnosed. WCRS cancer data are coded according to summary guidelines of the National Cancer Institute’s Surveillance Epidemiology and End Results (SEER) program. The following staging definitions are used in this report:

<i>In Situ</i>	A small cancer confined to the cells in which the cancer began, that does not invade or penetrate the surrounding tissue.
<i>Localized</i>	An invasive tumor (penetrated the surrounding tissue) that is confined to the organ of origin.
<i>Regional</i>	A tumor that has spread beyond the organ of origin to adjacent organs or tissue by direct extension (penetrated directly into surrounding organs or tissues), or through the regional lymph nodes (through the lymphatic system), or both, but appears to have spread no further.
<i>Distant</i>	A tumor that has spread to parts of the body remote from the primary organ, or a systemic malignancy (such as cancers in the blood, bone marrow, or lymph system).
<i>Unknown/Unstaged</i>	Insufficient information available to determine the stage of disease at diagnosis.

Appendix 5: Caveats/Limitations

Geographic Boundaries. Two major factors affect interpretation of geographic location tabulations. First, many Wisconsin counties have a very small number of new cancer diagnoses or deaths in a year, resulting in site-specific frequencies in the single digits. Such small numbers may easily double or triple (or decrease by equivalent amounts) from year to year. When years of data or primary sites are combined to produce larger number of events, the rates become more stable. County data in this report are averaged over the five years to provide more stable rates. Even with multiple years of data, however, the numbers may still be small and some random fluctuation is expected. To provide guidance in assessing the stability of rates, all county tables show the upper and lower limits of the confidence interval for each rate, which will include the true value 95 percent of the time. A large confidence interval indicates high variability of the “true” rate, while a small confidence interval indicates greater stability of the rate.

Second, reporting completeness and/or timeliness may vary by region. The largest reporting variations relate to out-of-state diagnosis and treatment of patients who live in the sparsely populated counties along the Wisconsin/Minnesota border and are seen in Minnesota hospitals. Reporting by Minnesota hospitals to WCRS is a voluntary process (established through memoranda of understanding that protect patient confidentiality) and is not covered under Section 255.04, Wisconsin Statutes. Therefore, the number of reports sent to WCRS from Minnesota can vary greatly from year to year.

Although cancer incidence and mortality rates vary by county in Wisconsin, the small populations in many counties preclude meaningful comparisons and conclusions. In addition to the instability of cancer rates due to small numbers, county differences in major risk factors (such as smoking) are not accounted for in WCRS data. However, when used cautiously, cancer information at the county level may prove useful in the planning and development of health care resources, educational programs and cancer control plans.

Patient Race. Historically, differences among facilities in recording patient race (information not required in medical chart, entered by proxy, or patient self-reporting) have led to a number of ambiguous or unknown race codes. As training and expanded codes have been introduced in recent years, the number of incidence cases reported with unknown race has decreased. However, misclassification was found for certain racial groups. Cancer cases incorrectly reported to WCRS as white were identified as American Indian through linkage with U.S. Indian Health Service lists. Data in this report reflect all American Indian cases identified through the linkage project for years 2002-2006. The NAACCR Asian/Pacific Islander Identification Algorithm, version 1.1, (NAPIIA v1.1) was used to assign more specific Asian/Pacific Islander categories (such as Hmong), using variables of birthplace, marital status, gender, surname and first name, to cases only identified as Asian, Not Otherwise Specified. For a more complete description of the of the NAPIIA v1.1, see the NAACCR Web site: <http://www.naacr.org/datastandards>.

Hispanic/Latino Ethnicity and Race. For this report, the NAACCR Hispanic/Latino Algorithm Identification Algorithm (NHIA) assigned Hispanic/Latino ethnicity to cases, using variables of birthplace, marital status, gender, race and surname to increase the number of cases identified as Hispanic in the registry during the years 2002-2006. For a complete description of NHIA version 2.1, visit the following Web site: <http://www.naacr.org/datastandards>. The application of the NHIA increased the number of Hispanic cancer cases beyond the number identified by reporting facilities. The NHIA was developed and tested by NAACCR and endorsed by the Centers for Disease Control and Prevention to correct for documented under-reporting of Hispanic/Latino cases by facilities. Caution should be used when comparing rates for Hispanics/Latinos with the rates for race groups because ethnicity and race are not mutually exclusive categories in this report. Hispanics/Latinos who identify themselves as white or any other racial group are included in the race category as well as in the Hispanic category.

Cautions for Data on Race and Ethnicity. Race and ethnicity are important variables for cancer surveillance; rates of cancer incidence and mortality vary by race and ethnicity. Despite improvements in completeness of race and ethnicity data, the ability to evaluate differences in cancer incidence among Wisconsin residents is limited by at least three factors. First, although Wisconsin is increasingly diverse, populations of color are relatively small, representing approximately 14 percent of the total state population. In comparison, minority populations constitute approximately 33 percent of the total U.S. population. This means that random fluctuation of a few cases or a few deaths in Wisconsin can cause rates for these small groups to vary greatly from year to year. Second, race and ethnicity as recorded in medical records may not be self-reported but based on assumptions made by staff observation at the facilities. Admission/registration practices at facilities do not always follow the recommended standard for self identification from patients. Finally, the population estimates that are available, used in the denominator for calculating rates, may be inaccurate to the extent that certain minority groups were undercounted during the national Census and intercensal estimates do not reflect accurately any change in population size in these groups.

It should also be noted that cancer mortality data are not subject to the same adjustment methods described above (algorithms for Asian and Hispanic/Latino cases and data linkage to Indian Health Service registry) for enhancing incidence data. The extent of misclassification of race and ethnicity on Wisconsin death certificates is not known.

Despite the limitations, identifying race and ethnicity is a requirement for WCRS reporting and necessary for developing policies and practices for cancer control programs. Reasons for the racial and ethnic variations in cancer are not fully understood but include cultural, economic, social and genetic factors. Therefore it is important to provide the most accurate possible rates to inform health professionals, researchers, and policy-makers, and to educate the public about specific cancers.

All figures in this report therefore display cancer data aggregated over the five-year period, 2002-2006, and additionally, note with asterisks those rates based on fewer than 20 cases for the entire period. The reader is advised to use Appendices 7C and 7D, which provide more detailed data by race, ethnicity and sex, including the total number of cases or deaths, age-adjusted rates and confidence intervals. The shortcomings and limitations discussed above should be kept in mind when evaluating race and ethnic differences in cancer rates presented in this report.

Appendix 6: Wisconsin Population Tables

Wisconsin Population Estimates by 5-Year Age Group and Sex: 2002

Age	Male	Female
0-4	176,581	169,827
5-9	186,423	177,456
10-14	205,967	195,496
15-19	207,246	196,116
20-24	198,584	187,827
25-29	166,034	158,768
30-34	186,329	180,552
35-39	206,641	203,998
40-44	226,136	225,215
45-49	211,031	207,847
50-54	183,324	180,513
55-59	140,112	142,358
60-64	105,409	111,394
65-69	86,119	95,782
70-74	77,061	92,639
75-79	62,124	84,405
80-84	40,540	68,174
85+	29,827	71,260

Source: National Cancer Institute's SEER*Stat at: www.seer.cancer.gov/popdata/

Wisconsin Population Estimates by 5-Year Age Group and Sex: 2003

Age	Male	Female
0-4	177,982	170,917
5-9	182,717	174,637
10-14	204,228	193,686
15-19	206,474	194,898
20-24	203,910	192,251
25-29	169,879	160,419
30-34	183,230	177,243
35-39	200,569	197,228
40-44	225,675	224,617
45-49	214,907	212,453
50-54	188,654	185,422
55-59	146,025	147,591
60-64	110,694	117,031
65-69	87,744	97,234
70-74	76,072	90,918
75-79	62,479	84,094
80-84	41,203	68,349
85+	31,004	72,833

Source: National Cancer Institute's SEER*Stat at: www.seer.cancer.gov/popdata/

Wisconsin Population Estimates by 5-Year Age Group and Sex: 2004

Age	Male	Female
0-4	179,567	172,077
5-9	180,768	173,117
10-14	201,197	191,399
15-19	206,892	194,662
20-24	204,633	194,778
25-29	176,319	163,848
30-34	179,593	173,199
35-39	195,595	191,340
40-44	224,884	223,948
45-49	219,094	215,861
50-54	193,918	191,327
55-59	155,115	155,485
60-64	114,507	121,006
65-69	90,221	99,233
70-74	74,813	89,346
75-79	62,613	83,086
80-84	42,068	69,063
85+	31,779	73,848

Source: National Cancer Institute's SEER*Stat at: www.seer.cancer.gov/popdata/

Wisconsin Population Estimates by 5-Year Age Group and Sex: 2005

Age	Male	Female
0-4	179,808	172,183
5-9	179,524	172,039
10-14	196,858	187,211
15-19	207,016	194,605
20-24	203,852	195,147
25-29	183,262	167,762
30-34	176,390	170,097
35-39	193,274	187,833
40-44	221,825	219,668
45-49	222,700	219,715
50-54	199,474	197,114
55-59	164,830	164,594
60-64	118,149	124,623
65-69	91,584	100,463
70-74	74,349	88,256
75-79	62,919	82,899
80-84	42,950	69,373
85+	32,802	75,325

Source: National Cancer Institute's SEER*Stat at: www.seer.cancer.gov/popdata/

Wisconsin Population Estimates by 5-Year Age Group and Sex: 2006

<u>Age</u>	<u>Male</u>	<u>Female</u>
0-4	180,848	172,944
5-9	179,834	172,649
10-14	192,682	183,680
15-19	206,591	194,306
20-24	202,776	195,116
25-29	190,145	173,405
30-34	171,784	165,562
35-39	192,287	186,624
40-44	216,165	213,112
45-49	225,853	223,850
50-54	204,061	202,446
55-59	175,183	173,885
60-64	121,845	127,588
65-69	93,281	102,193
70-74	74,363	87,852
75-79	62,953	82,660
80-84	43,362	69,031
85+	34,251	77,493

Source: National Cancer Institute's SEER*Stat at: www.seer.cancer.gov/popdata/

Wisconsin Population Estimates by County, Averaged, 2002 - 2006

County	Population	County	Population
Adams	20,454	Marinette	42,980
Ashland	16,588	Marquette	14,863
Barron	45,584	Menominee	4,588
Bayfield	15,026	Milwaukee	949,598
Brown	236,481	Monroe	41,943
Buffalo	13,793	Oconto	36,960
Burnett	16,235	Oneida	36,776
Calumet	43,606	Outagamie	168,577
Chippewa	58,096	Ozaukee	84,681
Clark	33,616	Pepin	7,369
Columbia	54,168	Pierce	38,437
Crawford	16,940	Polk	43,454
Dane	456,583	Portage	67,567
Dodge	87,137	Price	15,130
Door	28,147	Racine	192,439
Douglas	43,786	Richland	18,065
Dunn	41,418	Rock	155,563
Eau Claire	95,160	Rusk	14,974
Florence	4,949	St. Croix	73,699
Fond du Lac	98,174	Sauk	56,890
Forest	9,911	Sawyer	16,724
Grant	49,103	Shawano	40,879
Green	34,566	Sheboygan	113,379
Green Lake	18,969	Taylor	19,485
Iowa	23,254	Trempealeau	27,366
Iron	6,574	Vernon	28,520
Jackson	19,512	Vilas	21,994
Jefferson	77,973	Walworth	97,824
Juneau	25,643	Washburn	16,487
Kenosha	157,608	Washington	123,518
Kewaunee	20,437	Waukesha	373,062
La Crosse	109,304	Waupaca	52,161
Lafayette	16,085	Waushara	24,554
Langlade	20,567	Winnebago	159,453
Lincoln	29,836	Wood	74,701
Manitowoc	81,410		
Marathon	127,391	STATE TOTAL	5,508,743

Source: National Cancer Institute's SEER*Stat at: www.seer.cancer.gov/popdata/

Appendices

Wisconsin Population by Race, Age Group and Sex, Averaged, 2002 - 2006

White			African American		
Age	Male	Female	Age	Male	Female
0-4	153,221	146,437	0-4	18,004	17,588
5-9	155,887	148,590	5-9	17,973	17,421
10-14	172,246	163,211	10-14	19,088	18,601
15-19	180,832	171,474	15-19	17,599	15,691
20-24	179,870	171,239	20-24	14,933	14,362
25-29	156,573	143,512	25-29	12,735	13,909
30-34	160,015	153,302	30-34	12,004	13,085
35-39	180,356	174,890	35-39	10,939	12,098
40-44	206,641	203,347	40-44	10,769	12,347
45-49	204,797	200,181	45-49	9,654	11,159
50-54	182,699	178,371	50-54	7,749	9,222
55-59	148,265	147,498	55-59	5,473	6,366
60-64	108,896	113,910	60-64	3,458	4,480
65-69	85,846	93,860	65-69	2,691	3,644
70-74	72,522	85,804	70-74	1,971	2,854
75-79	60,690	80,564	75-79	1,401	2,051
80-84	41,008	66,980	80-84	704	1,259
85+	31,286	72,590	85+	434	1,095
Total	2,481,648	2,515,759	Total	167,580	177,233

American Indian/ Alaska Native			Asian/Pacific Islander		
Age	Male	Female	Age	Male	Female
0-4	2,339	2,283	0-4	5,394	5,282
5-9	2,385	2,259	5-9	5,608	5,710
10-14	2,787	2,608	10-14	6,065	5,873
15-19	2,843	2,582	15-19	5,570	5,172
20-24	2,492	2,335	20-24	5,456	5,088
25-29	2,052	2,070	25-29	5,767	5,350
30-34	2,002	1,873	30-34	5,445	5,070
35-39	2,056	2,051	35-39	4,322	4,366
40-44	2,069	2,175	40-44	3,458	3,443
45-49	1,795	1,891	45-49	2,472	2,714
50-54	1,416	1,482	50-54	2,022	2,289
55-59	1,043	1,132	55-59	1,473	1,787
60-64	713	765	60-64	1,054	1,172
65-69	511	604	65-69	742	873
70-74	336	434	70-74	502	710
75-79	213	323	75-79	314	491
80-84	124	216	80-84	188	343
85+	74	194	85+	138	273
Total	27,248	27,277	Total	55,991	56,006

Source: National Cancer Institute's SEER*Stat at: www.seer.cancer.gov/popdata/

Wisconsin Population by Hispanic Ethnicity, Age Group and Sex, Averaged, 2002 - 2006

Age	Hispanic	
	Male	Female
0-4	14,529	14,198
5-9	13,414	12,821
10-14	11,736	11,131
15-19	10,445	9,271
20-24	13,849	10,163
25-29	15,085	10,985
30-34	13,001	9,854
35-39	9,967	7,554
40-44	8,075	6,454
45-49	6,128	5,199
50-54	4,415	3,764
55-59	3,028	2,605
60-64	1,775	1,797
65-69	1,240	1,342
70-74	958	1,011
75-79	655	744
80-84	392	485
85+	278	457
Total	128,970	109,835

Source: National Cancer Institute's SEER*Stat at: www.seer.cancer.gov/popdata/

2000 U.S. Standard Million Population

Age Group	Standard Population
0-4	69,135
5-9	72,533
10-14	73,032
15-19	72,169
20-24	66,478
25-29	64,529
30-34	71,044
35-39	80,762
40-44	81,851
45-49	72,118
50-54	62,716
55-59	48,454
60-64	38,793
65-69	34,264
70-74	31,773
75-79	26,999
80-84	17,842
85 and older	15,508
Total Population	1,000,000

Source: 2000 U.S. Census, Population Estimates Branch, U.S. Bureau of the Census.

Note: The bolded age group is the heaviest weighted group.

Map of Wisconsin Counties



Appendix 7: Supplemental Table A. Number and Percent of Invasive Cancer Cases by Individual Primary Site, Wisconsin, 2002 – 2006										
	2002		2003		2004		2005		2006	
	Count	Column %								
Lip	41	0.15	36	0.13	39	0.14	38	0.14	35	0.13
Tongue	143	0.53	172	0.64	192	0.69	182	0.66	178	0.66
Salivary Gland	64	0.24	73	0.27	63	0.23	66	0.24	66	0.24
Floor of Mouth	49	0.18	47	0.17	46	0.16	42	0.15	57	0.21
Gum and Other Mouth	89	0.33	113	0.42	80	0.29	107	0.39	98	0.36
Nasopharynx	26	0.10	24	0.09	27	0.10	31	0.11	23	0.09
Tonsil	81	0.30	89	0.33	86	0.31	83	0.30	98	0.36
Oropharynx	27	0.10	39	0.14	38	0.14	46	0.17	30	0.11
Hypopharynx	42	0.16	54	0.20	69	0.25	75	0.27	51	0.19
Other Oral Cavity and Pharynx	14	0.05	15	0.06	8	0.03	13	0.05	7	0.03
Esophagus	334	1.24	345	1.28	371	1.33	331	1.20	346	1.28
Stomach	363	1.35	396	1.47	357	1.28	342	1.24	361	1.34
Small Intestine	117	0.43	123	0.46	95	0.34	132	0.48	126	0.47
Colon excluding Rectum	2,224	8.26	2,319	8.62	2,143	7.69	2,052	7.43	1,873	6.95
Rectum and Rectosigmoid Junction	805	2.99	753	2.80	826	2.96	719	2.60	742	2.75
Anus, Anal Canal and Anorectum	68	0.25	77	0.29	73	0.26	81	0.29	76	0.28
Liver	235	0.87	240	0.89	266	0.95	258	0.93	239	0.89
Intrahepatic Bile Duct	57	0.21	37	0.14	42	0.15	51	0.18	57	0.21
Gallbladder	78	0.29	46	0.17	78	0.28	73	0.26	71	0.26
Other Biliary	99	0.37	89	0.33	105	0.38	98	0.35	116	0.43
Pancreas	669	2.49	683	2.54	629	2.26	660	2.39	693	2.57
Retroperitoneum	23	0.09	18	0.07	13	0.05	18	0.07	18	0.07
Peritoneum, Omentum and Mesentery	42	0.16	40	0.15	28	0.10	32	0.12	38	0.14
Other Digestive Organs	18	0.07	17	0.06	18	0.06	24	0.09	20	0.07
Nose, Nasal Cavity and Middle Ear	43	0.16	31	0.12	47	0.17	50	0.18	45	0.17
Larynx	206	0.77	214	0.80	232	0.83	225	0.81	238	0.88
Lung and Bronchus	3,717	13.81	3,785	14.06	3,806	13.65	3,714	13.45	3,692	13.70
Pleura	67	0.25	56	0.21	79	0.28	67	0.24	71	0.26
Trachea, Mediastinum and Other Respiratory Organs	9	0.03	8	0.03	13	0.05	10	0.04	16	0.06
Bones and Joints	54	0.20	58	0.22	53	0.19	69	0.25	41	0.15
Soft Tissue including Heart	145	0.54	147	0.55	187	0.67	185	0.67	163	0.60
Melanoma of the Skin	844	3.14	791	2.94	867	3.11	956	3.46	930	3.45
Other Non-Epithelial Skin	69	0.26	57	0.21	71	0.25	65	0.24	72	0.27
Breast	3,965	14.73	3,807	14.14	3,835	13.75	3,809	13.80	3,750	13.91
Cervix Uteri	193	0.72	190	0.71	203	0.73	187	0.68	154	0.57
Corpus Uteri	793	2.95	787	2.92	877	3.15	887	3.21	898	3.33
Uterus, NOS	30	0.11	29	0.11	50	0.18	51	0.18	42	0.16
Ovary	409	1.52	469	1.74	486	1.74	521	1.89	549	2.04
Vagina	19	0.07	18	0.07	16	0.06	12	0.04	9	0.03
Vulva	62	0.23	66	0.25	73	0.26	70	0.25	90	0.33
Other Female Genital Organs	16	0.06	20	0.07	13	0.05	13	0.05	15	0.06
Prostate	4,238	15.74	4,013	14.91	4,336	15.55	4,092	14.82	3,900	14.47
Testis	182	0.68	181	0.67	207	0.74	199	0.72	178	0.66
Penis	14	0.05	17	0.06	20	0.07	17	0.06	24	0.09
Other Male Genital Organs	1	0.00	5	0.02	14	0.05	5	0.02	8	0.03
Urinary Bladder	1,206	4.48	1,256	4.67	1,308	4.69	1,374	4.98	1,220	4.53
Kidney and Renal Pelvis	761	2.83	826	3.07	858	3.08	887	3.21	965	3.58
Ureter	30	0.11	39	0.14	37	0.13	35	0.13	50	0.19
Other Urinary Organs	5	0.02	6	0.02	7	0.03	16	0.06	14	0.05
Eye and Orbit	52	0.19	52	0.19	55	0.20	54	0.20	50	0.19
Brain and Other Nervous System	396	1.47	378	1.40	405	1.45	432	1.56	457	1.70
Thyroid	422	1.57	448	1.66	523	1.88	512	1.85	492	1.83
Other Endocrine including Thymus	40	0.15	48	0.18	34	0.12	47	0.17	33	0.12
Hodgkin Lymphoma	173	0.64	177	0.66	202	0.72	187	0.68	183	0.68
Non-Hodgkin Lymphoma	1,099	4.08	1,087	4.04	1,217	4.36	1,216	4.40	1,269	4.71
Myeloma	306	1.14	306	1.14	339	1.22	338	1.22	297	1.10
Lymphocytic Leukemia	394	1.46	401	1.49	409	1.47	410	1.49	404	1.50
Myeloid and Monocytic Leukemia	361	1.34	334	1.24	367	1.32	403	1.46	365	1.35
Other Leukemia	58	0.22	74	0.27	57	0.20	52	0.19	69	0.26
Miscellaneous	831	3.09	890	3.31	889	3.19	888	3.22	780	2.89
Total	26,918	100.00	26,916	100.00	27,884	100.00	27,609	100.00	26,952	100.00

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.
Notes: For SEER Site ICD-O-3 definitions see http://seer.cancer.gov/siterecode/icd03_d01272003. Table counts include cases with unknown sex.

Appendices

Appendix 7: Supplemental Table B. Number and Percent of Cancer Deaths by Individual Primary Site, Wisconsin, 2002 – 2006

	2002		2003		2004		2005		2006	
	Count	Column %								
Lip	1	0.01	1	0.01	5	0.05	0	0.00	1	0.01
Tongue	43	0.40	30	0.28	33	0.30	33	0.30	24	0.22
Salivary Gland	17	0.16	12	0.11	11	0.10	9	0.08	14	0.13
Floor of Mouth	3	0.03	1	0.01	5	0.05	2	0.02	2	0.02
Gum and Other Mouth	29	0.27	27	0.25	37	0.34	29	0.27	35	0.32
Nasopharynx	14	0.13	7	0.07	8	0.07	13	0.12	11	0.10
Tonsil	8	0.07	13	0.12	11	0.10	11	0.10	10	0.09
Oropharynx	14	0.13	21	0.20	9	0.08	19	0.17	14	0.13
Hypopharynx	14	0.13	4	0.04	15	0.14	12	0.11	11	0.10
Other Oral Cavity and Pharynx	16	0.15	27	0.25	19	0.17	18	0.16	17	0.16
Esophagus	296	2.73	292	2.74	309	2.85	308	2.81	322	2.95
Stomach	166	1.53	215	2.02	208	1.92	166	1.52	188	1.72
Small Intestine	28	0.26	20	0.19	19	0.17	23	0.21	23	0.21
Colon excluding Rectum	874	8.07	881	8.27	818	7.53	825	7.54	786	7.19
Rectum and Rectosigmoid Junction	191	1.76	193	1.81	188	1.73	174	1.59	185	1.69
Anus, Anal Canal and Anorectum	3	0.03	8	0.08	10	0.09	9	0.08	14	0.13
Liver	179	1.65	192	1.80	192	1.77	197	1.80	194	1.78
Intrahepatic Bile Duct	103	0.95	72	0.68	90	0.83	91	0.83	90	0.82
Gallbladder	46	0.42	49	0.46	32	0.29	39	0.36	52	0.48
Other Biliary	34	0.31	36	0.34	31	0.29	39	0.36	42	0.38
Pancreas	661	6.10	634	5.95	641	5.90	649	5.93	683	6.25
Retroperitoneum	6	0.06	3	0.03	1	0.01	2	0.02	4	0.04
Peritoneum, Omentum and Mesentery	24	0.22	15	0.14	32	0.29	24	0.22	26	0.24
Other Digestive Organs	16	0.15	22	0.21	13	0.12	15	0.14	21	0.19
Nose, Nasal Cavity and Middle Ear	14	0.13	14	0.13	8	0.07	13	0.12	11	0.10
Larynx	49	0.45	55	0.52	69	0.64	60	0.55	74	0.68
Lung and Bronchus	2,803	25.89	2,725	25.59	2,905	26.75	2,857	26.11	2,852	26.11
Pleura	10	0.09	12	0.11	6	0.06	9	0.08	13	0.12
Trachea, Mediastinum and Other Respiratory Organs	3	0.03	5	0.05	2	0.02	7	0.06	7	0.06
Bones and Joints	19	0.18	28	0.26	22	0.20	22	0.20	22	0.20
Soft Tissue including Heart	85	0.79	66	0.62	66	0.61	82	0.75	74	0.68
Melanoma of the Skin	142	1.31	137	1.29	137	1.26	173	1.58	151	1.38
Other Non-Epithelial Skin	26	0.24	50	0.47	42	0.39	42	0.38	39	0.36
Breast	794	7.33	776	7.29	777	7.15	775	7.08	758	6.94
Cervix Uteri	49	0.45	57	0.54	63	0.58	61	0.56	56	0.51
Corpus Uteri	86	0.79	79	0.74	74	0.68	83	0.76	95	0.87
Uterus, NOS	65	0.60	63	0.59	52	0.48	73	0.67	71	0.65
Ovary	299	2.76	289	2.71	289	2.66	318	2.91	326	2.98
Vagina	8	0.07	2	0.02	12	0.11	8	0.07	5	0.05
Vulva	17	0.16	21	0.20	22	0.20	16	0.15	26	0.24
Other Female Genital Organs	12	0.11	9	0.08	10	0.09	9	0.08	4	0.04
Prostate	660	6.10	668	6.27	654	6.02	629	5.75	571	5.23
Testis	7	0.06	3	0.03	3	0.03	5	0.05	3	0.03
Penis	1	0.01	2	0.02	6	0.06	2	0.02	2	0.02
Other Male Genital Organs	0	0.00	1	0.01	0	0.00	0	0.00	2	0.02
Urinary Bladder	269	2.48	249	2.34	309	2.85	312	2.85	315	2.88
Kidney and Renal Pelvis	275	2.54	259	2.43	278	2.56	243	2.22	279	2.55
Ureter	4	0.04	9	0.08	17	0.16	7	0.06	10	0.09
Other Urinary Organs	9	0.08	5	0.05	7	0.06	7	0.06	20	0.18
Eye and Orbit	3	0.03	10	0.09	3	0.03	3	0.03	3	0.03
Brain and Other Nervous System	267	2.47	269	2.53	246	2.26	282	2.58	271	2.48
Thyroid	26	0.24	28	0.26	28	0.26	24	0.22	34	0.31
Other Endocrine including Thymus	23	0.21	11	0.10	19	0.17	24	0.22	17	0.16
Hodgkin Lymphoma	30	0.28	25	0.23	17	0.16	28	0.26	33	0.30
Non-Hodgkin Lymphoma	427	3.94	427	4.01	447	4.12	469	4.29	456	4.17
Myeloma	204	1.88	202	1.90	217	2.00	207	1.89	215	1.97
Lymphocytic Leukemia	128	1.18	150	1.41	143	1.32	151	1.38	133	1.22
Myeloid and Monocytic Leukemia	225	2.08	204	1.92	237	2.18	252	2.30	252	2.31
Other Leukemia	95	0.88	123	1.16	116	1.07	106	0.97	112	1.03
Miscellaneous Malignant Cancer	908	8.39	840	7.89	821	7.56	877	8.01	844	7.73
Total	10,828	100.00	10,648	100.00	10,861	100.00	10,943	100.00	10,925	100.00

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: For SEER Site ICD-O-3 definitions see http://seer.cancer.gov/siterecode/icdo3_d01272003. Table counts include deaths with unknown sex.

Appendix 7. Supplemental Table C: Cancer Incidence by Race, Ethnicity and Sex: Number of Cases, Averaged Age-Adjusted Rates and Confidence Intervals, Wisconsin, 2002 – 2006

Cancer Site	Male				Female			
	Total Cases	Average Rate	Confidence Interval		Total Cases	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
White								
All Cancers	66,199	534.8	530.7	538.9	62,153	417.7	414.4	421.0
Breast (Female)	--	--	--	--	18,030	123.5	121.7	125.3
Cervix Uteri	--	--	--	--	799	6.1	5.7	6.6
Colorectal	6,839	56.1	54.8	57.5	6,795	42.6	41.6	43.7
Uterine	--	--	--	--	4,233	28.9	28.0	29.8
Esophagus	1,249	10.0	9.4	10.5	358	2.3	2.1	2.6
Kidney & Renal Pelvis	2,505	19.8	19.0	20.6	1,523	10.2	9.7	10.7
Leukemia	2,285	18.9	18.1	19.7	1,625	10.9	10.4	11.5
Lung & Bronchus	9,494	77.5	75.9	79.1	8,033	53.5	52.3	54.7
Melanoma of the Skin	2,375	18.8	18.0	19.6	1,911	13.9	13.3	14.5
Non-Hodgkin Lymphoma	2,925	23.7	22.8	24.5	2,724	17.8	17.1	18.5
Ovary	--	--	--	--	2,332	15.9	15.3	16.6
Pancreas	1,561	12.8	12.1	13.4	1,567	9.8	9.3	10.3
Prostate	19,104	152.1	150.0	154.3	--	--	--	--
Urinary Bladder	4,557	38.0	36.8	39.1	1,651	10.4	9.9	10.9
African American								
All Cancers	2,854	699.6	671.5	728.5	2,385	422.3	404.8	440.4
Breast (Female)	--	--	--	--	643	108.8	100.2	117.9
Cervix Uteri	--	--	--	--	84	13.1	10.3	16.3
Colorectal	282	71.9	62.8	81.8	278	53.1	46.8	59.9
Uterine	--	--	--	--	118	21.9	18.0	26.4
Esophagus	72	17.8	13.6	22.9	15	2.3	1.3	3.9
Kidney & Renal Pelvis	111	21.9	17.6	26.9	79	14.2	11.1	17.8
Leukemia	76	15.9	11.9	20.8	64	11.4	8.6	14.8
Lung & Bronchus	531	140.9	128.0	154.6	359	66.5	59.5	73.9
Melanoma of the Skin	5	1.1	0.4	2.7	12	1.9	0.9	3.4
Non-Hodgkin Lymphoma	68	13.2	10.1	17.1	63	10.5	7.9	13.5
Ovary	--	--	--	--	64	11.5	8.7	14.7
Pancreas	70	18.0	13.7	23.2	73	14.7	11.5	18.6
Prostate	964	245.1	228.7	262.3	--	--	--	--
Urinary Bladder	49	14.4	10.3	19.4	32	6.1	4.1	8.6

Appendices

Cancer Site	Male				Female			
	Total Cases	Average Rate	Confidence Interval		Total Cases	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
American Indian/Alaska Native								
All Cancers	328	469.1	413.3	529.7	323	339.9	302.2	380.7
Breast (Female)	--	--	--	--	78	78.9	61.7	99.3
Cervix Uteri	--	--	--	--	10	8.6	4.0	16.3
Colorectal	43	66.2	45.8	91.7	37	40.9	28.4	56.8
Uterine	--	--	--	--	18	17.9	10.3	28.7
Esophagus	6	7.4	2.4	17.3	3	3.7	0.7	10.4
Kidney & Renal Pelvis	15	19.4	10.3	33.0	18	15.8	9.2	25.2
Leukemia	13	19.8	9.2	35.9	10	9.8	4.4	18.7
Lung & Bronchus	68	108.5	82.1	139.8	52	57.8	42.7	76.1
Melanoma of the Skin	8	7.2	3.0	15.2	3	2.7	0.5	8.1
Non-Hodgkin Lymphoma	11	21.0	9.8	37.9	10	10.7	4.9	19.8
Ovary	--	--	--	--	4	5.1	1.4	12.5
Pancreas	6	8.2	2.7	18.5	10	11.6	5.4	21.3
Prostate	65	102.1	76.2	133.1	--	--	--	--
Urinary Bladder	8	12.1	4.6	24.9	4	3.9	1.0	10.0
Asian/Pacific Islander								
All Cancers	306	278.2	242.8	316.8	399	259.1	232.3	287.8
Breast (Female)	--	--	--	--	104	64.7	52.2	79.0
Cervix Uteri	--	--	--	--	15	9.4	5.0	15.8
Colorectal	38	34.6	22.9	49.5	33	24.5	16.5	34.6
Uterine	--	--	--	--	20	12.0	7.2	18.8
Esophagus	6	7.5	2.5	16.1	4	4.0	1.1	9.6
Kidney & Renal Pelvis	10	6.5	2.7	13.0	4	3.0	0.8	7.6
Leukemia	19	11.4	5.7	20.0	20	9.7	5.3	16.0
Lung & Bronchus	26	31.4	19.4	47.0	29	22.0	14.5	31.8
Melanoma of the Skin	4	4.9	0.9	13.0	4	3.0	0.7	7.8
Non-Hodgkin Lymphoma	18	15.5	8.0	26.4	13	8.1	4.1	14.2
Ovary	--	--	--	--	18	10.3	5.8	16.7
Pancreas	5	7.3	2.2	16.6	10	8.7	4.1	15.7
Prostate	58	65.4	48.3	85.8	--	--	--	--
Urinary Bladder	9	9.9	3.8	19.7	2	2.2	0.3	7.0

Cancer Site	Male				Female			
	Total Cases	Average Rate	Confidence Interval		Total Cases	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Hispanic/Latino								
All Cancers	844	378.9	349.7	409.6	840	328.4	304.2	353.8
Breast (Female)	--	--	--	--	247	91.6	79.6	104.8
Cervix Uteri	--	--	--	--	40	12.7	8.7	17.7
Colorectal	106	49.2	38.9	61.0	72	32.6	25.1	41.5
Uterine	--	--	--	--	48	19.4	13.9	26.1
Esophagus	17	8.9	5.0	14.4	4	2.4	0.6	5.8
Kidney & Renal Pelvis	36	14.3	9.4	20.6	28	10.8	6.8	16.0
Leukemia	48	15.7	10.6	22.3	33	8.0	5.0	12.0
Lung & Bronchus	75	39.5	30.3	50.2	70	34.2	26.3	43.5
Melanoma of the Skin	9	4.1	1.4	8.5	8	2.2	0.8	4.8
Non-Hodgkin Lymphoma	52	16.8	11.6	23.5	41	17.9	12.4	24.7
Ovary	--	--	--	--	42	17.8	12.4	24.6
Pancreas	25	13.1	7.9	19.9	17	10.0	5.8	15.9
Prostate	192	107.9	92.2	125.2	--	--	--	--
Urinary Bladder	27	18.0	11.4	26.5	8	4.3	1.8	8.4

Source: Wisconsin Cancer Reporting System, Office of Health Informatics, Division of Public Health, Wisconsin Department of Health Services.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.)

Hispanic/Latino ethnicity is not mutually exclusive of race categories (White, African American, American Indian, and Asian/Pacific Islander); Hispanic/Latino may be of any race.

Hispanic/Latino incidence data are derived from an application of North American Association of Central Cancer Registries Hispanic Identification Algorithm, version 2. American Indian incidence data are based on linkage with US Department of Health and Human Services Indian Health Service patient registration files. Asian/Island Pacific data are derived from an application of the NAACCR Asian Pacific Islander Identification Algorithm, version 1. Linkage and algorithms help identify the correct race and ethnicity for some misclassified or unknown incidence cases. See more complete information on adjustments to racial/ethnic groupings, see page 132 in this report. For complete descriptions of algorithms, visit the following Web site: <http://www.naacr.org/datastandards>

For SEER Site ICD-O-3 definitions see http://seer.cancer.gov/siterecode/icdo3_d01272003.

Appendices

Appendix 7. Supplemental Table D: Cancer Mortality by Race, Ethnicity and Sex: Number of Deaths, Averaged Age-Adjusted Rates and Confidence Intervals, Wisconsin, 2002 – 2006

Cancer Site	Male				Female			
	Total Deaths	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
White								
All Cancers	26,560	223.3	220.6	226.0	24,883	155.1	153.2	157.1
Breast (Female)	--	--	--	--	3,668	23.3	22.6	24.1
Cervix Uteri	--	--	--	--	237	1.6	1.4	1.9
Colorectal	2,407	20.4	19.6	21.3	2,456	14.3	13.7	14.9
Uterine	--	--	--	--	693	4.3	4.0	4.7
Esophagus	1,118	9.1	8.6	9.6	318	2.0	1.8	2.2
Kidney & Renal Pelvis	783	6.4	6.0	6.9	486	3.0	2.8	3.3
Leukemia	1,301	11.0	10.4	11.7	1,038	6.3	5.9	6.7
Lung & Bronchus	7,419	61.6	60.2	63.0	5,895	38.2	37.2	39.2
Melanoma of the Skin	465	3.8	3.4	4.1	269	1.7	1.5	2.0
Non-Hodgkin Lymphoma	1,128	9.5	9.0	10.1	1,040	6.1	5.8	6.5
Ovary	--	--	--	--	1,478	9.5	9.0	10.0
Pancreas	1,535	12.6	12.0	13.3	1,568	9.6	9.1	10.0
Prostate	3,049	27.4	26.4	28.4	--	--	--	--
Urinary Bladder	962	8.4	7.9	9.0	461	2.6	2.3	2.8
African American								
All Cancers	1,202	348.4	326.5	371.3	1,006	195.8	183.4	208.8
Breast (Female)	--	--	--	--	149	26.1	21.9	30.9
Cervix Uteri	--	--	--	--	35	5.6	3.8	7.9
Colorectal	106	31.2	24.7	38.6	94	19.5	15.6	23.9
Uterine	--	--	--	--	41	9.0	6.4	12.1
Esophagus	67	17.6	13.2	22.9	12	2.1	1.1	3.7
Kidney & Renal Pelvis	31	6.9	4.5	10.0	15	2.7	1.5	4.5
Leukemia	38	10.6	7.0	15.1	29	5.4	3.5	7.8
Lung & Bronchus	411	116.9	104.7	129.9	282	55.1	48.6	62.1
Melanoma of the Skin	3	0.9	0.2	2.6	1	0.1	0.0	0.7
Non-Hodgkin Lymphoma	17	4.7	2.5	7.8	26	5.1	3.3	7.5
Ovary	--	--	--	--	33	6.6	4.5	9.3
Pancreas	65	18.4	13.8	24.0	67	14.2	10.9	18.1
Prostate	118	48.2	39.2	58.3	--	--	--	--
Urinary Bladder	15	4.4	2.3	7.3	9	1.8	0.8	3.4

Cancer Site	Male				Female			
	Total Deaths	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
American Indian/Alaska Native								
All Cancers	161	268.4	222.6	319.6	160	189.0	159.8	221.6
Breast (Female)	--	--	--	--	21	25.3	15.3	38.9
Cervix Uteri	--	--	--	--	4	3.9	1.0	10.1
Colorectal	18	39.8	21.9	64.4	10	12.7	5.9	23.2
Uterine	--	--	--	--	3	3.2	0.6	9.4
Esophagus	9	15.4	5.9	30.8	2	2.5	0.3	8.6
Kidney & Renal Pelvis	8	9.0	3.7	18.6	5	5.0	1.5	11.7
Leukemia	7	10.3	3.8	21.9	5	6.3	2.0	14.4
Lung & Bronchus	47	79.2	55.5	108.4	49	56.5	41.4	75.0
Melanoma of the Skin Non-Hodgkin	1	0.8	0.0	6.5	1	1.5	0.0	6.9
Lymphoma	6	10.2	3.4	22.4	4	5.8	1.5	14.0
Ovary	--	--	--	--	4	3.6	1.0	9.4
Pancreas	5	6.3	1.8	15.5	13	16.5	8.5	28.1
Prostate	12	32.0	15.8	55.1	--	--	--	--
Urinary Bladder	3	2.8	0.6	9.4	2	3.3	0.4	10.4
Asian/Pacific Islander								
All Cancers	100	98.7	77.3	123.5	133	102.7	85.1	122.5
Breast (Female)	--	--	--	--	13	8.5	4.4	14.6
Cervix Uteri	--	--	--	--	10	7.1	3.2	13.2
Colorectal	9	7.9	2.8	16.5	15	11.4	6.0	19.0
Uterine	--	--	--	--	4	3.7	1.0	8.9
Esophagus	1	1.9	0.0	8.1	0	0.0	0.0	2.2
Kidney & Renal Pelvis	4	3.4	0.4	10.4	2	1.1	0.1	4.1
Leukemia	5	4.6	1.0	11.8	4	2.2	0.5	6.1
Lung & Bronchus	17	23.2	12.8	37.5	22	17.4	10.7	26.4
Melanoma of the Skin Non-Hodgkin	0	0.0	0.0	3.3	0	0.0	0.0	2.2
Lymphoma	4	3.7	0.5	10.8	1	1.0	0.0	4.7
Ovary	--	--	--	--	6	5.4	1.9	11.4
Pancreas	6	7.2	2.2	16.1	9	8.0	3.5	14.9
Prostate	3	4.7	1.0	12.4	--	--	--	--
Urinary Bladder	2	2.5	0.3	8.2	0	0.0	0.0	2.2

Appendices

Cancer Site	Male				Female			
	Total Deaths	Average Rate	Confidence Interval		Total Deaths	Average Rate	Confidence Interval	
			Lower	Upper			Lower	Upper
Hispanic/Latino								
All Cancers	214	109.2	93.1	126.9	137	68.3	56.7	81.4
Breast (Female)	--	--	--	--	15	6.4	3.4	10.7
Cervix Uteri	--	--	--	--	5	2.1	0.5	5.0
Colorectal	16	6.9	3.6	11.6	12	7.1	3.5	12.2
Uterine	--	--	--	--	4	2.1	0.5	5.2
Esophagus	5	3.5	1.0	7.9	0	0.0	0.0	1.4
Kidney & Renal Pelvis	7	4.4	1.6	8.9	6	2.7	0.9	5.9
Leukemia	17	6.5	3.2	11.5	8	2.7	1.1	5.4
Lung & Bronchus	42	23.3	16.3	32.0	23	12.3	7.6	18.4
Melanoma of the Skin	1	0.4	0.0	2.4	1	0.6	0.0	2.9
Non-Hodgkin Lymphoma	11	4.7	2.0	9.0	8	4.2	1.7	8.2
Ovary	--	--	--	--	12	5.7	2.7	10.1
Pancreas	18	9.9	5.4	16.0	7	3.4	1.3	7.0
Prostate	8	4.8	1.9	9.5	--	--	--	--
Urinary Bladder	3	2.2	0.3	6.3	1	0.7	0.0	3.2

Source: National Center for Health Statistics' Wisconsin public use mortality file, analyzed using SEER*Stat.

Notes: Rates are per 100,000 population and are age-adjusted to the 2000 U.S. standard population. Confidence intervals show the range within which the rate is likely to occur at least 95% of the time. (See Definitions, page 130, for confidence interval definition.)

Hispanic/Latino ethnicity is not mutually exclusive from race categories (White, African American, American Indian, and Asian/Pacific Islander); Hispanic/Latino may be of any race.

For SEER Site ICD-O-3 definitions see http://seer.cancer.gov/siterecode/icdo3_d01272003.

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