

1998 Cancer in Alaska

Cancer Incidence and Mortality



Alaska Cancer Registry
March 2002

1998 Cancer in Alaska

Cancer Incidence and Mortality



State of Alaska
Tony Knowles, Governor

Department of Health and Social Services
Jay Livey, Commissioner

Division of Public Health
Karen Pearson, MS, Director

Alaska Cancer Registry
March 2002

Annual Report of the Alaska Cancer Registry, 1998
March 2002

Prepared by:

John P. Middaugh, MD
Jeanne Roche, RN, MPH, CTR
Elizabeth Blair, RNC, MSN, CTR
David O'Brien, Ph.D.
Section of Epidemiology

Acknowledgments

National Program of Cancer Registries
Centers for Disease Control and Prevention

Special Acknowledgment

The authors thank the numerous individuals from the wide variety of health care facilities who reported cancer data in Alaska; especially the physicians, medical records personnel and cancer registrars, whose participation and cooperation help make the Alaska Cancer Registry a reality.

For more information or additional copies of this report contact:

Alaska Cancer Registry
Section of Epidemiology
3601 C Street, Ste 540
P.O. Box 240249
Anchorage, AK 99524-0249
(907) 269-8000

Or visit our Website: www.epi.hss.state.ak.us/programs/chronic/cancer.stm

This work was funded in part by the Centers for Disease Control and Prevention,
Cooperative Agreement # U75/CCU010706-07

Highlights

The Alaska Cancer Registry is pleased to release its *1998 Annual Report*, which provides statewide cancer statistics for both incidence and mortality. Highlights from findings from this report are summarized below:

- During 1998, there were 1,827 new cases of invasive cancers diagnosed among Alaska residents. The 1998 age-adjusted incidence rate was 413.5 new cases per 100,000 residents.
- Cancers of the breast, lung and bronchus, prostate, and colorectal accounted for 55.7% of all newly diagnosed 1998 cancers in Alaska residents.
- The incidence rate for all cancers in Alaska was 16% higher for males than females.
- The five most commonly diagnosed cancers among Alaska men, which consisted of 63.5% of total male cancers, were: prostate (26.3%), lung (16.9%), colorectal (8.9%), urinary bladder (6%) and non-Hodgkin's lymphoma (5.4%).
- The five most commonly diagnosed cancers among Alaska women, which consisted of 68.3% of total female cancers, were cancers of the breast (34.4%), lung (13.2%), colorectal (11.2%), uterus (5%) and non-Hodgkin's lymphoma (4.5%).
- Of all the cancers diagnosed in 1998, 85.4% were in Alaskans 45 years of age or older; 65.4% were in Alaskans 55 years of age or older.
- In 1998, a total of 649 Alaska residents died as a result of cancer (25.2% of all Alaska resident deaths). Cancer was the leading cause of death in Alaska. The 1998 age-adjusted mortality rate for Alaska residents was 161.7 cancer deaths per 100,000 residents.
- The mortality rate for all cancers was 28% higher for males than females.
- Lung cancer was the most common cause of cancer death among Alaskans. There were 195 lung cancer deaths in 1998, or 30% of all cancer deaths. Lung cancer was the leading cause of death among both men (30.9%) and women (29.1%).
- Of the total cancer deaths, 77% were of Alaskans 55 years of age or older; 54.5% were of Alaskans 65 years of age or older.

Introduction	1
The Alaska Cancer Registry	3
Data Definitions	5
 Section I	
Percent of Cancer Cases and Deaths by Site	11
 Section II	
Primary Sites	
All Cancers Combined	19
Brain and Other Nervous System	22
Breast (female)	23
Cervix	24
Colorectal	25
Kidney and Renal Pelvis	26
Leukemias	27
Liver and Intrahepatic Bile Duct	28
Lung and Bronchus	29
Melanomas of the Skin	30
Non-Hodgkin's Lymphomas	31
Oral Cavity and Pharynx	32
Pancreas	33
Prostate	34
Stomach	35
Thyroid	36
Urinary Bladder	37
Uterus	38
 Section III	
Table 1. Age Distribution of Total Invasive Cancers	41
Table 2-a. Total Cancer Incidence and Mortality by Site	49
Table 2-b. Male Cancer Incidence and Mortality by Site	52
Table 2-c. Female Cancer Incidence and Mortality by Site	55
Table 3-a. Cancer Incidence by Race for Selected Sites	58
Table 3-b. Cancer Mortality by Race for Selected Sites	59
Table 4-a. Cancer Incidence by Borough/Census Area for Selected Sites	60
Table 4-b. Cancer Mortality by Borough/Census Area for Selected Sites	61
 Appendices	
I. Code Classification Used for Grouping Sites of Cancer	65
II. 1970 U.S. Standard Million Population	69
III. 1997 Alaska Population	70

What Is Cancer?

Cancer is a group of many related diseases. All forms of cancer involve out-of-control growth and spread of cells.

The human body is made up of billions of cells. Groups of cells perform a specific function. Normally body cells grow, divide, and die in an orderly fashion. During the early years of a person's life, normal cells divide more rapidly until the person becomes an adult. After that, normal cells of most tissues divide only to replace worn-out or dying cells and to repair injuries.

Cancer cells, however, continue to grow and divide, and can spread to other parts of the body. These cells accumulate and form *tumors* (lumps) that compress, invade, and destroy normal tissue. If cells break away from such a tumor, they can travel through the bloodstream or the lymph system to other areas of the body. There, they may settle and form "colony" tumors. In their new location, the cancer cells continue growing. The spread of a tumor to a new site is called *metastasis*. When cancer spreads, though, it is still named after the body part where it started. For example, if prostate cancer spreads to the bones, it is still prostate cancer, and if breast cancer spreads to the lungs it is still called breast cancer.¹

Leukemia, a form of cancer, does not usually form a tumor. Instead, these cancer cells involve the blood and blood-forming organs (bone marrow, lymphatic system, and spleen), and circulate through other tissues where they can accumulate.¹

It is important to realize that not all tumors are cancerous. Benign tumors do not metastasize and, with very rare exceptions, are not life-threatening.¹

Cancer is classified by the part of the body in which it began, and by its appearance under a microscope. Different types of cancer vary in their rates of growth, patterns of spread, and responses to different types of treatment. That's why people with cancer need treatment that is aimed at their specific form of the disease.¹

Who Is At Risk?

Everyone. In America, half of all men and one-third of all women will develop cancer during their lifetimes. Today, millions of people are living with cancer or have been cured of the disease. The sooner a cancer is found, and the sooner treatment begins, the better the person's chances are of a cure.

It has long been estimated that approximately 70% of all cancers are due to environmental factors. "Environmental" is broadly defined as all those external factors that affect us, and includes tobacco, viruses, radiation, individual exposures from sexual or occupational practices, diet and exercise, etc., and not just what is thought of as the environmental pollution of air, water, and food.

Tobacco is the greatest risk factor for all cancers combined and is the single leading preventable cause of cancer. Excessive alcohol consumption, particularly coupled with tobacco use, and failure to eat sufficient fresh fruits, vegetables and whole grains contribute to one-third of all cancers. Reduction of these risk factors can be controlled by individual behavioral choices.

Research indicates that genes play a role, but the currently known genetic "markers" account for only a very small proportion of cancers. Future research may well identify additional genes that predispose toward cancer.

Although there are certain specific childhood cancers that have an expected early age peak and then are rarely seen in the rest of the population, the occurrence of cancer generally increases with age with the majority of cancers occurring among adults middle-aged or older. The term *lifetime risk* is the probability that an individual, over the course of a lifetime, will develop cancer or die from it. In the US, men have a 1 in 2 lifetime risk of developing cancer, and for women the risk is 1 in 3.² The American Cancer Society (ACS) has published updates on probability of developing cancer, as described below:

Percentage of Population (Probability) of Developing Invasive Cancers At Certain Ages by Sex, U.S., 1994-1996*

		Birth to 39	40 to 59	60-79	Birth to Death
All Sites†	Male	1.68 (1 in 60)	8.23 (1 in 12)	36.69 (1 in 3)	46.64 (1 in 2)
	Female	1.94 (1 in 52)	9.05 (1 in 11)	22.21 (1 in 5)	38.00 (1 in 3)
Breast	Female	0.44 (1 in 227)	3.94 (1 in 25)	6.89 (1 in 15)	12.52 (1 in 8)
Colorectal	Male	0.06 (1 in 1,667)	0.88 (1 in 114)	4.19 (1 in 24)	5.88 (1 in 17)
	Female	0.05 (1 in 2,000)	0.68 (1 in 147)	3.18 (1 in 31)	5.72 (1 in 17)
Lung	Male	0.04 (1 in 2,500)	1.39 (1 in 72)	6.69 (1 in 15)	8.43 (1 in 12)
	Female	0.03 (1 in 3,333)	1.00 (1 in 100)	3.88 (1 in 26)	5.55 (1 in 18)
Prostate	Male	Less than 1 in 10,000	1.74 (1 in 57)	16.40 (1 in 6)	18.85 (1 in 5)

Reprinted with permission of American Cancer Society, Inc.

*Excludes basal and squamous cell skin cancers and in situ carcinomas except urinary bladder.
Data source: NCI Surveillance, Epidemiology, and End Results Program, 1997
1998, American Cancer Society, Inc.

Sometimes when a family member or friend is diagnosed with cancer, the tragedy makes us more aware of others in our community with cancer and we begin to be concerned that there may be an unusually large number of cancer cases in a certain area. Sometimes this may be the case, but not often. There are a certain number of cancers that are expected to occur in any U.S. population. These are of the predominant, or leading cancers in the U.S. The rank order may vary but they will almost always be found in each community/state among the top cancer sites, and include: lung, breast, colorectal and prostate. The American Cancer Society has provided a methodology for communities to estimate their potential cancer cases/deaths.

How to Estimate Cancer Statistics Locally, 1998²

To obtain the estimated number of...	Multiply community population by:				
	All Sites	Female Breast*	Colon & Rectum	Lung	Prostate*
New cancer cases [per year]+	0.0046	0.0013	0.0005	0.0006	0.0014
Cancer deaths [per year]+	0.0021	0.0003	0.0002	0.0006	0.0003
People who will eventually develop cancer	0.4232	0.1252	0.0580	0.0699	0.1885
People who will eventually die of cancer	0.2224	0.0346	0.0255	0.0574	0.0364

Reprinted with permission of American Cancer Society, Inc.

+Added for Clarity

*For female breast and prostate cancer multiply by female and male population respectively.
American Cancer Society, Surveillance Research, 1998.
Data Source: NCI Surveillance, Epidemiology, and End Results Program, 1997.
1998, American Cancer Society, Inc.

1. American Cancer Society Web Page, www.cancer.org, What is Cancer? 2. Cancer Facts & Figures 1998. American Cancer Society, Inc. 1998.

This is the third Annual Report of the Alaska Cancer Registry since cancer became a reportable disease in Alaska. Every attempt has been made to present as much of the data as is feasible and reasonable. It will take several years for the Registry to have sufficient data to be able to derive any associations or conclusions related to causation, prevention, early detection and treatment.

Purpose of the Registry

The Alaska Cancer Registry is a cancer surveillance system that is population-based. The Registry collects a wide variety of information to determine cancer incidence, mortality, treatment and survival. The data is used to:

- determine the incidence of cancer in the state of Alaska with respect to geographic and demographic characteristics
- monitor trends over time for unusual patterns
- monitor early detection, evaluate the effectiveness of cancer control programs and identify areas in need of public health interventions
- determine how Alaska compares with the rest of the Nation
- provide a database and serve as a resource for health planners, medical professionals, researchers and others concerned about cancer.

History of the Registry

In 1992, as a result of the enactment of Public Law 102-515, the Cancer Registries Amendment Act, the National Program of Cancer Registries (NPCR) was established with the U.S. Centers for Disease Control and Prevention (CDC) as the lead agency. This federal legislation authorized states and territories to enhance existing cancer registries; plan and implement registries where they did not exist; develop model legislation and regulations for states to enhance viability of registry operations; set standards for completeness, timeliness and quality of data; and provide training. In October 1994, the Alaska Division of Public Health, Section of Epidemiology, received CDC funds to plan and implement a State cancer registry.

On January 19, 1996, the Alaska Administrative Code (7 AAC 27.011) established reporting requirements for a statewide cancer registry. The regulations require all hospitals, health care facilities and health care practitioners screening, diagnosing or providing treatment for cancer patients diagnosed on or after January 1, 1996 to report this information to the Alaska Division of Public Health, Section of Epidemiology.

Data Collection

The Registry collects data on each newly diagnosed cancer case. Any facility diagnosing or treating a cancer patient is required to report specific data to the Registry if the patient is diagnosed on or after January 1, 1996. In an effort to streamline the administrative burden of a new reporting requirement, hospitals have been the reporting focus. While physicians are required to report their newly diagnosed cancer patients, this can largely be accomplished through hospital reporting. To help ensure that Alaska residents diagnosed or treated out of state are reported, the Registry has interstate agreements with about half the states, which facilitates case reporting by their state registries to the Alaska Cancer Registry.

Only 29% of Alaska's hospitals have cancer registries where many different types of hospital records are actively screened to ensure every cancer case seen in the facility is identified. Hospital-based registries require specially trained staff for case abstracting and collect more detailed information for their internal use than is required at the State level. In non-registry hospitals, the health information

management staff usually utilizes the same type of hospital records to identify cancer cases and report them to the Registry where they are reviewed and abstracted. The Registry staff is available for technical assistance and limited training.

One of the strengths of the Registry is its use of multiple sources for identification of diagnosed cases. This includes reports from laboratories, clinics, physician offices, screening programs and other cancer treating facilities. All reports are matched electronically to avoid duplication of case counts and to obtain the most complete information on a given case.

The Registry collects information on all in situ and invasive cancers (those with behavior codes 2 or 3 in the *International Classification of Disease for Oncology*, 2nd Ed.). There are two types of cancer that are exceptions:

- Carcinoma in situ of the cervix
- Basal and squamous cell skin cancers (unless these are at a mucocutaneous junction or external genital area).

These cancers are exempt from reporting because they are rarely fatal and usually do not require hospitalization.

The specific information required to be reported on each cancer case includes demographic data (date of birth, sex, ethnicity, race, residence, etc.) and information on each primary tumor - including site, histology, staging and first course of cancer-directed treatment.

Data Quality

The Alaska Cancer Registry is a member of the North American Association of Central Cancer Registries (NAACCR), which sets standards for data definition, quality and completeness of reporting. The Registry staff work with reporting facilities to ensure cancer cases are reported on time and with high quality data. All abstracts received are manually checked for completeness and accuracy. Computerized edits are run on all submitted data before entering the central database. These edits check for valid codes and omission of required information, which must be resolved before data can be used for analysis. Computerized edits include checks for duplicate cases and other errors or inconsistencies, such as unlikely sex/site, site/morphology, or site/age combinations. Inter-record comparisons are performed for patients having more than one primary cancer so that demographic data match.

Three indicators commonly measure the quality of cancer reporting: the proportion of cases reported by death certificate only, the percentage of cases histologically confirmed and the proportion of cases with nonspecific diagnoses. The number of "death certificate only" cases gives an indication of the completeness of reporting. The number of histologically confirmed cases and the number with nonspecific diagnoses indicate the accuracy of diagnostic information.

Each year, NAACCR provides an objective evaluation of state central cancer registry data for completeness, quality and timeliness. The Alaska Cancer Registry has achieved the "silver" certification for 1997 data, and "gold" certification for high quality 1998 data.

Confidentiality of Data

Alaska law demands strict confidentiality and the protection of the identity of both cancer patients and sources reporting to the Registry. An additional law protects facilities and physicians from any liability for their reporting to the registry program. Registry personnel sign a confidentiality policy and are subject to penalty if they disclose confidential information. Access to the Registry office and all Registry data is restricted.

Incidence Data

An incident case is defined as a newly diagnosed primary cancer. A primary cancer, or site, is the cancer of origin, as opposed to a cancer that has spread, or metastasized, from another site. Since individuals can have more than one primary cancer, diagnosed either sequentially or at the same time, the number of incident cases may be greater than the number of persons who were diagnosed with cancer.

This report includes all cancer cases newly diagnosed in 1998 and reported to the Alaska Cancer Registry as of May 15, 2001. Only Alaska residents are included in the incidence data. Incidence data are presented as the number of cases, age-adjusted incidence rates, age-specific rates, and percent frequencies.

The Alaska Cancer Registry follows standard protocols so that its incidence rates can be compared with those from other registries and the U.S. These include the following:

- Most neoplasms are grouped by the organ where they arise. The organ of origination is called the primary site. Appendix I shows the groupings of codes for systems, sites, and sub-sites.
- Only invasive neoplasms, those that have penetrated the basement membrane, are included. The sole exception is cancer of the bladder, for which in situ cases are included with invasive cases. Some cancers are considered systemic, or the organs actually have no basement membrane tissue to penetrate. These cancers are indicated, where reviewed, with in situ as not applicable (n/a).
- Basal cell and squamous cell carcinomas of the skin are excluded unless they occur at a mucocutaneous juncture or external genital areas. In these instances, they are considered cancers of the organs where they are located, not skin cancers.
- Neoplasms of the lymphatic, hematopoietic, and reticuloendothelial systems are grouped by their histology (e.g., leukemia, lymphoma), not by the anatomical sites where they occur. For example, lymphomas of the breast are grouped with non-Hodgkin's lymphomas rather than with breast cancers.

Cases that are excluded from the incidence rates and all site totals presented in Sections II and III include the following:

- in situ cases (120 cases – excludes bladder)
- cases with unknown age (0 cases)
- cases with unknown gender (0 cases)

Mortality Data

Mortality data are presented as number of deaths and age-adjusted rates. The most recent U.S. rates are presented for comparison. Appendix I describe the anatomical site groupings of codes from the *International Classification of Diseases, 9th Revision*, which is used for death certificates.

Information on Alaska residents who died from cancer during 1998 was obtained from the Division of Public Health, Bureau of Vital Statistics. Deaths are attributed to cancer only if the underlying cause of death is listed as cancer. Only Alaska residents are included in mortality data.

Age-Adjusted Rates

Overall, the rates presented are age-adjusted (as indicated). Age-adjustment is a statistical process, which allow communities/states with different age structures to be compared. Age adjustment

removes the influence of the differences in age distributions that occur from one population to another. Since the risk of developing cancer is strongly associated with age, a geographic area with a high proportion of elderly residents could not be accurately compared with a younger-age populated area unless rates were adjusted to a standard reference population.

A community with an older population will almost always have more cancer than one with a younger population. This will be true even if individuals of the same age in the two communities have the same risk of developing cancer. This is called “confounding” and it occurs when the measurement of the association between the exposure and the disease is mixed up with some extraneous factor (a confounding variable). Age-adjustment is an internationally approved statistical method to remove confounding caused by age.

The incidence rates presented have been adjusted by the direct method to the age distribution of the 1970 U.S. population (Appendix II). They can be compared directly with each other or with any published rates that have been adjusted to the same population and are expressed per 100,000 persons.

Age-Specific Rates

Age-specific rates are calculated by dividing the number of cases for a given age-group by the total population of that age-group. These are expressed as rate per 100,000 persons and show the variation in cancer incidence and mortality by age group for males, females and the total population for all cancers combined.

U.S. Rates

Comparison U.S. incidence rates are “national” rates that are age-adjusted rates calculated from a sample population based on the Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute (NCI). The SEER program currently includes five state registries (Connecticut, Hawaii, Iowa, New Mexico, Utah) and six metropolitan areas (Detroit, Atlanta, San Francisco/Oakland, Seattle/Puget Sound, Los Angeles, and San Jose-Monterey area). These registries represent about 13.9% of the U.S. population. U.S. rates presented are age-adjusted and are the most current published rates.

The NCI updates cancer statistics annually in a publication called the [SEER Cancer Statistics Review](#). The data are also available on an interactive CD-ROM, SEER*STAT. The U.S. rates presented are from the [Cancer Statistics Review](#) and SEER*STAT for all races combined.

Mortality rates for the U.S. are based on data from the National Center for Health Statistics, to which all states submit death certificate information. This data was accessed through SEER [Cancer Statistics Review](#) and SEER*STAT. The U.S. mortality rates presented are also age-adjusted to the 1970 U.S. population.

Alaska Population Estimates

The computation of incidence, mortality and age-specific rates requires population determination by age, sex, and race. This information was obtained from the Alaska Department of Labor for 1998, and is the same population data used by the Alaska Bureau of Vital Statistics (Appendix III).

Race/Ethnicity

Information on race is missing on 1.0% (n=18) of the 1998 cases. Information on Hispanic ethnicity is not included in this report as it has not been consistently reported to the Registry (more than 50% of cases are missing ethnicity information).

Borough/Census Area

The borough/census areas described are Alaska's current designated census areas. This report provides rates based on three years of aggregated data for these geographic areas for all cancers combined and the predominant types of cancer.

Small Populations and Few Events

Data based on small populations and a small number of events require careful analysis. Alaska's population is divided into many small groups (census areas) where variation is expected and may be attributed to chance. Rates that are based on fewer than five cases are considered unstable because they have a large standard error. For this reason, in Sections II and III, where numbers are less than 5, a "n/c" indicates a rate is not calculated. In Section III - Tables 3 and 4, where numbers are fewer than 10, a "n/c" indicates a rate is not calculated.

Confidence Intervals

Confidence intervals for directly standardized rates were calculated for incidence and mortality based on the Fay/Feuer method.¹

A confidence interval is a range around a measurement that conveys how precise the measurement is. Because random variation can change the number of particular cases of cancer diagnosed each year, we cannot exactly specify the long-term incidence of a type of cancer for any particular year. For example, perhaps 2 cases of stomach cancer were diagnosed in early January 1999 instead of December 1998 because the physicians (or the patients) were on vacation at the end of 1998. The incidence of stomach cancer in 1998 appears lower than it might have been otherwise. If the two stomach cancers were two of only four for the entire year, then attributing those cases to 1999 instead of 1998 more drastically affects the estimate of stomach cancer incidence than if those cases were two of 40 stomach cancers for the year.

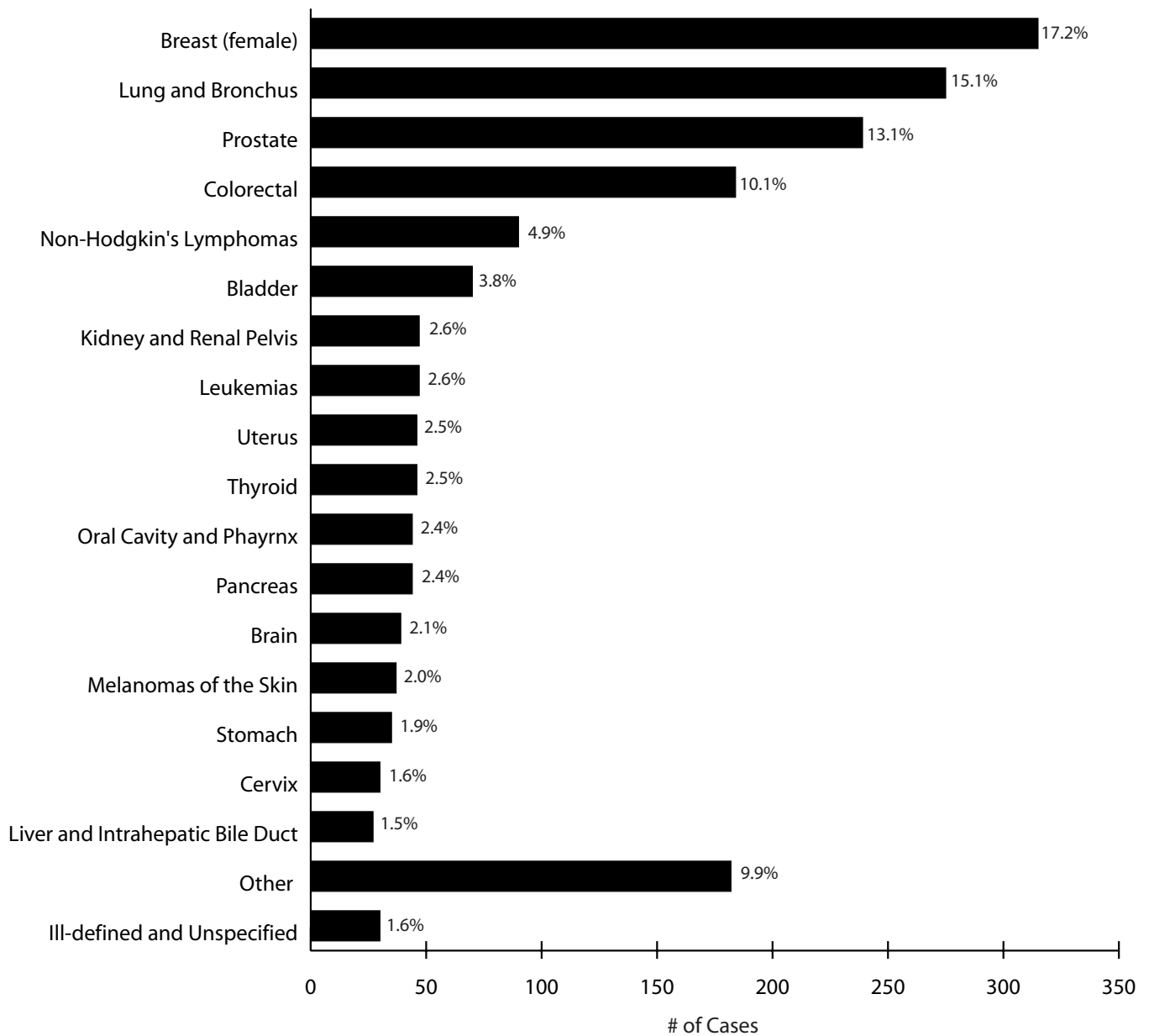
Confidence intervals provide a method to quantify how accurate we believe the estimate to be (which as illustrated above, depends on the number of cases observed). A 95% confidence interval around an estimate specifies a range in which we believe the true estimate lies, with 95% probability.

Confidence intervals are also used as another way to test statistical significance. If the confidence intervals of two different rates intersect one another, then there is no difference between the two rates. However, if the confidence intervals do not intersect one another then there is statistical significance. This is indicated in this report as "significantly different".

¹ Fay MP and Feuer EJ. Confidence Intervals for directly standardized rates: a method based on the gamma distribution. *Statistics in Medicine*, vol. 16, 791-801 (1997).

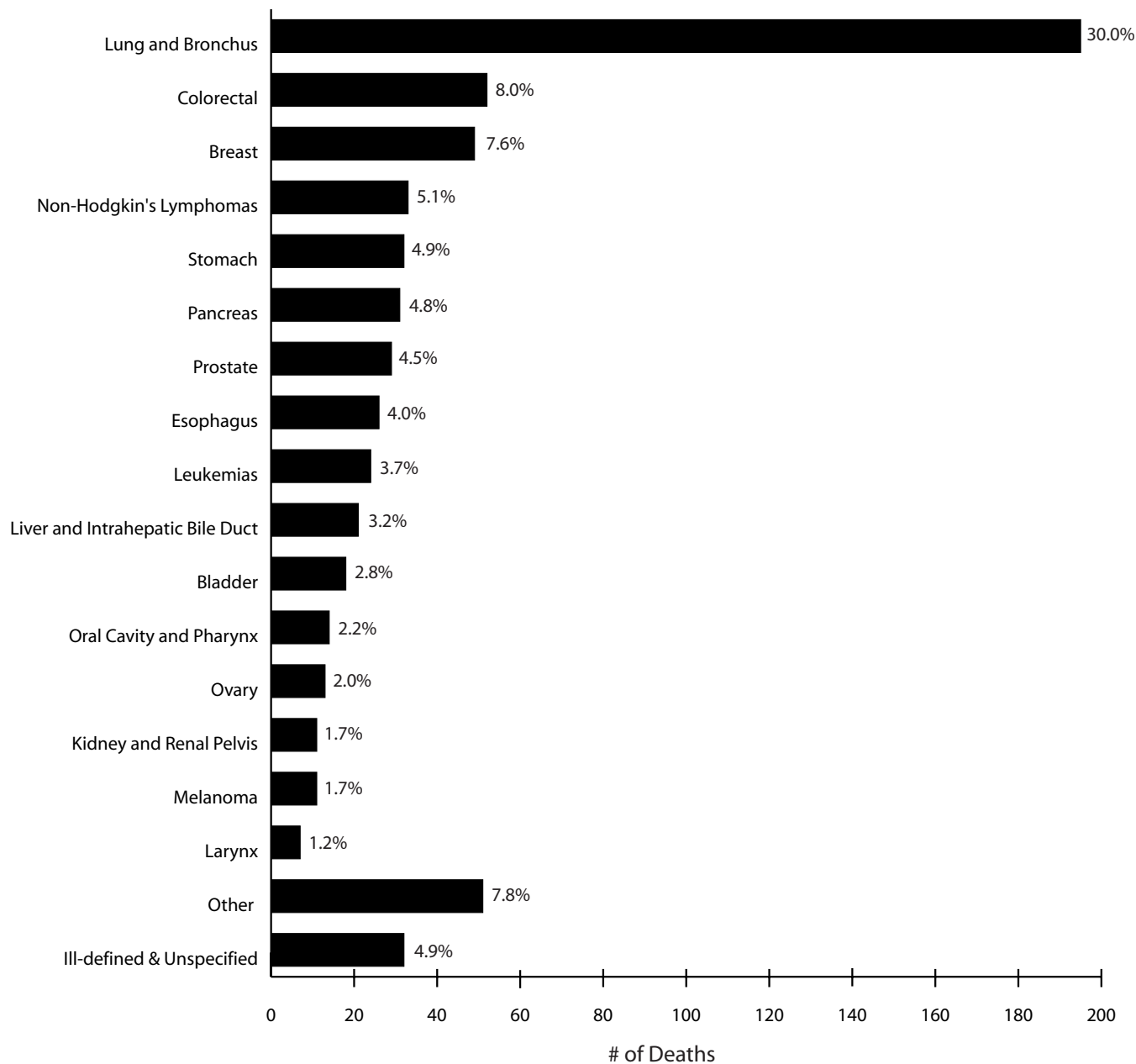
Section I

1998 Invasive Cancer Cases (n=1827) - Alaska Residents

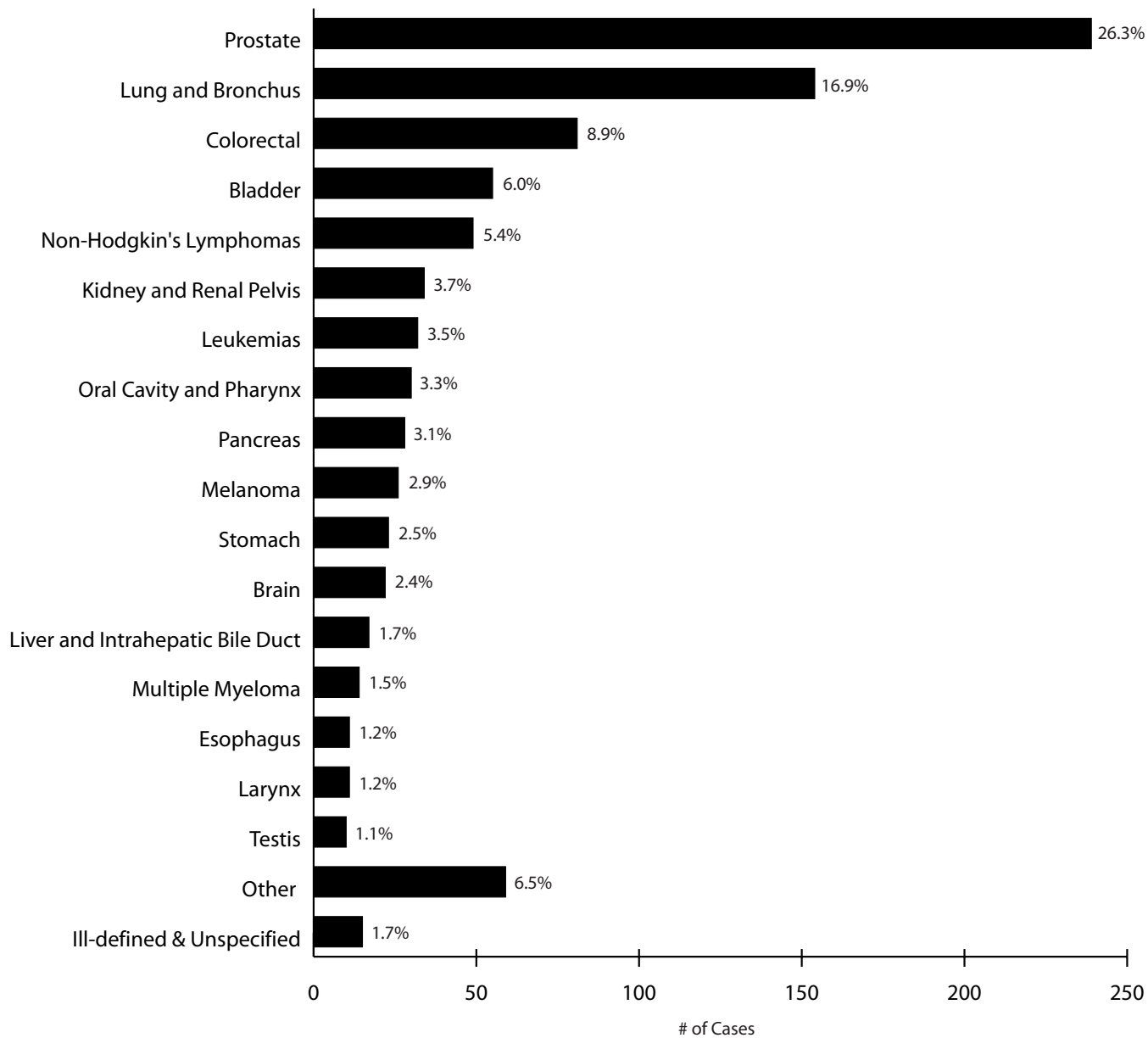


Percent of Cancer Deaths by Site

1998 Cancer Deaths (n=649) - Alaska Residents

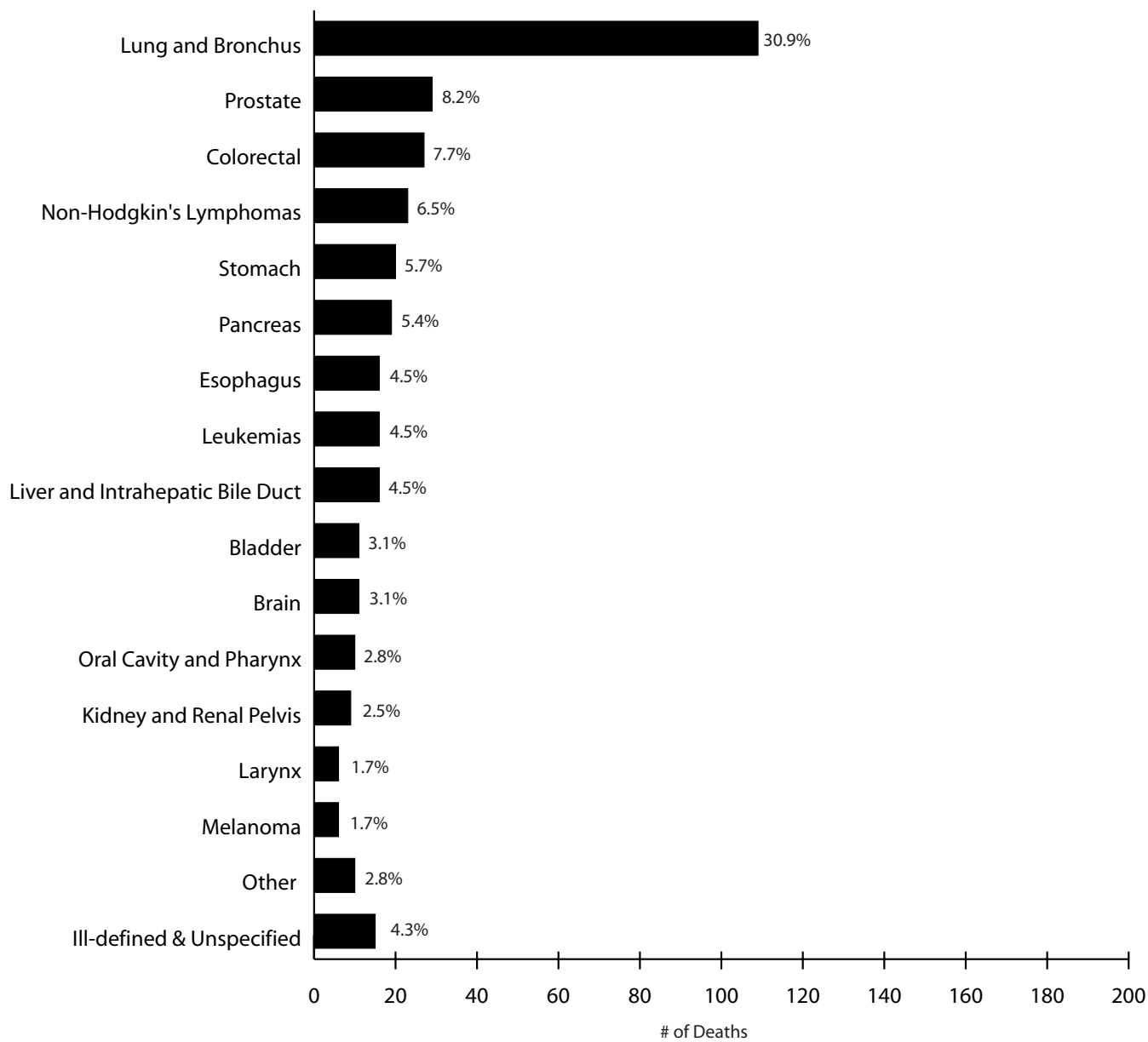


1998 Male Invasive Cancer Cases (n=910) - Alaska Residents

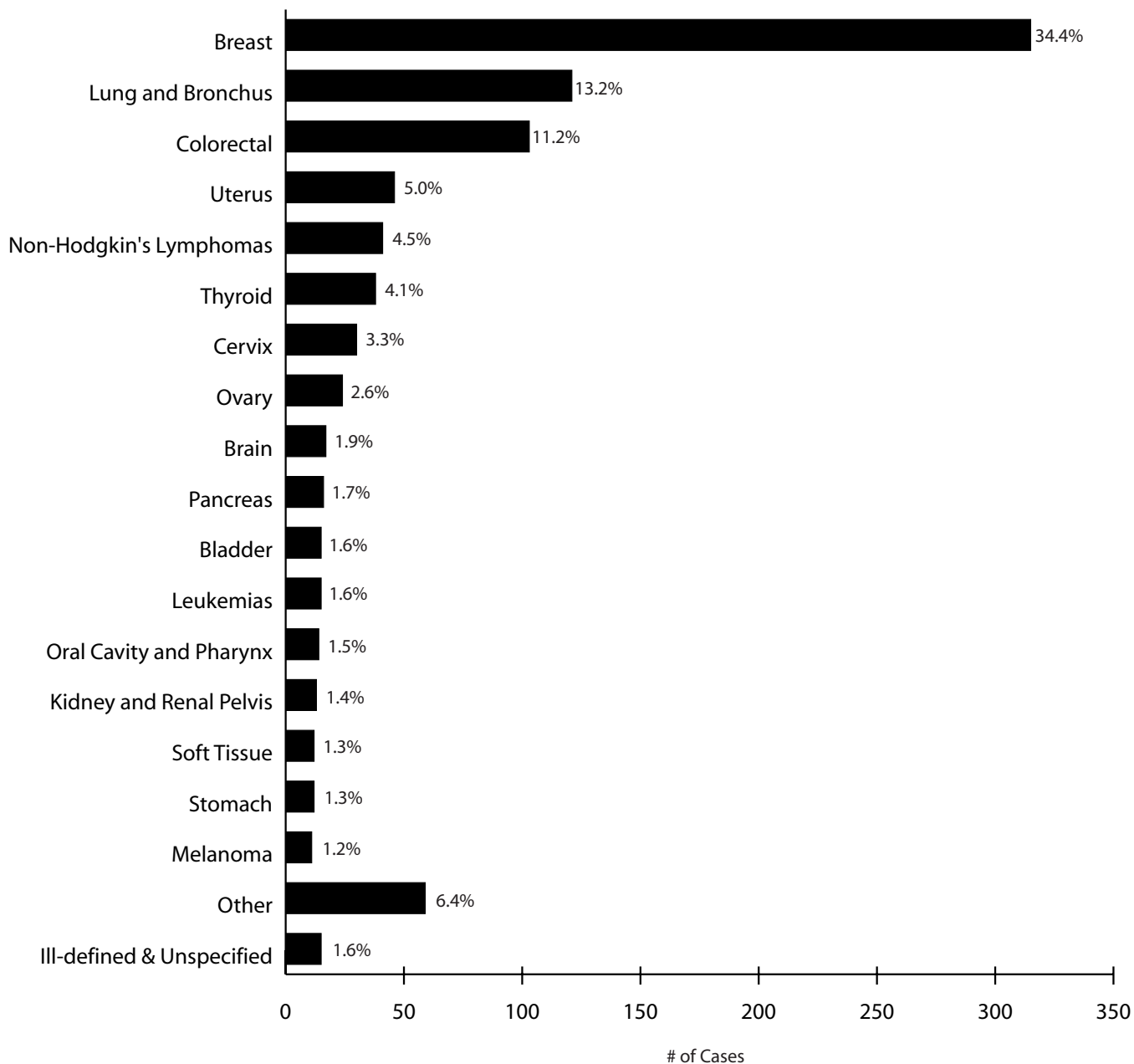


Percent of Male Cancer Deaths by Site

1998 Male Cancer Deaths (n=353) - Alaska Residents

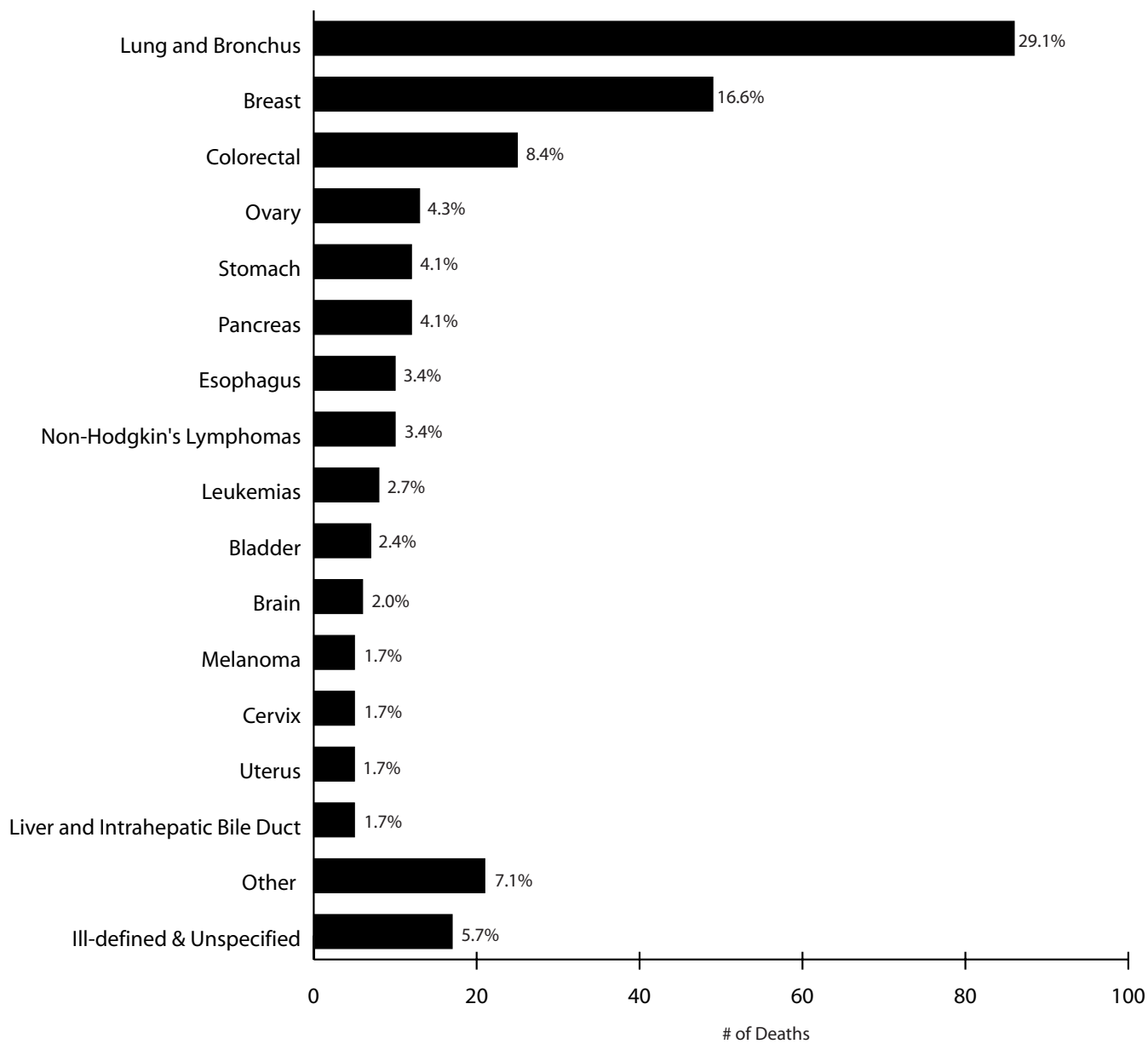


1998 Female Invasive Cancer Cases (n=917) - Alaska Residents



Percent of Female Cancer Deaths by Site

1998 Female Cancer Deaths (n=296) - Alaska Residents



Section II

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C00.0 - C80.9, and including all morphology codes except those indicating benign neoplasms. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 140.0 - 208.9.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer ⁺	29	91	120
Invasive cancer*	910	917	1827
Incidence rate*	449.8	387.3	413.5
1998 U.S. rate*	452.2	355.9	395.3

+Excludes in situ of bladder

*Excludes in situ cases except bladder

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	353	296	649
Mortality rate	183.7	143.2	161.7
1998 U.S. rate	198.5	135.3	161.5

Invasive Cancer by Borough/Census Area

Aleutians East	4	Kenai Peninsula	176	Skagway-Hoonah-Angoon	7
Aleutians West	14	Ketchikan Gateway	56	Southeast Fairbanks	25
Anchorage	725	Kodiak Island	49	Valdez-Cordova	37
Bethel	24	Lake and Peninsula	3	Wade Hampton	14
Bristol Bay	0	Matanuska-Susitna	210	Wrangell-Petersburg	28
Denali	2	Nome	30	Yakutat	5
Dillingham	16	North Slope	13	Yukon-Koyukuk	27
Fairbanks North Star	193	Northwest Arctic	16	Unknown	2
Haines	9	Prince of Wales-Outer Ketchikan	20		
Juneau	85	Sitka	37		

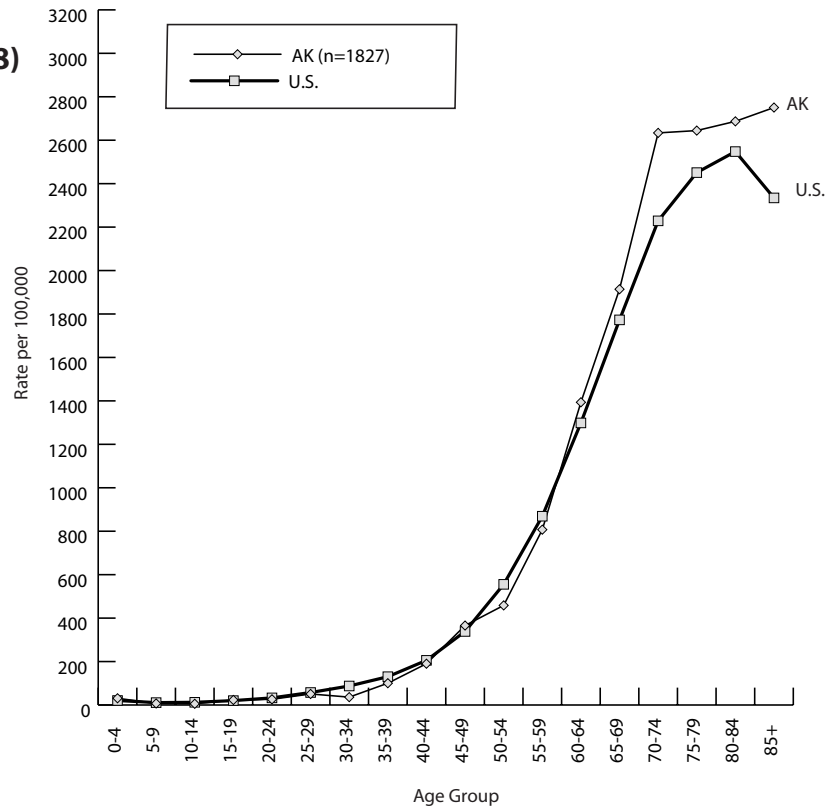
Stage at Diagnosis**

Alaska (n = 1827)

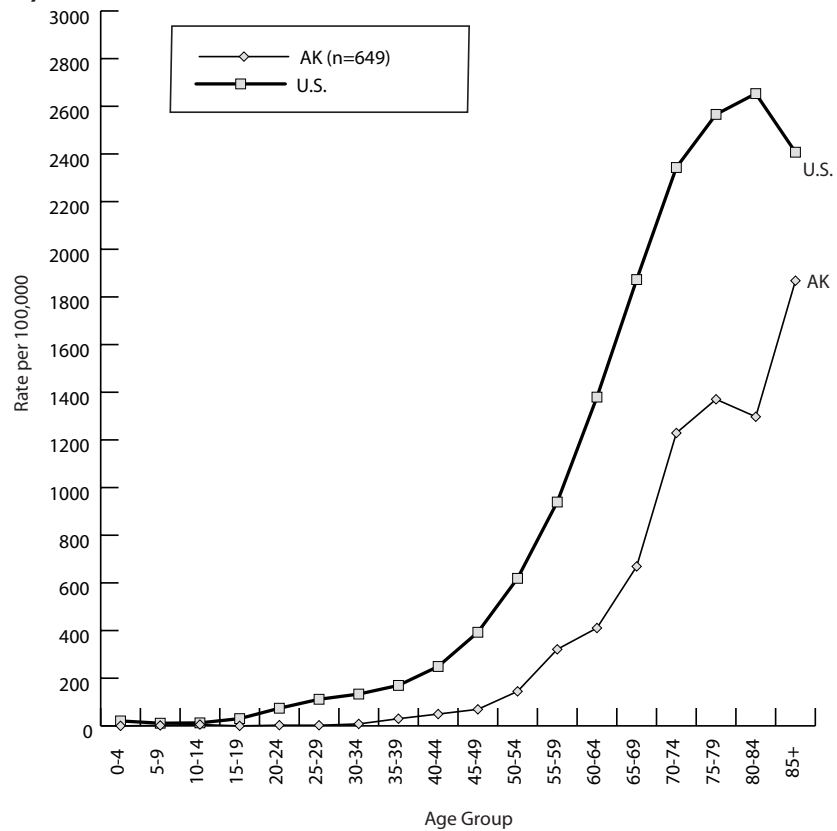
**Stage at Diagnosis is unique for each primary site and, therefore, cannot be applied to "All Cancers Combined".

All Cancers Combined (cont.)

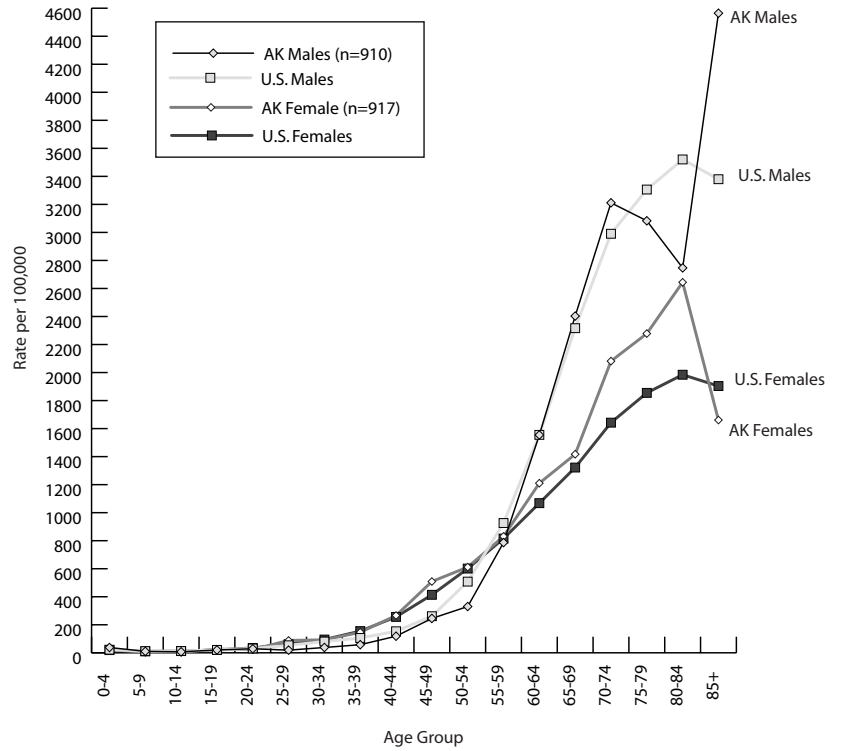
**Age-Specific Incidence Rates
Alaska (1998) and U.S. (1992-98)**



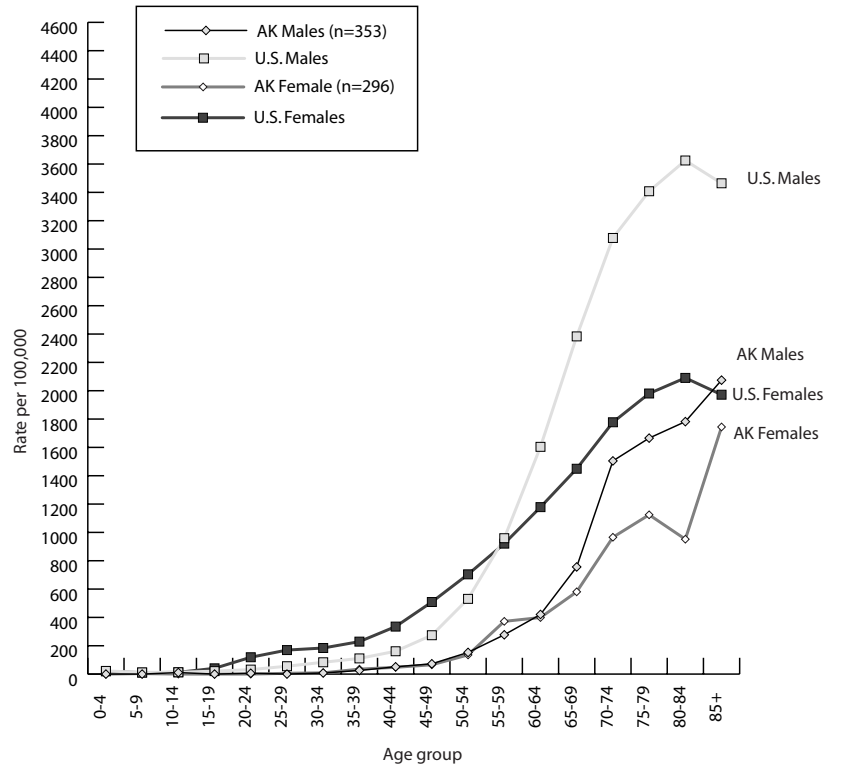
**Age-Specific Mortality Rates
Alaska (1998) and U.S. (1992-98)**



**Age-Specific Incidence Rates by Sex
Alaska (1998) and U.S. (1992-98)**



**Age-Specific Mortality Rates by Sex
Alaska (1998) and U.S. (1992-98)**



Brain and Other Nervous System

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C70.0 - 70.9, C71.0 - 71.9, and C72.0 - C72.9 and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 191.0 - 191.9, 192.0 - 192.3, and 192.8 - 192.9.

1998 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	22	17	39
Incidence rate	7.2	6.0	6.7
1998 U.S. rate*	6.8	5.0	5.8

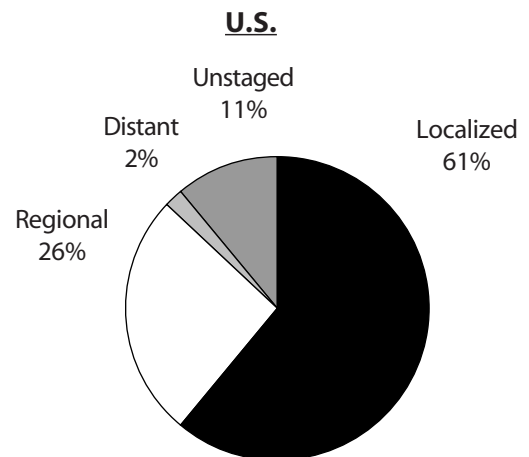
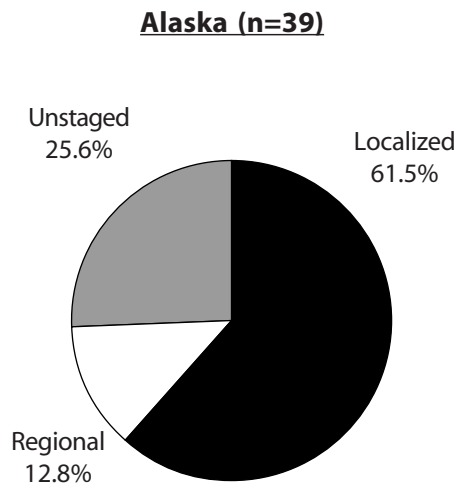
*Excludes in situ cases

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	11	6	17
Mortality rate	4.3	2.8	3.6
1998 U.S. rate	5.0	3.3	4.1

Brain Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	6	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	2	Southeast Fairbanks	2
Anchorage	15	Kodiak Island	1	Valdez-Cordova	0
Bethel	0	Lake and Peninsula	0	Wade Hampton	1
Bristol Bay	0	Matanuska-Susitna	3	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	1
Dillingham	0	North Slope	1	Yukon-Koyukuk	0
Fairbanks North Star	3	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	1		
Juneau	3	Sitka	0		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 31.8%

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C50.0 - C50.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 174.0 - 174.9.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

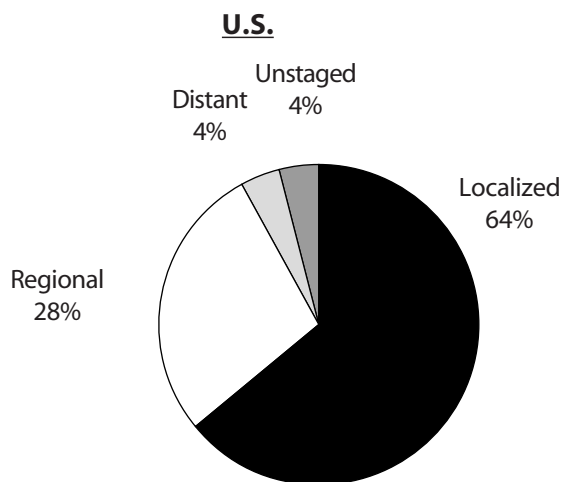
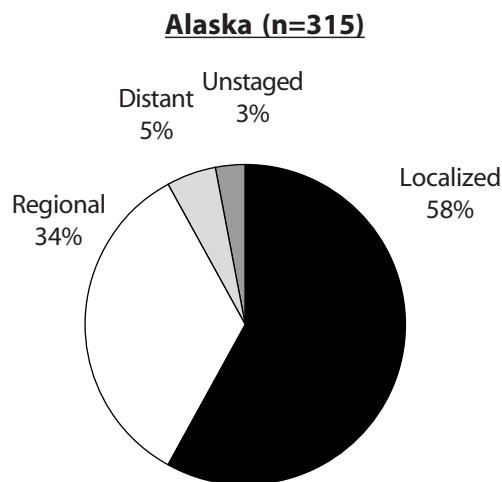
<u>Incidence</u>	<u>Female</u>
In situ cancer	66
Invasive cancer	315
Incidence rate*	122.1
1998 U.S. rate*	118.1
*Excludes in situ cases	

<u>Mortality</u>	<u>Female</u>
Deaths	49
Mortality rate	21.3
1998 U.S. rate	22.7

Invasive Breast Cancer by Borough/Census Area

Aleutians East	1	Kenai Peninsula	26	Skagway-Hoonah-Angoon	0
Aleutians West	3	Ketchikan Gateway	8	Southeast Fairbanks	7
Anchorage	144	Kodiak Island	11	Valdez-Cordova	5
Bethel	3	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	30	Wrangell-Petersburg	4
Denali	2	Nome	4	Yakutat	0
Dillingham	5	North Slope	1	Yukon-Koyukuk	5
Fairbanks North Star	38	Northwest Arctic	0	Unknown	0
Haines	1	Prince of Wales-Outer Ketchikan	0		
Juneau	12	Sitka	5		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 85.5% Localized 96.4%

Cervix

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C53.0 - C53.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 180.0 - 180.9.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

<u>Incidence</u>	<u>Female</u>
Invasive cancer	30
Incidence rate	10.1
1998 U.S. rate*	7.5

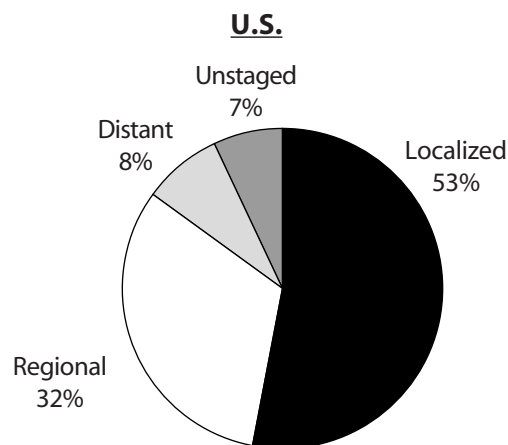
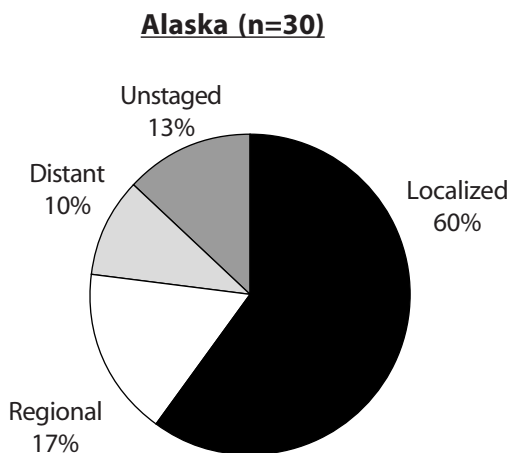
*Excludes in situ cases

<u>Mortality</u>	<u>Female</u>
Deaths	5
Mortality rate	1.6
1998 U.S. rate	2.5

Cervical Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	0	Skagway-Hoonah-Angoon	1
Aleutians West	0	Ketchikan Gateway	2	Southeast Fairbanks	1
Anchorage	10	Kodiak Island	3	Valdez-Cordova	0
Bethel	0	Lake and Peninsula	0	Wade Hampton	1
Bristol Bay	0	Matanuska-Susitna	3	Wrangell-Petersburg	2
Denali	0	Nome	0	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	3	Northwest Arctic	1	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	3		
Juneau	0	Sitka	0		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 69.9% Localized 91.9%

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C18.0 - C18.9, C19.9, C20.9 and C26.0, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 153.0 - 153.9, 154.0 - 154.1 and 159.0.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	2	7	9
Invasive cancer	81	103	184
Incidence rate*	43.0	50.7	47.1
1998 U.S. rate*	51.7	38.2	44.1

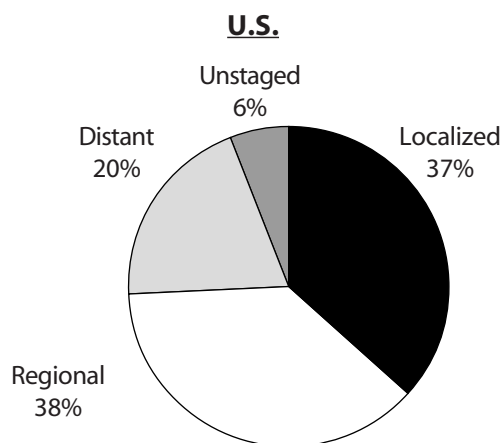
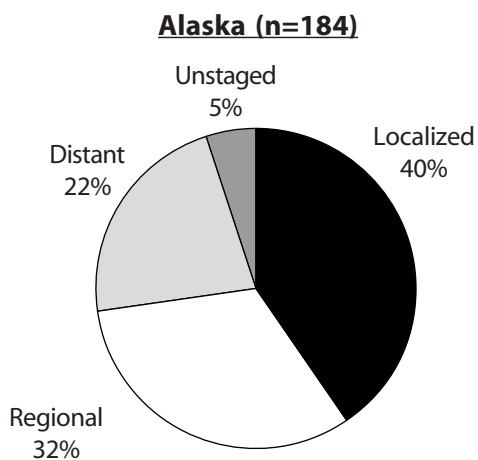
*Excludes in situ cases

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	27	25	52
Mortality rate	13.2	13.3	13.7
1998 U.S. rate	19.6	13.7	16.3

Invasive Colorectal Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	11	Skagway-Hoonah-Angoon	0
Aleutians West	2	Ketchikan Gateway	2	Southeast Fairbanks	0
Anchorage	76	Kodiak Island	2	Valdez-Cordova	4
Bethel	8	Lake and Peninsula	0	Wade Hampton	2
Bristol Bay	0	Matanuska-Susitna	24	Wrangell-Petersburg	1
Denali	0	Nome	4	Yakutat	0
Dillingham	3	North Slope	3	Yukon-Koyukuk	5
Fairbanks North Star	13	Northwest Arctic	5	Unknown	0
Haines	1	Prince of Wales-Outer Ketchikan	6		
Juneau	7	Sitka	5		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 61.1% Localized 89.7%

Kidney and Renal Pelvis

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C64.9 and C65.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 189.0 and 189.1.

1998 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

Incidence	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	2	0	2
Invasive cancer	34	13	47
Incidence rate*	13.0	5.2	9.0
1998 U.S. rate*	13.3	6.8	9.7

*Excludes in situ cases

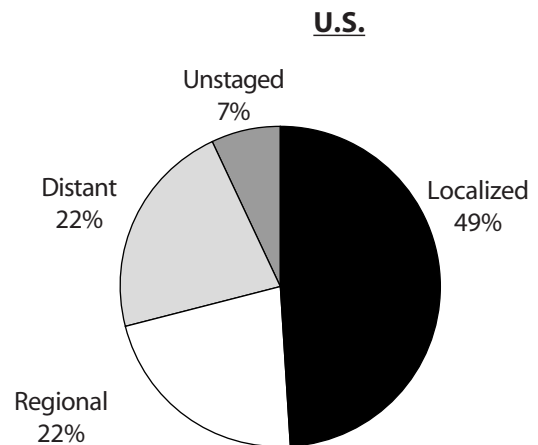
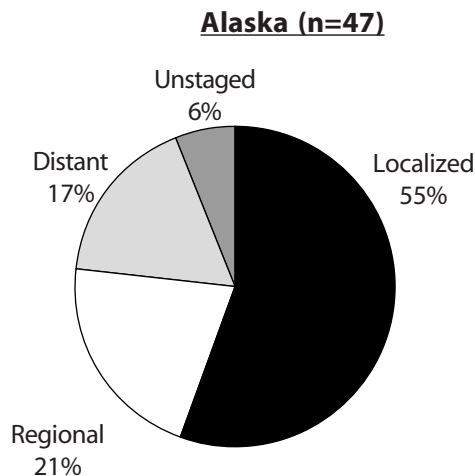
Mortality	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	9	2	11
Mortality rate	5.0	n/c**	2.6
1998 U.S. rate	5.1	2.3	3.5

**n/c=rate not included if n<5

Kidney and Renal Pelvis Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	5	Skagway-Hoonah-Angoon	0
Aleutians West	1	Ketchikan Gateway	0	Southeast Fairbanks	1
Anchorage	18	Kodiak Island	2	Valdez-Cordova	1
Bethel	0	Lake and Peninsula	0	Wade Hampton	1
Bristol Bay	0	Matanuska-Susitna	6	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	0
Dillingham	0	North Slope	1	Yukon-Koyukuk	1
Fairbanks North Star	7	Northwest Arctic	2	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	0	Sitka	1		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 61.7% Localized 89.2%

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 code C42.1 with morphology codes 9800 - 9941. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 204.0 - 208.9.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

Incidence	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer*	n/a	n/a	n/a
Invasive cancer	32	15	47
Incidence rate	16.7	6.1	11.0
1998 U.S. rate	12.1	7.7	9.6

*In situ cancers are not applicable (n/a)

Mortality	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	16	8	24
Mortality rate	9.4	3.4	5.9
1998 U.S. rate	7.9	4.6	6.0

Leukemias by Borough/Census Area

Aleutians East	0	Kenai Peninsula	8	Skagway-Hoonah-Angoon	0
Aleutians West	2	Ketchikan Gateway	1	Southeast Fairbanks	2
Anchorage	11	Kodiak Island	1	Valdez-Cordova	0
Bethel	1	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	5	Wrangell-Petersburg	2
Denali	0	Nome	3	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	1
Fairbanks North Star	6	Northwest Arctic	0	Unknown	0
Haines	1	Prince of Wales-Outer Ketchikan	0		
Juneau	3	Sitka	0		

Stage at Diagnosis**

**All leukemias are staged as distant/systemic disease

5 year Survival (U.S., 1998)
All leukemias 44.7%

Liver and Intrahepatic Bile Duct

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C22.0 and C22.1, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 155.0 - 155.2.

1998 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

Incidence	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	17	10	27
Incidence rate	6.6	5.4	6.3
1998 U.S. rate*	6.6	2.4	4.4

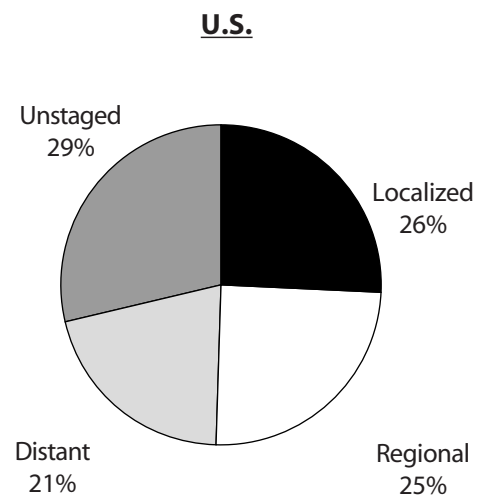
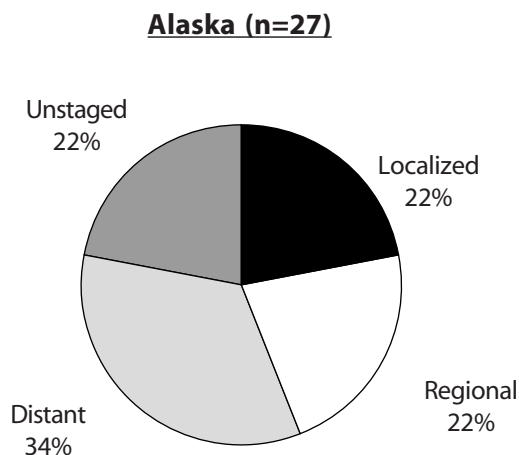
*Excludes in situ cases

Mortality	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	16	5	21
Mortality rate	7.6	2.9	5.4
1998 U.S. rate	5.5	2.3	3.8

Liver & Intrahepatic Bile Duct Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	1	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	0	Southeast Fairbanks	1
Anchorage	15	Kodiak Island	0	Valdez-Cordova	1
Bethel	0	Lake and Peninsula	0	Wade Hampton	2
Bristol Bay	0	Matanuska-Susitna	3	Wrangell-Petersburg	0
Denali	0	Nome	2	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	2	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	0	Sitka	0		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 6% Localized 14.1%

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C34.0 - C34.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 162.2 - 162.9.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	1	0	1
Invasive cancer	154	121	275
Incidence rate*	79.1	60.6	69.6
1998 U.S. rate*	69.8	43.4	54.8

*Excludes in situ cases

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	109	86	195
Mortality rate	57.6	43.5	50.3
1998 U.S. rate	65.4	34.6	47.9

Lung Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	41	Skagway-Hoonah-Angoon	0
Aleutians West	4	Ketchikan Gateway	15	Southeast Fairbanks	1
Anchorage	86	Kodiak Island	7	Valdez-Cordova	3
Bethel	6	Lake and Peninsula	3	Wade Hampton	4
Bristol Bay	0	Matanuska-Susitna	27	Wrangell-Petersburg	5
Denali	0	Nome	6	Yakutat	1
Dillingham	2	North Slope	3	Yukon-Koyukuk	4
Fairbanks North Star	27	Northwest Arctic	2	Unknown	0
Haines	2	Prince of Wales-Outer Ketchikan	5		
Juneau	12	Sitka	9		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 14.5% Localized 48.0%

Melanomas of the Skin

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C44.0 - C44.9, including only morphology codes 8720-8790. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 172.2 - 172.9.

1998 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	13	10	23
Invasive cancer	26	11	37
Incidence rate*	10.3	3.3	6.8
1998 U.S. rate*	17.3	12.0	14.3

*Excludes in situ cases

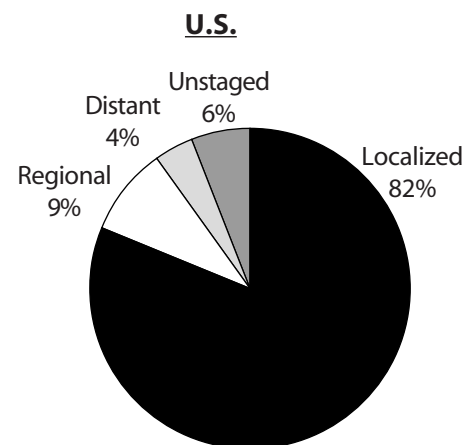
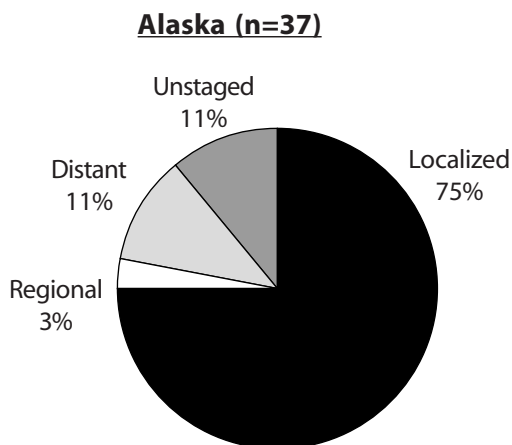
<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	6	5	11
Mortality rate	2.1	2.3	2.2
1998 U.S. rate	3.3	1.4	2.3

**n/c = rate not calculated if n<5

Invasive Melanomas of the Skin by Borough/Census Area

Aleutians East	0	Kenai Peninsula	5	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	3	Southeast Fairbanks	2
Anchorage	14	Kodiak Island	0	Valdez-Cordova	2
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	6	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	5	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	0	Sitka	0		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 88.8% Localized 96.0%

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using all primary sites with morphology codes 9590 - 9595 and 9670 - 9715. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 200.0 - 200.8, 202.0 - 202.2 and 202.8 - 202.9.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer*	n/a	n/a	n/a
Invasive cancer	49	41	90
Incidence rate	20.9	16.7	18.5
1998 U.S. rate	18.4	13.2	15.6

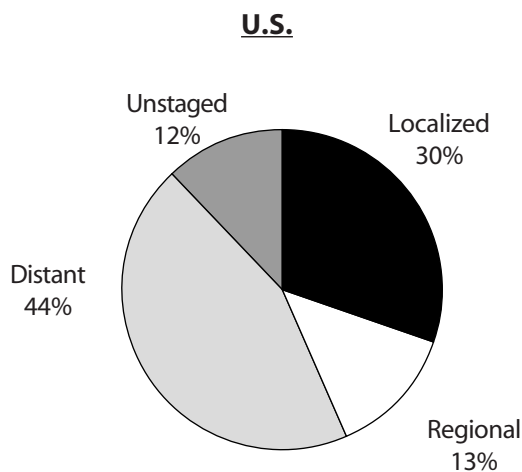
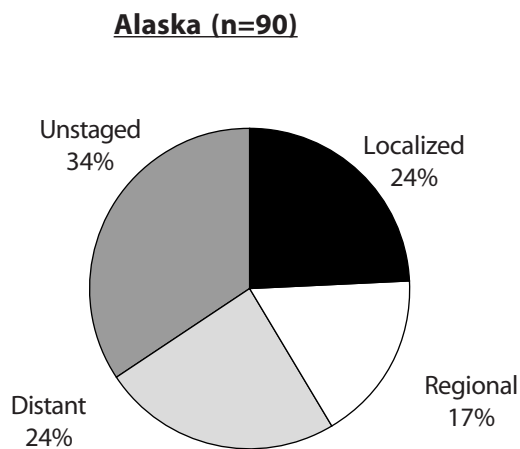
*In situ cancers are not applicable (n/a)

<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	23	10	33
Mortality rate	11.9	4.8	8.0
1998 U.S. rate	8.5	5.6	6.9

Non-Hodgkin's Lymphomas by Borough/Census Area

Aleutians East	0	Kenai Peninsula	11	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	3	Southeast Fairbanks	0
Anchorage	37	Kodiak Island	4	Valdez-Cordova	2
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	8	Wrangell-Petersburg	2
Denali	0	Nome	1	Yakutat	0
Dillingham	2	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	12	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	1		
Juneau	6	Sitka	1		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 53.1%

Oral Cavity and Pharynx

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C00.0 - C14.8, and excluding morphology codes 9590 - 9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 140.0 - 149.9.

1998 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	2	0	2
Invasive cancer	30	14	44
Incidence rate*	11.2	6.2	8.8
1998 U.S. rate*	13.6	5.6	9.3

*Excludes in situ cases

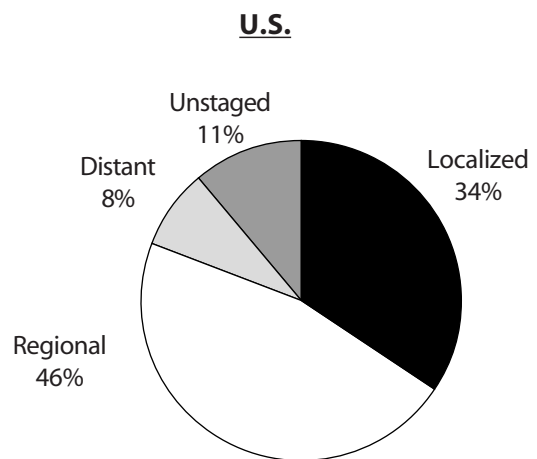
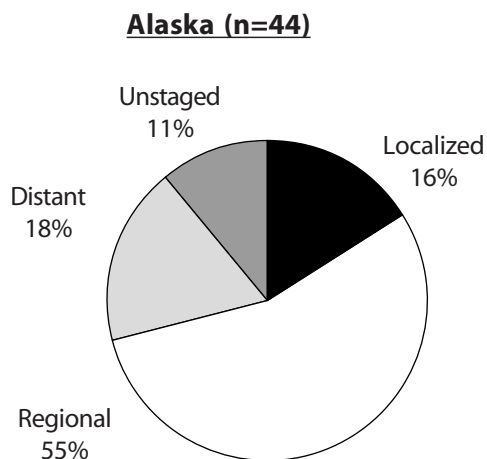
<u>Mortality</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	10	4	14
Mortality rate	4.6	n/c**	3.3
1998 U.S. rate	3.8	1.4	2.5

**n/c = rate not calculated if n<5

Invasive Cancer of the Oral Cavity and Pharynx by Borough/Census Area

Aleutians East	1	Kenai Peninsula	3	Skagway-Hoonah-Angoon	0
Aleutians West	1	Ketchikan Gateway	1	Southeast Fairbanks	1
Anchorage	14	Kodiak Island	1	Valdez-Cordova	4
Bethel	1	Lake and Peninsula	0	Wade Hampton	2
Bristol Bay	0	Matanuska-Susitna	7	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	0
Dillingham	1	North Slope	1	Yukon-Koyukuk	0
Fairbanks North Star	4	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	1		
Juneau	1	Sitka	0		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 55.8% Localized 81.9%

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C25.0 - C25.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 code 157.0 - 157.9.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

Incidence	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	28	16	44
Incidence rate	14.6	7.2	10.7
1998 U.S. rate*	9.9	7.7	8.7

*Excludes in situ cases

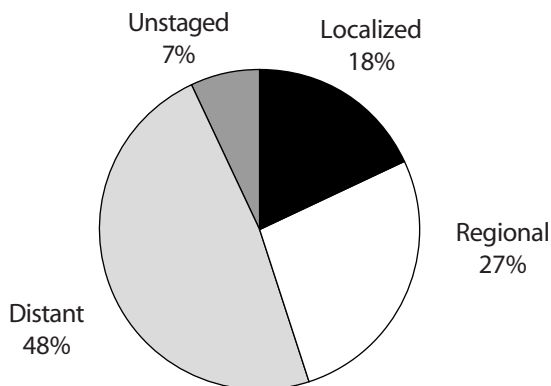
Mortality	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	19	12	31
Mortality rate	9.4	5.9	7.6
1998 U.S. rate	9.8	7.2	8.3

Pancreatic Cancer by Borough/Census Area

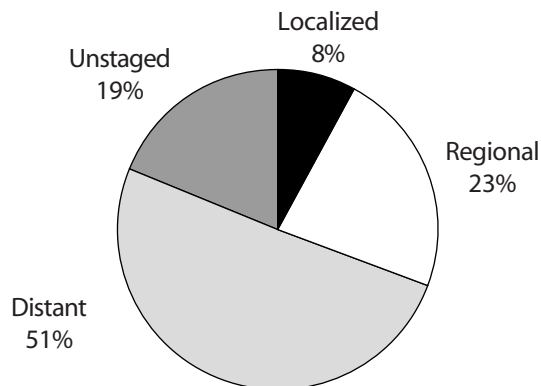
Aleutians East	0	Kenai Peninsula	6	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	2	Southeast Fairbanks	0
Anchorage	12	Kodiak Island	1	Valdez-Cordova	0
Bethel	1	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	3	Wrangell-Petersburg	0
Denali	0	Nome	1	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	2
Fairbanks North Star	8	Northwest Arctic	0	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	0		
Juneau	5	Sitka	3		

Stage at Diagnosis

Alaska (n=44)



U.S.



5 year Survival (U.S., 1998)
All Stages 4.3% Localized 16.2%

Prostate

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 code C61.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 185.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

<u>Incidence</u>	<u>Male</u>
In situ cancer	0
Invasive cancer	239
Incidence rate	130.9
1998 U.S. rate*	137.3

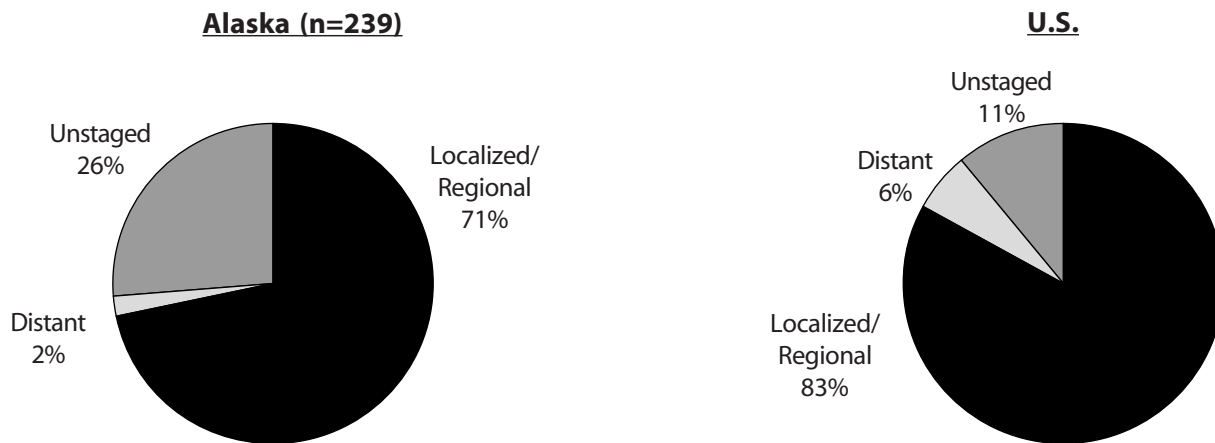
*Excludes in situ cases

<u>Mortality</u>	<u>Male</u>
Deaths	29
Mortality rate	18.2
1998 U.S. rate	21.5

Prostate Cancer by Borough/Census Area

Aleutians East	1	Kenai Peninsula	27	Skagway-Hoonah-Angoon	2
Aleutians West	1	Ketchikan Gateway	4	Southeast Fairbanks	4
Anchorage	101	Kodiak Island	6	Valdez-Cordova	4
Bethel	1	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	32	Wrangell-Petersburg	4
Denali	0	Nome	0	Yakutat	2
Dillingham	0	North Slope	0	Yukon-Koyukuk	3
Fairbanks North Star	21	Northwest Arctic	2	Unknown	0
Haines	1	Prince of Wales-Outer Ketchikan	1		
Juneau	19	Sitka	3		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 96.2% Local/Regional 100%

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C16.0 - C16.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 code 151.0 - 151.9.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

Incidence	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	23	12	35
Incidence rate	12.3	5.2	8.6
1998 U.S. rate*	9.2	4.5	6.6

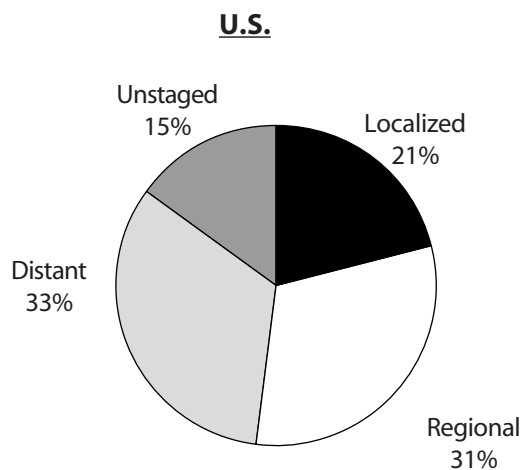
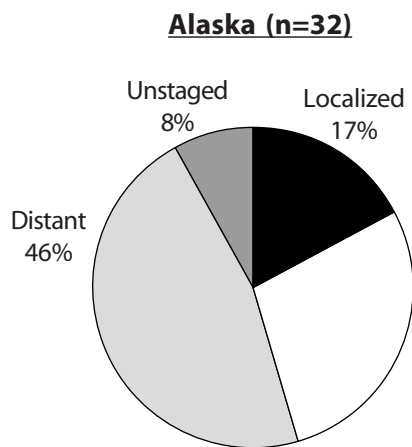
*Excludes in situ cases

Mortality	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	20	12	32
Mortality rate	9.3	4.7	6.9
1998 U.S. rate	5.3	2.6	3.7

Stomach Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	4	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	1	Southeast Fairbanks	0
Anchorage	13	Kodiak Island	0	Valdez-Cordova	0
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	2	Wrangell-Petersburg	0
Denali	0	Nome	3	Yakutat	0
Dillingham	1	North Slope	1	Yukon-Koyukuk	3
Fairbanks North Star	2	Northwest Arctic	2	Unknown	0
Haines	0	Prince of Wales-Outer Ketchikan	1		
Juneau	0	Sitka	2		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 21.8% Localized 59%

Thyroid

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 code C73.9, excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 code 193.

1998 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

Incidence	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ cancer	0	0	0
Invasive cancer	8	38	46
Incidence rate	2.3	12.4	7.1
1998 U.S. rate*	3.2	8.6	6.0

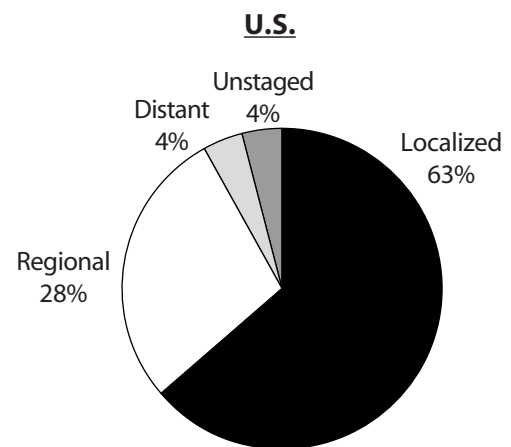
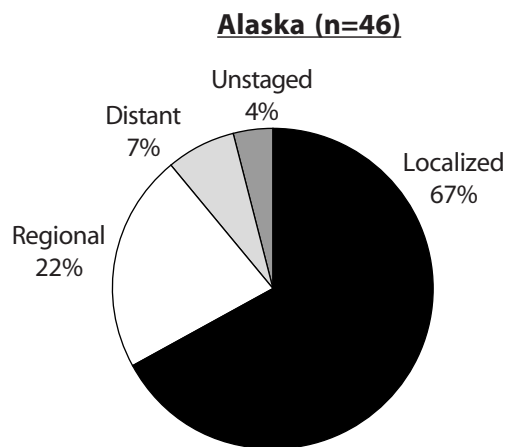
*Excludes in situ cases

Mortality	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	0	0	0
Mortality rate	-	-	-
1998 U.S. rate	0.3	0.4	0.3

Thyroid Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	3	Skagway-Hoonah-Angoon	1
Aleutians West	0	Ketchikan Gateway	3	Southeast Fairbanks	0
Anchorage	22	Kodiak Island	1	Valdez-Cordova	0
Bethel	1	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	7	Wrangell-Petersburg	0
Denali	0	Nome	0	Yakutat	0
Dillingham	0	North Slope	1	Yukon-Koyukuk	0
Fairbanks North Star	3	Northwest Arctic	0	Unknown	0
Haines	1	Prince of Wales-Outer Ketchikan	0		
Juneau	2	Sitka	1		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 95.2% Localized 99.3%

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C67.0 - C67.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 188.0 - 188.9.

**1998 Alaska Residents
Incidence and Mortality Summary by Sex
rates per 100,000 population age-adjusted to 1970 U.S. population**

Incidence	<u>Male</u>	<u>Female</u>	<u>Total</u>
In situ and invasive cancer	55	15	70
Incidence rate	32.1	6.8	18.5
1998 U.S. rate	29.0	7.4	16.7

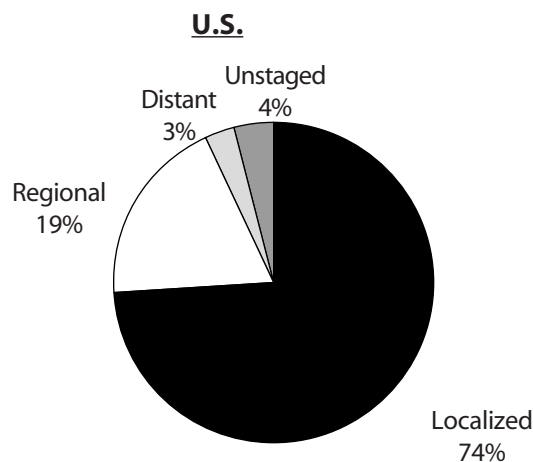
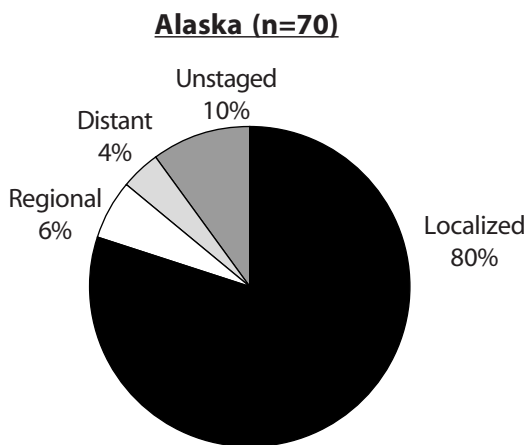
*Urinary Bladder (includes in situ)

Mortality	<u>Male</u>	<u>Female</u>	<u>Total</u>
Deaths	11	7	18
Mortality rate	6.4	3.7	4.9
1998 U.S. rate	5.4	1.7	3.2

Bladder Cancer by Borough/Census Area

Aleutians East	1	Kenai Peninsula	2	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	1	Southeast Fairbanks	0
Anchorage	34	Kodiak Island	1	Valdez-Cordova	2
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	12	Wrangell-Petersburg	1
Denali	0	Nome	0	Yakutat	0
Dillingham	1	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	8	Northwest Arctic	0	Unknown	0
Haines	1	Prince of Wales-Outer Ketchikan	1		
Juneau	2	Sitka	3		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 81.2% Localized 93.7%

Uterus

Data Definition: Incidence data were obtained from the Alaska Cancer Registry using primary site ICD-O-2 codes C54.0 - C54.9 and C55.9, and excluding morphology codes 9590-9989. Mortality data were obtained from Alaska State death certificates using the underlying cause of death ICD-9 codes 179, 182.0 - 182.1 and 182.8.

1998 Alaska Residents Incidence and Mortality Summary by Sex rates per 100,000 population age-adjusted to 1970 U.S. population

<u>Incidence</u>	<u>Female</u>
In situ cancer	0
Invasive cancer	46
Incidence rate	19.9
1998 U.S. rate*	21.8

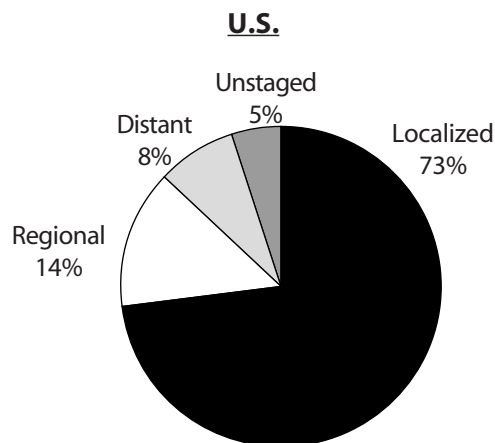
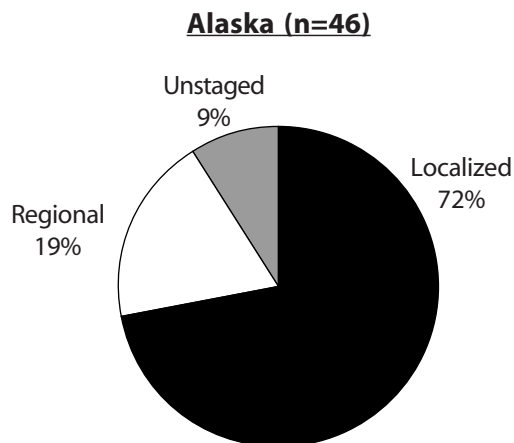
*Excludes in situ cases

<u>Mortality</u>	<u>Female</u>
Deaths	5
Mortality rate	3.0
1998 U.S. rate	3.3

Uterine Cancer by Borough/Census Area

Aleutians East	0	Kenai Peninsula	3	Skagway-Hoonah-Angoon	0
Aleutians West	0	Ketchikan Gateway	2	Southeast Fairbanks	0
Anchorage	22	Kodiak Island	4	Valdez-Cordova	2
Bethel	0	Lake and Peninsula	0	Wade Hampton	0
Bristol Bay	0	Matanuska-Susitna	7	Wrangell-Petersburg	1
Denali	0	Nome	0	Yakutat	0
Dillingham	0	North Slope	0	Yukon-Koyukuk	0
Fairbanks North Star	2	Northwest Arctic	0	Unknown	0
Haines	1	Prince of Wales-Outer Ketchikan	0		
Juneau	1	Sitka	1		

Stage at Diagnosis



5 year Survival (U.S., 1998)
All Stages 84% Localized 96.1%

Section III

Table 1. Age Distribution of Invasive Cancers - Alaska, 1998

Site of Cancer	All Ages		00-04		05-09		10-14		15-19		20-24		25-29		30-34		35-39		40-44	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
All Sites	1827		16	0.9	4	0.2	3	0.2	11	0.6	9	0.5	20	1.1	31	1.7	60	3.3	115	6.3
Oral Cavity and Pharynx	44		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	6.8	3	6.8
Lip	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Tongue	12		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	8.3	0	0.0
Salivary Gland	5		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	1	20.0
Floor of Mouth	6		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Gum and Other Mouth	5		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Nasopharynx	8		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	12.5	0	0.0
Tonsil	6		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	33.3
Oropharynx	1		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hypopharynx	1		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Oral Cavity and Pharynx	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Digestive System	334		0	0.0	0	0.0	0	0.0	1	0.3	1	0.3	2	0.6	3	0.9	8	2.4	12	3.6
Esophagus	18		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Stomach	35		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.9	1	2.9	2	5.7	3	8.6
Small Intestine	3		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Colon and Rectum	184		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.5	2	1.1	3	1.6	3	1.6
Colon excluding Rectum	130		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.8	2	1.5	2	1.5	1	0.8
Cecum	33		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.0	0	0.0	0	0.0
Appendix	2		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0	0	0.0	0	0.0
Ascending Colon	17		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Hepatic Flexure	12		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Transverse Colon	11		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Splenic Flexure	1		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Descending Colon	4		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Sigmoid Colon	40		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.5	1	2.5
Large Intestine, NOS	10		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	10.0	0	0.0	1	10.0	0	0.0
Rectum and Rectosigmoid Junction	54		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	1.9	2	3.7
Rectosigmoid Junction	16		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Rectum	38		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.6	2	5.3
Anus, Anal Canal and Anorectum	5		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	0	0.0

Table 1. Age Distribution of Invasive Cancers - Alaska, 1998

Site of Cancer	All Ages		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
All Sites	1,827	194	10.6	171	9.4	201	11.0	224	12.3	226	12.4	239	13.1	164	9.0	87	4.8	52	2.8	
Oral Cavity and Pharynx	44	8	18.2	5	11.4	8	18.2	2	4.5	3	6.8	8	18.2	2	0.0	2	0.0	0	0.0	
Lip	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Tongue	12	1	8.3	2	16.7	2	16.7	1	8.3	1	8.3	1	8.3	2	16.7	1	8.3	0	0.0	
Salivary Gland	5	1	20.0	0	0.0	1	20.0	0	0.0	0	0.0	1	20.0	0	0.0	0	0.0	0	0.0	
Floor of Mouth	6	2	33.3	2	33.3	0	0.0	0	0.0	0	0.0	2	33.3	0	0.0	0	0.0	0	0.0	
Gum and Other Mouth	5	0	0.0	1	20.0	1	20.0	0	0.0	1	20.0	2	40.0	0	0.0	0	0.0	0	0.0	
Nasopharynx	8	2	25.0	0	0.0	0	0.0	1	12.5	1	12.5	2	25.0	0	0.0	1	12.5	0	0.0	
Tonsil	6	1	16.7	0	0.0	3	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Oropharynx	1	1	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Hypopharynx	1	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Other Oral Cavity and Pharynx	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Digestive System	334	0	0.0	21	6.3	41	12.3	48	14.4	50	15.0	55	16.5	28	8.4	17	5.1	22	6.6	
Esophagus	18	1	5.6	1	5.6	3	16.7	5	27.8	3	16.7	3	16.7	2	11.1	0	0.0	0	0.0	
Stomach	35	1	2.9	1	2.9	3	8.6	2	5.7	9	25.7	5	14.3	4	11.4	1	2.9	2	5.7	
Small Intestine	3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	33.3	1	33.3	0	0.0	1	33.3	
Colon and Rectum	184	16	8.7	11	6.0	23	12.5	26	14.1	25	13.6	29	15.8	16	8.7	14	7.6	15	8.2	
Colon excluding Rectum	130	9	6.9	3	2.3	15	11.5	21	16.2	17	13.1	22	16.9	12	9.2	11	8.5	14	10.8	
Cecum	33	2	6.1	0	0.0	4	12.1	6	18.2	5	15.2	6	18.2	1	3.0	2	6.1	6	18.2	
Appendix	2	1	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Ascending Colon	17	1	5.9	0	0.0	2	11.8	2	11.8	1	5.9	1	5.9	3	17.6	5	29.4	2	11.8	
Hepatic Flexure	12	0	0.0	0	0.0	1	8.3	2	16.7	1	8.3	4	33.3	1	8.3	1	8.3	2	16.7	
Transverse Colon	11	3	27.3	0	0.0	0	0.0	1	9.1	2	18.2	2	18.2	3	27.3	0	0.0	0	0.0	
Splenic Flexure	1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	
Descending Colon	4	0	0.0	1	25.0	1	25.0	1	25.0	0	0.0	1	25.0	0	0.0	0	0.0	0	0.0	
Sigmoid Colon	40	2	5.0	1	2.5	6	15.0	8	20.0	4	10.0	7	17.5	4	10.0	3	7.5	3	7.5	
Large Intestine, NOS	10	0	0.0	1	10.0	1	10.0	1	10.0	4	40.0	0	0.0	0	0.0	0	0.0	1	10.0	
Rectum and Rectosigmoid Junction	54	7	13.0	8	14.8	8	14.8	5	9.3	8	14.8	7	13.0	4	7.4	3	5.6	1	1.9	
Rectosigmoid Junction	16	0	0.0	4	25.0	1	6.3	2	12.5	4	25.0	4	25.0	0	0.0	1	6.3	0	0.0	
Rectum	38	7	18.4	4	10.5	7	18.4	3	7.9	4	10.5	3	7.9	4	10.5	2	5.3	1	2.6	
Anus, Anal Canal and Anorectum	5	1	20.0	1	20.0	0	0.0	1	20.0	0	0.0	1	20.0	0	0.0	0	0.0	0	0.0	

Table 1. Age Distribution of Invasive Cancers - Alaska, 1998

Site of Cancer	All Ages		00-04		05-09		10-14		15-19		20-24		25-29		30-34		35-39		40-44		
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	
Liver and Intrahepatic Bile Duct	27	0.0	0	0.0	0	0.0	0	0.0	1	3.7	1	3.7	0	0.0	0	0.0	0	0.0	1	3.7	
Liver	23	0.0	0	0.0	0	0.0	0	0.0	1	4.3	1	4.3	0	0.0	0	0.0	0	0.0	0	0.0	
Intrahepatic Bile Duct	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	25.0	
Gallbladder	5	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	
Other Biliary	5	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Pancreas	44	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	4.5	2	4.5	
Retropitoneum	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Peritoneum, Omentum and Mesentery	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	33.3	
Other Digestive Organs	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	25.0	
Respiratory System	297	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	2	0.7	13	4.4	
Nose, Nasal Cavity and Middle Ear	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	33.3	0	0.0	0	0.0	0	0.0	
Larynx	13	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	7.7	0	0.0	
Lung and Bronchus	275	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4	13	4.7	
Pleura	6	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Trachea, Mediastinum and Other Respiratory Organs	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	
Bones and Joints	3	0.0	0	0.0	0	0.0	0	0.0	1	33.3	0	0.0	0	0.0	0	0.0	0	0.0	1	33.3	
Soft Tissue including Heart	18	2	11.1	0	0.0	0	0.0	1	5.6	1	5.6	1	5.6	1	5.6	2	11.1	2	11.1	3	16.7
Skin excluding Basal and Squamous	46	1	2.2	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	1	2.2	1	2.2	4	8.7	5	10.9
Melanomas of the Skin	37	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.7	0	0.0	1	2.7	4	10.8	5	13.5
Other Non-Epithelial Skin	9	1	11.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	11.1	0	0.0	0	0.0	0	0.0
Breast	318	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3	0.9	7	2.2	15	4.7	32	10.1
Female Genital System	105	0	0.0	0	0.0	0	0.0	0	0.0	1	1.0	1	1.0	5	4.8	2	1.9	5	4.8	11	10.5
Cervix	30	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3	4	13.3	1	3.3	2	6.7	6	20.0
Corpus and Uterus, NOS	46	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	1	2.2	2	4.3	1	2.2
Corpus	46	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.2	1	2.2	2	4.3	1	2.2
Uterus, NOS	0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ovary	24	0	0.0	0	0.0	0	0.0	0	0.0	1	4.2	0	0.0	0	0.0	0	0.0	1	4.2	4	16.7
Vagina	1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Vulva	3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Female Genital Organs	1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Table 1. Age Distribution of Invasive Cancers - Alaska, 1998

Site of Cancer	All Ages		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Liver and Intrahepatic Bile Duct	27		4	14.8	2	7.4	3	11.1	4	14.8	2	7.4	6	22.2	1	3.7	1	3.7	1	3.7
Liver	23		4	17.4	1	4.3	3	13.0	3	13.0	2	8.7	5	21.7	1	4.3	1	4.3	1	4.3
Intrahepatic Bile Duct	4		0	0.0	1	25.0	0	0.0	1	25.0	0	0.0	1	25.0	0	0.0	0	0.0	0	0.0
Gallbladder	5		0	0.0	0	0.0	0	0.0	1	20.0	1	20.0	2	40.0	0	0.0	0	0.0	0	0.0
Other Biliary	5		0	0.0	1	20.0	1	20.0	1	20.0	0	0.0	1	20.0	1	20.0	0	0.0	0	0.0
Pancreas	44		1	2.3	4	9.1	7	15.9	8	18.2	9	20.5	6	13.6	2	4.5	0	0.0	3	6.8
Retroperitoneum	1		1	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Peritoneum, Omentum and Mesentery	3		0	0.0	0	0.0	1	33.3	0	0.0	0	0.0	1	33.3	0	0.0	0	0.0	0	0.0
Other Digestive Organs	4		0	0.0	0	0.0	0	0.0	0	0.0	1	25.0	0	0.0	1	25.0	1	25.0	0	0.0
Respiratory System	297		14	4.7	27	9.1	32	10.8	41	13.8	55	18.5	53	17.8	43	14.5	10	3.4	6	2.0
Nose, Nasal Cavity and Middle Ear	3		0	0.0	0	0.0	0	0.0	0	0.0	2	66.7	0	0.0	0	0.0	0	0.0	0	0.0
Larynx	13		1	7.7	2	15.4	4	30.8	1	7.7	0	0.0	1	7.7	3	23.1	0	0.0	0	0.0
Lung and Bronchus	275		13	4.7	24	8.7	28	10.2	39	14.2	52	18.9	52	18.9	38	13.8	9	3.3	6	2.2
Pleura	6		0	0.0	1	16.7	0	0.0	1	16.7	1	16.7	0	0.0	2	33.3	1	16.7	0	0.0
Trachea, Mediastinum and Other Respiratory Organs	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Bones and Joints	3		1	33.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Soft Tissue including Heart	18		1	5.6	0	0.0	0	0.0	2	11.1	0	0.0	2	11.1	1	5.6	0	0.0	0	0.0
Skin excluding Basal and Squamous	46		6	13.0	4	8.7	7	15.2	6	13.0	4	8.7	4	8.7	2	4.3	0	0.0	0	0.0
Melanomas of the Skin	37		5	13.5	3	8.1	6	16.2	5	13.5	4	10.8	1	2.7	2	5.4	0	0.0	0	0.0
Other Non-Epithelial Skin	9		1	11.1	1	11.1	1	11.1	1	11.1	0	0.0	3	33.3	0	0.0	0	0.0	0	0.0
Breast	318		69	21.7	41	12.9	37	11.6	31	9.7	18	5.7	23	7.2	20	6.3	19	6.0	3	0.9
Female Genital System	105		15	14.3	21	20.0	8	7.6	10	9.5	7	6.7	7	6.7	4	3.8	4	3.8	4	3.8
Cervix	30		5	16.7	4	13.3	2	6.7	1	3.3	0	0.0	2	6.7	0	0.0	0	0.0	2	6.7
Corpus and Uterus, NOS	46		6	13.0	9	19.6	4	8.7	7	15.2	6	13.0	4	8.7	3	6.5	2	4.3	0	0.0
Corpus	46		6	13.0	9	19.6	4	8.7	7	15.2	6	13.0	4	8.7	3	6.5	2	4.3	0	0.0
Uterus, NOS	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ovary	24		3	12.5	8	33.3	2	8.3	1	4.2	0	0.0	1	4.2	0	0.0	2	8.3	1	4.2
Vagina	1		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	100.0
Vulva	3		1	33.3	0	0.0	0	0.0	1	33.3	0	0.0	0	0.0	1	33.3	0	0.0	0	0.0
Other Female Genital Organs	1		0	0.0	0	0.0	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	0	0.0

Table 1. Age Distribution of Invasive Cancers - Alaska, 1998

Site of Cancer	All Ages		00-04		05-09		10-14		15-19		20-24		25-29		30-34		35-39		40-44	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Male Genital System	256		0	0.0	0	0.0	0	0.0	1	0.4	0	0.0	0	0.0	4	1.6	1	0.4	4	1.6
Prostate	239		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0.4
Testis	10		0	0.0	0	0.0	0	0.0	1	10.0	0	0.0	0	0.0	3	30.0	1	10.0	1	10.0
Penis	5		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	0	0.0	1	20.0
Other Male Genital Organs	2		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0
Urinary System	120		1	0.8	0	0.0	0	0.0	0	0.0	1	0.8	0	0.0	2	1.7	2	1.7	7	5.8
Urinary Bladder	70		0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	0	0.0	1	1.4	2	2.9	2	2.9
Kidney and Renal Pelvis	47		1	2.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	2.1	0	0.0	5	10.6
Ureter	3		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Urinary Organs	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Eye and Orbit	2		2	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Brain and Other Nervous System	39		0	0.0	3	7.7	1	2.6	3	7.7	0	0.0	2	5.1	2	5.1	6	15.4	2	5.1
Brain	39		0	0.0	3	7.7	1	2.6	3	7.7	0	0.0	2	5.1	2	5.1	6	15.4	2	5.1
Cranial Nerves Other Nervous System	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Endocrine System	47		0	0.0	0	0.0	0	0.0	1	2.1	1	2.1	3	6.4	6	12.8	6	12.8	8	17.0
Thyroid	46		0	0.0	0	0.0	0	0.0	1	2.2	1	2.2	3	6.5	6	13.0	6	13.0	8	17.4
Other Endocrine including Thymus	1		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lymphomas	97		0	0.0	0	0.0	2	2.1	0	0.0	2	2.1	2	2.1	2	2.1	4	4.1	12	12.4
Hodgkins Disease	7		0	0.0	0	0.0	0	0.0	0	0.0	1	14.3	0	0.0	0	0.0	1	14.3	1	14.3
Hodgkins - Nodal	7		0	0.0	0	0.0	0	0.0	0	0.0	1	14.3	0	0.0	0	0.0	1	14.3	1	14.3
Hodgkins - Extranodal	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Non-Hodgkins Lymphomas	90		0	0.0	0	0.0	2	2.2	0	0.0	1	1.1	2	2.2	2	2.2	3	3.3	11	12.2
Non-Hodgkins - Nodal	52		0	0.0	0	0.0	1	1.9	0	0.0	1	1.9	2	3.8	1	1.9	1	1.9	7	13.5
Non-Hodgkins - Extranodal	38		0	0.0	0	0.0	1	2.6	0	0.0	0	0.0	0	0.0	1	2.6	2	5.3	4	10.5
Multiple Myeloma	24		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	4.2	0	0.0
Leukemias	47		10	21.3	1	2.1	0	0.0	0	0.0	1	2.1	0	0.0	0	0.0	0	0.0	2	4.3
Lymphocytic Leukemia	21		7	33.3	1	4.8	0	0.0	0	0.0	1	4.8	0	0.0	0	0.0	0	0.0	0	0.0
Acute Lymphocytic Leukemia	10		7	70.0	1	10.0	0	0.0	0	0.0	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic Lymphocytic Leukemia	9		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Lymphocytic Leukemia	2		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Table 1. Age Distribution of Invasive Cancers - Alaska, 1998

Site of Cancer	All Ages		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Male Genital System	256		11	4.3	18	7.0	28	10.9	42	16.4	49	19.1	48	18.8	23	9.0	19	7.4	8	3.1
Prostate	239		8	3.3	18	7.5	27	11.3	42	17.6	48	20.1	47	19.7	23	9.6	19	7.9	6	2.5
Testis	10		3	30.0	0	0.0	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Penis	5		0	0.0	0	0.0	0	0.0	0	0.0	1	20.0	0	0.0	0	0.0	0	0.0	2	40.0
Other Male Genital Organs	2		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0	0	0.0	0	0.0	0	0.0
Urinary System	120		12	10.0	13	10.8	12	10.0	12	10.0	10	8.3	17	14.2	21	17.5	7	5.8	3	2.5
Urinary Bladder	70		3	4.3	4	5.7	4	5.7	10	14.3	7	10.0	8	11.4	19	27.1	7	10.0	2	2.9
Kidney and Renal Pelvis	47		9	19.1	8	17.0	8	17.0	2	4.3	3	6.4	7	14.9	2	4.3	0	0.0	1	2.1
Ureter	3		0	0.0	1	33.3	0	0.0	0	0.0	0	0.0	2	66.7	0	0.0	0	0.0	0	0.0
Other Urinary Organs	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Eye and Orbit	2		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Brain and Other Nervous System	39		5	12.8	3	7.7	4	10.3	3	7.7	1	2.6	3	7.7	0	0.0	1	2.6	0	0.0
Brain	39		5	12.8	3	7.7	4	10.3	3	7.7	1	2.6	3	7.7	0	0.0	1	2.6	0	0.0
Cranial Nerves Other Nervous System	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Endocrine System	47		6	12.8	6	12.8	0	0.0	5	10.6	4	8.5	1	2.1	0	0.0	0	0.0	0	0.0
Thyroid	46		6	13.0	5	10.9	0	0.0	5	10.9	4	8.7	1	2.2	0	0.0	0	0.0	0	0.0
Other Endocrine including Thymus	1		0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Lymphomas	97		13	13.4	9	9.3	8	8.2	8	8.2	13	13.4	10	10.3	8	8.2	0	0.0	4	4.1
Hodgkins Disease	7		0	0.0	0	0.0	0	0.0	0	0.0	1	14.3	2	28.6	1	14.3	0	0.0	0	0.0
Hodgkins - Nodal	7		0	0.0	0	0.0	0	0.0	0	0.0	1	14.3	2	28.6	1	14.3	0	0.0	0	0.0
Hodgkins - Extranodal	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Non-Hodgkins Lymphomas	90		13	14.4	9	10.0	8	8.9	8	8.9	12	13.3	8	8.9	7	7.8	0	0.0	4	4.4
Non-Hodgkins - Nodal	52		6	11.5	7	13.5	6	11.5	2	3.8	8	15.4	4	7.7	5	9.6	0	0.0	1	1.9
Non-Hodgkins - Extranodal	38		7	18.4	2	5.3	2	5.3	6	15.8	4	10.5	4	10.5	2	5.3	0	0.0	3	7.9
Multiple Myeloma	24		1	4.2	1	4.2	8	33.3	4	16.7	4	16.7	2	8.3	3	12.5	0	0.0	0	0.0
Leukemias	47		4	8.5	2	4.3	4	8.5	3	6.4	5	10.6	3	6.4	4	8.5	6	12.8	2	4.3
Lymphocytic Leukemia	21		0	0.0	0	0.0	2	9.5	2	9.5	3	14.3	0	0.0	1	4.8	3	14.3	1	4.8
Acute Lymphocytic Leukemia	10		0	0.0	0	0.0	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Chronic Lymphocytic Leukemia	9		0	0.0	0	0.0	1	11.1	1	11.1	3	33.3	0	0.0	1	11.1	3	33.3	0	0.0
Other Lymphocytic Leukemia	2		0	0.0	0	0.0	0	0.0	1	50.0	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0

Table 1. Age Distribution of Invasive Cancers - Alaska, 1998

Site of Cancer	All Ages		00-04		05-09		10-14		15-19		20-24		25-29		30-34		35-39		40-44	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Myeloid Leukemia	20		2	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	10.0
Acute Myeloid Leukemia	14		2	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	14.3
Chronic Myeloid Leukemia	6		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Myeloid Leukemia	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Monocytic Leukemia	2		1	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Acute Monocytic Leukemia	1		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Monocytic Leukemia	1		1	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Leukemia	4		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Acute Leukemia	1		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Chronic Leukemia	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Leukemic, Subleukemic and NOS	3		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Miscellaneous	30		0	0.0	0	0.0	2	6.7	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3	0	0.0

Table 1. Age Distribution of Invasive Cancers - Alaska, 1998

Site of Cancer	All Ages		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85+	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Myeloid Leukemia	20		3	15.0	1	5.0	1	5.0	1	5.0	1	5.0	2	10.0	3	15.0	3	15.0	1	5.0
Acute Myeloid Leukemia	14		1	7.1	1	7.1	0	0.0	1	7.1	1	7.1	0	0.0	3	21.4	3	21.4	0	0.0
Chronic Myeloid Leukemia	6		2	33.3	0	0.0	1	16.7	0	0.0	0	0.0	2	33.3	0	0.0	0	0.0	1	16.7
Other Myeloid Leukemia	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Monocytic Leukemia	2		1	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Acute Monocytic Leukemia	1		1	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Monocytic Leukemia	1		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Leukemia	4		0	0.0	1	25.0	1	25.0	0	0.0	1	25.0	1	25.0	0	0.0	0	0.0	0	0.0
Other Acute Leukemia	1		0	0.0	0	0.0	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0	0	0.0
Other Chronic Leukemia	0		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Aleukemic, Subleukemic and NOS	3		0	0.0	1	33.3	1	33.3	0	0.0	0	0.0	1	33.3	0	0.0	0	0.0	0	0.0
Miscellaneous	30		3	10.0	0	0.0	4	13.3	7	23.3	3	10.0	3	10.0	5	16.7	2	6.7	0	0.0

Table 2-a. Total Cancer Incidence and Mortality by Site - Alaska, 1998

Site of Cancer	INCIDENCE				MORTALITY					
	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate
All Sites	1,827	413.5	393.5	434.4	400.5	649	161.7	148.8	175.4	166.2
Oral Cavity and Pharynx	44	88	6.2	12.4	9.9	14	3.4	1.7	6.1	2.6
Lip	0	n/c	n/c	n/c	0.9	0	n/c	n/c	n/c	0.0
Tongue	12	2.7	1.3	5.1	2.2	3	n/c	n/c	n/c	0.6
Salivary Gland	5	0.8	0.2	2.5	1.0	0	n/c	n/c	n/c	0.2
Floor of Mouth	6	1.1	0.4	2.9	0.8	0	n/c	n/c	n/c	0.1
Gum and Other Mouth	5	1.2	0.4	3.2	1.6	2	n/c	n/c	n/c	0.4
Nasopharynx	8	1.8	0.7	4.0	0.7	5	1.5	0.5	3.7	0.2
Tonsil	6	0.9	0.3	2.6	1.1	2	n/c	n/c	n/c	0.2
Oropharynx	1	n/c	n/c	n/c	0.3	1	n/c	n/c	n/c	0.2
Hypopharynx	1	n/c	n/c	n/c	0.8	0	n/c	n/c	n/c	0.1
Other Oral Cavity and Pharynx	0	n/c	n/c	n/c	0.3	1	n/c	n/c	n/c	0.5
Digestive System	334	83.3	74.1	93.4	72.7	169	41.9	35.5	49.3	38.3
Esophagus	18	4.5	2.7	7.4	3.9	26	6.5	4.1	9.9	3.6
Stomach	35	8.6	5.8	12.3	6.8	32	6.9	4.6	10.3	4.0
Small Intestine	3	n/c	n/c	n/c	1.3	1	n/c	n/c	n/c	0.3
Colon and Rectum	184	47.1	40.2	54.9	43.9	52	13.7	10.1	18.3	16.9
Colon excluding Rectum	130	34.9	28.9	41.9	31.4	43	11.5	8.2	15.8	14.4
Cecum	33	9.2	6.3	13.3	7.0	0	n/c	n/c	n/c	n/c
Appendix	2	n/c	n/c	n/c	0.3	0	n/c	n/c	n/c	n/c
Ascending Colon	17	5.0	2.9	8.3	4.5	0	n/c	n/c	n/c	n/c
Hepatic Flexure	12	3.6	1.9	6.5	1.7	0	n/c	n/c	n/c	n/c
Transverse Colon	11	2.7	1.3	5.2	2.8	0	n/c	n/c	n/c	n/c
Splenic Flexure	1	n/c	n/c	n/c	1.2	0	n/c	n/c	n/c	n/c
Descending Colon	4	n/c	n/c	n/c	1.9	0	n/c	n/c	n/c	n/c
Sigmoid Colon	40	10.5	7.4	14.6	9.7	0	n/c	n/c	n/c	n/c
Large Intestine, NOS	10	2.4	1.1	4.8	1.5	0	n/c	n/c	n/c	n/c
Rectum and Rectosigmoid Junction	54	12.2	9.0	16.3	12.5	9	2.2	1.0	4.6	2.4
Rectosigmoid Junction	16	4.0	2.2	6.8	4.2	0	n/c	n/c	n/c	n/c
Rectum	38	8.2	5.6	11.7	8.1	0	n/c	n/c	n/c	n/c
Anus, Anal Canal and Anorectum	5	0.9	0.3	2.7	1.0	2	n/c	n/c	n/c	0.1
Liver and Intrahepatic Bile Duct	27	6.3	4.0	9.6	4.2	21	5.4	3.3	8.6	3.6
Liver	23	5.5	3.4	8.6	3.9	16	4.0	2.2	6.8	2.9
Intrahepatic Bile Duct	4	n/c	n/c	n/c	0.7	5	1.5	0.5	3.6	0.7
Gallbladder	5	1.2	0.4	3.3	1.0	2	n/c	n/c	n/c	0.6
Other Biliary	5	1.2	0.4	3.2	1.2	2	n/c	n/c	n/c	0.5

Bold numbers indicate rate different than U.S. rate.
Note: Rate is not calculated (n/c) where number is less than 5.

Table 2-a. Total Cancer Incidence and Mortality by Site - Alaska, 1998

Site of Cancer	INCIDENCE				MORTALITY			
	# of Cases	Rate per 100,000	95% CL Lower	94-98 US Rate	# of Cases	Rate per 100,000	95% CL Lower	94-98 US Rate
Pancreas	44	10.7	7.7	14.8	31	7.6	5.1	11.1
Retroperitoneum	1	n/c	n/c	n/c	0	n/c	n/c	n/c
Peritoneum, Omentum and Mesentery	3	n/c	n/c	n/c	0	n/c	n/c	n/c
Other Digestive Organs	4	n/c	n/c	n/c	0	n/c	n/c	n/c
Respiratory System	297	74.7	66.2	84.3	203	52.2	45.1	60.4
Nose, Nasal Cavity and Middle Ear	3	n/c	n/c	n/c	1	n/c	n/c	n/c
Larynx	13	2.8	1.4	5.1	7	1.8	0.7	4.0
Lung and Bronchus	275	69.6	61.3	78.8	195	50.3	43.2	58.3
Pleura	6	1.7	0.6	3.9	0	n/c	n/c	n/c
Trachea, Mediastinum and Other Respiratory Organs	0	n/c	n/c	n/c	0	n/c	n/c	n/c
Bones and Joints	3	n/c	n/c	n/c	2	n/c	n/c	n/c
Soft Tissue including Heart	18	3.2	1.8	5.5	4	n/c	n/c	n/c
Skin excluding Basal and Squamous	46	8.7	6.2	12.1	11	2.2	1.0	4.3
Melanomas of the Skin	37	6.8	4.6	9.9	11	2.2	1.0	4.3
Other Non-Epithelial Skin	9	1.9	0.8	4.1	0	n/c	n/c	n/c
Breast	318	60.8	53.7	68.8	49	10.8	7.8	14.8
Female Genital System	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Cervix	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Corpus and Uterus, NOS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Corpus	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Uterus, NOS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ovary	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Vagina	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Vulva	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other Female Genital Organs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Male Genital System	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Prostate	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Testis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Penis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other Male Genital Organs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Urinary System	120	28.2	23.1	34.2	29	7.5	4.9	11.1
Urinary Bladder	70	18.5	14.2	23.7	18	4.9	2.9	8.1
Kidney and Renal Pelvis	47	9.0	6.4	12.5	11	2.6	1.2	5.0
Ureter	3	n/c	n/c	n/c	0	n/c	n/c	n/c
Other Urinary Organs	0	n/c	n/c	n/c	0	n/c	n/c	n/c
Eye and Orbit	2	n/c	n/c	n/c	0	n/c	n/c	n/c

Bold numbers indicate rate different than U.S. rate.
Note: Rate is not calculated (n/c) where number is less than 5.

Table 2-a. Total Cancer Incidence and Mortality by Site - Alaska, 1998

Site of Cancer	INCIDENCE				MORTALITY					
	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate
Brain and Other Nervous System										
Brain	39	6.7	4.6	9.7	6.0	17	3.6	2.0	6.3	4.1
Cranial Nerves Other Nervous System	39	6.7	4.6	9.7	5.4	17	3.6	2.0	6.3	4.0
Endocrine System	0	n/c	n/c	n/c	0.4	0	n/c	n/c	n/c	0.1
Thyroid	47	7.3	5.2	10.3	6.1	1	n/c	n/c	n/c	0.7
Other Endocrine including Thymus	46	7.1	5.1	10.1	5.6	0	n/c	n/c	n/c	0.3
Lymphomas	1	n/c	n/c	n/c	0.6	1	n/c	n/c	n/c	0.3
Hodgkins Disease	97	20.1	16.0	25.2	18.4	34	8.3	5.6	12.0	7.4
Hodgkins - Nodal	7	1.6	0.6	3.7	2.7	1	n/c	n/c	n/c	0.4
Hodgkins - Extranodal	7	1.6	0.6	3.7	2.5	0	n/c	n/c	n/c	n/c
Non-Hodgkins Lymphomas	0	n/c	n/c	n/c	0.1	0	n/c	n/c	n/c	n/c
Non-Hodgkins - Nodal	90	18.5	14.6	23.4	16.1	33	8.0	5.3	11.7	6.9
Non-Hodgkins - Extranodal	52	10.5	7.6	14.3	10.6	0	n/c	n/c	n/c	n/c
Multiple Myeloma	38	8.0	5.5	11.6	5.3	0	n/c	n/c	n/c	n/c
Leukemias	24	5.7	3.6	8.7	4.5	6	1.5	0.5	3.7	3.1
Lymphocytic Leukemia	47	11.0	7.9	15.0	10.4	24	5.9	3.6	9.2	6.2
Acute Lymphocytic Leukemia	21	5.1	3.1	8.1	4.7	6	1.7	0.6	3.9	1.8
Chronic Lymphocytic Leukemia	10	1.7	0.8	3.7	1.5	2	n/c	n/c	n/c	0.5
Other Lymphocytic Leukemia	9	2.7	1.2	5.3	3.0	4	n/c	n/c	n/c	1.2
Myeloid Leukemia	2	n/c	n/c	n/c	0.1	0	n/c	n/c	n/c	0.1
Acute Myeloid Leukemia	20	4.7	2.7	7.7	4.4	15	3.4	1.7	6.0	2.7
Chronic Myeloid Leukemia	14	3.3	1.7	5.9	2.8	12	2.6	1.2	5.0	2.0
Other Myeloid Leukemia	6	1.4	0.5	3.5	1.4	3	n/c	n/c	n/c	0.7
Monocytic Leukemia	0	n/c	n/c	n/c	0.2	0	n/c	n/c	n/c	0.1
Acute Monocytic Leukemia	2	n/c	n/c	n/c	0.2	0	n/c	n/c	n/c	0.1
Other Monocytic Leukemia	1	n/c	n/c	n/c	0.2	0	n/c	n/c	n/c	0.0
Other Leukemia	1	n/c	n/c	n/c	0.0	0	n/c	n/c	n/c	0.0
Other Acute Leukemia	4	n/c	n/c	n/c	1.1	3	n/c	n/c	n/c	1.6
Other Chronic Leukemia	1	n/c	n/c	n/c	0.4	1	n/c	n/c	n/c	0.8
Alkemic, Subleukemic and NOS	0	n/c	n/c	n/c	0.0	0	n/c	n/c	n/c	0.0
Miscellaneous	3	n/c	n/c	n/c	0.7	2	n/c	n/c	n/c	0.7
	30	7.4	4.9	10.9	9.7	32	8.27	5.54	12.01	11.2

Bold numbers indicate rate different than U.S. rate.
Note: Rate is not calculated (n/c) where number is less than 5.

Table 2-b. Male Cancer Incidence and Mortality by Site - Alaska, 1998

Site of Cancer	INCIDENCE				MORTALITY					
	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate
All Sites	910	449.8	418.8	482.9	468.5	353	183.7	163.6	206.1	206.0
Oral Cavity and Pharynx	30	11.2	7.2	17.7	14.8	10	4.6	2.0	10.1	3.9
Lip	0	n/c	n/c	n/c	1.6	0	n/c	n/c	n/c	0.0
Tongue	8	3.3	1.3	8.1	3.2	0	n/c	n/c	n/c	0.9
Salivary Gland	3	n/c	n/c	n/c	1.2	0	n/c	n/c	n/c	0.3
Floor of Mouth	5	1.6	0.4	5.6	1.2	0	n/c	n/c	n/c	0.1
Gum and Other Mouth	3	n/c	n/c	n/c	2.0	2	n/c	n/c	n/c	0.6
Nasopharynx	5	2.3	0.6	7.0	1.0	4	n/c	n/c	n/c	0.3
Tonsil	5	1.5	0.5	5.5	1.8	2	n/c	n/c	n/c	0.3
Oropharynx	1	n/c	n/c	n/c	0.5	1	n/c	n/c	n/c	0.3
Hypopharynx	0	n/c	n/c	n/c	1.4	0	n/c	n/c	n/c	0.2
Other Oral Cavity and Pharynx	0	n/c	n/c	n/c	0.5	1	n/c	n/c	n/c	0.9
Digestive System	172	87.5	74.0	103.4	90.2	101	49.5	39.7	61.7	49.4
Esophagus	11	5.4	2.6	10.7	6.5	16	8.2	4.5	14.7	6.3
Stomach	23	12.3	7.6	19.7	10.0	20	9.3	5.4	15.8	5.7
Small Intestine	1	n/c	n/c	n/c	1.5	0	n/c	n/c	n/c	0.4
Colon and Rectum	81	43.0	33.5	54.9	52.2	27	13.2	8.4	20.5	20.5
Colon excluding Rectum	58	32.2	23.8	43.0	36.0	21	10.1	6.0	16.7	17.3
Cecum	13	7.3	3.5	13.8	7.5	0	n/c	n/c	n/c	n/c
Appendix	2	n/c	n/c	n/c	0.4	0	n/c	n/c	n/c	n/c
Ascending Colon	10	6.4	2.9	12.8	4.9	0	n/c	n/c	n/c	n/c
Hepatic Flexure	6	4.0	1.4	9.5	2.0	0	n/c	n/c	n/c	n/c
Transverse Colon	4	n/c	n/c	n/c	3.0	0	n/c	n/c	n/c	n/c
Splenic Flexure	1	n/c	n/c	n/c	1.5	0	n/c	n/c	n/c	n/c
Descending Colon	1	n/c	n/c	n/c	2.4	0	n/c	n/c	n/c	n/c
Sigmoid Colon	17	9.2	5.2	15.9	11.9	0	n/c	n/c	n/c	n/c
Large Intestine, NOS	4	n/c	n/c	n/c	1.7	0	n/c	n/c	n/c	n/c
Rectum and Rectosigmoid Junction	23	10.9	6.8	17.4	16.1	6	3.1	1.0	8.1	3.2
Rectosigmoid Junction	7	4.0	1.6	9.3	5.3	0	n/c	n/c	n/c	n/c
Rectum	16	6.8	3.8	12.4	10.5	0	n/c	n/c	n/c	n/c
Anus, Anal Canal and Anorectum	2	n/c	n/c	n/c	1.0	0	n/c	n/c	n/c	0.1
Liver and Intrahepatic Bile Duct	17	6.6	3.7	12.0	6.3	16	7.7	4.2	13.7	5.2
Liver	15	5.9	3.2	11.2	6.0	13	5.8	2.9	11.3	4.4
Intrahepatic Bile Duct	2	n/c	n/c	n/c	0.8	3	n/c	n/c	n/c	0.8
Gallbladder	3	n/c	n/c	n/c	0.7	2	n/c	n/c	n/c	0.4
Other Biliary	1	n/c	n/c	n/c	1.4	1	n/c	n/c	n/c	0.6
Pancreas	28	14.6	9.4	22.3	10.2	19	9.4	5.4	15.9	9.7

Bold numbers indicate rate different than U.S. rate.
Note: Rate is not calculated (n/c) where number is less than 5.

Table 2-b. Male Cancer Incidence and Mortality by Site - Alaska, 1998

Site of Cancer	INCIDENCE				MORTALITY					
	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate
Retroperitoneum	1	n/c	n/c	n/c	0.4	0	n/c	n/c	n/c	0.1
Peritoneum, Omentum and Mesentery	2	n/c	n/c	n/c	0.2	0	n/c	n/c	n/c	0.1
Other Digestive Organs	2	n/c	n/c	n/c	0.4	0	n/c	n/c	n/c	0.2
Respiratory System	171	87.5	74.2	103.2	77.9	115	60.7	49.6	74.2	70.9
Nose, Nasal Cavity and Middle Ear	1	n/c	n/c	n/c	0.8	0	n/c	n/c	n/c	0.2
Larynx	11	4.6	2.2	9.7	6.5	6	3.1	1.0	8.1	2.3
Lung and Bronchus	154	79.1	66.4	94.1	72.6	109	57.6	46.8	70.8	68.0
Pleura	5	3.3	1.0	8.5	1.4	0	n/c	n/c	n/c	0.2
Trachea, Mediastinum and Other Respiratory Organs	0	n/c	n/c	n/c	0.3	0	n/c	n/c	n/c	0.1
Bones and Joints	2	n/c	n/c	n/c	1.1	1	n/c	n/c	n/c	0.5
Soft Tissue including Heart	6	2.1	0.7	6.4	2.9	2	n/c	n/c	n/c	1.4
Skin excluding Basal and Squamous	32	12.9	8.5	19.6	21.4	6	2.1	0.7	6.3	4.2
Melanomas of the Skin	26	10.3	6.4	16.5	17.2	6	2.1	0.7	6.3	3.2
Other Non-Epithelial Skin	6	2.6	0.9	7.2	4.9	0	n/c	n/c	n/c	1.0
Breast	3	n/c	n/c	n/c	1.0	0	n/c	n/c	n/c	0.3
Female Genital System	n/a	n/a	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a
Cervix	n/a	n/a	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a
Corpus and Uterus, NOS	n/a	n/a	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a
Corpus	n/a	n/a	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a
Uterus, NOS	n/a	n/a	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a
Ovary	n/a	n/a	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a
Vagina	n/a	n/a	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a
Vulva	n/a	n/a	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a
Other Female Genital Organs	n/a	n/a	n/a	n/a	0.0	n/a	n/a	n/a	n/a	n/a
Male Genital System	256	137.1	119.9	156.5	144.7	30	18.4	12.2	27.2	24.1
Prostate	239	130.9	114.1	149.9	142.0	29	18.2	12.0	27.0	23.7
Testis	10	2.4	1.1	6.4	4.7	1	n/c	n/c	n/c	0.2
Penis	5	3.0	0.8	8.5	0.6	0	n/c	n/c	n/c	0.1
Other Male Genital Organs	2	n/c	n/c	n/c	0.3	0	n/c	n/c	n/c	0.0
Urinary System	92	46.5	36.7	58.6	41.5	20	11.4	6.7	18.7	10.7
Urinary Bladder	55	32.1	23.8	42.8	28.8	11	6.4	3.0	12.6	5.5
Kidney and Renal Pelvis	34	13.0	8.5	19.8	13.1	9	5.0	2.2	10.6	5.0
Ureter	3	n/c	n/c	n/c	0.6	0	n/c	n/c	n/c	0.1
Other Urinary Organs	0	n/c	n/c	n/c	0.4	0	n/c	n/c	n/c	0.1
Eye and Orbit	2	n/c	n/c	n/c	0.9	0	n/c	n/c	n/c	0.1
Brain and Other Nervous System	22	7.3	4.3	12.6	7.1	11	4.3	2.0	9.3	5.0

Bold numbers indicate rate different than U.S. rate.

Note: Rate is not calculated (n/c) where number is less than 5.

Table 2-b. Male Cancer Incidence and Mortality by Site - Alaska, 1998

Site of Cancer	INCIDENCE				MORTALITY					
	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate
Brain	22	7.3	4.3	12.6	6.4	11	4.3	2.0	9.3	4.9
Cranial Nerves Other Nervous System	0	n/c	n/c	n/c	0.4	0	n/c	n/c	n/c	0.1
Endocrine System	8	2.3	0.9	6.5	3.6	0	n/c	n/c	n/c	0.7
Thyroid	8	2.3	0.9	6.5	3.0	0	n/c	n/c	n/c	0.3
Other Endocrine including Thymus	0	n/c	n/c	n/c	0.7	0	n/c	n/c	n/c	0.3
Lymphomas	53	23.2	16.8	32.1	22.4	23	11.9	7.1	19.5	9.1
Hodgkins Disease	4	n/c	n/c	n/c	2.9	0	n/c	n/c	n/c	0.5
Hodgkins - Nodal	4	n/c	n/c	n/c	2.8	0	n/c	n/c	n/c	n/c
Hodgkins - Extranodal	0	n/c	n/c	n/c	0.1	0	n/c	n/c	n/c	n/c
Non-Hodgkins Lymphomas	49	20.9	14.8	29.4	19.8	23	11.9	7.1	19.5	8.6
Non-Hodgkins - Nodal	33	13.0	8.5	19.9	13.0	0	n/c	n/c	n/c	n/c
Non-Hodgkins - Extranodal	16	7.9	4.1	14.3	6.6	0	n/c	n/c	n/c	n/c
Multiple Myeloma	14	6.5	3.4	12.1	5.5	3	n/c	n/c	n/c	3.8
Leukemias	32	16.7	11.0	24.9	13.3	16	9.4	5.0	16.7	8.2
Lymphocytic Leukemia	12	6.7	3.3	12.9	6.1	5	3.5	1.0	9.3	2.5
Acute Lymphocytic Leukemia	5	1.8	0.6	5.9	1.8	2	n/c	n/c	n/c	0.6
Chronic Lymphocytic Leukemia	5	3.4	1.1	8.8	4.1	3	n/c	n/c	n/c	1.8
Other Lymphocytic Leukemia	2	n/c	n/c	n/c	0.2	0	n/c	n/c	n/c	0.1
Myeloid Leukemia	15	8.0	4.2	14.5	5.4	9	4.7	1.9	10.5	3.5
Acute Myeloid Leukemia	10	5.2	2.3	10.9	3.4	7	3.0	1.0	8.0	2.5
Chronic Myeloid Leukemia	5	2.8	0.8	7.9	1.8	2	n/c	n/c	n/c	0.9
Other Myeloid Leukemia	0	n/c	n/c	n/c	0.3	0	n/c	n/c	n/c	0.1
Monocytic Leukemia	2	n/c	n/c	n/c	0.3	0	n/c	n/c	n/c	0.1
Acute Monocytic Leukemia	1	n/c	n/c	n/c	0.2	0	n/c	n/c	n/c	0.1
Other Monocytic Leukemia	1	n/c	n/c	n/c	0.0	0	n/c	n/c	n/c	0.0
Other Leukemia	3	n/c	n/c	n/c	1.5	2	n/c	n/c	n/c	2.1
Other Acute Leukemia	1	n/c	n/c	n/c	0.5	1	n/c	n/c	n/c	1.1
Other Chronic Leukemia	0	n/c	n/c	n/c	0.0	0	n/c	n/c	n/c	0.0
Aluekemic, Subleukemic and NOS	2	n/c	n/c	n/c	1.0	1	n/c	n/c	n/c	1.0
Miscellaneous	15	6.7	3.6	12.4	11.1	15	8.27	4.3	15.01	13.8

Bold numbers indicate rate different than U.S. rate.
Note: Rate is not calculated (n/c) where number is less than 5.

Table 2-c. Female Cancer Incidence and Mortality by Site - Alaska, 1998

Site of Cancer	INCIDENCE				MORTALITY					
	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate	# of Cases	Rate per 100,000	95% CL Lower	95% CL Upper	94-98 US Rate
All Sites	917	387.3	361.0	415.1	352.8	296	143.2	126.7	161.3	138.6
Oral Cavity and Pharynx	14	6.2	3.3	11.0	5.8	4	n/c	n/c	n/c	1.4
Lip	0	n/c	n/c	n/c	0.3	0	n/c	n/c	n/c	0.0
Tongue	4	n/c	n/c	n/c	1.4	3	n/c	n/c	n/c	0.3
Salivary Gland	2	n/c	n/c	n/c	0.8	0	n/c	n/c	n/c	0.1
Floor of Mouth	1	n/c	n/c	n/c	0.5	0	n/c	n/c	n/c	0.0
Gum and Other Mouth	2	n/c	n/c	n/c	1.2	0	n/c	n/c	n/c	0.3
Nasopharynx	3	n/c	n/c	n/c	0.4	1	n/c	n/c	n/c	0.1
Tonsil	1	n/c	n/c	n/c	0.5	0	n/c	n/c	n/c	0.1
Oropharynx	0	n/c	n/c	n/c	0.1	0	n/c	n/c	n/c	0.1
Hypopharynx	1	n/c	n/c	n/c	0.3	0	n/c	n/c	n/c	0.1
Other Oral Cavity and Pharynx	0	n/c	n/c	n/c	0.2	0	n/c	n/c	n/c	0.3
Digestive System	162	79.0	66.9	92.8	58.9	68	33.5	25.7	43.0	29.7
Esophagus	7	3.5	1.4	7.5	1.7	10	4.9	2.3	9.4	1.7
Stomach	12	5.2	2.6	9.7	4.3	12	4.7	2.2	8.9	2.7
Small Intestine	2	n/c	n/c	n/c	1.1	1	n/c	n/c	n/c	0.3
Colon and Rectum	103	50.7	41.1	62.1	37.5	25	13.3	8.5	19.8	14.1
Colon excluding Rectum	72	37.7	29.4	47.8	27.9	22	11.8	7.3	18.1	12.2
Cecum	20	11.2	6.8	17.4	6.6	0	n/c	n/c	n/c	n/c
Appendix	0	n/c	n/c	n/c	0.3	0	n/c	n/c	n/c	n/c
Ascending Colon	7	4.0	1.6	8.3	4.2	0	n/c	n/c	n/c	n/c
Hepatic Flexure	6	3.4	1.2	7.4	1.5	0	n/c	n/c	n/c	n/c
Transverse Colon	7	3.4	1.3	7.3	2.6	0	n/c	n/c	n/c	n/c
Splenic Flexure	0	n/c	n/c	n/c	1.0	0	n/c	n/c	n/c	n/c
Descending Colon	3	n/c	n/c	n/c	1.6	0	n/c	n/c	n/c	n/c
Sigmoid Colon	23	11.5	7.2	17.5	8.0	0	n/c	n/c	n/c	n/c
Large Intestine, NOS	6	3.1	1.1	7.0	1.2	0	n/c	n/c	n/c	n/c
Rectum and Rectosigmoid Junction	31	13.0	8.6	19.1	9.6	3	n/c	n/c	n/c	1.9
Rectosigmoid Junction	9	4.0	1.8	8.1	3.3	0	n/c	n/c	n/c	n/c
Rectum	22	9.0	5.4	14.2	6.1	0	n/c	n/c	n/c	n/c
Anus, Anal Canal and Anorectum	3	n/c	n/c	n/c	1.1	2	n/c	n/c	n/c	0.1
Liver and Intrahepatic Bile Duct	10	5.4	2.6	10.2	2.4	5	2.9	1.0	6.9	2.3
Liver	8	4.5	2.0	9.0	2.0	3	n/c	n/c	n/c	1.7
Intrahepatic Bile Duct	2	n/c	n/c	n/c	0.5	2	n/c	n/c	n/c	0.6
Gallbladder	2	n/c	n/c	n/c	1.2	0	n/c	n/c	n/c	0.8

Bold numbers indicate rate different than U.S. rate.
Note: Rate is not calculated (n/c) where number is less than 5.

Table 2-c. Female Cancer Incidence and Mortality by Site - Alaska, 1998

Site of Cancer	INCIDENCE				MORTALITY			
	# of Cases	Rate per 100,000	95% CL Lower	94-98 US Rate	# of Cases	Rate per 100,000	95% CL Lower	94-98 US Rate
Other Biliary	4	n/c	n/c	n/c	1	n/c	n/c	0.4
Pancreas	16	7.2	4.0	12.2	12	5.9	3.0	7.2
Retroperitoneum	0	n/c	n/c	n/c	0	n/c	n/c	0.1
Peritoneum, Omentum and Mesentery	1	n/c	n/c	n/c	0	n/c	n/c	0.2
Other Digestive Organs	2	n/c	n/c	n/c	0	n/c	n/c	0.1
Respiratory System	126	62.7	51.9	75.1	88	44.5	35.5	55.2
Nose, Nasal Cavity and Middle Ear	2	n/c	n/c	n/c	1	n/c	n/c	0.1
Larynx	2	n/c	n/c	1.4	1	n/c	n/c	0.5
Lung and Bronchus	121	60.6	50.0	72.9	86	43.6	34.6	54.2
Pleura	1	n/c	n/c	n/c	0	n/c	n/c	0.1
Trachea, Mediastinum and Other Respiratory Organs	0	n/c	n/c	n/c	0	n/c	n/c	0.1
Bones and Joints	1	n/c	n/c	n/c	1	n/c	n/c	0.3
Soft Tissue including Heart	12	4.3	2.1	8.2	2	n/c	n/c	1.2
Skin excluding Basal and Squamous	14	4.5	2.3	8.3	5	2.3	0.7	5.7
Melanomas of the Skin	11	3.3	1.5	6.6	5	2.3	0.7	5.7
Other Non-Epithelial Skin	3	n/c	n/c	n/c	0	n/c	n/c	0.3
Breast	315	122.1	108.0	137.7	49	21.3	15.5	28.9
Female Genital System	105	41.1	33.1	50.6	24	11.3	7.1	17.3
Cervix	30	10.1	6.6	15.2	5	1.6	0.5	2.7
Corpus and Uterus, NOS	46	19.9	14.3	27.1	5	3.0	1.0	3.3
Corpus	46	19.9	14.3	27.1	1	n/c	n/c	1.7
Uterus, NOS	0	n//c	n/c	n/c	4	n/c	n/c	1.6
Ovary	24	8.5	5.3	13.4	13	6.2	3.2	10.9
Vagina	1	n/c	n/c	n/c	0	n/c	n/c	0.2
Vulva	3	n/c	n/c	n/c	0	n/c	n/c	0.3
Other Female Genital Organs	1	n/c	n/c	n/c	1	n/c	n/c	0.2
Male Genital System	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Prostate	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Testis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Penis	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Other Male Genital Organs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Urinary System	28	12.0	7.8	17.9	9	4.2	1.9	8.4
Urinary Bladder	15	6.8	3.7	11.7	7	3.7	1.5	7.9
Kidney and Renal Pelvis	13	5.2	2.7	9.4	2	n/c	n/c	2.3
Ureter	0	n/c	n/c	n/c	0	n/c	n/c	0.1
Other Urinary Organs	0	n/c	n/c	n/c	0	n/c	n/c	0.0

Bold numbers indicate rate different than U.S. rate.
Note: Rate is not calculated (n/c) where number is less than 5.

Table 2-c. Female Cancer Incidence and Mortality by Site - Alaska, 1998

Site of Cancer	INCIDENCE				MORTALITY			
	# of Cases	Rate per 100,000	95% CL Lower	94-98 US Rate	# of Cases	Rate per 100,000	95% CL Lower	94-98 US Rate
Eye and Orbit	0	n/c	n/c	0.6	0	n/c	n/c	0.1
Brain and Other Nervous System	17	6.1	3.4	4.9	6	2.8	1.0	3.4
Brain	17	6.1	3.4	4.6	6	2.8	1.0	3.3
Cranial Nerves Other Nervous System	0	n/c	n/c	0.3	0	n/c	n/c	0.1
Endocrine System	39	12.7	8.7	8.5	1	n/c	n/c	0.6
Thyroid	38	12.4	8.5	8.2	0	n/c	n/c	0.4
Other Endocrine including Thymus	1	n/c	n/c	0.6	1	n/c	n/c	0.3
Lymphomas	44	17.7	12.5	14.9	11	5.4	2.6	6.0
Hodgkins Disease	3	n/c	n/c	2.4	1	n/c	n/c	0.4
Hodgkins - Nodal	3	n/c	n/c	2.2	0	n/c	n/c	n/c
Hodgkins - Extranodal	0	n/c	n/c	0.1	0	n/c	n/c	n/c
Non-Hodgkins Lymphomas	41	16.7	11.7	13.0	10	4.8	2.2	5.6
Non-Hodgkins - Nodal	19	8.1	4.7	8.6	0	n/c	n/c	n/c
Non-Hodgkins - Extranodal	22	8.6	5.2	4.1	0	n/c	n/c	n/c
Multiple Myeloma	10	4.8	2.3	3.8	3	n/c	n/c	2.6
Leukemias	15	6.1	3.3	8.1	8	3.4	1.3	4.7
Lymphocytic Leukemia	9	3.9	1.7	3.5	1	n/c	n/c	1.3
Acute Lymphocytic Leukemia	5	1.8	0.6	1.3	0	n/c	n/c	0.4
Chronic Lymphocytic Leukemia	4	n/c	n/c	2.1	1	n/c	n/c	0.8
Other Lymphocytic Leukemia	0	n/c	n/c	0.1	0	n/c	n/c	0.1
Myeloid Leukemia	5	1.8	0.5	3.6	6	2.4	0.8	2.2
Acute Myeloid Leukemia	4	n/c	n/c	2.3	5	2.2	0.6	1.6
Chronic Myeloid Leukemia	1	n/c	n/c	1.0	1	n/c	n/c	0.5
Other Myeloid Leukemia	0	n/c	n/c	0.2	0	n/c	n/c	0.1
Monocytic Leukemia	0	n/c	n/c	0.2	0	n/c	n/c	0.0
Acute Monocytic Leukemia	0	n/c	n/c	0.2	0	n/c	n/c	0.0
Other Monocytic Leukemia	0	n/c	n/c	0.0	0	n/c	n/c	0.0
Other Leukemia	1	n/c	n/c	0.7	1	n/c	n/c	1.2
Other Acute Leukemia	0	n/c	n/c	0.3	0	n/c	n/c	0.7
Other Chronic Leukemia	0	n/c	n/c	0.0	0	n/c	n/c	0.0
Leukemic, Subleukemic and NOS	1	n/c	n/c	0.4	1	n/c	n/c	0.5
Miscellaneous	15	7.7	4.3	8.6	17	8.72	5.02	9.3

Bold numbers indicate rate different than U.S. rate.

Note: Rate is not calculated (n/c) where number is less than 5.

Table 3-a. Cancer Incidence by Race for Selected Sites - Alaska, 1996-1998

Site of Cancer	Total			White			AK Native			Asian-Pacific Islander			Black			
	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	1994-98 U.S. Rate
All Sites	409.7	(5,242)	397-421	414.0	(4,102)	400-428	420.1	(794)	390-451	266.3*	(158)	223-318	462.0	(145)	381-557	400.5
Oral Cavity & Pharynx	10.0	(135)	8-12	9.1	(99)	7-11	15.4**	(28)	10-22	n/c	(<5)		n/c	(<5)		9.9
Colorectal	45.1	(527)	41-49	37.4*	(339)	33-42	86.0*	(153)	72-101	22.0*	(14)	11-42	61.7	(17)	34-105	43.9
Pancreas	10.1	(117)	8-12	10.0	(89)	8-12	14.0	(24)	8.9-21	n/c	(<5)		n/c	(<5)		8.9
Lung	67.5**	(780)	62-72	65.2**	(581)	60-71	83.6*	(147)	70-98	36.3***	(22)	22-59	77.4	(24)	47-123	56.1
Melanoma	8.7**	(142)	7-10	10.9*	(138)	9-13	n/c	(<5)		n/c	(0)		n/c	(<5)		14.1
Breast (female)	118.1	(864)	109-127	124.7**	(695)	115-135	118.1	(126)	97-141	35.5*	(15)	19-78	113.5	(25)	68-193	114.3
Uterus	18.3	(119)	15-22	20.6	(101)	17-25	11.3**	(12)	5-20	n/c	(5)		n/c	(0)		21.9
Prostate	129.0	(673)	124-145	137.0	(568)	125-150	66.3*	(47)	48-89	134.5	(23)	84-211	211.2***	(28)	136-324	142.0
Urinary Bladder	19.7**	(220)	17-23	23.7*	(201)	20-27	n/c	(9)	2-9	n/c	(5)		n/c	(<5)		16.7
Kidney & Renal Pelvis	11.0	(146)	9-13	10.1	(109)	8-12	14.7**	(27)	10-22	n/c	(<5)		n/c	(<5)		9.6
Thyroid	7.1	(128)	5-8	7.5**	(104)	6-9	n/c	(9)	6-9	15.4**	(12)	7-33	n/c	(<5)		5.6
Non-Hodgkin's Lymphoma	17.0	(238)	15-19	19.1	(201)	16-22	9.8*	(24)	6-10	n/c	(6)		n/c	(7)		16.1
Leukemia	11.6	(148)	9-14	12.8**	(122)	11-15	8.5	(19)	4-14	n/c	(5)		n/c	(<5)		10.4

Unknown race = 43 cases

Rates per 100,000 population age-adjusted to 1970 U.S. population

* Significantly different from U.S. and Alaska

** Significantly different from U.S.

*** Significantly different from Alaska

Note: Rate is not calculated (n/c) where number is less than 10

Cells with fewer than 5 cases are not presented.

Table 3-b. Cancer Mortality by Race for Selected Sites - Alaska, 1996-1998

Site of Cancer	Total			White			AK Native			Asian-Pacific Islander			Black					
	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI
All Sites	167.3	(1,915)	159-175	163.8	(1,423)	155-173	217.2	(389)	119-306	80.6 *	(46)	57-113	203.4	(54)	148-274	1994-98 U.S. Rate	166.2	
Stomach	6.4 **	(79)	5-8	3.9 ***	(32)	2-5	18.8 *	(39)	13-26	n/c	(6)		n/c	(<5)		4.0		
Colorectal	15.3	(166)	13-18	13.5 **	(110)	11-16	26.9 *	(47)	19-36	n/c	(<5)		n/c	(7)		16.9		
Pancreas	8.9	(101)	7-11	8.3	(72)	6-10	14.7 *	(26)	9-22	n/c	(<5)		n/c	(<5)		8.3		
Lung	51.7	(572)	47-56	50.1	(429)	45-55	66.3 *	(112)	54-80	19.8 *	(11)	9-41	74.6	(19)	43-122	48.7		
Breast (female)	21.6	(143)	18-26	22.6	(109)	18-28	21.1	(24)	13-32	n/c	(<5)		n/c	(7)		24.2		
Prostate	15.8 **	(68)	12-22	17.4	(55)	13-24	13.6	(10)	6-26		(0)		n/c	(<5)		23.7		
Non-Hodgkin's Lymphoma	6.7	(81)	5-8	7.4	(67)	5-10	5.2	(10)	2-10	n/c	(<5)		n/c	(<5)		6.9		

Unknown race = 3 deaths

Rates per 100,000 population age-adjusted to 1970 U.S. population

* Significantly different from U.S. and Alaska

** Significantly different from U.S.

*** Significantly different from Alaska

Note: Rate is not calculated (n/c) where number is less than 10
Cells with fewer than 5 cases are not presented.

**Table 4-a. Cancer Incidence by Borough/Census Area for Selected Sites
Alaska, 1996-1998**

	All Cancers Combined			Lung			Colorectal			Breast			Prostate			Non-Hodgkin's Lymphoma		
	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI
U.S. 1994-1998	400.5			56.1			43.9			114.3			142.0			17.0	(238)	15-19
Alaska, 1996-1998	409.7	(5,242)	397-421	67.5**	(780)	62-72	45.1	(527)	41-49	118.1	(864)	109-127	129.0	(673)	124-145	17.0	(238)	15-19
Aleutians East	233.3	(10)	99-2,893	n/c	(<5)		n/c	(0)		n/c	(<5)		n/c	(<5)		n/c	(<5)	
Aleutians West	454.5	(34)	268-760	154.7**	(10)	62-377	n/c	(5)		n/c	(5)		n/c	(<5)		n/c	(<5)	
Anchorage	411.3	(2,133)	392-431	61.9	(290)	54-70	40.2	(189)	34-47	127.5	(388)	114-142	152.0***	(293)	134-172	18.3	(107)	14-22
Bethel	245.2*	(72)	190-312	45.3	(12)	23-80	73.4**	(20)	44-115	60.9	(10)	28-118	n/c	(<5)		n/c	(<5)	
Bristol Bay	n/c	(5)		n/c	(<5)		n/c	(0)		n/c	(0)		n/c	(0)		n/c	(0)	
Denali	389.3	(15)	179-872	n/c	(<5)		n/c	(0)		n/c	(6)		n/c	(<5)		n/c	(<5)	
Dillingham	454.3	(40)	317-641	n/c	(9)		n/c	(9)		n/c	(6)		n/c	(<5)		n/c	(<5)	
Fairbanks North Star	416.3	(607)	380-454	65.4	(83)	51-82	43.7	(57)	32-58	119.9	(97)	95-150	116.8	(74)	90-152	13.1	(24)	8-21
Haines	382.1	(29)	252-574	n/c	(5)		n/c	(<5)		n/c	(<5)		n/c	(5)		n/c	(<5)	
Juneau	386.3	(275)	339-438	59.6	(37)	41-83	28.9	(18)	16-47	100.1	(48)	72-138	148.3	(42)	105-204	17.2	(11)	8-32
Kenai Peninsula	436.1	(491)	396-479	96.4*	(101)	78-118	31.0**	(34)	21-44	121.6	(73)	94-155	134.3	(68)	103-175	17.7	(21)	10-29
Ketchikan Gateway	404.4	(168)	343-475	70.4	(28)	46-105	31.0	(14)	16-56	95.8	(22)	58-154	121.8	(21)	74-192	n/c	(5)	
Kodiak Island	530.1*	(129)	433-646	85.3	(18)	47-146	64.2	(13)	32-120	258.1*	(32)	170-387	158.2	(17)	89-273	n/c	(<5)	
Lake and Peninsula	378.2	(14)	202-670	n/c	(<5)		n/c	(<5)		n/c	(<5)		n/c	(0)		n/c	(0)	
Matanuska-Susitna	462.3*	(515)	420-508	61.4	(67)	47-80	54.5	(54)	40-73	132.9	(82)	103-169	126.8	(62)	95-170	26.3**	(29)	17-40
Nome	370.6	(75)	288-471	88.4	(15)	49-148	83.0*	(17)	46-138	n/c	(9)		n/c	(<5)		n/c	(<5)	
North Slope	305.3	(43)	213-433	n/c	(8)		74.3	(10)	32-156	n/c	(5)		n/c	(<5)		n/c	(0)	
Northwest Arctic	349.5	(41)	246-489	n/c	(6)		99.5*	(11)	48-191	n/c	(<5)		n/c	(<5)		n/c	(<5)	
Prince of Wales-Outer Ketchikan	388.6	(56)	277-541	n/c	(9)		151.6*	(14)	77-276	n/c	(<5)		n/c	(6)		n/c	(<5)	
Sitka	376.0	(92)	300-467	66.0	(15)	36-113	67.7	(17)	38-114	n/c	(8)		n/c	(10)	48-204	n/c	(<5)	
Skagway-Hoonah-Angoon	334.4	(35)	226-485	n/c	(<5)		n/c	(<5)		n/c	(6)		n/c	(6)		n/c	(<5)	
Southeast Fairbanks	429.0	(61)	319-570	n/c	(6)		n/c	(<5)		n/c	(9)		n/c	(9)		n/c	(<5)	
Valdez-Cordova	407.3	(103)	326-505	52.3	(13)	26-97	54.9	(12)	26-103	126.9	(18)	69-220	164.7	(19)	97-271	n/c	(6)	
Wade Hampton	358.3	(43)	256-497	120.1**	(13)	63-218	n/c	(5)		n/c	(<5)		n/c	(<5)		n/c	(0)	
Wrangell-Petersburg	365.7	(75)	285-467	72.5	(14)	39-130	n/c	(<5)		131.3	(16)	73-237	135.2	(12)	69-251	n/c	(<5)	
Yakutat	974.0*	(15)	505-1,872	n/c	(<5)		n/c	(0)		n/c	(<5)		n/c	(<5)		n/c	(0)	
Yukon-Koyukuk	384.0	(60)	290-500	n/c	(6)		105.3*	(16)	59-175	n/c	(7)		n/c	(8)		n/c	(<5)	

Unknown Borough/Census Area = 6 cases.
 Rates per 100,000 population age-adjusted to 1970 U.S. population.
 *Significantly different from U.S. and Alaska.
 **Significantly different from U.S.
 ***Significantly different from Alaska.
 Notes: Rate not calculated (n/c) where number is less than 10.
 Cells with fewer than 5 cases are not presented.

**Table 4-b. Cancer Mortality by Borough/Census Area for Selected Sites
Alaska, 1996-1998**

	All Cancers Combined			Lung			Colorectal			Breast			Pancreas		
	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI	Rate per 100,000	(# of Cases)	95% CI
U.S. 1994-1998	166.2			48.7			16.9			24.2			8.3		
Alaska, 1996-1998	167.3	(1,915)	159-175	51.7	(572)	47-56	15.3	(166)	13-18	21.6	(143)	18-25	8.9	(101)	7-11
Aleutians East	n/c	(9)		n/c	(<5)		n/c	(0)		n/c	(<5)		n/c	(0)	
Aleutians West	n/c	(7)		n/c	(<5)		n/c	(0)		n/c	(<5)		n/c	(<5)	
Anchorage	166.4	(754)	154-179	49.0	(216)	42-56	14.1	(58)	10-18	20.7	(60)	15-27	7.4	(34)	5-10
Bethel	161.4	(44)	116-219	53.4	(14)	29-91	n/c	(7)		n/c	(<5)		n/c	(<5)	
Bristol Bay	n/c	(<5)		n/c	(<5)		n/c	(0)		n/c	(0)		n/c	(0)	
Denali	n/c	(<5)		n/c	(<5)		n/c	(0)		n/c	(0)		n/c	(0)	
Dillingham	161.6	(13)	83-295	n/c	(<5)		n/c	(<5)		n/c	(0)		n/c	(0)	
Fairbanks North Star	154.6	(197)	132-180	44.0	(53)	32-59	9.4	(12)	4-18	31.0	(22)	18-49	14.3	(15)	8-24
Haines	138.6	(10)	65-281	n/c	(5)		n/c	(0)		n/c	(0)		n/c	(<5)	
Juneau	158.4	(102)	127-194	48.8	(29)	32-71	n/c	(8)		n/c	(<5)		n/c	(9)	
Kenai Peninsula	205.7	(216)	178-237	68.4*	(73)	53-87	20.0	(19)	11-32	35.4	(19)	20-57	10.2	(10)	4-20.1
Ketchikan Gateway	127.0	(52)	94-170	36.0	(14)	19-63	n/c	(7)		n/c	(<5)		n/c	(<5)	
Kodiak Island	123.1	(26)	76-193	n/c	(9)		n/c	(<5)		n/c	(<5)		n/c	(<5)	
Lake and Peninsula	n/c	(8)		n/c	(<5)		n/c	(0)		n/c	(0)		n/c	(<5)	
Matanuska-Susitna	168.5	(177)	143-198	50.4	(53)	37-67	12.0	(13)	6-23	26.9	(14)	14-47	8.7	(10)	4-18
Nome	210.0	(39)	147-291	86.3	(15)	47-145	n/c	(5)		n/c	(0)		n/c	(<5)	
North Slope	186.9	(21)	110-302	n/c	(7)		n/c	(<5)		n/c	(<5)		n/c	(<5)	
Northwest Arctic	212.7	(27)	135-328	n/c	(6)		n/c	(<5)		n/c	(<5)		n/c	(<5)	
Prince of Wales-Outer Ketchikan	112.1	(16)	58-212	n/c	(<5)		n/c	(<5)		n/c	(0)		n/c	(0)	
Sitka	119.7	(27)	78-178	n/c	(9)		n/c	(<5)		n/c	(<5)		n/c	(<5)	
Skagway-Hoonah-Angoon	133.8	(13)	69-245	n/c	(<5)		n/c	(<5)		n/c	(<5)		n/c	(0)	
Southeast Fairbanks	198.7	(20)	119-315	n/c	(<5)		n/c	(<5)		n/c	(0)		n/c	(0)	
Valdez-Cordova	153.2	(32)	102-223	n/c	(9)		n/c	(<5)		n/c	(<5)		n/c	(<5)	
Wade Hampton	228.8	(25)	146-350	91.1	(10)	42-182	n/c	(<5)		n/c	(0)		n/c	(0)	
Wrangell-Petersburg	169.2	(34)	116-245	53.2	(10)	25-106	n/c	(<5)		n/c	(<5)		n/c	(<5)	
Yakutat	n/c	(7)		n/c	(<5)		n/c	(0)		n/c	(0)		n/c	(0)	
Yukon-Koyukuk	193.1	(28)	127-283	79.3	(10)	35-139	n/c	(<5)		n/c	(<5)		n/c	(<5)	

Unknown Borough/Census Area = 6 deaths.
 Rates per 100,000 population age-adjusted to 1970 U.S. population.
 *Significantly different from U.S. and Alaska.
 Notes: Rate not calculated (n/c) where numbers are less than 10.
 Cells with fewer than 5 deaths are not presented.

Appendices

APPENDIX I
International Classification of Diseases for Oncology - 2nd Edition (ICD-O-2)
and International Classification of Diseases - 9th Revision (ICD-9) Codes Used for Grouping Sites of Cancer

SITE OF CANCER	ICD-O-2* codes	ICD-9 codes
Oral cavity and pharynx		
Lip	C00.0 - C00.9	140.0 - 140.9
Tongue	C01.9 - C02.9	141.0 - 141.9
Salivary glands	C07.9 - C08.9	142.0 - 142.9
Floor of mouth	C04.0 - C04.9	144.0 - 144.9
Gum and other mouth	C03.0 - C03.9, C05.0 - C05.9, C06.0 - C06.9	143.0 - 143.9, 145.0 - 145.6, 145.8 - 145.9
Nasopharynx	C11.0 - C11.9	147.0 - 147.9
Tonsil	C09.0 - C09.9	146.0 - 146.2
Oropharynx	C10.0 - C10.9	146.3 - 146.9
Hypopharynx	C12.9, C13.0 - C13.9, C14.1	148.0 - 148.9
Other oral cavity and pharynx	C14.0, C14.2 - C14.8	149.0 - 149.9
Digestive system		
Esophagus	C15.0 - C15.9	150.0 - 150.9
Stomach	C16.0 - C16.9	151.0 - 151.9
Small intestine	C17.0 - C17.9	152.0 - 152.9
Colorectal		
Colon excluding rectum	C18.0 - C18.9, C26.0	153.0 - 153.9, 159.0
Rectum and rectosigmoid	C19.9, C20.9	154.0 - 154.1
Anus, anal canal and anorectum	C21.0 - C21.2, C21.8	154.2 - 154.3, 154.8
Liver and intrahepatic bile duct	C22.0, C22.1	155.0, 155.1, 155.2
Gallbladder	C23.9	156.0
Other biliary	C24.0 - C24.9	156.1 - 156.9
Pancreas	C25.0 - C25.9	157.0 - 157.9
Retroperitoneum	C48.0	158.0
Peritoneum, omentum and mesentery	C48.1 - C48.2	158.8 - 158.9
Other digestive organs	C26.8 - C26.9, C48.8	159.8 - 159.9

SITE OF CANCER	ICD-0-2* codes	ICD-9 codes
Respiratory system		
Nasal cavity, middle ear and accessory sinuses	C30.0 - C30.1, C31.0 - C31.9	160.0 - 160.9
Larynx	C32.0 - C32.9	161.0 - 161.9
Lung and bronchus	C34.0 - C34.9	162.2 - 162.9
Pleura	C38.4	163.0 - 163.9
Trachea, mediastinum and other respiratory organs	C33.9, C38.1 - C38.3, C38.8, C39.0, C39.8, C39.9	162.0, 164.2 - 165.9
Bones and joints		
	C40.0 - C41.9	170.0 - 170.9
Soft tissue (including heart)		
	C38.0, C47.0 - C47.9, C49.0 - C49.9	171.0 - 171.9, 164.1
Skin (excluding basal and squamous)		
Melanomas of the skin	C44.0 - C44.9 (histologic types 8720 - 8790 only)	172.0 - 172.9
Other non-epithelial skin	C44.0 - C44.9 (excluding histologic types 8000 - 8004, 173.0 - 173.9, 8010 - 8012, 8070 - 8076, 8090 - 8096, 8720 - 8790 and 9590 - 9989)	
Breast		
	C50.0 - C50.9	174.0 - 174.9, 175
Female genital system		
Cervix uteri	C53.0 - C53.9	180.0 - 180.9
Corpus uterus and uterus NOS	C54.0 - C54.9, C55.9	179, 182.0 - 182.1, 182.8
Ovary	C56.9	183.0
Vagina	C52.9	184.0
Vulva	C51.0 - C51.9	184.1 - 184.4
Other female genital organs	C57.0 - C57.9, C58.9	181, 183.2 - 183.9, 184.8 - 184.9
Male genital system		
Prostate	C61.9	185.0
Testis	C62.0 - C62.9	186.0 - 186.9
Penis	C60.0 - C60.9	187.1 - 187.4
Other male genital organs	C63.0 - C63.9	187.5 - 187.9

SITE OF CANCER	ICD-0-2* codes	ICD-9 codes
Urinary system		
Urinary bladder	C67.0 - C67.9	188.0 - 188.9
Kidney and renal pelvis	C64.9, C65.9	189.0, 189.1
Ureter	C66.9	189.2
Other urinary organs	C68.0 - C68.9	189.3 - 189.4, 189.8 - 189.9
Eye and orbit	C69.0 - C69.9	190.0 - 190.9
Brain and other nervous system		
Brain	C71.0 - C71.9 (excluding histologic types 9530 - 9539)	191.0 - 191.9
Other nervous system	C71.0 - C71.9 (histologic types 9530 - 9539 only), C70.0 - C70.9, C72.0 - C72.9	192.0 - 192.3, 192.8 - 192.9
Endocrine system		
Thyroid	C73.9	193.0
Other endocrine (including thymus)	C37.9, C74.0 - C74.9, C75.0 - C75.9	164.0, 194.0 - 194.9
Lymphomas		
Hodgkin's disease	Histologic types 9650 - 9667 only	201.0 - 201.9
Non-Hodgkin's lymphomas	Histologic types 9590 - 9595, 9670 - 9715 only	200.0 - 200.8, 202.0 - 202.2, 202.8 - 202.9
Multiple myeloma	Histologic types 9731 - 9732 only	203.0, 203.2 - 203.8
Leukemias		
Lymphocytic		
Acute lymphocytic	Histologic type 9821	204.0
Chronic lymphocytic	Histologic type 9823	204.1
Other lymphocytic	Histologic types 9820, 9822, 9824, 9825, 9826	204.2 - 204.9
Granulocytic (myeloid)		
Acute granulocytic	Histologic types 9861, 9867	205.0
Chronic granulocytic	Histologic types 9863, 9868	205.1
Other granulocytic	Histologic types 9860, 9862, 9864, 9866	205.2 - 205.9

SITE OF CANCER	ICD-0-2* codes	ICD-9 codes
Monocytic		
Acute Monocytic	Histologic type 9891	206.0
Chronic monocytic	Histologic type 9893	206.1
Other monocytic	Histologic types 9890, 9892, 9894	206.2 - 206.9
Other		
Other acute	Histologic types 9801, 9841	207.0, 208.0
Other chronic	Histologic types 9803, 9842, 9931	207.1, 208.1
Aleukemic, subleukemic and NOS	Histologic types 9800, 9802, 9804, 9827, 9830, 9840, 9850, 9870, 9880, 9900, 9910, 9930 - 9941	202.4, 203.1, 207.2, 207.8, 208.2 - 208.9
Ill-defined and unspecified sites		
	Histologic types 9720, 9723, 9740 - 9741, 9760 - 9764, 159.1, 195.0 - 195.8, 196.0 - 196.9, 9950 - 9989; C76.0 - C76.8, C80.9 (histologic types 8000 - 9589); C42.0 - C42.4 (histologic types 8000 - 9589); C77.0 - C77.9 (histologic types 8000 - 9589)	199.0 - 199.1, 202.3, 202.5 - 202.6

*Unless otherwise stated, all groupings include only invasive cancers (behavior 3) and exclude histologic types 9590 - 9989. Adapted from Surveillance, Epidemiology and End Results (SEER) Cancer Statistics Review, 1973 - 1995.

APPENDIX II

1970 United States Standard Million Population, by Age

Age	United States Standard Million Population, 1970
All Ages	1,000,000
<5	84,416
5-9	98,204
10-14	102,304
15-19	93,845
20-24	80,561
25-29	66,320
30-34	56,249
35-39	54,656
40-44	58,958
45-49	59,622
50-54	54,643
55-59	49,077
60-64	42,403
65-69	34,406
70-74	26,789
75-79	18,871
80-84	11,241
85+	7,435

APPENDIX III

Alaska's 1998 Population

Population estimates used in this report are provided by the Alaskan Department of Labor, Research and Analysis Section, Demographics Unit (revised May 1999).

Age Group	All Races		White		Native American		African American		Asian/Pacific Islander	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
0-4	26,467	25,409	17,856	17,210	5,941	5,613	1,131	1,105	1,539	1,481
5-9	29,124	27,723	19,529	18,363	6,760	6,541	1,387	1,418	1,448	1,401
10-14	28,149	26,756	19,660	18,545	6,070	5,795	1,246	1,165	1,173	1,251
15-19	24,867	22,766	17,369	15,923	5,075	4,824	1,385	1,051	1,038	968
20-24	17,242	16,939	10,611	11,310	3,947	3,687	1,668	1,052	1,016	890
25-29	21,243	18,137	14,077	12,602	3,451	3,154	2,465	1,420	1,250	961
30-34	26,309	22,755	19,646	16,705	3,839	3,565	1,544	1,201	1,280	1,284
35-39	31,144	28,659	25,008	22,213	3,655	4,001	1,116	875	1,365	1,570
40-44	31,213	29,302	25,408	23,111	3,431	3,692	1,233	977	1,141	1,522
45-49	27,939	24,376	23,165	19,691	2,834	2,779	976	630	964	1,276
50-54	20,288	17,010	17,293	13,810	1,792	2,027	444	378	759	795
55-59	13,348	11,556	11,256	9,161	1,372	1,629	257	260	463	506
60-64	8,555	7,518	6,874	5,517	1,235	1,318	194	173	252	510
65-69	5,951	5,857	4,683	4,192	900	1,061	31	81	237	523
70-74	4,453	4,660	3,518	3,432	613	751	99	99	223	378
75-79	2,822	3,380	2,227	2,442	410	589	73	101	112	248
80-84	1,347	1,891	1,098	1,446	189	342	26	44	34	59
85+	724	1,203	459	861	188	291	26	29	50	23
Total	321,185	295,897	239,737	216,534	51,702	51,659	15,401	12,059	14,344	15,646

Extracted from Table 1.13 Alaska Population Estimate by Age, Male/Female, Race and Ethnicity, July 1, 1998

Source: Alaska Population Overview: 1999 Estimates. Published May 2000 by the Alaska Dept of Labor and Workforce Development, Research and Analysis Section.

This publication was produced by the Department of Health and Social Services, Division of Public Health, Section of Epidemiology, in order to provide information which may assist in the development and evaluation of cancer prevention and control programs. It was printed by Spectrum Printing at a cost of \$___ per copy, in Anchorage, Alaska.