

Cancer in Alaska Native People: 1969-2013 The 45-Year Report

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**ALASKA NATIVE
TRIBAL HEALTH
CONSORTIUM**

**Alaska Native Tumor Registry
Alaska Native Epidemiology Center
Division of Community Health Services
Alaska Native Tribal Health Consortium
June 2015**

Dedication

Cancer in Alaska Native People: 1969-2013, The 45 Year Report is dedicated to Anne P. Lanier, MD, MPH, and her tireless work on behalf of the Alaska Native people. Dr. Lanier established the Alaska Native Tumor Registry in 1974 in collaboration with the National Cancer Institute and the Centers for Disease Control and Prevention. Dr. Lanier has been a leader in cancer epidemiology for over forty years. In that time Dr. Lanier has contributed over 200 peer-reviewed publications to the scientific literature, produced numerous reports, and delivered a variety of presentations. Her work has added greatly to our current understanding of cancer among Alaska Native people, as well as led to numerous grants for programs, including the Alaska Native Tribal Health Consortium's (ANTHC) Education and Research Towards Health (EARTH) study, the ANTHC Cancer Program, and the ANTHC Tobacco Program. Dr. Lanier continues to be a champion for reducing the burden of cancer and promoting health among Alaska Native people.

Dr. Lanier, we are honored to dedicate this report to you.

Acknowledgements

The authors wish to express thanks to the many tumor registrars, medical records personnel and IT staff at health care facilities, and others throughout the state who helped assure the completeness and accuracy of these data. We could not have produced this report without the continued support from staff of the Alaska Native Medical Center Tumor Registry, the Alaska Cancer Registry, the New Mexico Tumor Registry, and the Washington State Cancer Registry.



Funding for the SEER Alaska Native Tumor Registry is provided through a subcontract with the Regents of the University of New Mexico as part of the National Cancer Institute/Surveillance, Epidemiology and End Results (SEER) contract HHSN261201300010I.

Suggested Citation: Carmack AM, Schade TL, Sallison I, Provost EM, Kelly JJ. *Cancer in Alaska Native People: 1969 – 2013, The 45 Year Report*. Anchorage, AK: Alaska Native Tumor Registry, Alaska Native Epidemiology Center, Alaska Native Tribal Health Consortium 2015.

This report is available at the Alaska Native Epidemiology Center website:

<http://www.anthctoday.org/epicenter/antr/index.html>

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Errata

Corrected 17 January, 2017

Previously, colorectal cancer was erroneously omitted as the second leading cancer, by frequency, among Alaska Native Women in the Interior Tribal Health Region from 1984 through 2013 (pg. 91, column 3, row 2). That omission has been corrected and the leading cancers have been renumbered accordingly.

Corrected 17 February, 2017

Previously, the colorectal cancer counts for Alaska Native women from 1999 through 2013 were incorrectly displayed as the total counts for both Alaska Native women and men combined (pg. 37, fifth column of table; Women -> Alaska Native -> Count). That error has been corrected. No other values in the table were affected by the change.

Introduction

This report provides detailed information on cancer incidence and mortality over the 45-year period 1969-2013 from the Alaska Native Tribal Health Consortium's (ANTHC) Alaska Native Tumor Registry. Cancer remains the leading cause of death among Alaska Native (AN) people with an average of 177 AN cancer deaths and over 400 new cases of cancer diagnosed per year (2009-2013).

Cancer incidence and mortality data for the US white (USW) population is included to provide a population for comparing cancer rates. Comparisons with other groups help to describe similarities and differences and may show areas for improvement. These data can also be used for health status monitoring, strategic planning, and evaluation in order to decrease cancer incidence and mortality.

Methods

AN population estimates were gathered from the US Census (1970, 1980, and 1990) and from National Center for Health Statistics' bridged population series for AN people (1981–2010) from the SEER*Stat website (1). Population estimates, cancer incidence, and cancer mortality data for USWs were obtained from the National Cancer Institute's SEER Program SEER*Stat database (2).

Cancer incidence data among AN people are from the Surveillance, Epidemiology, and End Results (SEER) Alaska Native Tumor Registry, a population-based registry that collects data about AN people who lived in Alaska at the time of their cancer diagnosis and who met eligibility requirements for Indian Health Service (IHS) benefits (3). Cancer incidence rates were expressed as average annual rates per 100,000 population for selected time periods between 1969-2013. USW cancer incidence data for both 1999-2013 and 2009-2013 were obtained from a SEER*Stat data set which was based on 18 registries (4,5). USW trend data for 1974–2013 were obtained from a SEER*Stat data set based on 9 registries (6). Current AN and USW mortality rates were based on data for the years 2007-2011 and mortality trends were based on data for the years 1992-2011. These mortality rates were obtained from SEER*Stat (7).

Cancer data and demographic information for AN patients are collected from medical records including pathology reports, provider dictations, and discharge summaries from the Alaska Native Medical Center in Anchorage, AK, as well as other Alaska regional medical facilities. All medical record abstracting was completed using detailed coding and staging guidelines established by the SEER program(8).

Primary cancer site, pathology, behavior, and grade coding followed the International Classification of Diseases for Oncology, 2nd and 3rd editions (9,10). Cancer sites of origin were grouped according to SEER primary site groups. Less than 1% of the cases were identified from death certificates alone; 90% of cancers were confirmed histologically by pathology examination. Data were processed through a standard set of computerized edits. SEER data quality was also monitored through periodic record review and other SEER data quality improvement activities.

Calculation of rates, rate ratios (RRs), and 95% confidence intervals were computed using SEER*Stat statistical software version 8.1.5 (2). Rates for AN people were age-adjusted to the US Census 2000 standard population using the direct method for comparison with USW rates. Rate ratios are expressed as the AN rate divided by the USW rate. Cancer incidence rates for each tribal health region within Alaska were compared with the average annual cancer incidence rates for all AN statewide.

Executive Summary

Leading Cancers Among Alaska Native People

For the years 2009-2013, a total of 2,123 cases of invasive cancer were diagnosed compared to 1,866 from the prior five year period, 2004-2008. From 2009-2013, the most frequently diagnosed invasive cancers among AN men and women combined were: colorectal cancer (368 cases, 17.3% of all cancers), female breast cancer (328 cases, 15.4% of all cancers), lung cancer (324 cases, 15.3% of all cancers), and prostate cancer (109 cases, 5.1% of all cancers). These four leading cancers accounted for 53.2% of all invasive cancer diagnoses.

Incidence Rates Comparison: Alaska Native (AN) vs US White (USW)

For the years 2009-2013, rates among AN people exceeded those among USWs for nasopharyngeal (RR=17.25), stomach (RR=3.21), colorectal (RR=2.21), kidney (RR=1.47), lung (RR=1.46), and liver cancer (RR=1.45). Although cancer of the nasopharynx is diagnosed relatively infrequently (27 diagnoses from 2009-2013), the rate ratio is exceptionally high at 17.25. In contrast, AN rates were lower than USWs for the following cancers: melanoma (RR=0.22), lymphocytic leukemia (RR=0.32), prostate (RR=0.45), urinary bladder (RR=0.58), and non-Hodgkin lymphoma (RR=0.71). During these years, the average annual age-adjusted cancer incidence rate among AN women for all sites combined was 23.3% higher than among USW women while the rate for all sites combined among AN men was similar to that of USW men.

Trends in Cancer Incidence

Colorectal cancer (CRC): Since the mid-1980's, USW CRC incidence rates have declined significantly, while AN CRC incidence rates have been relatively stable. During this same time period, AN CRC incidence rates have remained significantly higher than those among USWs.

Breast cancer: From the 1970s to mid-1990s, breast cancer incidence rates increased dramatically. However, since the mid-1990s there appears to have been no significant change in these rates. While AN breast cancer incidence rates were once much lower than USWs, breast cancer incidence rates are now similar to those among USW women.

Lung cancer: Since the 1970s, lung cancer incidence rates appear to have increased among AN people and these rates have remained consistently higher than USW rates since the early 1980s.

Prostate cancer: In contrast to the other leading cancers, prostate cancer incidence among AN males has remained relatively stable since the early 1970s and consistently lower than USW males.

Age-Specific Rates

Age-specific incidence rates were calculated for the 15-year period, 1999-2013. During this time period, nearly 70% of AN cancer diagnoses were among people 50-79 years of age. For all cancer sites combined, AN people age 40-49, 50-59, and 70-79 had significantly higher incidence rates than the corresponding age groups among USWs. Colorectal, stomach, and nasopharyngeal cancer rates were significantly higher among all AN people age 30 and above; lung cancer rates were significantly higher for age 40 and above; gallbladder cancer rates were significantly higher for age 50 and above; and kidney cancer rates were significantly higher for age 50-79. USW men had significantly higher prostate cancer rates than among AN people age 40 and above; significantly higher urinary bladder cancer rates for age 50 and above; and significantly higher leukemia rates for age 60 and above.

Tribal Health Region

For the purposes of this report, the AN population is distributed over 12 tribal health regions (refer to the map and Tribal Health Regions table provided). Each region was compared to the AN statewide average annual incidence rate for the years 2004-2013. For all sites combined, no tribal health region was significantly higher than the AN statewide average rate; however, the Yukon-Kuskokwim region had a significantly lower rate than the AN statewide average rate (RR=0.80).

Colorectal cancer: Compared with the AN statewide average rate, colorectal cancer incidence rates were higher in the Arctic Slope region (RR=1.94) and lower in the Southeast region (RR=0.71).

Breast cancer: Compared with the AN statewide average rate, breast cancer incidence rates were higher in the Southeast region (RR=1.44) and the Interior region (RR=1.41) and lower in the Yukon-Kuskokwim region (RR=0.51) and the Northwest Arctic region (RR=0.53).

Lung cancer: Regional lung cancer incidence rates were not significantly different than the AN statewide average rate.

Prostate cancer: Compared with the AN statewide average rate, prostate cancer incidence rates were higher in the Kodiak region (RR=2.64) and in the Southeast region (RR=1.53).

Mortality Rates

Between 1992-2011, a total of 2,784 AN deaths due to cancer were reported. Mortality rates among AN people exceeded those of USWs for all sites combined (RR=1.30) and for selected sites: nasopharyngeal (RR=21.00), stomach (RR=3.66), kidney (RR=2.24), colorectal (RR=1.86), liver (RR=1.77), esophageal (RR=1.67), lung (RR=1.34), and pancreatic (RR=1.29) cancer. Mortality rates among AN people were lower than USW mortality rates for melanoma of the skin (RR=0.26), brain & nervous system (RR=0.33),

non-Hodgkin lymphoma (RR=0.56), urinary bladder (RR=0.62), myeloid & monocytic leukemia (RR=0.63), and prostate cancer (RR=0.68).

For the time period 2007-2011, statewide AN mortality rates for stomach cancer (R=3.87), kidney cancer (RR=2.38), colorectal cancer (RR=2.28), lung cancer (RR=1.51), and all sites combined (RR=1.42) were higher than USW rates. Breast cancer mortality rates for AN women and USW women were similar (28.3 vs 21.7 per 100,000, respectively) as were prostate cancer mortality rates for AN men and USW men (16.1 vs 20.6 per 100,000, respectively).

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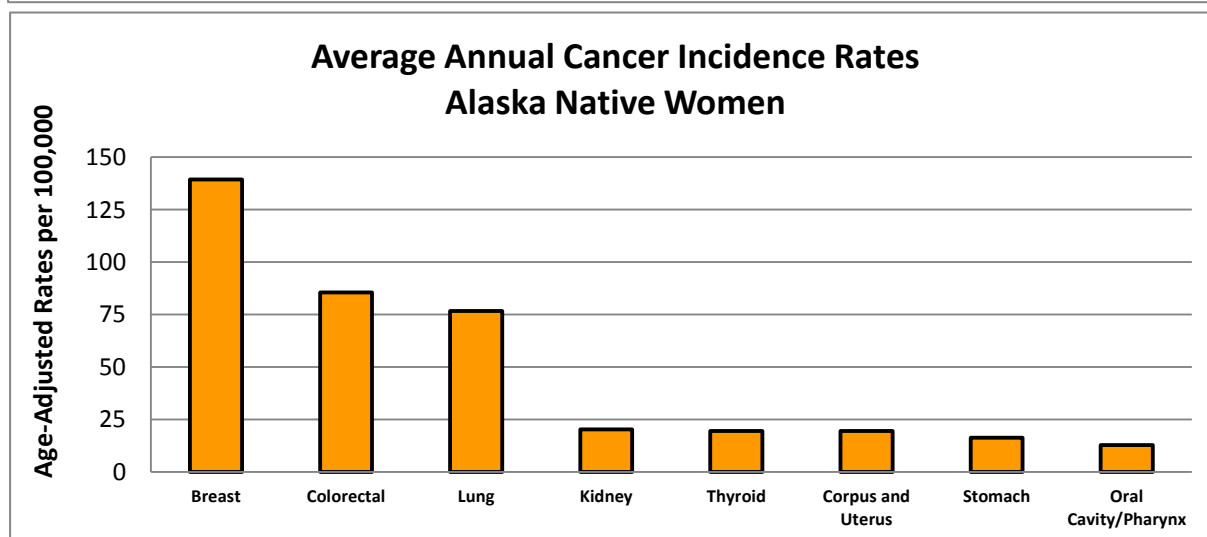
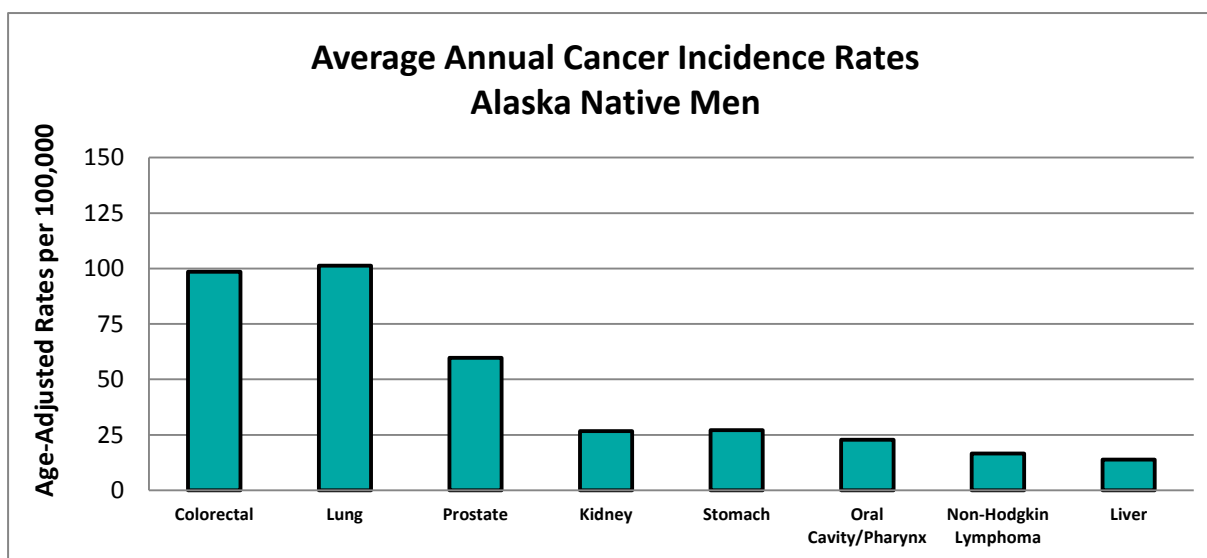
Leading Cancers Among Alaska Native Men and Women 2009 - 2013 Counts and Rates

Men	Count	Rate ^Ω	Women	Count	Rate
All Sites	957	497.7	All Sites	1,166	519.1
1 Colorectal	186	98.6 *	1 Breast	328	139.3
2 Lung	169	101.3 *	2 Colorectal	182	85.5 *
3 Prostate	109	59.7 δ	3 Lung	155	76.7 *
4 Kidney	57	26.7	4 Kidney	48	20.3 *
5 Stomach	53	27.1 *	5 Thyroid	47	19.5
6 Oral Cavity/Pharynx	48	22.8	6 Corpus and Uterus	46	19.4
7 Non-Hodgkin Lymphoma	36	16.6	7 Stomach	36	16.3 *
8 Liver	32	13.9	8 Oral Cavity/Pharynx	30	12.7 *
9 Leukemia	31	12.8	9 Non-Hodgkin Lymphoma	27	12.3
10 Pancreas	25	13.1	10 Ovary	25	10.6

* Statistically **higher** than US White rate ($\alpha = .05$)

δ Statistically **lower** than US White rate ($\alpha = .05$)

Ω Rates are per 100,000 and age-adjusted to the 2000 US Standard Population



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Average Annual Age-Adjusted Cancer Incidence Rates per 100,000 Alaska Native and US White, 2009-2013

	Alaska Native Men and Women				US White Men and Women			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	
All Sites	504.5 *	481.8	528.3	2123	461.0	460.1	461.9	1.1
Oral Cavity and Pharynx	17.2 *	13.4	22.1	78	11.5	11.3	11.6	1.5
Nasopharynx	6.9 *	4.4	10.5	27	0.4	0.4	0.4	17.3
Digestive System	151.9 *	139.4	165.4	625	80.1	79.8	80.5	1.9
Esophagus	5.7	3.6	8.9	26	4.6	4.5	4.7	1.2
Stomach	21.2 *	16.7	26.7	89	6.6	6.5	6.7	3.2
Colon and Rectum	90.9 *	81.3	101.7	368	41.1	40.8	41.4	2.2
Colon excluding Rectum	65.9 *	57.6	75.3	259	29.2	28.9	29.4	2.3
Rectosigmoid Junction	6.0 *	3.9	9.2	27	3.1	3.0	3.2	1.9
Rectum	19.1 *	14.9	24.3	82	8.8	8.7	9.0	2.2
Liver	9.3 *	6.6	13.1	44	6.4	6.3	6.5	1.5
Gallbladder	2.9 *	1.4	5.7	11	1.1	1.1	1.2	2.6
Other Biliary	3.9 *	2.0	7.1	14	1.8	1.8	1.9	2.2
Pancreas	12.7	9.1	17.4	49	12.2	12.0	12.3	1.0
Respiratory System	91.2 *	81.1	102.3	339	64.2	63.8	64.5	1.4
Larynx	3.0	1.5	5.8	12	3.3	3.2	3.4	0.9
Lung and Bronchus	87.5 *	77.6	98.5	324	60.0	59.7	60.4	1.5
Bones and Joints	0.7	0.3	2.6	6	1.0	0.9	1.0	0.7
Soft Tissue including Heart	3.1	1.6	5.8	15	3.4	3.3	3.5	0.9
Melanoma of the Skin	5.4	3.4	8.6	24	25.1 *	24.9	25.4	0.2
Other Non-Epithelial Skin	0.3	0.0	2.2	2	2.0	2.0	2.1	0.2
Urinary System	36.5	30.6	43.6	152	38.8	38.6	39.1	0.9
Urinary Bladder	12.8	9.2	17.7	46	22.0 *	21.8	22.2	0.6
Kidney and Renal Pelvis	23.4 *	18.9	29.0	105	15.9	15.7	16.1	1.5
Eye and Orbit	0.1	0.0	1.9	1	0.9	0.8	0.9	0.1
Brain & Nervous System	4.8	3.1	7.7	26	7.0	6.9	7.1	0.7
Endocrine System	13.0	9.8	17.4	62	14.9	14.8	15.1	0.9
Thyroid	12.7	9.4	16.9	59	14.3	14.1	14.4	0.9
Lymphoma	15.2	11.5	20.1	68	23.2 *	22.9	23.4	0.7
Hodgkin Lymphoma	0.8	0.2	2.7	5	2.8	2.7	2.8	0.3
Non-Hodgkin Lymphoma	14.5	10.8	19.2	63	20.4 *	20.2	20.6	0.7
Myeloma	4.0	2.1	7.1	15	5.7	5.6	5.8	0.7
Leukemia	9.1	6.5	12.7	50	13.7 *	13.5	13.8	0.7
Lymphocytic Leukemia	2.2	1.2	4.4	15	6.9 *	6.8	7.1	0.3
Myeloid & Monocytic Leukemia	5.5	3.5	8.6	28	6.1	6.0	6.2	0.9
Acute Myeloid	3.2	1.8	5.9	17	4.0	3.9	4.1	0.8
Chronic Myeloid	2.1	0.9	4.5	10	1.7	1.6	1.8	1.2
Miscellaneous	19.4 *	14.9	25.0	74	8.7	8.6	8.9	2.2

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

*Rate is statistically different than comparison rate; confidence intervals are 95%.

Average Annual Age-Adjusted Cancer Incidence Rates per 100,000 Alaska Native and US White, 2009-2013

	Alaska Native Men				US White Men			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Rate Ratio
All Sites	497.7	463.2	534.8	957	518.1	516.6	519.5	1.0
Oral Cavity and Pharynx	22.8	16.2	32.3	48	17.1	16.9	17.4	1.3
Nasopharynx	9.8 *	5.4	17.4	18	0.6	0.5	0.6	16.3
Digestive System	172.6 *	152.7	195.2	336	97.8	97.1	98.4	1.8
Esophagus	7.5	4.2	14.0	17	8.0	7.8	8.2	0.9
Stomach	27.1 *	19.6	37.5	53	9.2	9.0	9.4	2.9
Colon and Rectum	98.6 *	83.4	116.5	186	47.3	46.9	47.7	2.1
Colon excluding Rectum	69.6 *	56.7	85.5	125	32.4	32.0	32.8	2.1
Rectosigmoid Junction	7.0	3.8	13.4	15	3.7	3.6	3.9	1.9
Rectum	22.0 *	15.5	31.4	46	11.2	11.0	11.4	2.0
Liver	13.9	9.0	21.7	32	10.3	10.1	10.5	1.3
Gallbladder	1.9	0.3	7.5	3	0.8	0.7	0.8	2.4
Other Biliary	3.0	1.0	8.4	6	2.3	2.2	2.4	1.3
Pancreas	13.1	8.1	21.1	25	14.0	13.7	14.2	0.9
Respiratory System	108.5 *	91.9	128.0	182	77.0	76.4	77.6	1.4
Larynx	5.9	2.5	12.7	10	5.7	5.6	5.9	1.0
Lung and Bronchus	101.3 *	85.3	120.3	169	70.1	69.6	70.7	1.4
Bones and Joints	1.2	0.4	5.9	5	1.1	1.1	1.2	1.1
Soft Tissue including Heart	2.7	0.8	8.3	5	4.2	4.0	4.3	0.6
Melanoma of the Skin	4.3	1.8	10.1	9	32.3 *	31.9	32.7	0.1
Other Non-Epithelial Skin	0.3	0.0	5.1	1	2.9	2.8	3.0	0.1
Breast	0.7	0.1	5.5	2	1.2	1.2	1.3	0.6
Male Genital System	70.5	58.0	85.7	137	139.9 *	139.2	140.6	0.5
Prostate	59.7	47.9	74.2	109	132.1 *	131.4	132.8	0.5
Testis	9.0	5.7	15.2	25	6.6	6.5	6.8	1.4
Urinary System	47.2	37.1	60.1	89	61.7 *	61.2	62.2	0.8
Urinary Bladder	20.5	13.4	30.7	32	38.7 *	38.3	39.1	0.5
Kidney and Renal Pelvis	26.7	19.8	36.3	57	21.6	21.3	21.9	1.2
Eye and Orbit	0.2	0.0	5.0	1	1.1	1.0	1.1	0.2
Brain & Nervous System	4.8	2.3	10.6	12	8.3	8.1	8.5	0.6
Endocrine System	5.8	3.0	11.8	14	7.9	7.7	8.1	0.7
Thyroid	5.4	2.6	11.4	12	7.2	7.0	7.3	0.8
Lymphoma	17.1	11.5	25.7	38	27.7 *	27.3	28.0	0.6
Hodgkin Lymphoma	0.5	0.1	5.2	2	3.1	3.0	3.2	0.2
Non-Hodgkin Lymphoma	16.6	11.0	25.2	36	24.6	24.3	24.9	0.7
Myeloma	5.7	2.5	12.5	10	7.3	7.2	7.5	0.8
Leukemia	12.8	8.0	20.6	31	17.4	17.2	17.7	0.7
Lymphocytic Leukemia	2.0	0.7	7.0	7	9.0 *	8.8	9.2	0.2
Myeloid & Monocytic Leukemia	8.4	4.5	15.5	19	7.7	7.5	7.9	1.1
Acute Myeloid	4.6	2.0	10.6	11	4.9	4.8	5.1	0.9
Chronic Myeloid	3.8	1.3	9.9	8	2.2	2.1	2.3	1.7
Miscellaneous	17.6 *	11.6	26.6	33	10.2	10.0	10.4	1.7

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

*Rate is statistically different than comparison rate; confidence intervals are 95%.

Average Annual Age-Adjusted Cancer Incidence Rates per 100,000 Alaska Native and US White, 2009-2013

	Alaska Native Women				US White Women			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Rate Ratio
All Sites	519.1 *	488.2	551.6	1166	421.0	419.8	422.2	1.2
Oral Cavity and Pharynx	12.7 *	8.4	18.8	30	6.4	6.3	6.6	2.0
Nasopharynx	4.5 *	2.0	9.1	9	0.2	0.2	0.3	22.5
Digestive System	134.9 *	119.1	152.5	289	65.4	64.9	65.9	2.1
Esophagus	4.0	1.8	8.4	9	1.7	1.6	1.8	2.4
Stomach	16.3 *	11.2	23.4	36	4.5	4.3	4.6	3.6
Colon and Rectum	85.5 *	73.0	99.9	182	35.9	35.6	36.3	2.4
Colon excluding Rectum	64.1 *	53.2	76.8	134	26.5	26.2	26.8	2.4
Rectosigmoid Junction	5.0	2.5	9.5	12	2.5	2.4	2.6	2.0
Rectum	16.5 *	11.3	23.5	36	6.9	6.8	7.1	2.4
Liver	5.3	2.7	10.0	12	3.0	2.9	3.1	1.8
Gallbladder	3.7 *	1.5	8.1	8	1.4	1.3	1.4	2.6
Other Biliary	4.4 *	1.8	9.3	8	1.5	1.4	1.5	2.9
Pancreas	11.9	7.4	18.6	24	10.7	10.5	10.9	1.1
Respiratory System	77.3 *	65.2	91.4	157	54.4	53.9	54.8	1.4
Larynx	0.6	0.1	3.7	2	1.2	1.2	1.3	0.5
Lung and Bronchus	76.7 *	64.6	90.7	155	52.5	52.1	52.9	1.5
Bones and Joints	0.3	0.0	3.2	1	0.8	0.8	0.9	0.4
Soft Tissue including Heart	3.5	1.5	7.5	10	2.8	2.7	2.9	1.3
Melanoma of the Skin	6.5	3.5	11.4	15	19.9 *	19.6	20.2	0.3
Other Non-Epithelial Skin	0.4	0.0	3.4	1	1.4	1.3	1.5	0.3
Breast	139.3	124.1	156.3	328	127.5	126.8	128.1	1.1
Female Genital System	49.0	40.0	59.7	115	50.5	50	50.9	1.0
Cervix Uteri	9.8	6.1	15.4	24	7.7	7.5	7.8	1.3
Corpus and Uterus, NOS	19.4	14.0	26.6	46	25.7	25.4	26	0.8
Ovary	10.6	6.7	16.5	25	12.7	12.5	12.9	0.8
Urinary System	27.7	21.0	36.3	63	20.8	20.5	21.1	1.3
Urinary Bladder	6.8	3.6	12.2	14	9.3	9.1	9.5	0.7
Kidney and Renal Pelvis	20.3 *	14.7	27.8	48	10.9	10.7	11.1	1.9
Eye and Orbit	0.0	0.0	2.9	0	0.8	0.7	0.8	0.0
Brain & Nervous System	5.0	2.7	9.4	14	5.9	5.7	6	0.8
Endocrine System	19.8	14.4	27.1	48	22.0	21.7	22.3	0.9
Thyroid	19.5	14.1	26.7	47	21.3	21.1	21.6	0.9
Lymphoma	13.3	8.8	19.9	30	19.4	19.1	19.7	0.7
Hodgkin Lymphoma	1.1	0.2	4.3	3	2.4	2.3	2.5	0.5
Non-Hodgkin Lymphoma	12.3	7.9	18.7	27	17.0	16.7	17.2	0.7
Myeloma	2.5	0.8	6.6	5	4.4	4.3	4.5	0.6
Leukemia	6.1	3.6	10.5	19	10.7	10.5	10.9	0.6
Lymphocytic Leukemia	2.3	1.0	5.8	8	5.2	5.1	5.4	0.4
Myeloid & Monocytic Leukemia	3.2	1.4	7.0	9	4.9	4.8	5.1	0.7
Acute Myeloid	2.2	0.8	5.8	6	3.3	3.2	3.5	0.7
Chronic Myeloid	0.7	0.1	3.8	2	1.3	1.2	1.3	0.5
Miscellaneous	20.6 *	14.5	28.7	41	7.5	7.4	7.7	2.7

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

*Rate is statistically different than comparison rate; confidence intervals are 95%.

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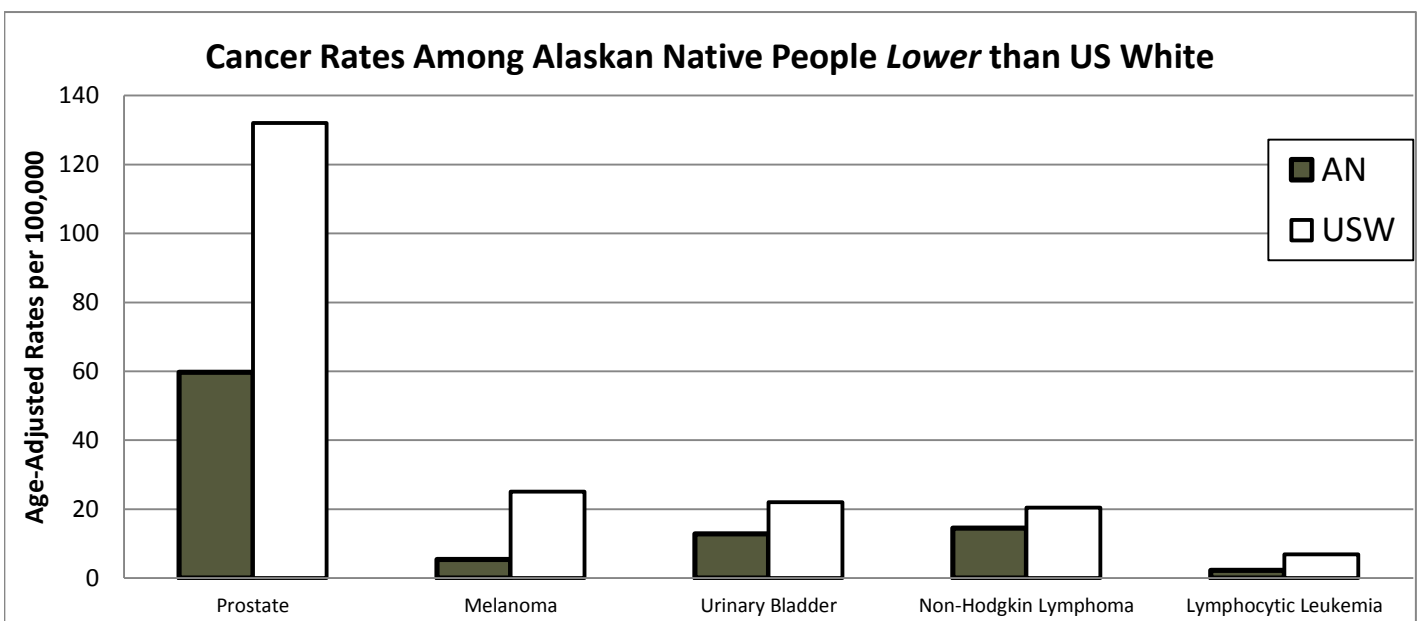
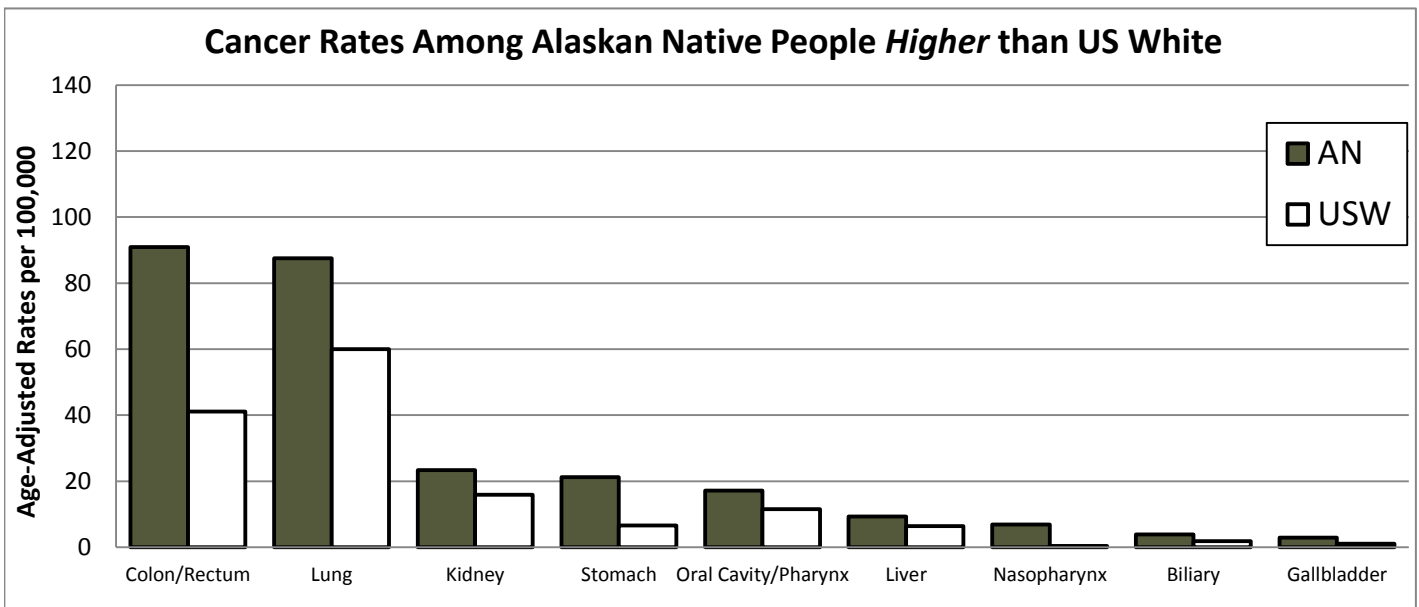
Cancer Incidence Rates among Alaska Native People Statistically Higher/Lower than US White Rates, Men and Women Combined, 2009-2013

Higher than US White Rate

	Alaska Native Rate	USW
All Sites	504.5 *	461.0
Colon/Rectum	90.9 *	41.1
Lung	87.5 *	60.0
Kidney	23.4 *	15.9
Stomach	21.2 *	6.6
Oral Cavity/Pharynx	17.2 *	11.5
Liver	9.3 *	6.4
Nasopharynx	6.9 *	0.4
Biliary	3.9 *	1.8
Gallbladder	2.9 *	1.1

Lower Than US White Rate

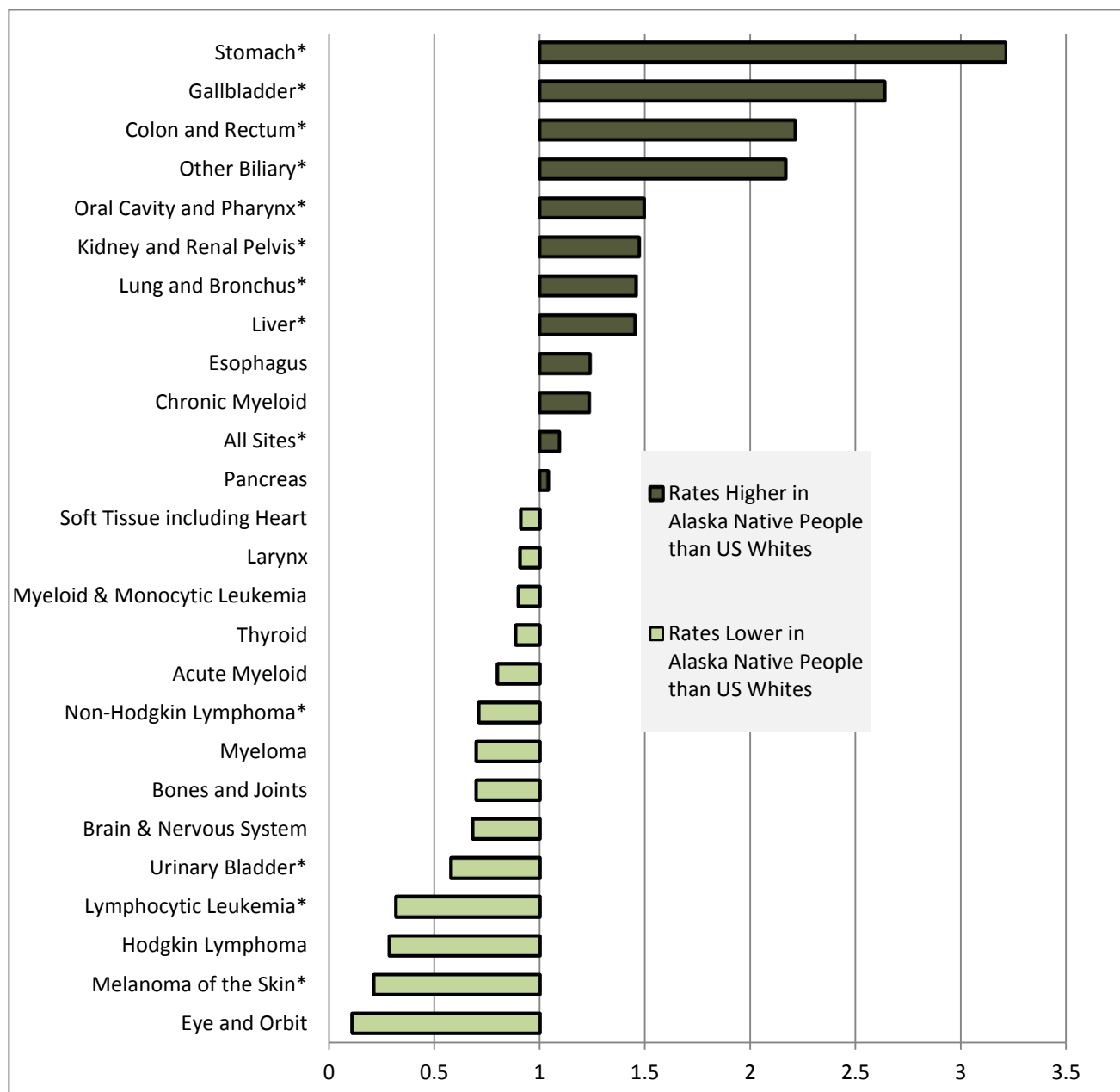
	Alaska Native Rate	USW
Prostate	59.7	132.1 *
Melanoma	5.4	25.1 *
Urinary Bladder	12.8	22.0 *
Non-Hodgkin Lymphoma	14.5	20.4 *
Lymphocytic Leukemia	2.2	6.9 *



Age-Adjusted Rate Ratios

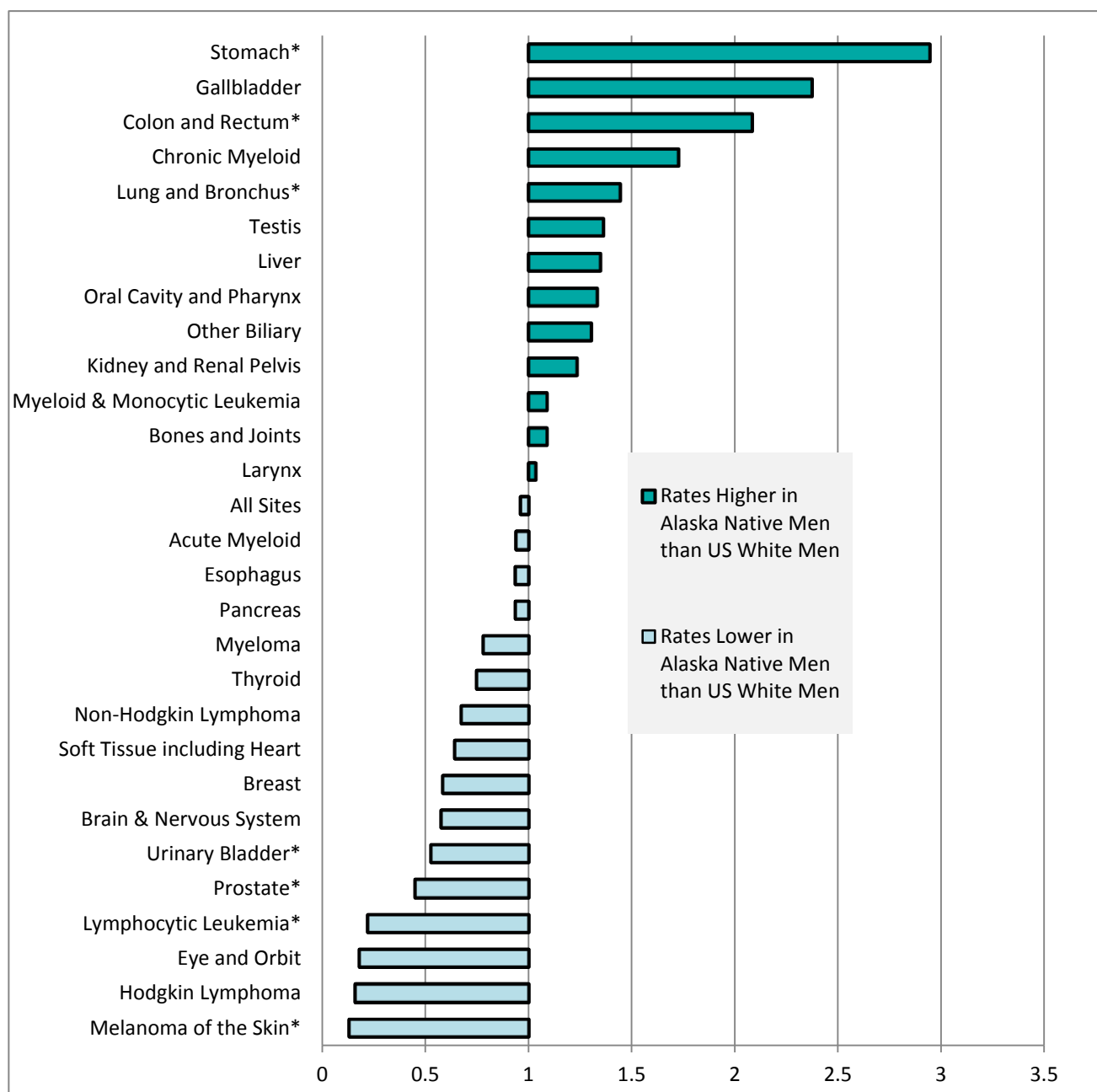
Alaska Native Men and Women : US White Men and Women

2009-2013



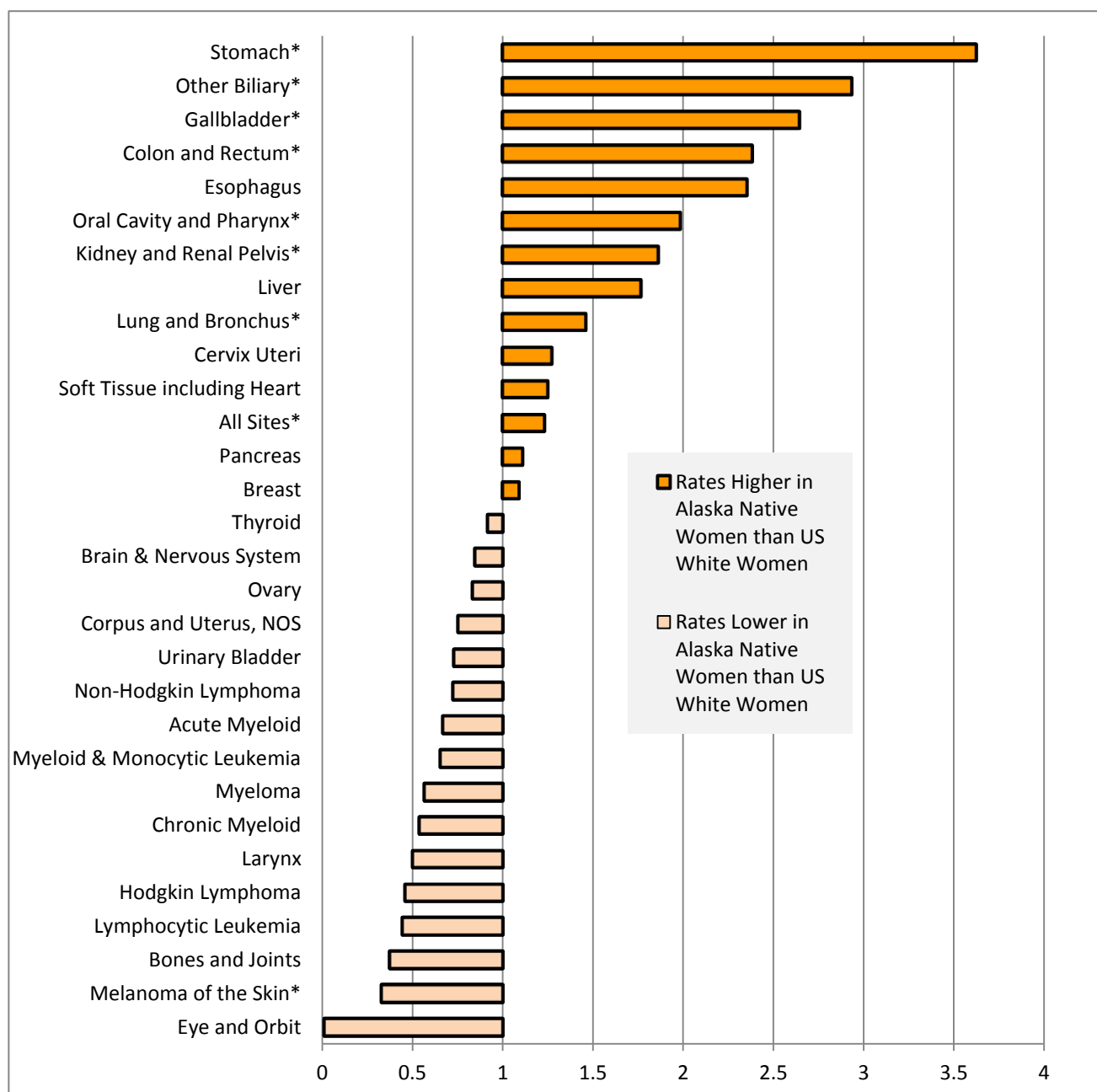
* Rates among Alaska Native people are statistically different from US White rates; $p < 0.05$.
 Rate ratio for nasopharynx = 17.25* not shown, but included in oral cavity/pharynx group.

Age-Adjusted Rate Ratios **Alaska Native Men : US White Men** **2009-2013**



* Rates among Alaska Native people are statistically different from US White rates; $p < 0.05$.
Rate ratio for nasopharynx = 16.33* not shown, but included in oral cavity/pharynx group.

Age-Adjusted Rate Ratios Alaska Native Women : US White Women 2009-2013



* Rates among Alaska Native people are statistically different from US White rates; $p < 0.05$.
Rate ratio for nasopharynx = 22.5* not shown, but included in oral cavity/pharynx group.

Annual Number of Invasive Cancers Alaska Native Men and Women, 1999-2013

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
All Sites	319	291	324	324	336	400	384	358	363	361	425	430	418	440	410
Oral Cavity and Pharynx	17	9	11	6	15	8	13	14	10	8	14	14	12	21	17
Nasopharynx	7	2	3	4	8	3	3	8	0	4	11	2	3	6	5
Digestive System	119	91	110	102	101	131	108	108	111	101	118	132	117	124	134
Esophagus	3	4	7	7	3	8	5	12	3	3	4	7	2	3	10
Stomach	17	14	9	22	9	16	16	14	22	14	13	19	18	16	23
Colon and Rectum	78	48	66	50	60	72	67	60	58	54	75	73	67	74	79
Colon excluding Rectum	57	31	43	32	49	59	47	46	39	35	52	53	45	54	55
Rectosigmoid Junction	6	3	4	4	2	3	8	3	6	5	3	6	8	7	3
Rectum	15	14	19	14	9	10	12	11	13	14	20	14	14	13	21
Liver	4	2	8	6	4	11	3	5	4	10	7	9	11	8	9
Gallbladder	5	2	3	2	4	2	1	4	1	1	3	3	1	3	1
Other Biliary	1	3	2	2	4	4	3	1	2	1	2	5	1	4	2
Pancreas	7	16	7	8	11	10	9	7	15	13	10	12	15	8	4
Respiratory System	46	52	57	60	58	74	70	62	60	69	78	68	73	65	55
Larynx	4	1	1	4	2	2	1	2	4	4	4	1	2	4	1
Lung and Bronchus	40	49	55	56	56	71	68	60	56	64	74	67	70	61	52
Bones and Joints	0	1	1	3	0	1	3	1	1	0	0	2	1	2	1
Soft Tissue including Heart	2	2	1	3	1	1	4	2	3	4	3	3	3	2	4
Melanoma of the Skin	1	0	2	0	1	2	2	0	2	1	5	2	4	7	6
Other Non-Epithelial Skin	0	0	1	1	1	1	2	1	0	2	0	2	0	0	0
Urinary System	25	16	16	18	23	26	24	19	26	23	33	27	35	24	33
Urinary Bladder	10	6	8	4	5	12	8	5	8	8	8	8	11	12	7
Kidney and Renal Pelvis	15	10	8	13	17	14	16	14	18	15	25	19	24	12	25
Eye and Orbit	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0
Brain & Nervous System	4	0	1	4	1	6	7	3	8	2	8	8	4	3	3
Endocrine System	10	8	6	8	6	6	10	9	5	6	13	12	13	15	9
Thyroid	10	8	5	8	6	6	9	9	4	4	12	12	13	13	9
Lymphoma	11	9	11	8	9	9	12	15	12	6	8	20	16	16	8
Hodgkin Lymphoma	0	1	1	0	1	0	0	1	2	0	0	2	0	3	0
Non-Hodgkin Lymphoma	11	8	10	8	8	9	12	14	10	6	8	18	16	13	8
Myeloma	1	6	1	4	3	7	5	3	3	3	2	2	3	4	4
Leukemia	9	3	5	8	2	11	12	10	5	11	5	8	7	16	14
Lymphocytic Leukemia	4	1	2	4	1	3	4	2	2	2	1	2	3	3	6
Myeloid & Monocytic Leukemia	5	1	2	4	1	8	7	7	1	9	3	5	3	11	6
Acute Myeloid	2	1	2	3	1	3	2	4	1	5	2	4	2	5	4
Chronic Myeloid	3	0	0	1	0	5	4	2	0	3	1	1	1	6	1
Miscellaneous	6	9	7	11	10	9	8	11	16	14	13	16	14	21	10

Annual Number of Invasive Cancers Alaska Native Men, 1999-2013

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
All Sites	153	127	149	154	162	173	182	153	161	173	186	198	194	191	188
Oral Cavity and Pharynx	14	7	2	5	11	2	11	6	8	5	8	11	7	14	8
Nasopharynx	6	1	1	3	6	1	2	4	0	2	7	2	2	5	2
Digestive System	60	42	54	50	55	66	62	51	54	58	59	68	72	60	77
Esophagus	3	3	6	6	1	2	3	7	0	3	2	4	0	3	8
Stomach	7	8	6	12	5	14	11	6	14	8	6	9	11	8	19
Colon and Rectum	38	22	29	17	33	27	36	28	26	29	39	38	41	32	36
Colon excluding Rectum	27	13	14	10	24	23	22	19	15	16	26	23	29	23	24
Rectosigmoid Junction	3	2	3	4	2	1	4	3	4	5	1	5	4	3	2
Rectum	8	7	12	3	7	3	10	6	7	8	12	10	8	6	10
Liver	1	2	5	5	2	7	1	4	3	7	3	6	9	8	6
Gallbladder	1	0	2	1	1	0	1	3	1	0	1	1	0	0	1
Other Biliary	1	1	0	2	3	3	1	1	0	1	0	1	1	3	1
Pancreas	6	5	4	6	6	7	6	0	8	8	7	6	8	2	2
Respiratory System	26	31	34	31	35	41	34	33	39	44	41	37	36	35	33
Larynx	2	1	0	3	2	2	0	1	4	3	3	1	1	4	1
Lung and Bronchus	24	29	33	28	33	38	34	32	35	40	38	36	34	31	30
Bones and Joints	0	1	0	3	0	0	2	1	1	0	0	1	1	2	1
Soft Tissue including Heart	0	2	1	0	1	0	3	1	1	1	0	3	0	0	2
Melanoma of the Skin	0	0	0	0	1	1	1	0	0	1	3	2	1	1	2
Other Non-Epithelial Skin	0	0	1	0	1	1	1	1	0	0	0	1	0	0	0
Breast	0	0	1	0	1	0	0	0	1	0	0	0	0	1	1
Male Genital System	20	17	28	32	30	24	25	23	23	30	31	32	26	26	22
Prostate	19	15	24	26	25	22	21	17	22	27	26	25	21	21	16
Testis	1	2	4	5	5	1	4	4	1	2	4	6	5	5	5
Urinary System	14	13	13	13	16	17	17	12	16	15	21	18	21	13	16
Urinary Bladder	7	5	7	2	5	10	7	3	7	5	6	8	8	7	3
Kidney and Renal Pelvis	7	8	6	11	10	7	10	9	9	10	15	10	13	6	13
Eye and Orbit	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0
Brain & Nervous System	2	0	0	4	0	1	3	1	2	1	3	3	2	2	2
Endocrine System	3	0	1	0	1	3	4	4	2	1	3	1	5	4	1
Thyroid	3	0	0	0	1	3	3	4	2	0	3	1	5	2	1
Lymphoma	6	6	8	5	4	4	7	6	6	2	4	13	6	11	4
Hodgkin Lymphoma	0	0	1	0	1	0	0	1	2	0	0	1	0	1	0
Non-Hodgkin Lymphoma	6	6	7	5	3	4	7	5	4	2	4	12	6	10	4
Myeloma	0	2	0	1	0	3	2	2	1	1	2	2	2	2	2
Leukemia	5	0	3	6	1	6	7	7	2	4	4	2	6	9	10
Lymphocytic Leukemia	0	0	1	3	1	2	2	2	2	1	0	0	3	1	3
Myeloid & Monocytic Leukemia	5	0	1	3	0	4	5	4	0	3	3	1	3	7	5
Acute Myeloid	2	0	1	3	0	2	1	1	0	3	2	1	2	2	4
Chronic Myeloid	3	0	0	0	0	2	3	2	0	0	1	0	1	5	1
Miscellaneous	3	5	3	4	5	2	3	5	4	9	6	3	7	11	6

Annual Number of Invasive Cancers Alaska Native Women, 1999-2013

1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013

All Sites	166	164	175	170	174	227	202	205	202	188	239	232	224	249	222
Oral Cavity and Pharynx	3	2	9	1	4	6	2	8	2	3	6	3	5	7	9
Nasopharynx	1	1	2	1	2	2	1	4	0	2	4	0	1	1	3
Digestive System	59	49	56	52	46	65	46	57	57	43	59	64	45	64	57
Esophagus	0	1	1	1	2	6	2	5	3	0	2	3	2	0	2
Stomach	10	6	3	10	4	2	5	8	8	6	7	10	7	8	4
Colon and Rectum	40	26	37	33	27	45	31	32	32	25	36	35	26	42	43
Colon excluding Rectum	30	18	29	22	25	36	25	27	24	19	26	30	16	31	31
Rectosigmoid Junction	3	1	1	0	0	2	4	0	2	0	2	1	4	4	1
Rectum	7	7	7	11	2	7	2	5	6	6	8	4	6	7	11
Liver	3	0	3	1	2	4	2	1	1	3	4	3	2	0	3
Gallbladder	4	2	1	1	3	2	0	1	0	1	2	2	1	3	0
Other Biliary	0	2	2	0	1	1	2	0	2	0	2	4	0	1	1
Pancreas	1	11	3	2	5	3	3	7	7	5	3	6	7	6	2
Respiratory System	20	21	23	29	23	33	36	29	21	25	37	31	37	30	22
Larynx	2	0	1	1	0	0	1	1	0	1	1	0	1	0	0
Lung and Bronchus	16	20	22	28	23	33	34	28	21	24	36	31	36	30	22
Bones and Joints	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0
Soft Tissue including Heart	2	0	0	3	0	1	1	1	2	3	3	0	3	2	2
Melanoma of the Skin	1	0	2	0	0	1	1	0	2	0	2	0	3	6	4
Other Non-Epithelial Skin	0	0	0	1	0	0	1	0	0	2	0	1	0	0	0
Breast	32	59	49	47	63	67	59	49	54	56	64	58	71	72	63
Female Genital System	16	8	16	9	11	15	20	28	21	24	29	23	17	21	25
Cervix Uteri	7	2	4	1	5	3	5	8	4	8	10	4	4	1	5
Corpus and Uterus, NOS	6	3	8	3	4	7	5	11	6	9	8	11	7	9	11
Ovary	2	3	3	3	1	3	8	7	9	4	8	5	3	6	3
Urinary System	11	3	3	5	7	9	7	7	10	8	12	9	14	11	17
Urinary Bladder	3	1	1	2	0	2	1	2	1	3	2	0	3	5	4
Kidney and Renal Pelvis	8	2	2	2	7	7	6	5	9	5	10	9	11	6	12
Eye and Orbit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brain & Nervous System	2	0	1	0	1	5	4	2	6	1	5	5	2	1	1
Endocrine System	7	8	5	8	5	3	6	5	3	5	10	11	8	11	8
Thyroid	7	8	5	8	5	3	6	5	2	4	9	11	8	11	8
Lymphoma	5	3	3	3	5	5	5	9	6	4	4	7	10	5	4
Hodgkin Lymphoma	0	1	0	0	0	0	0	0	0	0	0	1	0	2	0
Non-Hodgkin Lymphoma	5	2	3	3	5	5	5	9	6	4	4	6	10	3	4
Myeloma	1	4	1	3	3	4	3	1	2	2	0	0	1	2	2
Leukemia	4	3	2	2	1	5	5	3	3	7	1	6	1	7	4
Lymphocytic Leukemia	4	1	1	1	0	1	2	0	0	1	1	2	0	2	3
Myeloid & Monocytic Leukemia	0	1	1	1	1	4	2	3	1	6	0	4	0	4	1
Acute Myeloid	0	1	1	0	1	1	1	3	1	2	0	3	0	3	0
Chronic Myeloid	0	0	0	1	0	3	1	0	0	3	0	1	0	1	0
Miscellaneous	3	4	4	7	5	7	5	6	12	5	7	13	7	10	4

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Average Annual Age-Adjusted Cancer Incidence Rates per 100,000 Alaska Native and US White, 1999-2013

	Alaska Native Men and Women				US White Men and Women			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	
All Sites	509.3 *	495.1	523.9	5583	474.5	473.8	475.1	1.1
Oral Cavity and Pharynx	15.9 *	13.6	18.6	189	10.7	10.6	10.8	1.5
Nasopharynx	6.1 *	4.7	8.0	69	0.4	0.4	0.4	15.3
Digestive System	163.5 *	155.3	172.1	1707	84.2	83.9	84.5	1.9
Esophagus	7.8 *	6.1	9.9	81	4.6	4.5	4.7	1.7
Stomach	22.6 *	19.7	26.0	242	7.1	7.0	7.2	3.2
Colon and Rectum	94.5 *	88.2	101.1	981	46.4	46.2	46.6	2.0
Colon excluding Rectum	69.3 *	63.9	75.1	697	33.5	33.3	33.7	2.1
Rectosigmoid Junction	6.1 *	4.7	7.9	71	3.5	3.4	3.5	1.7
Rectum	19.0 *	16.4	22.1	213	9.4	9.3	9.5	2.0
Liver	8.8 *	7.0	11.0	101	5.4	5.3	5.5	1.6
Gallbladder	3.9 *	2.7	5.7	36	1.2	1.1	1.2	3.3
Other Biliary	4.0 *	2.7	5.7	37	1.7	1.7	1.8	2.4
Pancreas	14.9 *	12.5	17.8	152	11.7	11.6	11.8	1.3
Respiratory System	96.8 *	90.4	103.7	947	62.7	62.5	63.0	1.5
Larynx	3.2	2.2	4.6	37	3.3	3.2	3.3	1.0
Lung and Bronchus	92.5 *	86.2	99.2	899	58.6	58.3	58.8	1.6
Bones and Joints	1.1	0.6	2.1	17	1.0	0.9	1.0	1.1
Soft Tissue including Heart	2.8	1.9	4.2	38	3.2	3.2	3.3	0.9
Melanoma of the Skin	2.8	1.9	4.1	35	24.2 *	24.0	24.3	0.1
Other Non-Epithelial Skin	1.0	0.5	2.1	11	2.2	2.1	2.2	0.5
Urinary System	34.7	31.0	38.8	368	37.5	37.3	37.7	0.9
Urinary Bladder	12.5	10.3	15.3	120	22.6 *	22.5	22.8	0.6
Kidney and Renal Pelvis	21.9 *	19.0	25.1	245	14.0	13.9	14.1	1.6
Eye and Orbit	0.4	0.1	1.4	4	0.9	0.9	1.0	0.4
Brain & Nervous System	4.2	3.2	5.6	62	7.2 *	7.1	7.2	0.6
Endocrine System	10.0	8.3	12.1	136	12.0	11.9	12.1	0.8
Thyroid	9.5	7.8	11.6	128	11.3	11.2	11.4	0.8
Lymphoma	14.4	12.1	17.1	170	24.1 *	24.0	24.3	0.6
Hodgkin Lymphoma	0.6	0.3	1.4	11	2.9 *	2.9	3.0	0.2
Non-Hodgkin Lymphoma	13.8	11.6	16.5	159	21.2 *	21.1	21.4	0.7
Myeloma	4.5	3.3	6.1	51	5.6	5.6	5.7	0.8
Leukemia	8.8	7.2	10.8	126	14.2 *	14.0	14.3	0.6
Lymphocytic Leukemia	2.3	1.6	3.5	40	7.5 *	7.4	7.6	0.3
Myeloid & Monocytic Leukemia	5.6	4.3	7.4	73	6.0	5.9	6.1	0.9
Acute Myeloid	3.1	2.1	4.5	41	3.8	3.8	3.9	0.8
Chronic Myeloid	2.2	1.4	3.5	28	1.7	1.7	1.8	1.3
Miscellaneous	18.4 *	15.6	21.7	175	9.0	8.9	9.1	2.0

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

*Rate is statistically different than comparison rate; confidence intervals are 95%.

Average Annual Age-Adjusted Cancer Incidence Rates per 100,000 Alaska Native and US White, 1999-2013

	Alaska Native Men				US White Men			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	
All Sites	518.3	496.0	541.7	2544	545.2 *	544.1	546.3	1.0
Oral Cavity and Pharynx	21.1 *	17.1	26.2	119	15.8	15.6	16.0	1.3
Nasopharynx	8.2 *	5.7	11.8	44	0.5	0.5	0.6	16.4
Digestive System	183.2 *	170.0	197.5	888	102.5	102.0	102.9	1.8
Esophagus	10.2	7.4	14.2	51	7.9	7.8	8.1	1.3
Stomach	30.0 *	24.7	36.4	144	10.0	9.8	10.1	3.0
Colon and Rectum	97.8 *	88.2	108.5	471	53.7	53.4	54.1	1.8
Colon excluding Rectum	67.5 *	59.4	76.8	308	37.5	37.2	37.8	1.8
Rectosigmoid Junction	8.4 *	6.0	11.9	46	4.2	4.1	4.3	2.0
Rectum	21.9 *	17.6	27.3	117	12.0	11.9	12.2	1.8
Liver	12.9 *	9.6	17.4	69	8.6	8.4	8.7	1.5
Gallbladder	3.5 *	1.7	6.7	13	0.8	0.7	0.8	4.4
Other Biliary	4.1 *	2.3	7.2	19	2.1	2.0	2.2	2.0
Pancreas	17.0	13.2	22.0	81	13.4	13.2	13.5	1.3
Respiratory System	119.5 *	108.6	131.5	530	76.7	76.3	77.2	1.6
Larynx	5.5	3.4	8.8	28	5.8	5.7	5.9	0.9
Lung and Bronchus	112.3 *	101.7	124.0	495	69.8	69.4	70.2	1.6
Bones and Joints	1.6	0.7	4.0	13	1.1	1.1	1.2	1.5
Soft Tissue including Heart	2.2	1.1	4.7	15	4.0	3.9	4.1	0.6
Melanoma of the Skin	2.1	1.1	4.6	13	30.5 *	30.2	30.8	0.1
Other Non-Epithelial Skin	1.2	0.4	3.5	6	3.0	2.9	3.1	0.4
Breast	0.8	0.3	3.0	5	1.2	1.1	1.2	0.7
Male Genital System	77.8	69.4	87.3	389	165.4 *	164.8	166.1	0.5
Prostate	69.1	61.1	78.3	327	157.6 *	157.0	158.2	0.4
Testis	6.6	4.9	9.4	54	6.7	6.6	6.8	1.0
Urinary System	48.9	42.2	56.7	235	60.6 *	60.2	61.0	0.8
Urinary Bladder	21.1	16.5	26.9	90	40.0 *	39.7	40.3	0.5
Kidney and Renal Pelvis	27.6 *	22.9	33.4	144	19.2	19.0	19.4	1.4
Eye and Orbit	1.0	0.2	3.5	4	1.1	1.0	1.1	0.9
Brain & Nervous System	4.0	2.5	6.8	26	8.5 *	8.3	8.6	0.5
Endocrine System	5.2	3.3	8.3	33	6.6	6.5	6.7	0.8
Thyroid	4.8	3.0	7.9	28	5.8	5.7	5.9	0.8
Lymphoma	15.9	12.4	20.6	92	29.0 *	28.7	29.3	0.5
Hodgkin Lymphoma	0.7	0.3	2.8	7	3.3 *	3.2	3.3	0.2
Non-Hodgkin Lymphoma	15.1	11.7	19.8	85	25.7 *	25.5	26.0	0.6
Myeloma	4.2	2.5	7.3	22	7.2	7.1	7.3	0.6
Leukemia	11.4	8.5	15.5	72	18.4 *	18.2	18.6	0.6
Lymphocytic Leukemia	2.4	1.3	4.8	21	10.0 *	9.8	10.1	0.2
Myeloid & Monocytic Leukemia	7.9	5.4	11.7	44	7.6	7.5	7.7	1.0
Acute Myeloid	4.2	2.5	7.4	24	4.7	4.6	4.9	0.9
Chronic Myeloid	3.3	1.8	6.2	18	2.3	2.2	2.3	1.4
Miscellaneous	16.7 *	12.8	21.9	76	10.2	10.1	10.4	1.6

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

*Rate is statistically different than comparison rate; confidence intervals are 95%.

Average Annual Age-Adjusted Cancer Incidence Rates per 100,000

Alaska Native and US White, 1999-2013

	Alaska Native Women				US White Women			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Rate Ratio
All Sites	511.5 *	492.7	531.0	3039	425.9	425.1	426.8	1.2
Oral Cavity and Pharynx	11.4 *	8.8	14.7	70	6.2	6.1	6.4	1.8
Nasopharynx	4.4 *	2.7	6.7	25	0.2	0.2	0.3	22.0
Digestive System	147.9 *	137.5	159.0	819	69.4	69	69.7	2.1
Esophagus	5.5 *	3.7	8.2	30	1.9	1.8	2	2.9
Stomach	17.0 *	13.7	21.0	98	4.8	4.8	4.9	3.5
Colon and Rectum	92.4 *	84.2	101.3	510	40.4	40.2	40.7	2.3
Colon excluding Rectum	71.7 *	64.5	79.7	389	30.3	30.1	30.6	2.4
Rectosigmoid Junction	4.1	2.6	6.3	25	2.8	2.8	2.9	1.5
Rectum	16.6 *	13.3	20.6	96	7.3	7.2	7.4	2.3
Liver	5.4 *	3.6	7.9	32	2.7	2.6	2.7	2.0
Gallbladder	4.5 *	2.8	7.0	23	1.5	1.4	1.5	3.0
Other Biliary	3.8 *	2.2	6.2	18	1.4	1.4	1.5	2.7
Pancreas	13.0	10.0	16.7	71	10.3	10.1	10.4	1.3
Respiratory System	78.9 *	71.2	87.3	417	52.3	52	52.6	1.5
Larynx	1.3	0.6	2.8	9	1.2	1.1	1.2	1.1
Lung and Bronchus	76.9 *	69.3	85.1	404	50.5	50.2	50.8	1.5
Bones and Joints	0.6	0.2	1.9	4	0.8	0.8	0.9	0.8
Soft Tissue including Heart	3.3	2.0	5.3	23	2.7	2.6	2.8	1.2
Melanoma of the Skin	3.3	2.1	5.3	22	19.7 *	19.5	19.9	0.2
Other Non-Epithelial Skin	0.9	0.3	2.4	5	1.6	1.5	1.6	0.6
Breast	134.3	125.2	144.0	863	133.0	132.5	133.5	1.0
Female Genital System	44.4	39.2	50.3	283	52.1 *	51.7	52.4	0.9
Cervix Uteri	10.1	7.8	13.0	71	7.9	7.8	8	1.3
Corpus and Uterus, NOS	17.0	13.8	20.8	108	26.0 *	25.8	26.3	0.7
Ovary	11.3	8.7	14.7	68	14.0	13.9	14.2	0.8
Urinary System	23.0	19.1	27.6	133	19.9	19.7	20.1	1.2
Urinary Bladder	5.8	3.8	8.6	30	9.7 *	9.5	9.8	0.6
Kidney and Renal Pelvis	16.8 *	13.5	20.7	101	9.7	9.5	9.8	1.7
Eye and Orbit	0.0	0.0	1.1	0	0.8	0.8	0.8	0.0
Brain & Nervous System	4.5	3.1	6.5	36	6.0	5.9	6.1	0.8
Endocrine System	14.6	11.8	18.1	103	17.4	17.2	17.6	0.8
Thyroid	14.2	11.5	17.6	100	16.8	16.6	17	0.8
Lymphoma	13.0	10.1	16.5	78	20.1 *	20	20.3	0.6
Hodgkin Lymphoma	0.5	0.1	1.7	4	2.6 *	2.5	2.7	0.2
Non-Hodgkin Lymphoma	12.5	9.7	16.0	74	17.6 *	17.4	17.7	0.7
Myeloma	4.8	3.1	7.1	29	4.4	4.3	4.5	1.1
Leukemia	6.9	5.1	9.3	54	10.9 *	10.7	11	0.6
Lymphocytic Leukemia	2.2	1.3	3.9	19	5.5 *	5.4	5.6	0.4
Myeloid & Monocytic Leukemia	3.9	2.6	6.0	29	4.8	4.7	4.9	0.8
Acute Myeloid	2.3	1.3	4.0	17	3.2	3.1	3.3	0.7
Chronic Myeloid	1.4	0.7	2.9	10	1.3	1.2	1.3	1.1
Miscellaneous	19.4 *	15.6	24.0	99	8.1	8	8.2	2.4

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

*Rate is statistically different than comparison rate; confidence intervals are 95%.

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Age-Specific Number of Invasive Cancers Alaska Native Men and Women, 1999-2013

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	Total
All Sites	78	55	132	265	690	1249	1403	1192	519	5583
Oral Cavity and Pharynx	0	1	3	11	18	60	61	23	12	189
Nasopharynx	0	1	0	5	7	17	23	8	8	69
Digestive System	4	0	12	52	207	387	441	416	188	1707
Esophagus	0	0	0	1	7	22	21	21	9	81
Stomach	0	0	3	20	38	48	57	53	23	242
Colon and Rectum	0	0	7	26	116	214	259	254	105	981
Colon excluding Rectum	0	0	3	16	70	132	188	207	81	697
Rectosigmoid Junction	0	0	0	1	14	17	20	15	4	71
Rectum	0	0	4	9	32	65	51	32	20	213
Liver	4	0	2	2	17	31	22	12	11	101
Gallbladder	0	0	0	0	1	7	11	8	9	36
Other Biliary	0	0	0	0	1	7	10	12	7	37
Pancreas	0	0	0	2	17	40	34	43	16	152
Respiratory System	0	0	0	5	55	175	281	317	114	947
Larynx	0	0	0	0	4	11	14	5	3	37
Lung and Bronchus	0	0	0	4	49	162	266	311	107	899
Bones and Joints	4	3	3	0	3	0	1	2	1	17
Soft Tissue including Heart	5	5	5	3	4	6	3	3	4	38
Melanoma of the Skin	0	0	3	9	3	6	7	7	0	35
Other Non-Epithelial Skin	0	0	1	3	1	1	1	3	1	11
Urinary System	7	0	4	13	35	84	94	92	39	368
Urinary Bladder	0	0	1	2	9	20	30	37	21	120
Kidney and Renal Pelvis	7	0	3	11	26	64	63	53	18	245
Eye and Orbit	1	0	0	0	0	0	1	0	2	4
Brain & Nervous System	9	5	7	10	13	4	8	6	0	62
Endocrine System	3	9	20	21	32	22	13	9	7	136
Thyroid	1	8	18	20	32	21	12	9	7	128
Lymphoma	6	11	6	16	21	42	30	24	14	170
Hodgkin Lymphoma	1	3	2	1	1	3	0	0	0	11
Non-Hodgkin Lymphoma	5	8	4	15	20	39	30	24	14	159
Myeloma	0	0	1	1	7	10	21	8	3	51
Leukemia	29	13	8	9	10	22	16	13	6	126
Lymphocytic Leukemia	19	4	3	2	0	5	4	1	2	40
Myeloid & Monocytic Leukemia	7	8	3	6	8	15	12	10	4	73
Acute Myeloid	5	7	1	2	5	6	7	5	3	41
Chronic Myeloid	1	1	2	4	3	8	4	4	1	28
Miscellaneous	9	2	4	2	15	26	34	44	39	175

Age-Specific Number of Invasive Cancers Alaska Native Men, 1999-2013

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	Total
All Sites	46	24	49	99	243	543	690	602	248	2544
Oral Cavity and Pharynx	0	0	1	8	13	37	42	11	7	119
Nasopharynx	0	0	0	4	6	10	16	4	4	44
Digestive System	3	0	7	25	101	215	243	206	88	888
Esophagus	0	0	0	0	4	14	16	12	5	51
Stomach	0	0	2	7	23	34	31	33	14	144
Colon and Rectum	0	0	4	16	45	107	139	113	47	471
Colon excluding Rectum	0	0	2	10	22	59	91	88	36	308
Rectosigmoid Junction	0	0	0	0	10	9	15	10	2	46
Rectum	0	0	2	6	13	39	33	15	9	117
Liver	3	0	1	1	13	23	13	9	6	69
Gallbladder	0	0	0	0	1	2	3	3	4	13
Other Biliary	0	0	0	0	1	4	7	4	3	19
Pancreas	0	0	0	1	9	20	22	24	5	81
Respiratory System	0	0	0	3	31	104	149	178	65	530
Larynx	0	0	0	0	4	8	8	5	3	28
Lung and Bronchus	0	0	0	3	25	95	140	173	59	495
Bones and Joints	4	3	2	0	2	0	0	1	1	13
Soft Tissue including Heart	0	3	2	3	3	1	1	1	1	15
Melanoma of the Skin	0	0	0	4	2	3	2	2	0	13
Other Non-Epithelial Skin	0	0	1	1	1	1	0	1	1	6
Breast	0	0	0	0	2	0	2	1	0	5
Male Genital System	1	0	22	21	24	80	123	81	37	389
Prostate	0	0	0	2	14	77	121	78	35	327
Testis	1	0	22	19	9	2	1	0	0	54
Urinary System	3	0	0	8	23	47	70	62	22	235
Urinary Bladder	0	0	0	1	7	14	26	28	14	90
Kidney and Renal Pelvis	3	0	0	7	16	33	43	34	8	144
Eye and Orbit	1	0	0	0	0	0	1	0	2	4
Brain & Nervous System	4	1	3	4	5	1	3	5	0	26
Endocrine System	3	4	3	3	5	5	5	4	1	33
Thyroid	1	3	1	3	5	5	5	4	1	28
Lymphoma	5	7	2	10	12	22	16	13	5	92
Hodgkin Lymphoma	1	2	1	0	1	2	0	0	0	7
Non-Hodgkin Lymphoma	4	5	1	10	11	20	16	13	5	85
Myeloma	0	0	0	1	5	3	8	4	1	22
Leukemia	17	6	5	5	6	11	8	9	5	72
Lymphocytic Leukemia	11	2	2	0	0	2	2	1	1	21
Myeloid & Monocytic Leukemia	5	3	2	4	5	9	6	6	4	44
Acute Myeloid	4	2	0	2	3	4	4	2	3	24
Chronic Myeloid	0	1	2	2	2	5	2	3	1	18
Miscellaneous	5	0	1	2	7	11	17	23	10	76

Age-Specific Number of Invasive Cancers Alaska Native Women, 1999-2013

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	Total
All Sites	32	31	83	166	447	706	713	590	271	3039
Oral Cavity and Pharynx	0	1	2	3	5	23	19	12	5	70
Nasopharynx	0	1	0	1	1	7	7	4	4	25
Digestive System	1	0	5	27	106	172	198	210	100	819
Esophagus	0	0	0	1	3	8	5	9	4	30
Stomach	0	0	1	13	15	14	26	20	9	98
Colon and Rectum	0	0	3	10	71	107	120	141	58	510
Colon excluding Rectum	0	0	1	6	48	73	97	119	45	389
Rectosigmoid Junction	0	0	0	1	4	8	5	5	2	25
Rectum	0	0	2	3	19	26	18	17	11	96
Liver	1	0	1	1	4	8	9	3	5	32
Gallbladder	0	0	0	0	0	5	8	5	5	23
Other Biliary	0	0	0	0	0	3	3	8	4	18
Pancreas	0	0	0	1	8	20	12	19	11	71
Respiratory System	0	0	0	2	24	71	132	139	49	417
Larynx	0	0	0	0	0	3	6	0	0	9
Lung and Bronchus	0	0	0	1	24	67	126	138	48	404
Bones and Joints	0	0	1	0	1	0	1	1	0	4
Soft Tissue including Heart	5	2	3	0	1	5	2	2	3	23
Melanoma of the Skin	0	0	3	5	1	3	5	5	0	22
Other Non-Epithelial Skin	0	0	0	2	0	0	1	2	0	5
Breast	0	2	10	62	193	257	198	112	29	863
Female Genital System	0	4	23	26	46	65	68	30	21	283
Cervix Uteri	0	1	17	19	16	8	3	3	4	71
Corpus and Uterus, NOS	0	1	1	6	15	31	36	13	5	108
Ovary	0	1	2	1	11	15	22	7	9	68
Urinary System	4	0	4	5	12	37	24	30	17	133
Urinary Bladder	0	0	1	1	2	6	4	9	7	30
Kidney and Renal Pelvis	4	0	3	4	10	31	20	19	10	101
Eye and Orbit	0	0	0	0	0	0	0	0	0	0
Brain & Nervous System	5	4	4	6	8	3	5	1	0	36
Endocrine System	0	5	17	18	27	17	8	5	6	103
Thyroid	0	5	17	17	27	16	7	5	6	100
Lymphoma	1	4	4	6	9	20	14	11	9	78
Hodgkin Lymphoma	0	1	1	1	0	1	0	0	0	4
Non-Hodgkin Lymphoma	1	3	3	5	9	19	14	11	9	74
Myeloma	0	0	1	0	2	7	13	4	2	29
Leukemia	12	7	3	4	4	11	8	4	1	54
Lymphocytic Leukemia	8	2	1	2	0	3	2	0	1	19
Myeloid & Monocytic Leukemia	2	5	1	2	3	6	6	4	0	29
Acute Myeloid	1	5	1	0	2	2	3	3	0	17
Chronic Myeloid	1	0	0	2	1	3	2	1	0	10
Miscellaneous	4	2	3	0	8	15	17	21	29	99

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Average Annual Age-Specific Cancer Incidence Rates Alaska Native Men and Women, 1999-2013

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+
All Sites	22.5	15.5	52.1	123.5	308.7	742.4	1539.0	2515.3	2639.2
Oral Cavity and Pharynx	0.0	0.3	1.1	5.2	8.1	35.7	66.9	48.1	59.8
Nasopharynx	0.0	0.3	0.0	2.4	3.1	10.1	25.0	17.1	38.9
Digestive System	1.1	0.0	4.8	24.3	92.0	230.3	486.3	880.4	958.5
Esophagus	0.0	0.0	0.0	0.4	3.1	13.1	23.7	43.3	44.6
Stomach	0.0	0.0	1.1	9.4	16.7	28.6	64.2	113.6	118.9
Colon and Rectum	0.0	0.0	2.9	12.2	51.7	127.4	282.5	536.1	538.3
Colon excluding Rectum	0.0	0.0	1.2	7.5	31.3	78.5	204.6	435.7	416.7
Rectosigmoid Junction	0.0	0.0	0.0	0.5	6.1	10.1	21.6	30.0	18.9
Rectum	0.0	0.0	1.7	4.2	14.3	38.7	56.3	70.3	102.7
Liver	1.1	0.0	0.8	1.0	7.4	18.4	24.7	26.1	56.1
Gallbladder	0.0	0.0	0.0	0.0	0.5	4.2	12.9	17.1	43.6
Other Biliary	0.0	0.0	0.0	0.0	0.5	4.2	10.8	25.7	34.2
Pancreas	0.0	0.0	0.0	0.9	7.6	23.8	38.6	91.3	82.8
Respiratory System	0.0	0.0	0.0	2.3	24.4	103.8	309.1	668.3	580.0
Larynx	0.0	0.0	0.0	0.0	1.8	6.5	15.0	9.5	15.2
Lung and Bronchus	0.0	0.0	0.0	1.8	21.6	96.0	293.1	656.9	545.8
Bones and Joints	1.2	0.8	1.1	0.0	1.3	0.0	1.2	3.8	4.7
Soft Tissue including Heart	1.4	1.4	2.1	1.4	1.8	3.6	3.2	6.2	19.9
Melanoma of the Skin	0.0	0.0	1.2	4.1	1.4	3.6	7.2	14.3	0.0
Other Non-Epithelial Skin	0.0	0.0	0.4	1.4	0.5	0.6	1.2	6.2	4.7
Urinary System	2.0	0.0	1.6	6.1	15.4	49.9	102.3	191.8	198.7
Urinary Bladder	0.0	0.0	0.4	0.9	3.9	11.9	32.6	77.1	105.5
Kidney and Renal Pelvis	2.0	0.0	1.2	5.2	11.5	38.0	68.4	110.9	93.3
Eye and Orbit	0.3	0.0	0.0	0.0	0.0	0.0	1.2	0.0	9.5
Brain & Nervous System	2.6	1.4	2.7	4.5	5.9	2.4	8.8	12.8	0.0
Endocrine System	0.8	2.5	7.9	9.7	14.6	13.1	14.2	18.1	35.2
Thyroid	0.3	2.3	7.0	9.3	14.6	12.5	13.0	18.1	35.2
Lymphoma	1.7	3.1	2.4	7.5	9.6	25.0	33.3	51.8	76.3
Hodgkin Lymphoma	0.3	0.8	0.8	0.5	0.5	1.8	0.0	0.0	0.0
Non-Hodgkin Lymphoma	1.4	2.3	1.7	7.0	9.1	23.2	33.3	51.8	76.3
Myeloma	0.0	0.0	0.4	0.5	3.1	5.9	22.6	17.6	15.2
Leukemia	8.3	3.6	3.1	4.3	4.5	13.1	17.6	27.1	30.4
Lymphocytic Leukemia	5.4	1.1	1.1	1.0	0.0	3.0	4.4	1.9	9.5
Myeloid & Monocytic Leukemia	2.0	2.2	1.2	2.8	3.6	8.9	13.2	20.9	20.9
Acute Myeloid	1.5	2.0	0.4	0.9	2.2	3.6	7.6	10.5	15.2
Chronic Myeloid	0.3	0.3	0.8	1.9	1.4	4.8	4.6	8.1	5.7
Miscellaneous	2.6	0.6	1.6	1.0	6.7	15.5	37.7	93.2	197.7

Rates are per 100,000 and age-adjusted to the 2000 US standard population

Average Annual Age-Specific Cancer Incidence Rates Alaska Native Men, 1999-2013

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+
All Sites	25.5	13.1	37.9	92.1	216.9	653.7	1565.9	2793.2	3274.9
Oral Cavity and Pharynx	0.0	0.0	0.7	7.5	11.6	44.8	95.7	49.0	96.1
Nasopharynx	0.0	0.0	0.0	3.8	5.4	12.1	36.8	17.7	50.9
Digestive System	1.6	0.0	5.5	23.3	89.7	259.3	554.3	962.6	1170.7
Esophagus	0.0	0.0	0.0	0.0	3.6	16.8	37.2	53.1	56.8
Stomach	0.0	0.0	1.5	6.4	20.2	41.0	73.9	155.8	197.7
Colon and Rectum	0.0	0.0	3.3	15.0	40.2	128.9	310.2	523.7	633.2
Colon excluding Rectum	0.0	0.0	1.6	9.4	19.5	71.1	202.3	408.3	486.2
Rectosigmoid Junction	0.0	0.0	0.0	0.0	8.9	10.9	33.8	43.6	22.7
Rectum	0.0	0.0	1.6	5.6	11.8	47.0	74.1	71.7	124.3
Liver	1.6	0.0	0.7	1.0	11.3	27.7	30.2	44.5	84.7
Gallbladder	0.0	0.0	0.0	0.0	1.0	2.4	7.5	13.6	50.9
Other Biliary	0.0	0.0	0.0	0.0	1.0	4.8	15.6	19.0	34.1
Pancreas	0.0	0.0	0.0	1.0	8.0	24.2	52.8	116.3	67.8
Respiratory System	0.0	0.0	0.0	2.8	27.6	124.9	336.7	819.8	843.1
Larynx	0.0	0.0	0.0	0.0	3.6	9.7	17.7	20.6	39.6
Lung and Bronchus	0.0	0.0	0.0	2.8	22.1	114.0	317.1	799.3	769.4
Bones and Joints	2.3	1.6	1.4	0.0	1.7	0.0	0.0	4.1	11.4
Soft Tissue including Heart	0.0	1.7	1.6	2.7	2.6	1.2	2.5	4.1	11.4
Melanoma of the Skin	0.0	0.0	0.0	3.6	1.9	3.7	4.5	9.5	0.0
Other Non-Epithelial Skin	0.0	0.0	0.8	1.0	1.0	1.2	0.0	4.1	11.4
Breast	0.0	0.0	0.0	0.0	1.8	0.0	4.1	4.1	0.0
Male Genital System	0.5	0.0	17.1	19.2	21.2	95.9	277.8	379.5	480.9
Prostate	0.0	0.0	0.0	1.9	12.1	92.3	273.2	364.7	458.2
Testis	0.5	0.0	17.1	17.3	8.2	2.4	2.0	0.0	0.0
Urinary System	1.7	0.0	0.0	7.7	20.3	56.6	158.3	283.8	294.0
Urinary Bladder	0.0	0.0	0.0	0.9	6.1	16.8	59.0	126.4	192.2
Kidney and Renal Pelvis	1.7	0.0	0.0	6.8	14.1	39.7	96.8	157.4	101.9
Eye and Orbit	0.6	0.0	0.0	0.0	0.0	0.0	2.5	0.0	22.7
Brain & Nervous System	2.2	0.6	2.2	3.7	4.6	1.2	7.0	24.3	0.0
Endocrine System	1.6	2.2	2.5	2.8	4.6	6.0	11.6	19.0	16.9
Thyroid	0.6	1.6	0.8	2.8	4.6	6.0	11.6	19.0	16.9
Lymphoma	2.7	3.8	1.5	9.3	11.1	26.4	36.3	61.0	73.4
Hodgkin Lymphoma	0.5	1.1	0.7	0.0	1.0	2.4	0.0	0.0	0.0
Non-Hodgkin Lymphoma	2.2	2.7	0.8	9.3	10.1	24.1	36.3	61.0	73.4
Myeloma	0.0	0.0	0.0	1.0	4.5	3.6	18.1	19.0	16.9
Leukemia	9.4	3.3	3.8	4.7	5.5	13.2	18.1	42.0	67.8
Lymphocytic Leukemia	6.1	1.1	1.5	0.0	0.0	2.4	4.1	4.1	11.4
Myeloid & Monocytic Leukemia	2.8	1.6	1.5	3.8	4.6	10.8	14.1	28.4	56.5
Acute Myeloid	2.2	1.1	0.0	1.8	2.7	4.8	9.1	9.5	39.6
Chronic Myeloid	0.0	0.5	1.5	1.9	1.9	6.0	5.0	13.6	16.9
Miscellaneous	2.9	0.0	0.8	1.9	6.3	13.3	38.3	107.1	130.1

Rates are per 100,000 and age-adjusted to the 2000 US standard population

Average Annual Age-Specific Cancer Incidence Rates Alaska Native Women, 1999-2013

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+
All Sites	19.2	18.0	66.7	155.0	400.0	828.8	1514.7	2284.1	2257.4
Oral Cavity and Pharynx	0.0	0.6	1.6	2.8	4.6	27.0	39.7	46.8	40.6
Nasopharynx	0.0	0.6	0.0	1.0	1.0	8.2	14.0	16.3	32.5
Digestive System	0.6	0.0	4.1	25.4	94.3	202.0	422.4	813.0	833.5
Esophagus	0.0	0.0	0.0	0.9	2.6	9.4	10.9	34.8	33.6
Stomach	0.0	0.0	0.7	12.4	13.2	16.4	55.3	78.8	74.8
Colon and Rectum	0.0	0.0	2.5	9.3	63.3	125.8	256.0	546.0	484.3
Colon excluding Rectum	0.0	0.0	0.8	5.6	43.1	85.7	206.5	458.8	376.4
Rectosigmoid Junction	0.0	0.0	0.0	1.0	3.4	9.4	10.1	18.5	16.3
Rectum	0.0	0.0	1.7	2.7	16.7	30.6	39.4	68.7	91.6
Liver	0.6	0.0	0.8	1.0	3.6	9.4	19.5	11.4	41.2
Gallbladder	0.0	0.0	0.0	0.0	0.0	5.9	17.9	19.9	40.6
Other Biliary	0.0	0.0	0.0	0.0	0.0	3.5	6.2	31.2	33.1
Pancreas	0.0	0.0	0.0	0.9	7.2	23.4	25.3	71.8	92.2
Respiratory System	0.0	0.0	0.0	1.8	21.1	83.2	283.0	540.9	410.0
Larynx	0.0	0.0	0.0	0.0	0.0	3.5	12.5	0.0	0.0
Lung and Bronchus	0.0	0.0	0.0	0.9	21.1	78.5	270.5	537.3	401.9
Bones and Joints	0.0	0.0	0.8	0.0	0.9	0.0	2.3	3.6	0.0
Soft Tissue including Heart	2.8	1.2	2.5	0.0	1.0	5.9	3.9	7.8	24.9
Melanoma of the Skin	0.0	0.0	2.5	4.6	0.9	3.5	9.7	18.5	0.0
Other Non-Epithelial Skin	0.0	0.0	0.0	1.8	0.0	0.0	2.3	7.8	0.0
Breast	0.0	1.2	8.1	58.5	173.5	301.8	419.3	429.7	241.3
Female Genital System	0.0	2.3	18.2	24.0	40.8	76.3	143.8	119.1	173.5
Cervix Uteri	0.0	0.6	13.6	17.4	14.6	9.4	6.2	12.1	33.6
Corpus and Uterus, NOS	0.0	0.6	0.8	5.6	13.1	36.3	75.6	51.1	40.6
Ovary	0.0	0.6	1.5	1.0	9.7	17.6	46.8	27.0	73.7
Urinary System	2.4	0.0	3.3	4.6	10.6	43.4	49.5	115.1	141.5
Urinary Bladder	0.0	0.0	0.7	0.9	1.7	7.0	7.8	35.5	56.9
Kidney and Renal Pelvis	2.4	0.0	2.5	3.7	8.9	36.4	41.7	72.5	84.6
Eye and Orbit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Brain & Nervous System	3.1	2.3	3.1	5.4	7.2	3.5	10.5	3.6	0.0
Endocrine System	0.0	2.9	13.5	16.6	24.6	20.0	16.8	17.8	49.3
Thyroid	0.0	2.9	13.5	15.7	24.6	18.8	14.4	17.8	49.3
Lymphoma	0.6	2.3	3.4	5.6	8.1	23.5	30.4	44.0	77.1
Hodgkin Lymphoma	0.0	0.6	0.8	1.0	0.0	1.2	0.0	0.0	0.0
Non-Hodgkin Lymphoma	0.6	1.8	2.5	4.7	8.1	22.3	30.4	44.0	77.1
Myeloma	0.0	0.0	0.8	0.0	1.8	8.2	26.9	16.3	16.3
Leukemia	7.2	4.0	2.4	3.8	3.5	12.9	17.1	14.9	8.1
Lymphocytic Leukemia	4.7	1.1	0.7	2.0	0.0	3.5	4.7	0.0	8.1
Myeloid & Monocytic Leukemia	1.2	2.8	0.8	1.8	2.6	7.1	12.5	14.9	0.0
Acute Myeloid	0.6	2.8	0.8	0.0	1.7	2.3	6.2	11.4	0.0
Chronic Myeloid	0.6	0.0	0.0	1.8	0.9	3.5	4.3	3.6	0.0
Miscellaneous	2.4	1.2	2.4	0.0	7.1	17.6	37.0	81.6	241.3

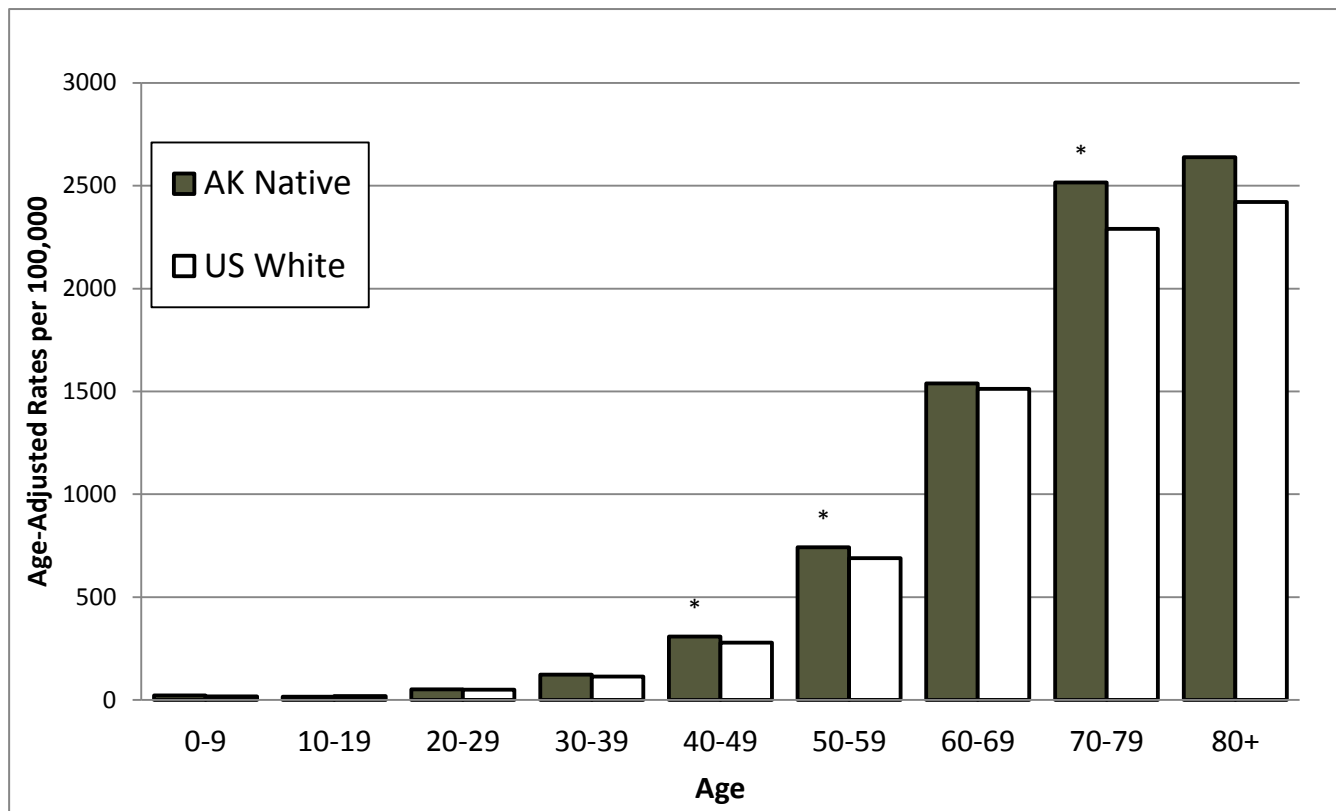
Rates are per 100,000 and age-adjusted to the 2000 US standard population

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Age-Specific Cancer Incidence Rates

Alaska Native and US White, Men and Women, 1999-2013

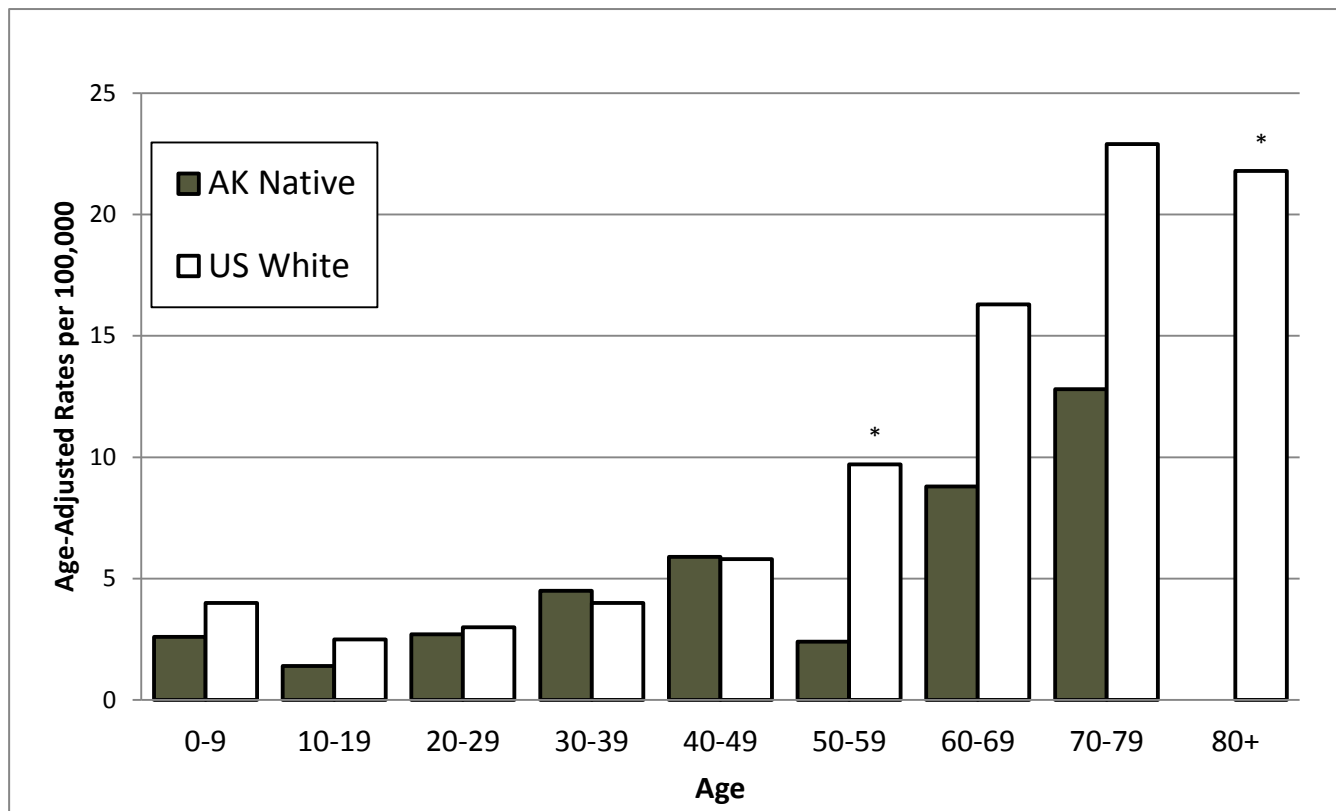
All Sites



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	46	25.5	18.8	32	19.2	16.6	78	22.5	17.7
10-19	24	13.1	19.8	31	18.0	17.7	55	15.5	18.8
20-29	49	37.9	45.3	83	66.7	54.3	132	52.1	49.7
30-39	99	92.1	82.8	166	155.0	146.3	265	123.5	113.7
40-49	243	216.9	206.3	447	400.0 *	353.7	690	308.7 *	279.2
50-59	543	653.7	698.2	706	828.8 *	682.0	1249	742.4 *	689.8
60-69	690	1565.9	1822.9 *	713	1514.7 *	1229.0	1403	1539.0	1512.3
70-79	602	2793.2	2926.2	590	2284.1 *	1789.9	1192	2515.3 *	2290.1
80+	248	3274.9	3196.6	271	2257.4	1992.0	519	2639.2	2420.2
Total	2544	518.3	545.2 *	3039	511.5 *	425.9	5583	509.3 *	474.5

* Rate is statistically higher than comparison rate, p < 0.05.

Age-Specific Cancer Incidence Rates
Alaska Native and US White, Men and Women, 1999-2013
Brain and Nervous System



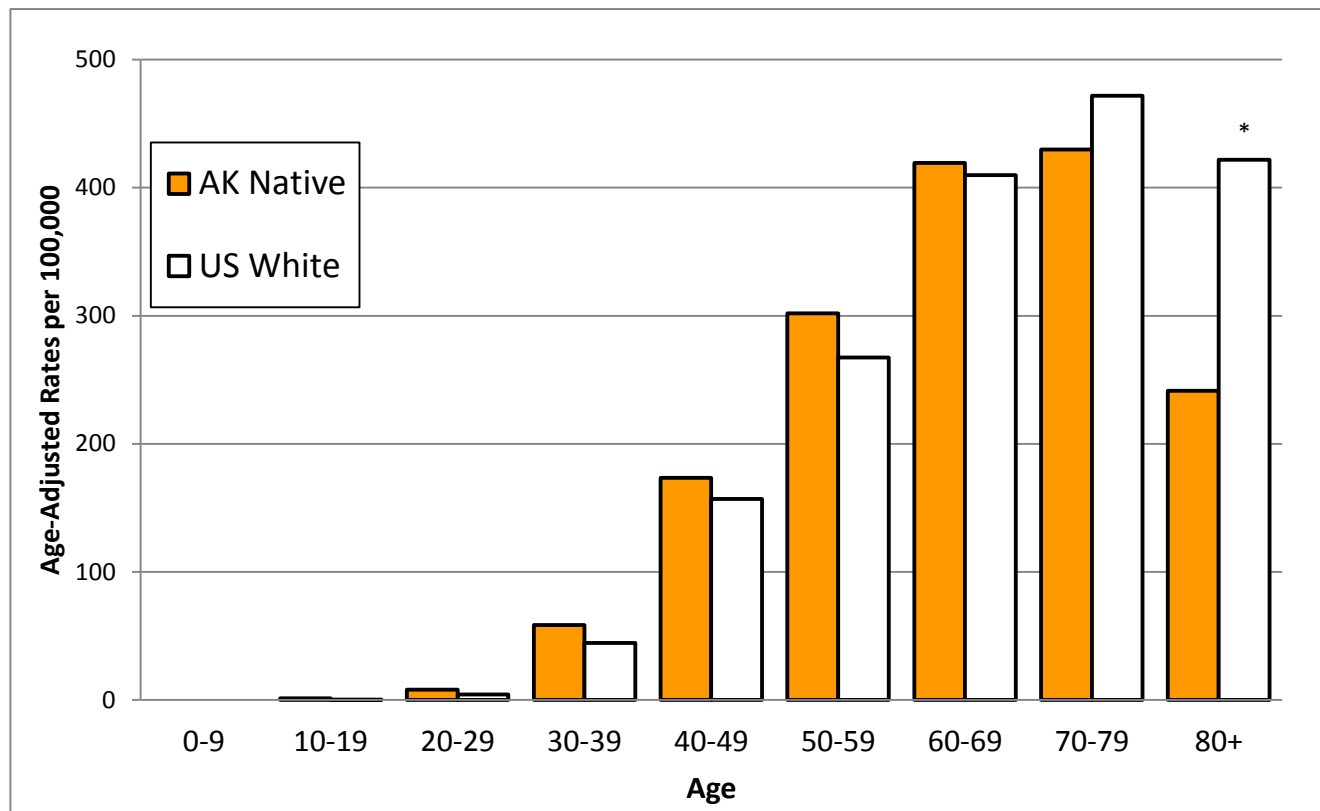
Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	4	2.2	4.1	5	3.1	3.8	9	2.6	4.0
10-19	1	0.6	2.8	4	2.3	2.2	5	1.4	2.5
20-29	3	2.2	3.2	4	3.1	2.7	7	2.7	3.0
30-39	4	3.7	4.6	6	5.4	3.4	10	4.5	4.0
40-49	5	4.6	6.8	8	7.2	4.8	13	5.9	5.8
50-59	1	1.2	11.9 *	3	3.5	7.7	4	2.4	9.7 *
60-69	3	7.0	19.8	5	10.5	13.2	8	8.8	16.3
70-79	5	24.3	27.9	1	3.6	18.9	6	12.8	22.9
80+	0	0.0	27.9	0	0.0	18.4	0	0.0	21.8 *
Total	26	4.0	8.5 *	36	4.5	6.0	62	4.2	7.2 *

* Rate is statistically higher than comparison rate, $p < 0.05$.

Age-Specific Cancer Incidence Rates

Alaska Native Women and US White Women, 1999-2013

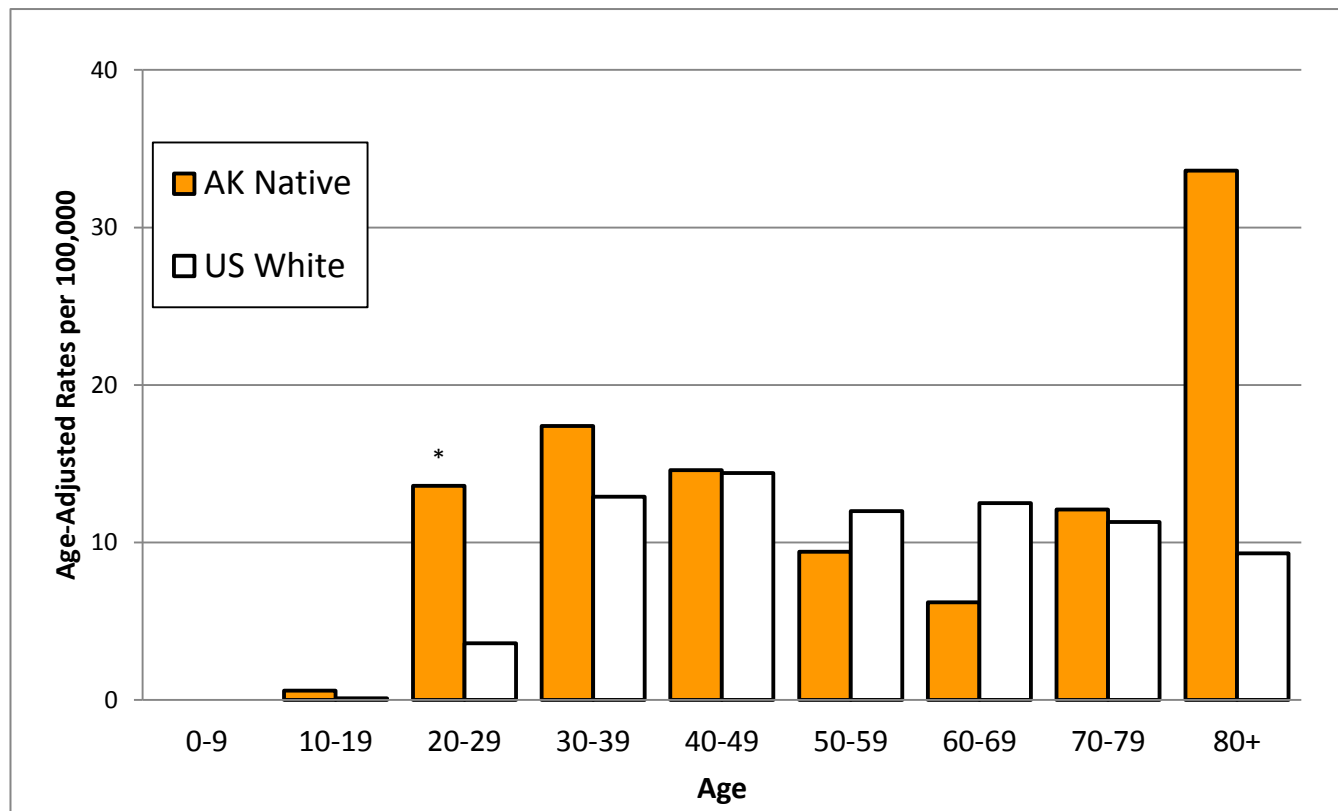
Breast



Men				Women		
Alaska Native		US White		Alaska Native	US White	
Age	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.0	2	1.2	0.1
20-29	0	0.0	0.0	10	8.1	4.4
30-39	0	0.0	0.1	62	58.5	44.5
40-49	2	1.8	0.5	193	173.5	157.0
50-59	0	0.0	1.4	257	301.8	267.5
60-69	2	4.1	4.2	198	419.3	409.7
70-79	1	4.1	6.1	112	429.7	471.8
80+	0	0.0	8.5	29	241.3	421.7 *
Total	5	0.8	1.2	863	134.3	133.0

* Rate is statistically higher than comparison rate, $p < 0.05$.

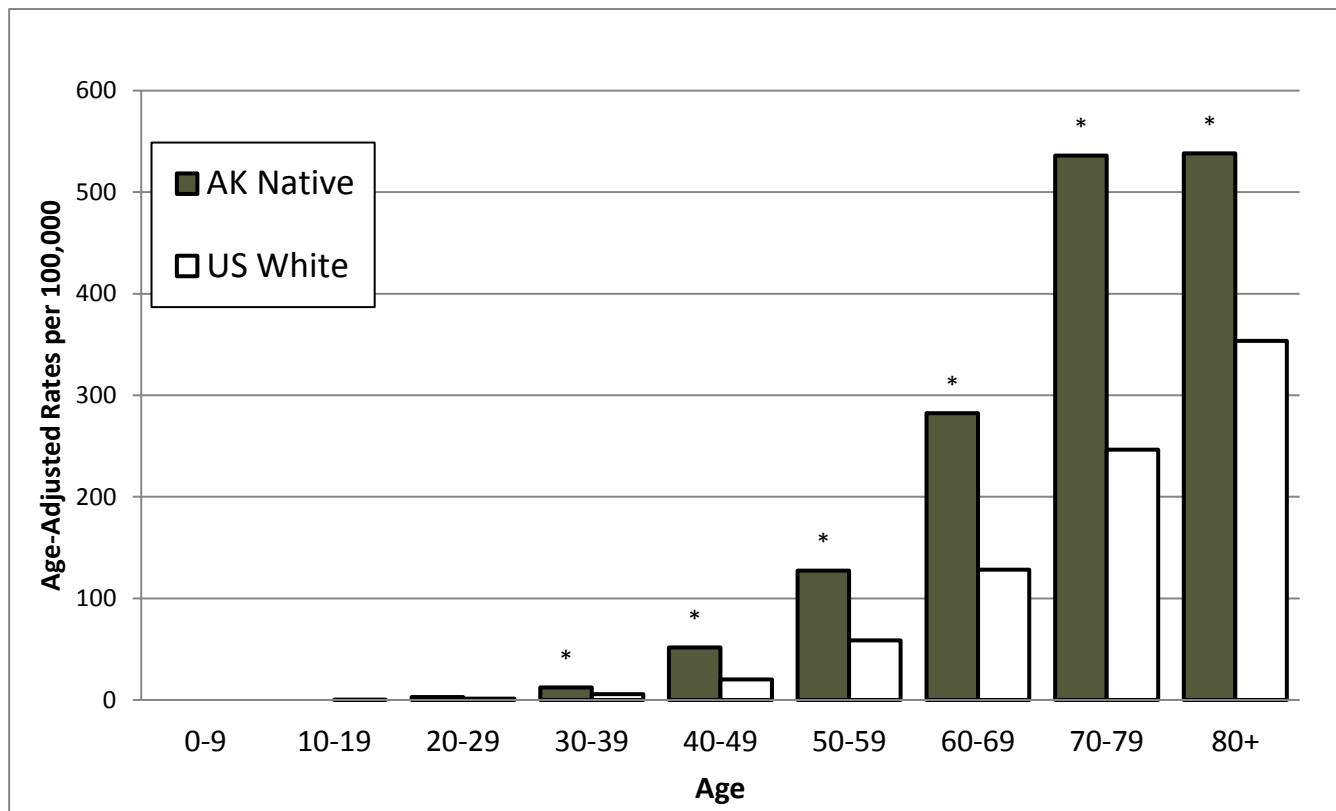
Age-Specific Cancer Incidence Rates **Alaska Native Women and US White Women, 1999-2013** **Cervix**



Women			
Alaska Native			US White
Age	Count	Rate	Rate
0-9	0	0.0	0.0
10-19	1	0.6	0.1
20-29	17	13.6 *	3.6
30-39	19	17.4	12.9
40-49	16	14.6	14.4
50-59	8	9.4	12.0
60-69	3	6.2	12.5
70-79	3	12.1	11.3
80+	4	33.6	9.3
Total	71	10.1	7.9

* Rate is statistically higher than comparison rate, $p < 0.05$.

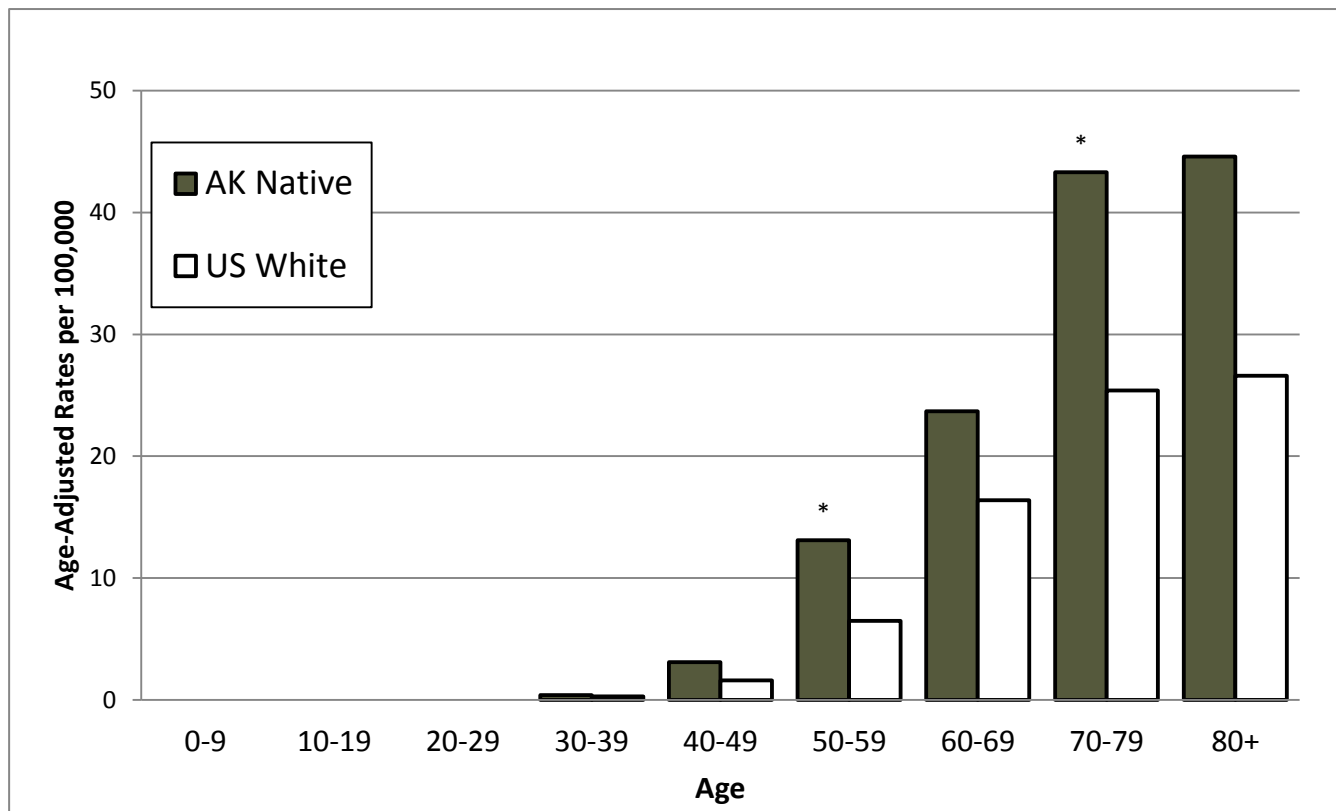
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Colon and Rectum**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.1	0	0.0	0.1	0	0.0	0.1
20-29	4	3.3	1.4	3	2.5	1.4	7	2.9	1.4
30-39	16	15.0 *	6.2	10	9.3	5.4	26	12.2 *	5.8
40-49	45	40.2 *	21.5	71	63.3 *	18.8	116	51.7 *	20.1
50-59	107	128.9 *	68.7	107	125.8 *	49.1	214	127.4 *	58.8
60-69	139	310.2 *	154.4	120	256.0 *	104.3	259	282.5 *	128.3
70-79	113	523.7 *	289.5	141	546.0 *	212.4	254	536.1 *	246.4
80+	47	633.2 *	399.5	58	484.3 *	328.0	105	538.3 *	353.5
Total	471	97.8 *	53.7	510	92.4 *	40.4	981	94.5 *	46.4

* Rate is statistically higher than comparison rate, $p < 0.05$.

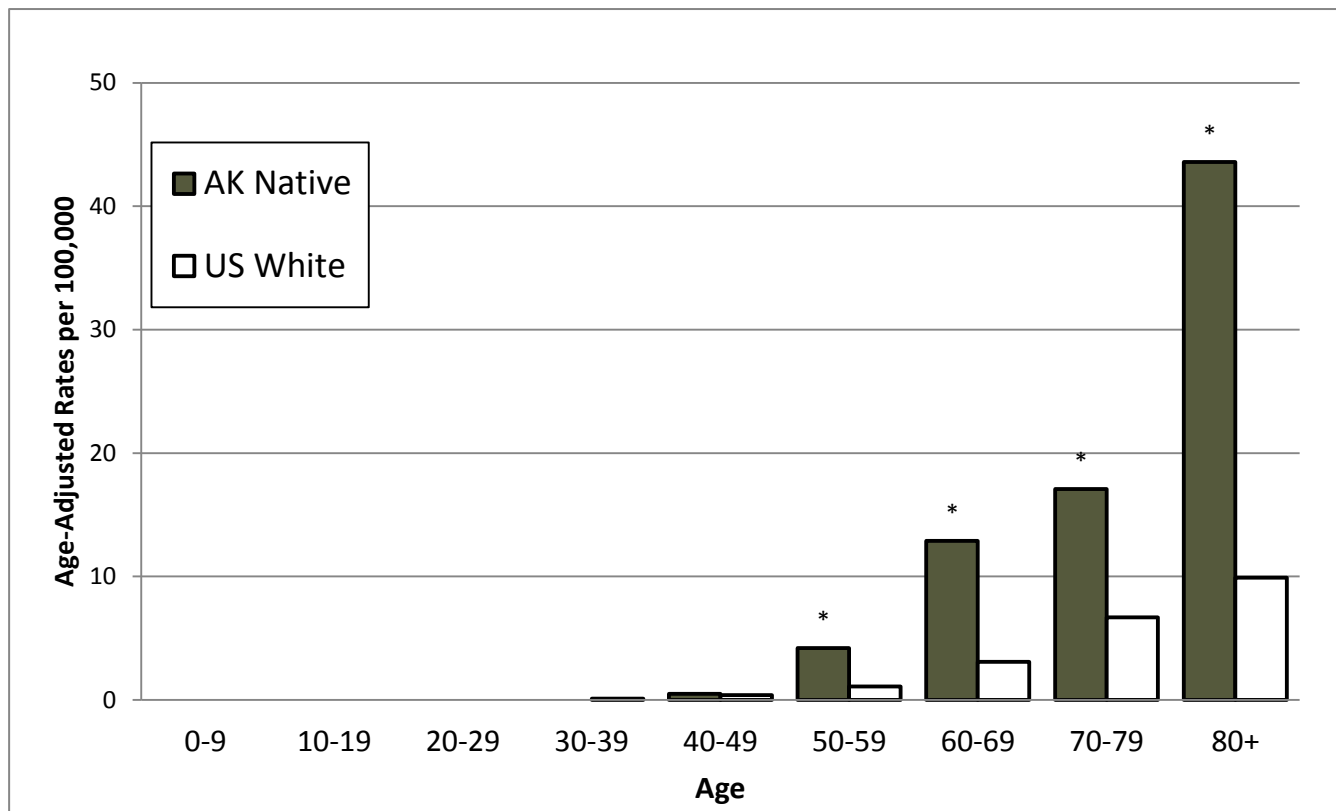
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Esophagus**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
20-29	0	0.0	0.1	0	0.0	0.0	0	0.0	0.0
30-39	0	0.0	0.5	1	0.9	0.1	1	0.4	0.3
40-49	4	3.6	2.7	3	2.6	0.5	7	3.1	1.6
50-59	14	16.8	11.1	8	9.4 *	2.0	22	13.1 *	6.5
60-69	16	37.2	28.3	5	10.9	5.5	21	23.7	16.4
70-79	12	53.1	43.2	9	34.8 *	11.4	21	43.3 *	25.4
80+	5	56.8	47.5	4	33.6	14.9	9	44.6	26.6
Total	51	10.2	7.9	30	5.5 *	1.9	81	7.8 *	4.6

* Rate is statistically higher than comparison rate, $p < 0.05$.

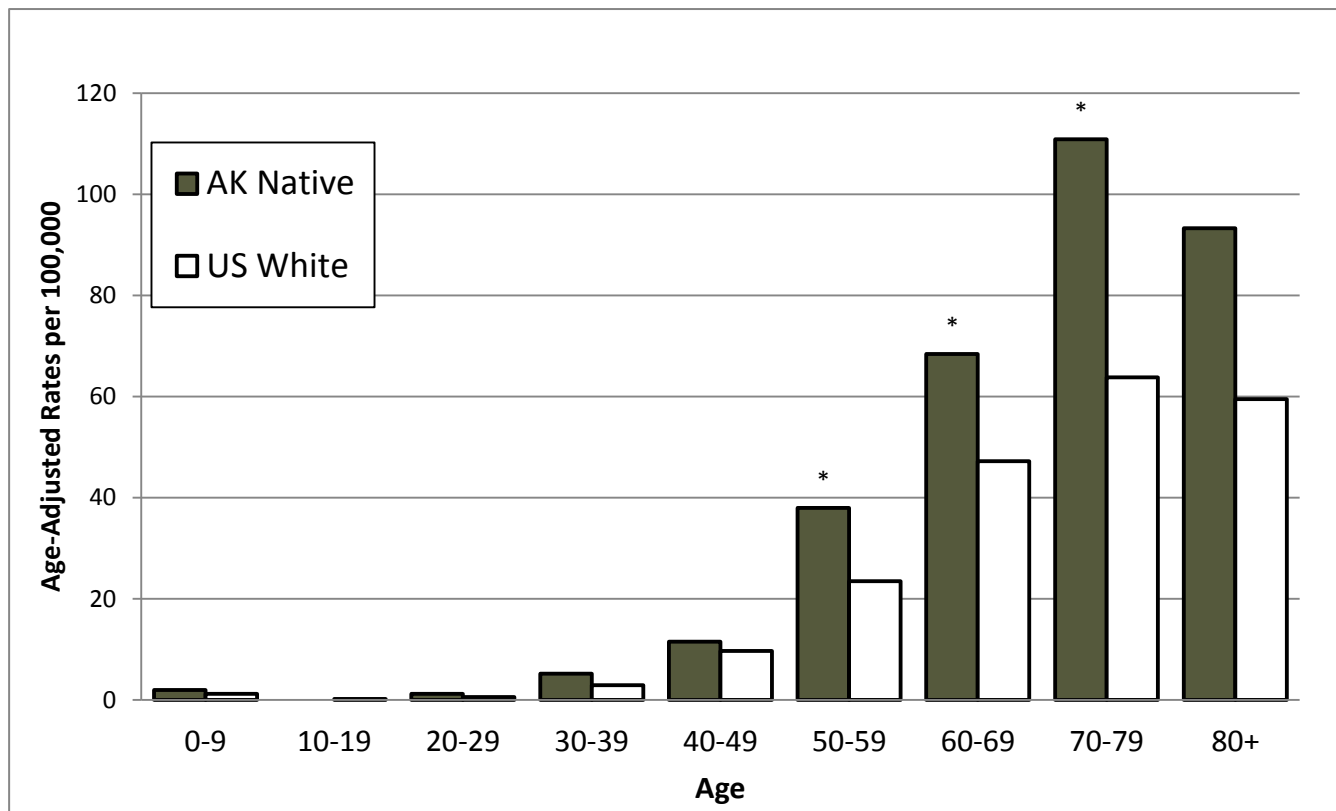
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Gallbladder**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
20-29	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
30-39	0	0.0	0.1	0	0.0	0.1	0	0.0	0.1
40-49	1	1.0	0.2	0	0.0	0.6	1	0.5	0.4
50-59	2	2.4	0.6	5	5.9 *	1.6	7	4.2 *	1.1
60-69	3	7.5	1.8	8	17.9 *	4.4	11	12.9 *	3.1
70-79	3	13.6	4.7	5	19.9	8.2	8	17.1 *	6.7
80+	4	50.9 *	7.3	5	40.6 *	11.3	9	43.6 *	9.9
Total	13	3.5 *	0.8	23	4.5 *	1.5	36	3.9 *	1.2

* Rate is statistically higher than comparison rate, $p < 0.05$.

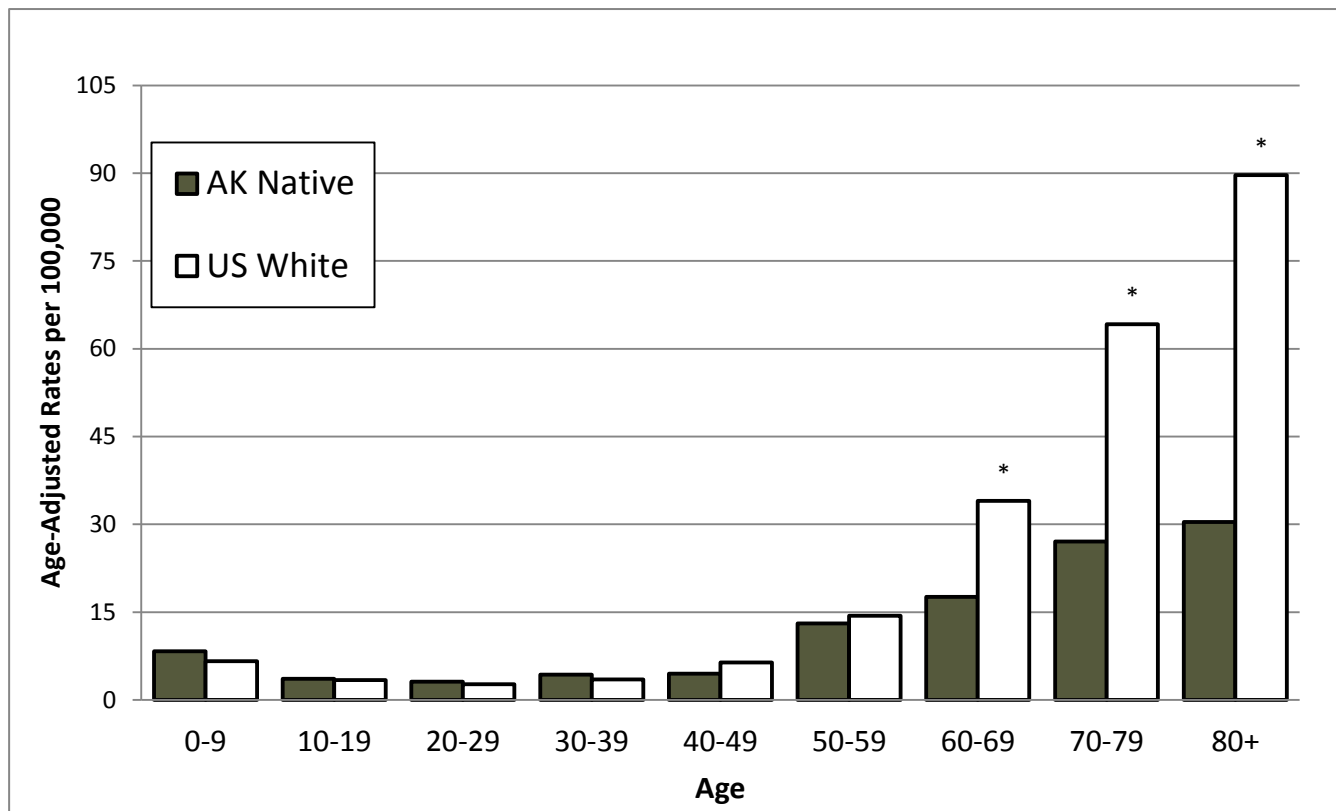
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Kidney**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	3	1.7	1.1	4	2.4	1.3	7	2.0	1.2
10-19	0	0.0	0.1	0	0.0	0.2	0	0.0	0.2
20-29	0	0.0	0.6	3	2.5	0.6	3	1.2	0.6
30-39	7	6.8	3.4	4	3.7	2.4	11	5.2	2.9
40-49	16	14.1	12.6	10	8.9	6.8	26	11.5	9.7
50-59	33	39.7	31.4	31	36.4 *	15.7	64	38.0 *	23.5
60-69	43	96.8 *	65.6	20	41.7	30.4	63	68.4 *	47.2
70-79	34	157.4 *	89.8	19	72.5	43.4	53	110.9 *	63.8
80+	8	101.9	88.0	10	84.6	43.6	18	93.3	59.5
Total	144	27.6 *	19.2	101	16.8 *	9.7	245	21.9 *	14

* Rate is statistically higher than comparison rate, $p < 0.05$.

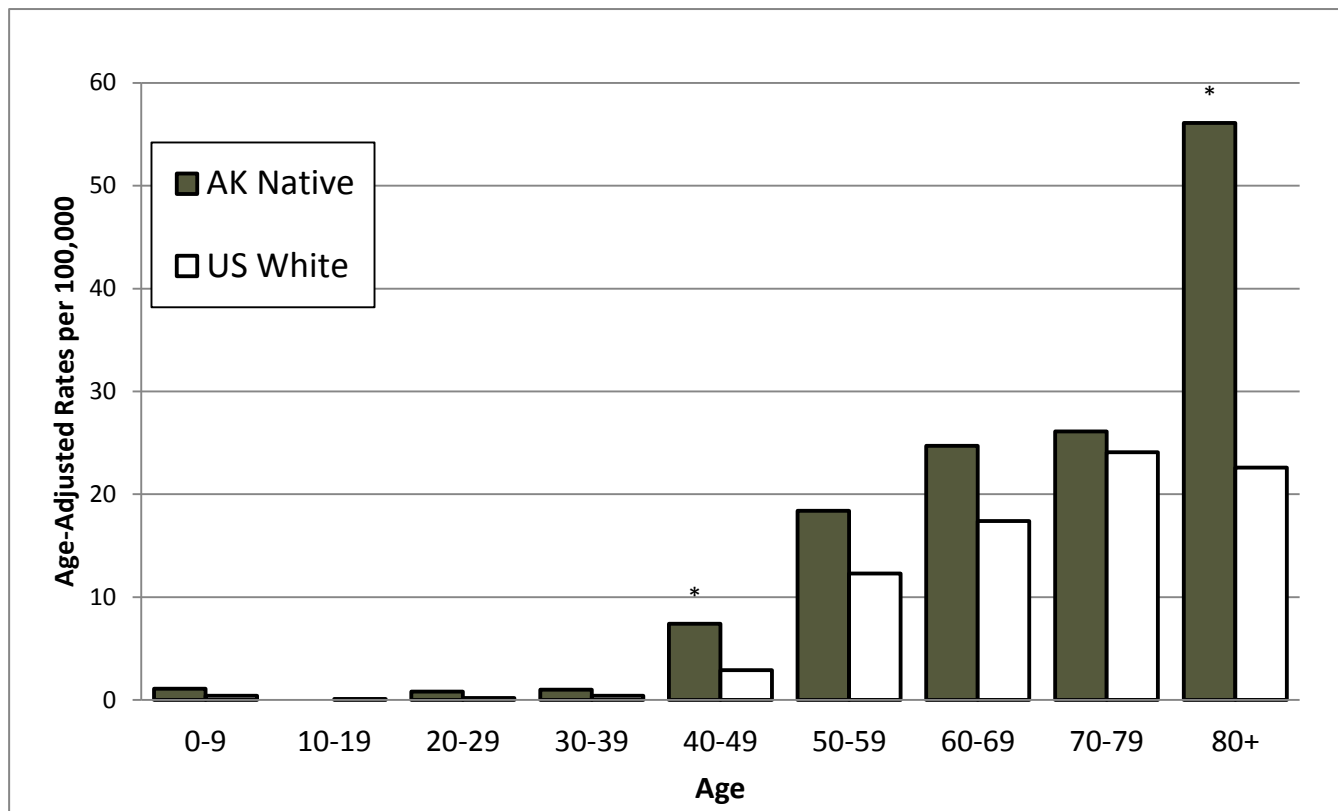
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Leukemia**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	17	9.4	7.1	12	7.2	6.1	29	8.3	6.6
10-19	6	3.3	4.0	7	4.0	2.9	13	3.6	3.4
20-29	5	3.8	3.1	3	2.4	2.4	8	3.1	2.7
30-39	5	4.7	4.0	4	3.8	3.0	9	4.3	3.5
40-49	6	5.5	7.5	4	3.5	5.2	10	4.5	6.4
50-59	11	13.2	17.7	11	12.9	11.2	22	13.1	14.4
60-69	8	18.1	44.3 *	8	17.1	24.7	16	17.6	34.0 *
70-79	9	42.0	87.2 *	4	14.9	46.1 *	13	27.1	64.2 *
80+	5	67.8	129.4	1	8.1	68.1 *	6	30.4	89.7 *
Total	72	11.4	18.4 *	54	6.9	10.9 *	126	8.8	14.2 *

* Rate is statistically higher than comparison rate, p < 0.05.

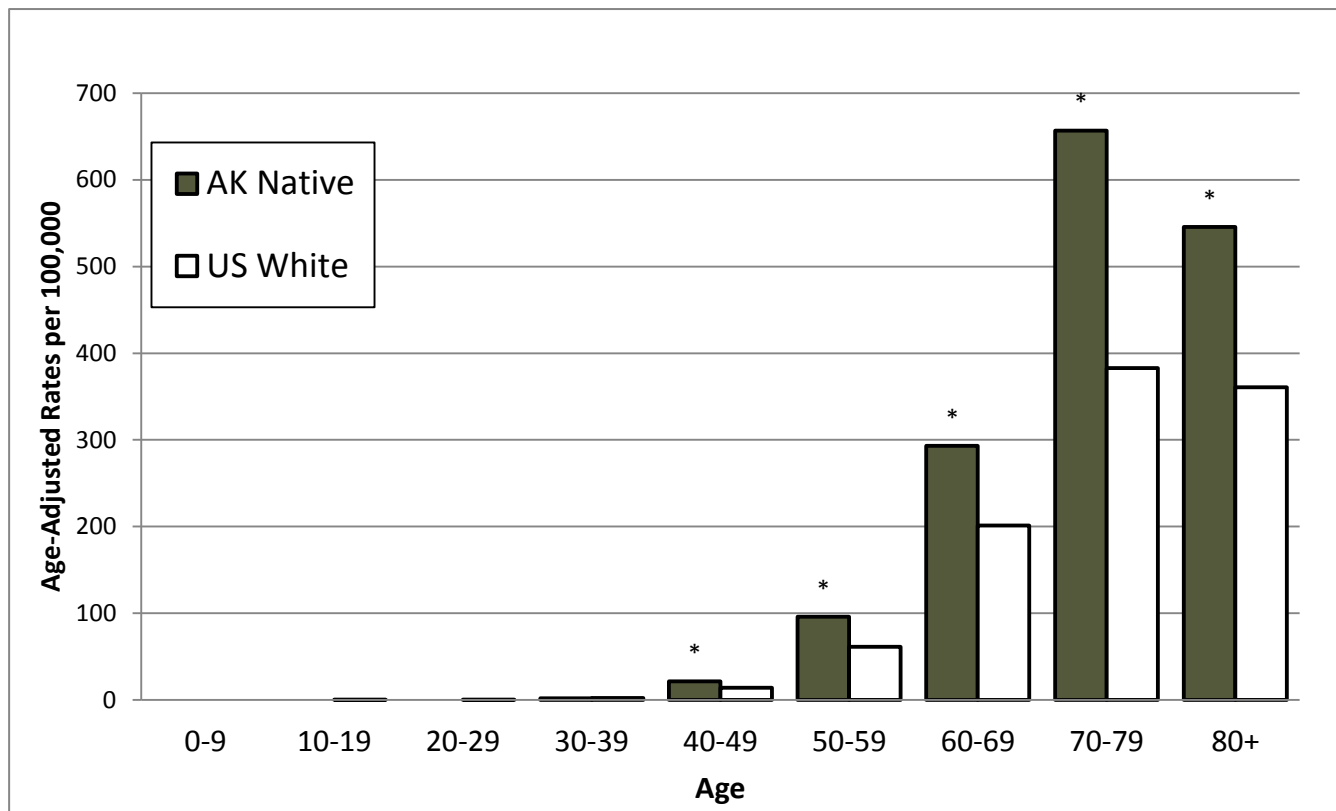
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Liver**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	3	1.6	0.5	1	0.6	0.4	4	1.1	0.4
10-19	0	0.0	0.1	0	0.0	0.1	0	0.0	0.1
20-29	1	0.7	0.2	1	0.8	0.1	2	0.8	0.2
30-39	1	1.0	0.5	1	1.0	0.3	2	1.0	0.4
40-49	13	11.3 *	4.7	4	3.6	1.1	17	7.4 *	2.9
50-59	23	27.7	20.9	8	9.4	4.0	31	18.4	12.3
60-69	13	30.2	27.8	9	19.5 *	7.9	22	24.7	17.4
70-79	9	44.5	36.7	3	11.4	14.2	12	26.1	24.1
80+	6	84.7	35.2	5	41.2	15.5	11	56.1 *	22.6
Total	69	12.9 *	8.6	32	5.4 *	2.7	101	8.8 *	5.4

* Rate is statistically higher than comparison rate, $p < 0.05$.

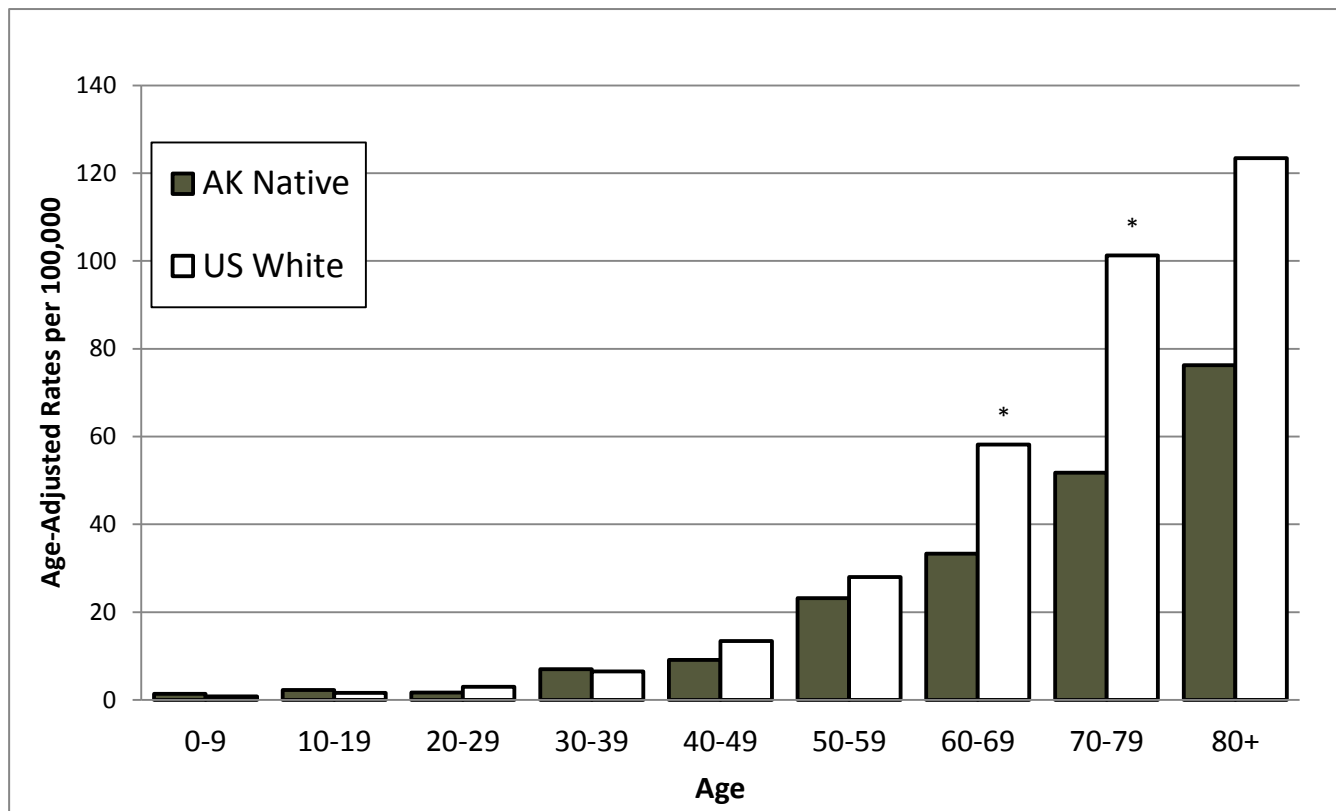
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Lung**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.1	0	0.0	0.1	0	0.0	0.1
20-29	0	0.0	0.5	0	0.0	0.5	0	0.0	0.5
30-39	3	2.8	2.0	1	0.9	2.2	4	1.8	2.1
40-49	25	22.1	13.9	24	21.1	14.4	49	21.6 *	14.1
50-59	95	114.0 *	66.8	67	78.5 *	55.8	162	96.0 *	61.2
60-69	140	317.1 *	227.1	126	270.5 *	177.3	266	293.1 *	201.1
70-79	173	799.3 *	459.1	138	537.3 *	323.3	311	656.9 *	382.8
80+	59	769.4 *	489.2	48	401.9 *	289.9	107	545.8 *	360.6
Total	495	112.3 *	69.8	404	76.9 *	50.5	899	92.5 *	58.6

* Rate is statistically higher than comparison rate, p < 0.05.

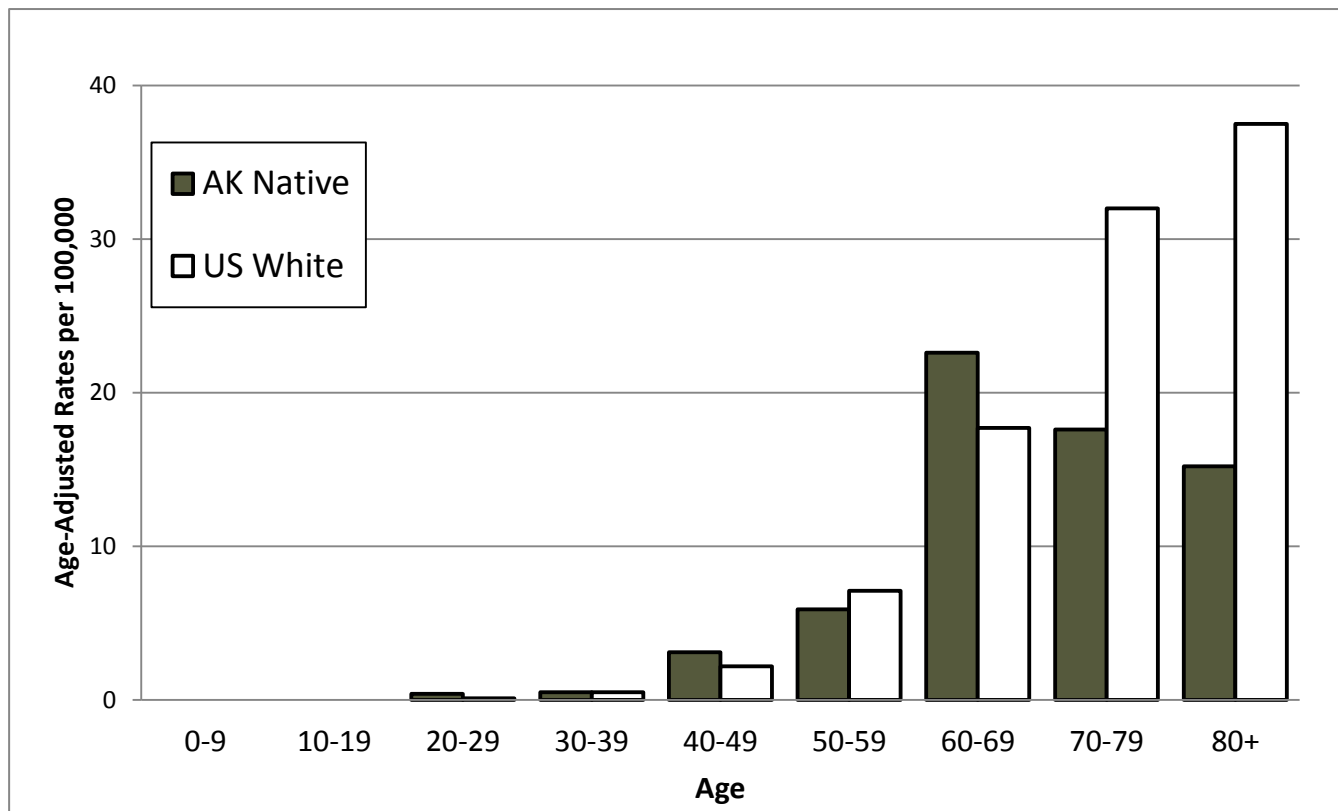
Age-Specific Cancer Incidence Rates
Alaska Native and US White, Men and Women, 1999-2013
Lymphoma, Non-Hodgkin



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	4	2.2	1.0	1	0.6	0.5	5	1.4	0.8
10-19	5	2.7	2.0	3	1.8	1.1	8	2.3	1.6
20-29	1	0.8	3.6	3	2.5	2.4	4	1.7	3.0
30-39	10	9.3	8.0	5	4.7	5.0	15	7.0	6.5
40-49	11	10.1	16.4	9	8.1	10.4	20	9.1	13.4
50-59	20	24.1	32.8	19	22.3	23.3	39	23.2	28.0
60-69	16	36.3	67.9 *	14	30.4	49.4	30	33.3	58.2 *
70-79	13	61.0	122.2 *	11	44.0	85.0 *	24	51.8	101.3 *
80+	5	73.4	159.2	9	77.1	103.9	14	76.3	123.4
Total	85	15.1	25.7 *	74	12.5	17.6 *	159	13.8	21.2 *

* Rate is statistically higher than comparison rate, $p < 0.05$.

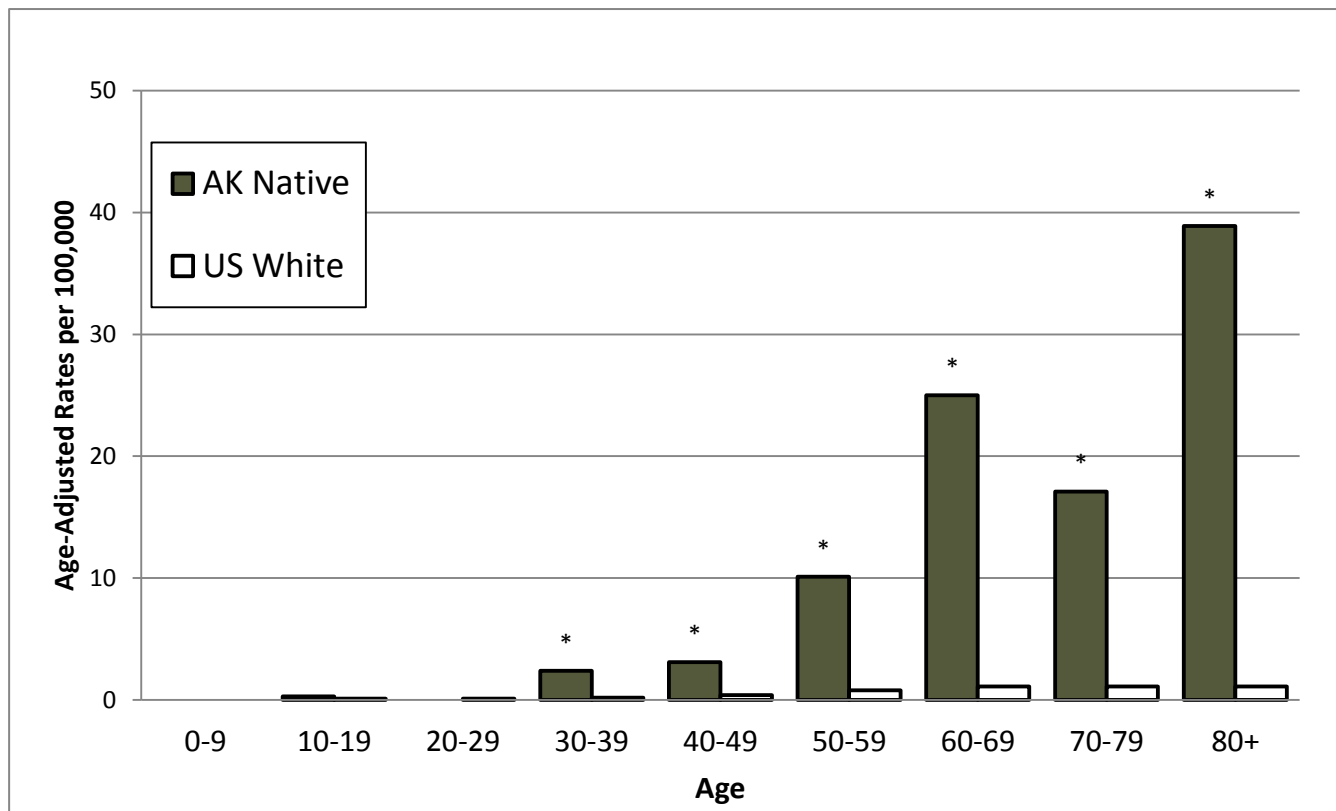
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Multiple Myeloma**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
20-29	0	0.0	0.1	1	0.8	0.0	1	0.4	0.1
30-39	1	1.0	0.6	0	0.0	0.4	1	0.5	0.5
40-49	5	4.5	2.5	2	1.8	1.8	7	3.1	2.2
50-59	3	3.6	8.3	7	8.2	5.8	10	5.9	7.1
60-69	8	18.1	21.9	13	26.9	13.8	21	22.6	17.7
70-79	4	19.0	41.5	4	16.3	24.5	8	17.6	32.0
80+	1	16.9	52.0	2	16.3	29.5	3	15.2	37.5
Total	22	4.2	7.2 *	29	4.8	4.4	51	4.5	5.6

* Rate is statistically higher than comparison rate, $p < 0.05$.

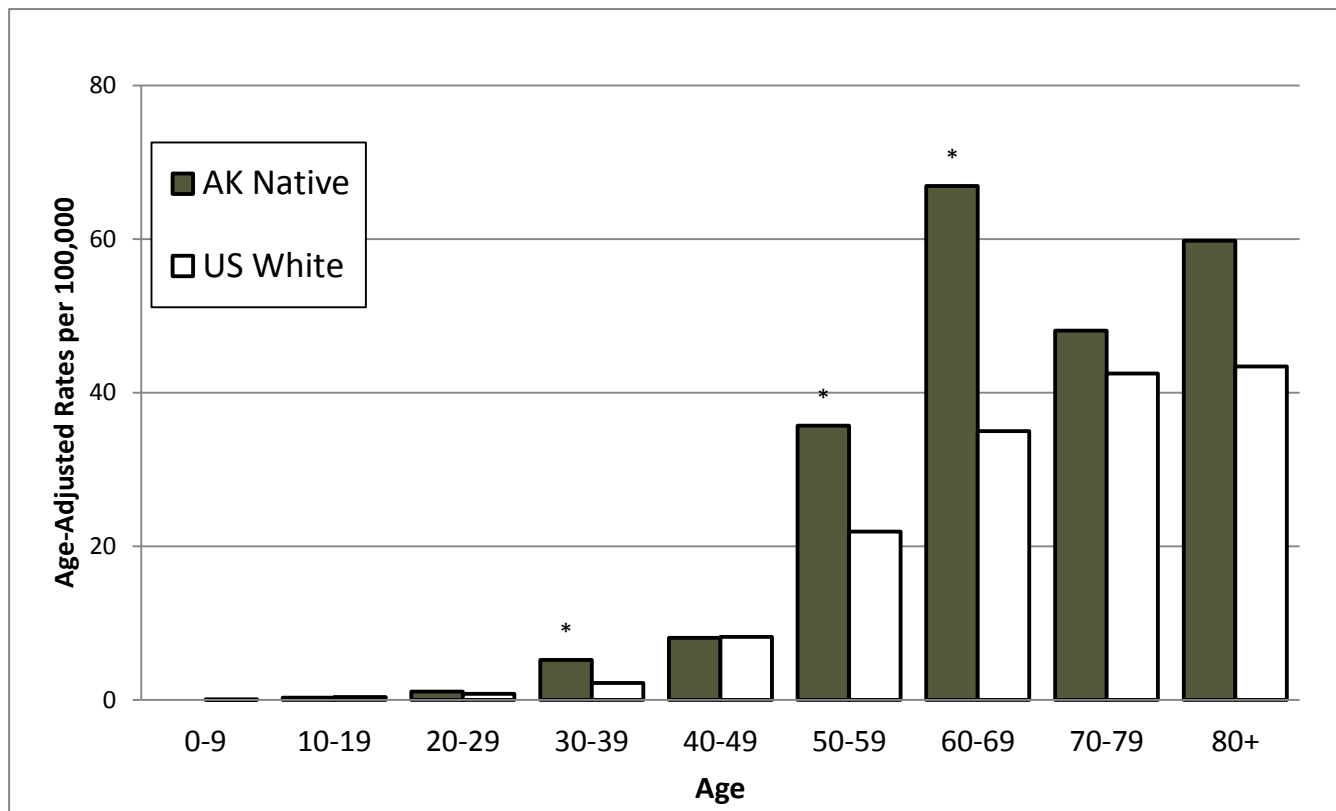
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Nasopharynx**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.1	1	0.6	0.1	1	0.3	0.1
20-29	0	0.0	0.1	0	0.0	0.1	0	0.0	0.1
30-39	4	3.8 *	0.2	1	1.0	0.1	5	2.4 *	0.2
40-49	6	5.4 *	0.5	1	1.0	0.2	7	3.1 *	0.4
50-59	10	12.1 *	1.2	7	8.2 *	0.4	17	10.1 *	0.8
60-69	16	36.8 *	1.6	7	14.0 *	0.7	23	25.0 *	1.1
70-79	4	17.7 *	1.5	4	16.3 *	0.7	8	17.1 *	1.1
80+	4	50.9 *	1.5	4	32.5 *	0.8	8	38.9 *	1.1
Total	44	8.2 *	0.5	25	4.4 *	0.2	69	6.1 *	0.4

* Rate is statistically higher than comparison rate, $p < 0.05$.

Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Oral Cavity and Pharynx**



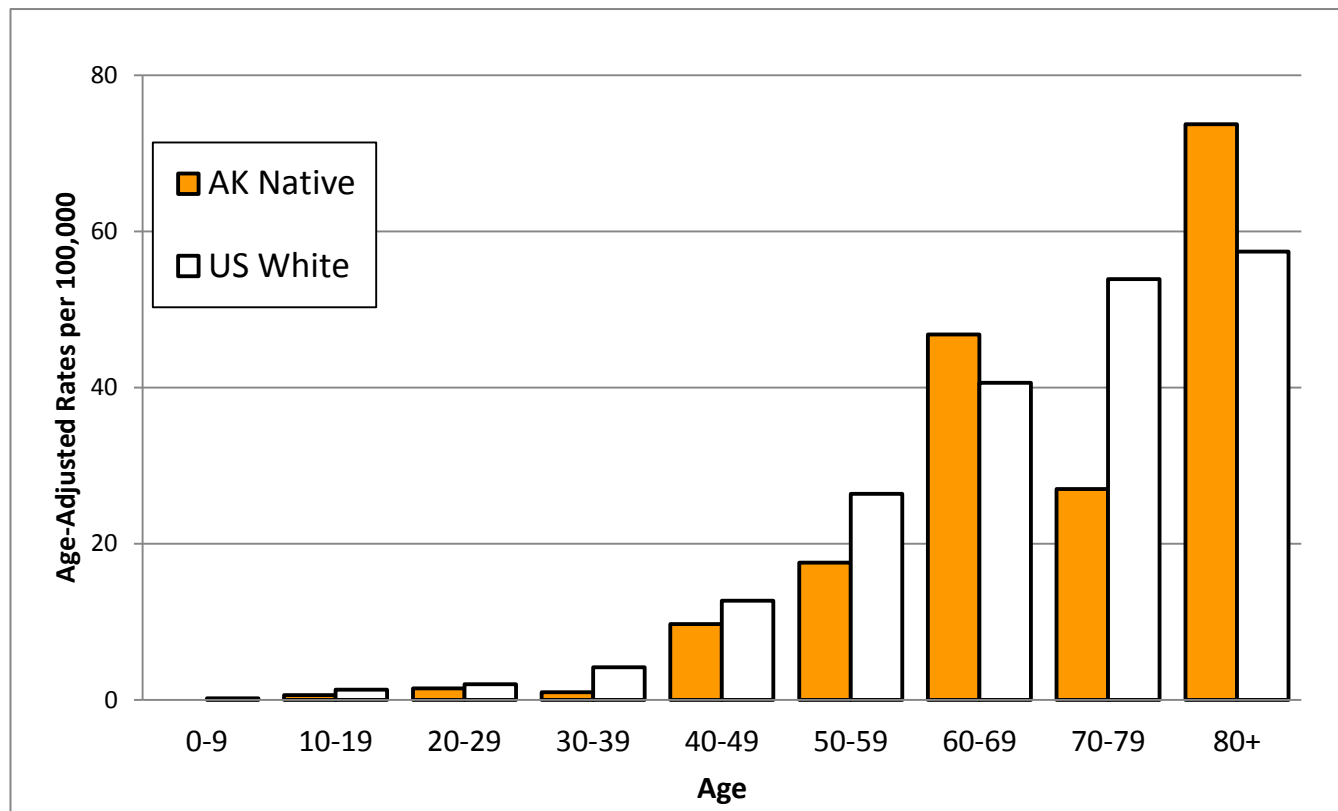
Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.1	0	0.0	0.1	0	0.0	0.1
10-19	0	0.0	0.3	1	0.6	0.4	1	0.3	0.4
20-29	1	0.7	0.7	2	1.6	0.9	3	1.1	0.8
30-39	8	7.5 *	2.6	3	2.8	1.8	11	5.2 *	2.2
40-49	13	11.6	12.1	5	4.6	4.3	18	8.1	8.2
50-59	37	44.8	33.7	23	27.0 *	10.2	60	35.7 *	21.9
60-69	42	95.7 *	53.6	19	39.7 *	18.0	61	66.9 *	35.0
70-79	11	49.0	61.6	12	46.8	27.4	23	48.1	42.5
80+	7	96.1	63.9	5	40.6	32.0	12	59.8	43.4
Total	119	21.1 *	15.8	70	11.4 *	6.2	189	15.9 *	10.7

* Rate is statistically higher than comparison rate, $p < 0.05$.

Age-Specific Cancer Incidence Rates

Alaska Native Women and US White Women, 1999-2013

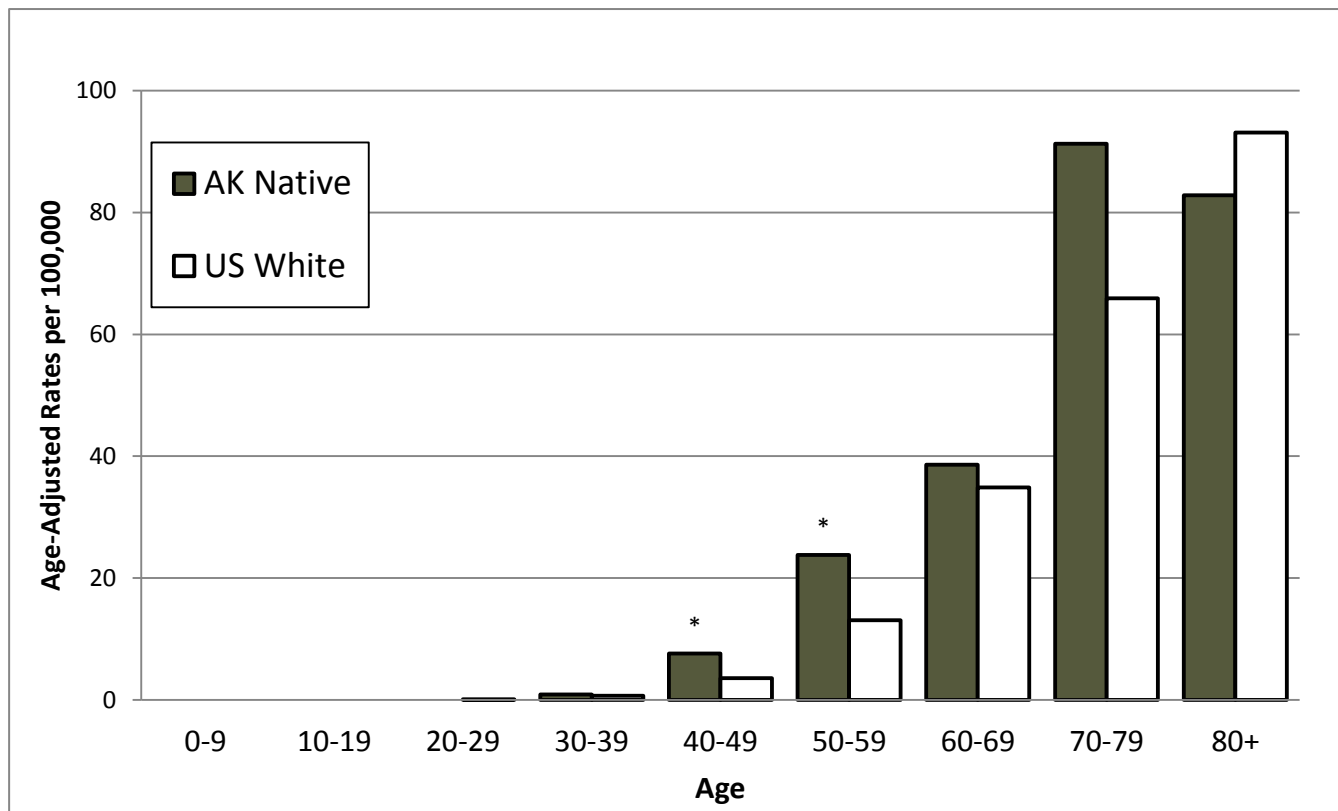
Ovary



Women			
Alaska Native			US White
Age	Count	Rate	Rate
0-9	0	0.0	0.2
10-19	1	0.6	1.3
20-29	2	1.5	2.0
30-39	1	1.0	4.2
40-49	11	9.7	12.7
50-59	15	17.6	26.4
60-69	22	46.8	40.6
70-79	7	27.0	53.9
80+	9	73.7	57.4
Total	68	11.3	14.0

* Rate is statistically higher than comparison rate, $p < 0.05$.

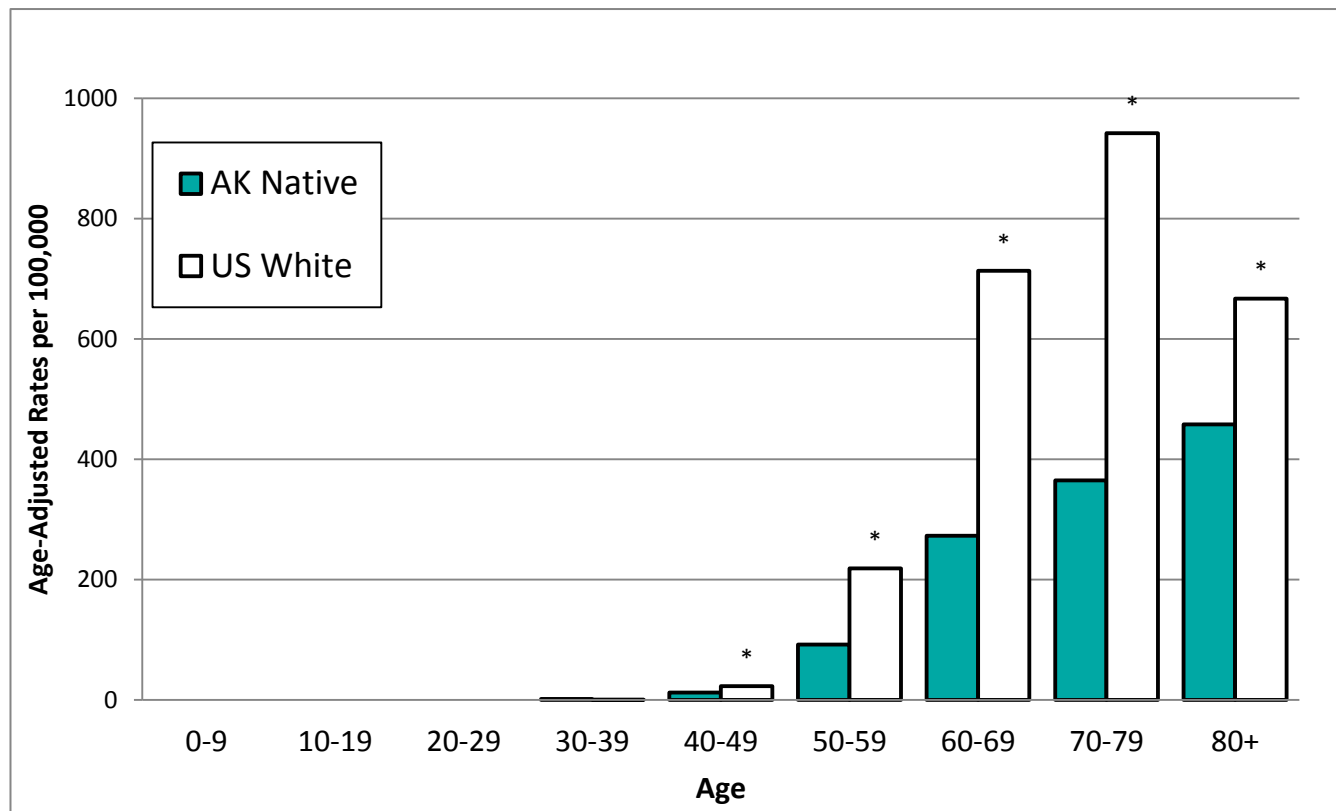
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Pancreas**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.0	0	0.0	0.1	0	0.0	0.0
20-29	0	0.0	0.1	0	0.0	0.1	0	0.0	0.1
30-39	1	1.0	0.8	1	0.9	0.7	2	0.9	0.7
40-49	9	8.0	4.2	8	7.2	2.9	17	7.6 *	3.6
50-59	20	24.2	15.7	20	23.4 *	10.6	40	23.8 *	13.1
60-69	22	52.8	41.7	12	25.3	28.8	34	38.6	34.9
70-79	24	116.3	73.8	19	71.8	59.6	43	91.3	65.9
80+	5	67.8	103.1	11	92.2	87.3	16	82.8	93.1
Total	81	17.0	13.4	71	13.0	10.3	152	14.9 *	11.7

* Rate is statistically higher than comparison rate, $p < 0.05$.

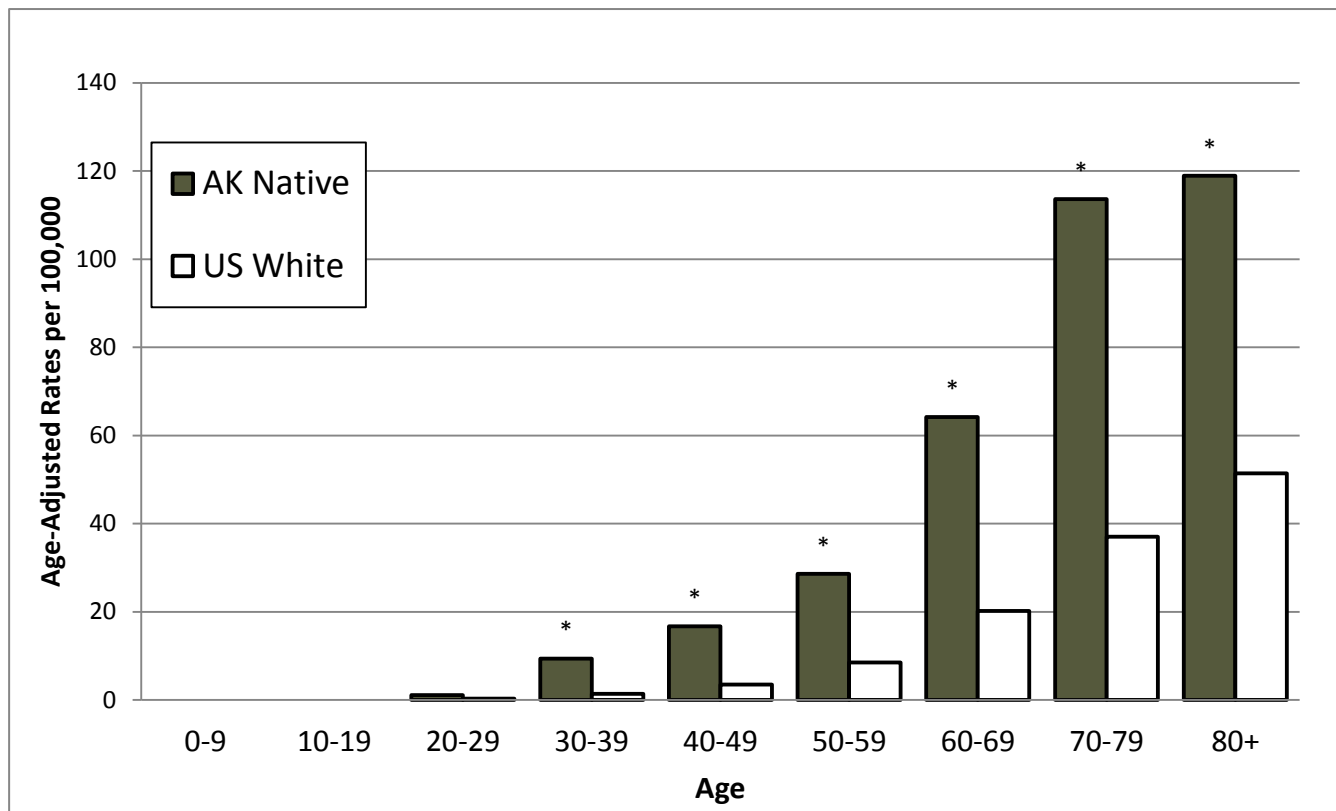
Age-Specific Cancer Incidence Rates **Alaska Native Men and US White Men, 1999-2013** **Prostate**



Men			
Alaska Native			US White
Age	Count	Rate	Rate
0-9	0	0.0	0.0
10-19	0	0.0	0.0
20-29	0	0.0	0.0
30-39	2	1.9	0.5
40-49	14	12.1	22.7 *
50-59	77	92.3	218.9 *
60-69	121	273.2	713.1 *
70-79	78	364.7	942.2 *
80+	35	458.2	667.2 *
Total	327	69.1	157.6 *

* Rate is statistically higher than comparison rate, $p < 0.05$.

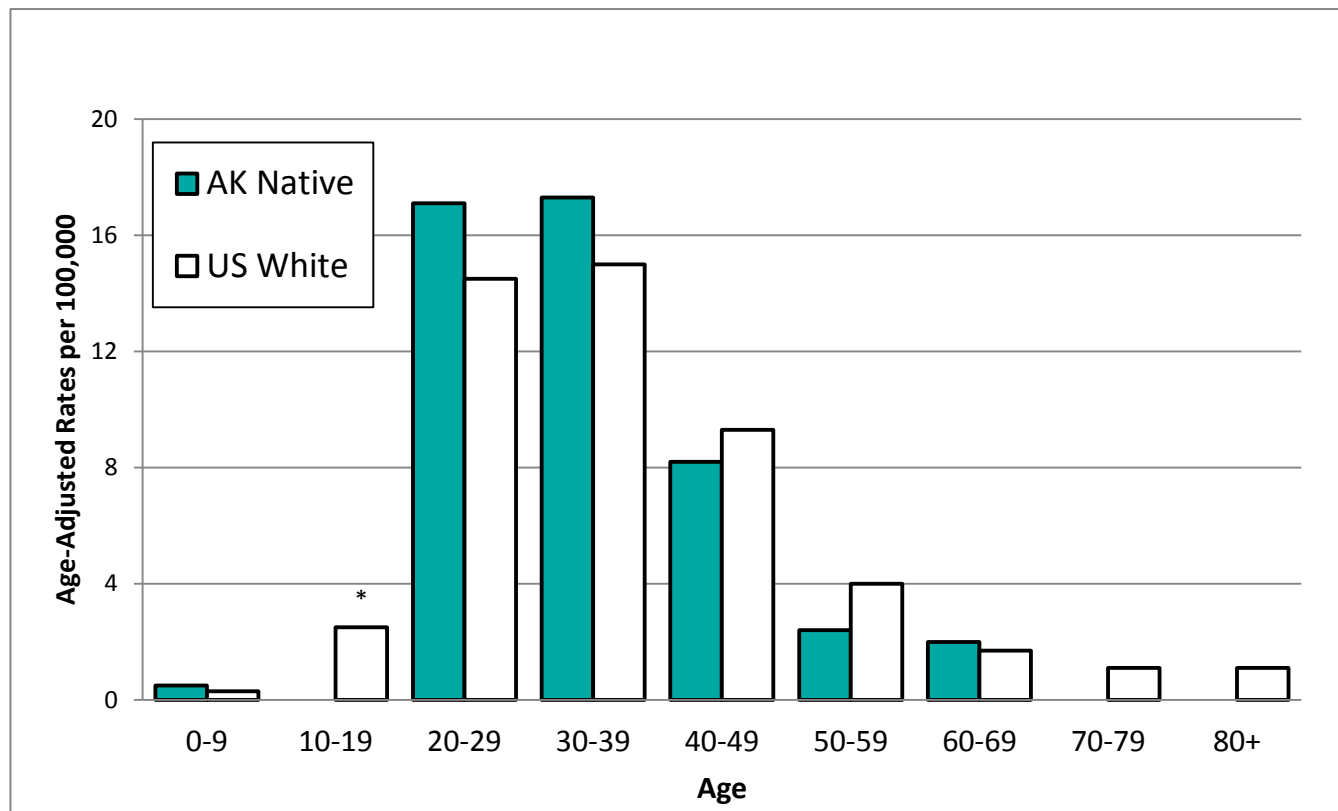
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Stomach**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.0	0	0.0	0.1	0	0.0	0.0
20-29	2	1.5	0.3	1	0.7	0.3	3	1.1	0.3
30-39	7	6.4 *	1.5	13	12.4 *	1.2	20	9.4 *	1.4
40-49	23	20.2 *	4.2	15	13.2 *	2.8	38	16.7 *	3.5
50-59	34	41.0 *	11.4	14	16.4 *	5.6	48	28.6 *	8.5
60-69	31	73.9 *	29.2	26	55.3 *	11.9	57	64.2 *	20.2
70-79	33	155.8 *	53.8	20	78.8 *	23.9	53	113.6 *	37.0
80+	14	197.7 *	74.8	9	74.8	38.3	23	118.9 *	51.4
Total	144	30.0 *	10.0	98	17.0 *	4.8	242	22.6 *	7.1

* Rate is statistically higher than comparison rate, $p < 0.05$.

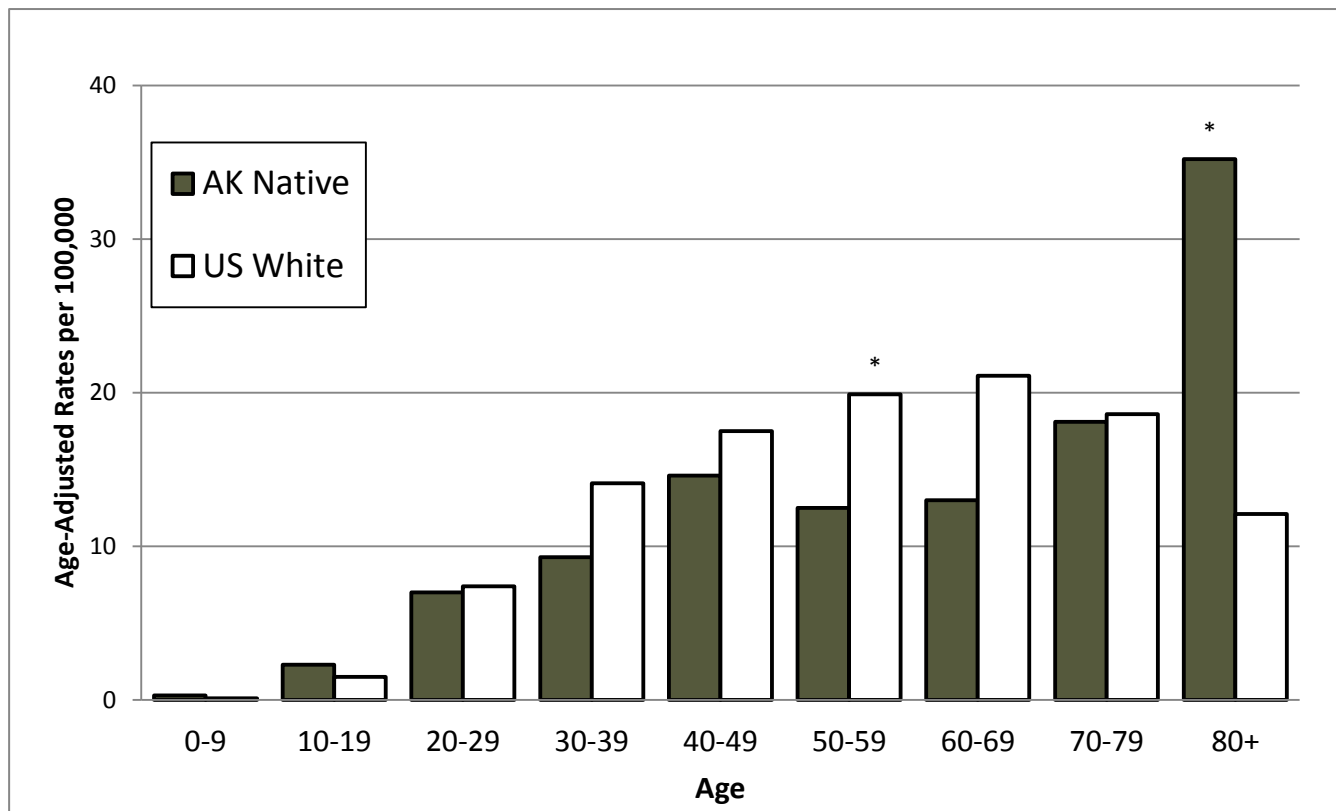
Age-Specific Cancer Incidence Rates **Alaska Native Men and US White Men, 1999-2013** **Testis**



Men			
Alaska Native			US White
Age	Count	Rate	Rate
0-9	1	0.5	0.3
10-19	0	0.0	2.5 *
20-29	22	17.1	14.5
30-39	19	17.3	15.0
40-49	9	8.2	9.3
50-59	2	2.4	4.0
60-69	1	2.0	1.7
70-79	0	0.0	1.1
80+	0	0.0	1.1
Total	54	6.6	6.7

* Rate is statistically higher than comparison rate, $p < 0.05$.

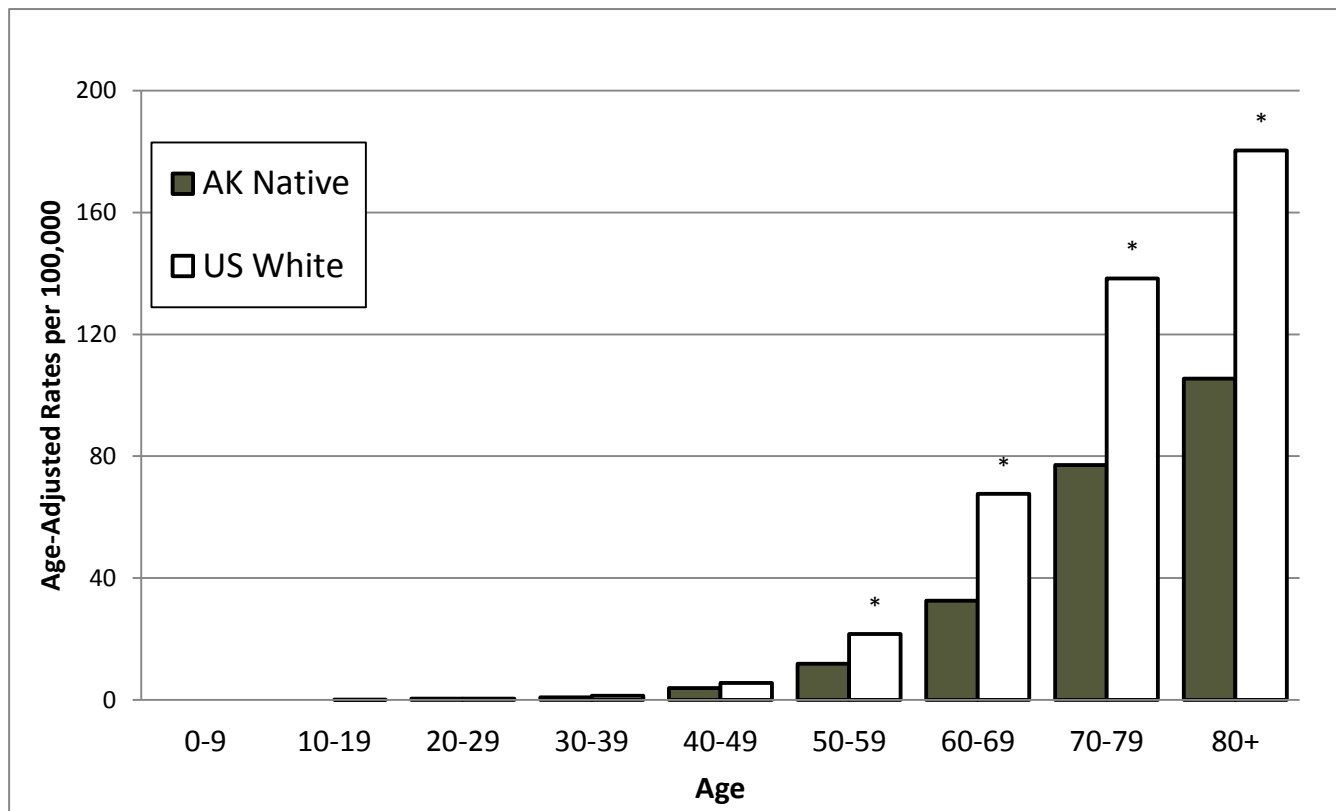
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Thyroid**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	1	0.6	0.1	0	0.0	0.1	1	0.3	0.1
10-19	3	1.6	0.6	5	2.9	2.4	8	2.3	1.5
20-29	1	0.8	2.2	17	13.5	13.0	18	7.0	7.4
30-39	3	2.8	5.3	17	15.7	23.5	20	9.3	14.1
40-49	5	4.6	7.6	27	24.6	27.7	32	14.6	17.5
50-59	5	6.0	11.1	16	18.8	28.6	21	12.5	19.9 *
60-69	5	11.6	14.2	7	14.4	27.3	12	13.0	21.1
70-79	4	19.0	14.2	5	17.8	22.2	9	18.1	18.6
80+	1	16.9	10.1	6	49.3 *	13.2	7	35.2 *	12.1
Total	28	4.8	5.8	100	14.2	16.8	128	9.5	11.3

* Rate is statistically higher than comparison rate, $p < 0.05$.

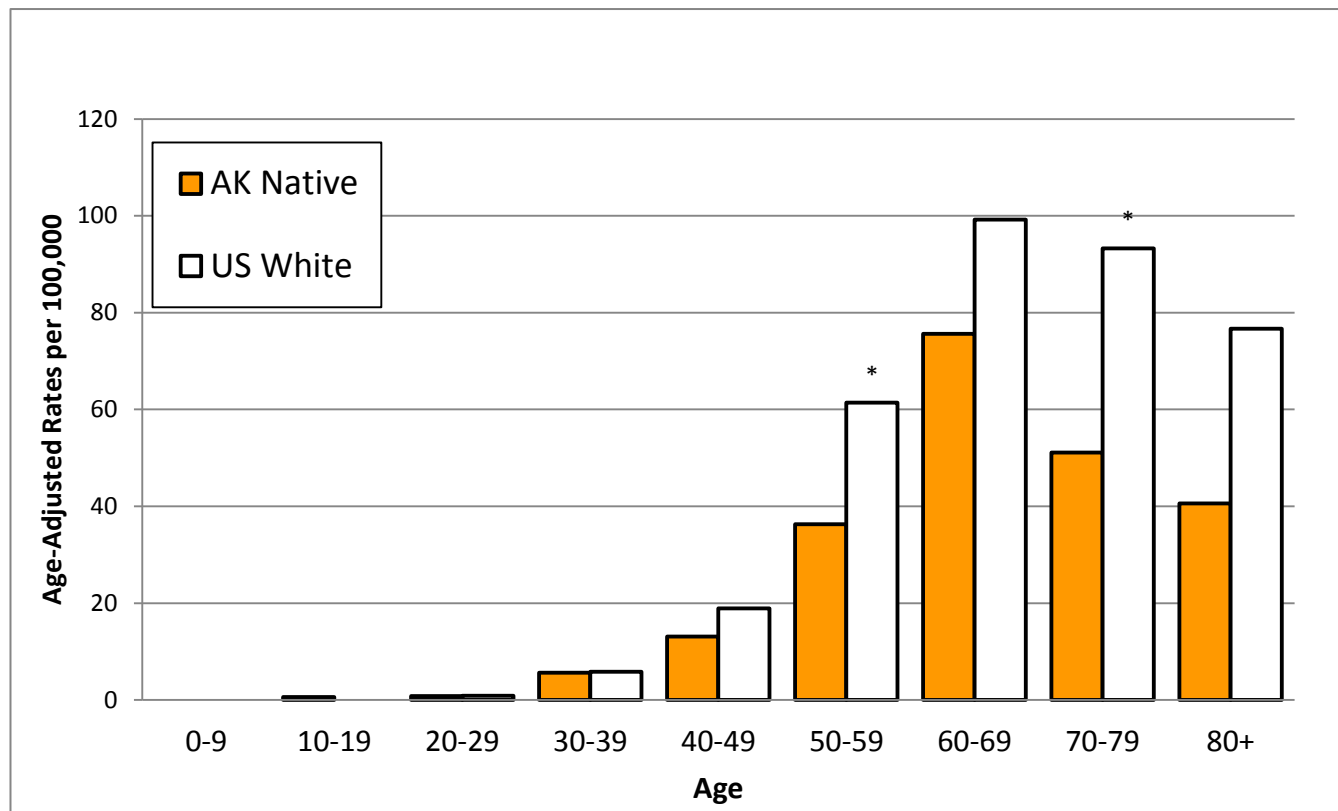
Age-Specific Cancer Incidence Rates **Alaska Native and US White, Men and Women, 1999-2013** **Urinary Bladder**



Men				Women			Men and Women Combined		
Alaska Native		US White		Alaska Native		US White	Alaska Native		US White
Age	Count	Rate	Rate	Count	Rate	Rate	Count	Rate	Rate
0-9	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0
10-19	0	0.0	0.1	0	0.0	0.0	0	0.0	0.1
20-29	0	0.0	0.5	1	0.7	0.3	1	0.4	0.4
30-39	1	0.9	1.9	1	0.9	0.8	2	0.9	1.4
40-49	7	6.1	8.4	2	1.7	2.7	9	3.9	5.6
50-59	14	16.8	33.6 *	6	7.0	9.9	20	11.9	21.6 *
60-69	26	59.0	110.3 *	4	7.8	28.7 *	30	32.6	67.7 *
70-79	28	126.4	243.8 *	9	35.5	55.9	37	77.1	138.3 *
80+	14	192.2	366.3 *	7	56.9	78.2	21	105.5	180.3 *
Total	90	21.1	40.0 *	30	5.8	9.7 *	120	12.5	22.6 *

* Rate is statistically higher than comparison rate, $p < 0.05$.

Age-Specific Cancer Incidence Rates **Alaska Native Women and US White Women, 1999-2013** **Corpus and Uterus**



Women			
Alaska Native			US White
Age	Count	Rate	Rate
0-9	0	0.0	0.0
10-19	1	0.6	0.0
20-29	1	0.8	0.9
30-39	6	5.6	5.8
40-49	15	13.1	18.9
50-59	31	36.3	61.4 *
60-69	36	75.6	99.2
70-79	13	51.1	93.3 *
80+	5	40.6	76.7
Total	108	17.0	26.0 *

* Rate is statistically higher than comparison rate, $p < 0.05$.

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Number of Invasive Cancers Alaska Native Men and Women, 1969-2013

	'69-'73	'74-'78	'79-'83	'84-'88	'89-'93	'94-'98	'99-'03	'04-'08	'09-'13
All Sites	389	488	612	842	1,020	1,309	1,594	1,866	2,123
Oral Cavity and Pharynx	27	34	24	37	47	53	58	53	78
Nasopharynx	12	24	12	18	25	20	24	18	27
Digestive System	143	155	206	268	300	407	523	559	625
Esophagus	7	8	12	12	14	23	24	31	26
Stomach	18	21	32	40	49	59	71	82	89
Colon and Rectum	72	84	105	151	179	243	302	311	368
Colon excluding Rectum	46	61	82	116	144	168	212	226	259
Rectosigmoid Junction	6	8	9	10	9	19	19	25	27
Rectum	20	15	14	25	26	56	71	60	82
Liver	10	13	15	16	14	22	24	33	44
Gallbladder	11	12	12	9	8	7	16	9	11
Other Biliary	5	1	0	8	8	6	12	11	14
Pancreas	13	14	18	26	23	37	49	54	49
Respiratory System	45	72	102	180	181	262	273	335	339
Larynx	0	1	6	5	6	6	12	13	12
Lung and Bronchus	43	69	95	173	174	248	256	319	324
Bones and Joints	4	3	2	7	5	4	5	6	6
Soft Tissue including Heart	3	5	2	4	3	8	9	14	15
Melanoma of the Skin	1	2	1	4	4	7	4	7	24
Other Non-Epithelial Skin	0	0	0	0	4	2	3	6	2
Urinary System	26	28	29	65	57	73	98	118	152
Urinary Bladder	9	7	11	19	12	19	33	41	46
Kidney and Renal Pelvis	17	20	17	46	43	53	63	77	105
Eye and Orbit	1	0	4	1	2	2	1	2	1
Brain & Nervous System	6	7	4	9	6	12	10	26	26
Endocrine System	10	12	13	15	16	18	38	36	62
Thyroid	10	11	11	13	16	17	37	32	59
Lymphoma	8	8	22	19	24	30	48	54	68
Hodgkin Lymphoma	0	1	4	3	5	4	3	3	5
Non-Hodgkin Lymphoma	8	7	18	16	19	26	45	51	63
Myeloma	6	4	6	6	9	6	15	21	15
Leukemia	9	8	8	14	22	30	27	49	50
Lymphocytic Leukemia	3	2	4	3	13	15	12	13	15
Myeloid & Monocytic Leukemia	5	6	3	10	8	14	13	32	28
Acute Myeloid	5	4	2	4	6	11	9	15	17
Chronic Myeloid	0	2	1	5	1	3	4	14	10
Miscellaneous	29	43	42	27	36	24	43	58	74

Number of Invasive Cancers Alaska Native Men, 1969-2013

	'69-'73	'74-'78	'79-'83	'84-'88	'89-'93	'94-'98	'99-'03	'04-'08	'09-'13
All Sites	207	253	318	392	510	628	745	842	957
Oral Cavity and Pharynx	14	22	9	23	34	35	39	32	48
Nasopharynx	9	17	6	12	21	15	17	9	18
Digestive System	77	88	116	138	166	219	261	291	336
Esophagus	6	5	9	8	11	14	19	15	17
Stomach	12	17	25	27	37	40	38	53	53
Colon and Rectum	36	45	49	68	90	126	139	146	186
Colon excluding Rectum	22	29	39	49	75	86	88	95	125
Rectosigmoid Junction	3	6	3	5	4	9	14	17	15
Rectum	11	10	7	14	11	31	37	34	46
Liver	9	10	13	11	10	12	15	22	32
Gallbladder	2	2	5	2	3	4	5	5	3
Other Biliary	2	1	0	7	5	2	7	6	6
Pancreas	8	7	9	13	7	16	27	29	25
Respiratory System	36	58	74	102	115	172	157	191	182
Larynx	0	1	6	1	6	4	8	10	10
Lung and Bronchus	34	55	67	99	109	162	147	179	169
Bones and Joints	4	0	0	4	4	1	4	4	5
Soft Tissue including Heart	3	4	0	2	2	5	4	6	5
Melanoma of the Skin	0	1	1	2	1	2	1	3	9
Other Non-Epithelial Skin	0	0	0	0	2	1	2	3	1
Breast	0	0	1	0	0	0	2	1	2
Male Genital System	23	24	42	40	93	85	127	125	137
Prostate	16	15	35	30	79	73	109	109	109
Testis	4	8	6	8	11	9	17	12	25
Urinary System	15	16	17	37	33	42	69	77	89
Urinary Bladder	7	5	8	14	9	16	26	32	32
Kidney and Renal Pelvis	8	10	9	23	22	25	42	45	57
Eye and Orbit	0	0	3	0	0	1	1	2	1
Brain & Nervous System	2	5	3	5	4	6	6	8	12
Endocrine System	0	5	5	4	1	3	5	14	14
Thyroid	0	4	3	2	1	2	4	12	12
Lymphoma	6	4	17	10	12	13	29	25	38
Hodgkin Lymphoma	0	1	2	1	2	1	2	3	2
Non-Hodgkin Lymphoma	6	3	15	9	10	12	27	22	36
Myeloma	4	4	4	2	6	2	3	9	10
Leukemia	7	5	5	8	12	18	15	26	31
Lymphocytic Leukemia	2	1	2	2	7	8	5	9	7
Myeloid & Monocytic Leukemia	4	4	2	6	4	9	9	16	19
Acute Myeloid	4	3	2	2	2	8	6	7	11
Chronic Myeloid	0	1	0	4	1	1	3	7	8
Miscellaneous	15	17	20	12	22	14	20	23	33

Number of Invasive Cancers Alaska Native Women, 1969-2013

	'69-'73	'74-'78	'79-'83	'84-'88	'89-'93	'94-'98	'99-'03	'04-'08	'09-'13
All Sites	182	235	294	450	510	681	849	1,024	1,166
Oral Cavity and Pharynx	13	12	15	14	13	18	19	21	30
Nasopharynx	3	7	6	6	4	5	7	9	9
Digestive System	66	67	90	130	134	188	262	268	289
Esophagus	1	3	3	4	3	9	5	16	9
Stomach	6	4	7	13	12	19	33	29	36
Colon and Rectum	36	39	56	83	89	117	163	165	182
Colon excluding Rectum	24	32	43	67	69	82	124	131	134
Rectosigmoid Junction	3	2	6	5	5	10	5	8	12
Rectum	9	5	7	11	15	25	34	26	36
Liver	1	3	2	5	4	10	9	11	12
Gallbladder	9	10	7	7	5	3	11	4	8
Other Biliary	3	0	0	1	3	4	5	5	8
Pancreas	5	7	9	13	16	21	22	25	24
Respiratory System	9	14	28	78	66	90	116	144	157
Larynx	0	0	0	4	0	2	4	3	2
Lung and Bronchus	9	14	28	74	65	86	109	140	155
Bones and Joints	0	3	2	3	1	3	1	2	1
Soft Tissue including Heart	0	1	2	2	1	3	5	8	10
Melanoma of the Skin	1	1	0	2	3	5	3	4	15
Other Non-Epithelial Skin	0	0	0	0	2	1	1	3	1
Breast	25	41	50	95	136	218	250	285	328
Female Genital System	22	42	53	48	72	58	60	108	115
Cervix Uteri	10	27	38	28	30	17	19	28	24
Corpus and Uterus, NOS	3	3	4	6	15	16	24	38	46
Ovary	8	10	8	11	20	21	12	31	25
Urinary System	11	12	12	28	24	31	29	41	63
Urinary Bladder	2	2	3	5	3	3	7	9	14
Kidney and Renal Pelvis	9	10	8	23	21	28	21	32	48
Eye and Orbit	1	0	1	1	2	1	0	0	0
Brain & Nervous System	4	2	1	4	2	6	4	18	14
Endocrine System	10	7	8	11	15	15	33	22	48
Thyroid	10	7	8	11	15	15	33	20	47
Lymphoma	2	4	5	9	12	17	19	29	30
Hodgkin Lymphoma	0	0	2	2	3	3	1	0	3
Non-Hodgkin Lymphoma	2	4	3	7	9	14	18	29	27
Myeloma	2	0	2	4	3	4	12	12	5
Leukemia	2	3	3	6	10	12	12	23	19
Lymphocytic Leukemia	1	1	2	1	6	7	7	4	8
Myeloid & Monocytic Leukemia	1	2	1	4	4	5	4	16	9
Acute Myeloid	1	1	0	2	4	3	3	8	6
Chronic Myeloid	0	1	1	1	0	2	1	7	2
Miscellaneous	14	26	22	15	14	10	23	35	41

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Average Annual Age-Adjusted Cancer Incidence Rates Alaska Native Men and Women, 1969-2013

	'69-'73	'74-'78	'79-'83	'84-'88	'89-'93	'94-'98	'99-'03	'04-'08	'09-'13
All Sites	372.7	371.1	416.5	467.6	467.1	491.8	517.4	511.8	504.5
Oral Cavity and Pharynx	19.7	21.0	14.5	19.8	21.2	18.8	17.8	12.9	17.2
Nasopharynx	9.9	14.8	6.5	9.3	10.6	7.9	7.7	4.1	6.9
Digestive System	162.9	131.5	149.6	164.0	151.3	165.7	184.4	159.4	151.9
Esophagus	9.5	7.3	9.8	7.5	7.2	9.6	9.1	9.0	5.7
Stomach	21.0	14.1	22.2	22.7	20.3	19.7	25.4	22.0	21.2
Colon and Rectum	81.7	77.2	80.8	98.5	95.5	103.8	106.2	89.1	90.9
Colon excluding Rectum	55.0	56.0	61.2	75.7	79.1	76.0	76.4	67.3	65.9
Rectosigmoid Junction	8.0	5.9	6.3	7.2	4.5	6.7	5.9	6.7	6.0
Rectum	18.8	15.3	13.3	15.7	11.9	21.1	23.9	15.0	19.1
Liver	7.4	7.3	7.0	7.7	5.0	7.4	8.1	9.0	9.3
Gallbladder	17.2	12.3	9.2	6.2	3.7	3.6	6.4	3.0	2.9
Other Biliary	4.9	0.6	0.0	4.9	3.8	2.2	4.4	3.7	3.9
Pancreas	12.8	10.9	11.8	13.2	13.3	15.5	15.9	16.6	12.7
Respiratory System	39.6	56.0	67.9	100.7	93.0	106.1	97.7	103.5	91.2
Larynx	0.0	0.6	3.2	1.9	2.6	2.2	3.5	3.2	3.0
Lung and Bronchus	38.2	54.1	64.1	97.5	90.0	101.0	92.1	99.1	87.5
Bones and Joints	3.5	2.3	0.4	2.6	1.4	0.9	1.4	1.2	0.7
Soft Tissue including Heart	3.4	2.6	2.2	2.1	0.7	1.8	1.9	3.3	3.1
Melanoma of the Skin	0.7	1.3	0.4	2.1	1.5	1.7	1.1	1.4	5.4
Other Non-Epithelial Skin	0.0	0.0	0.0	0.0	1.5	0.9	1.3	1.6	0.3
Urinary System	23.8	21.0	23.3	40.5	26.8	29.2	33.3	34.2	36.5
Urinary Bladder	9.2	7.7	9.4	11.1	6.2	7.7	12.6	12.3	12.8
Kidney and Renal Pelvis	14.7	12.3	13.3	29.4	19.5	20.8	20.0	21.9	23.4
Eye and Orbit	0.2	0.0	1.0	0.1	0.2	0.3	0.3	1.0	0.1
Brain & Nervous System	1.9	2.8	1.7	2.2	1.4	2.2	2.4	5.3	4.8
Endocrine System	4.4	7.1	6.4	6.1	4.6	4.7	8.3	7.7	13.0
Thyroid	4.4	6.5	5.3	5.5	4.6	4.5	8.1	6.9	12.7
Lymphoma	7.3	6.2	15.2	9.0	8.8	9.7	13.1	14.8	15.2
Hodgkin Lymphoma	0.0	0.2	2.0	0.9	1.0	1.0	0.7	0.5	0.8
Non-Hodgkin Lymphoma	7.3	6.0	13.2	8.1	7.7	8.7	12.4	14.4	14.5
Myeloma	4.2	3.6	3.9	3.1	4.2	2.1	4.6	5.0	4.0
Leukemia	7.5	4.0	3.7	5.2	4.7	7.9	5.6	11.2	9.1
Lymphocytic Leukemia	2.0	2.1	2.2	0.6	2.0	2.5	2.3	2.5	2.2
Myeloid & Monocytic Leukemia	5.3	1.9	1.4	4.1	2.6	5.0	2.9	7.9	5.5
Acute Myeloid	5.3	1.1	1.2	1.6	2.2	4.0	1.9	3.9	3.2
Chronic Myeloid	0.0	0.8	0.2	1.4	0.2	1.0	1.0	3.3	2.1
Miscellaneous	35.6	37.5	39.6	18.0	18.3	8.6	16.6	18.8	19.4

Rates are per 100,000 and age-adjusted to the 2000 US standard population

Average Annual Age-Adjusted Cancer Incidence Rates Alaska Native Men, 1969-2013

	'69-'73	'74-'78	'79-'83	'84-'88	'89-'93	'94-'98	'99-'03	'04-'08	'09-'13
All Sites	438.1	382.7	463.0	474.3	531.8	534.9	554.3	514.4	497.7
Oral Cavity and Pharynx	23.1	26.3	9.4	24.2	32.5	27.6	24.3	15.9	22.8
Nasopharynx	17.0	20.3	6.5	13.2	19.1	13.5	10.3	4.1	9.8
Digestive System	191.9	139.0	171.5	181.1	177.8	192.3	208.4	173.9	172.6
Esophagus	18.2	10.3	15.2	11.7	13.6	12.4	16.3	8.2	7.5
Stomach	33.8	21.4	32.8	33.2	32.3	28.3	32.8	31.7	27.1
Colon and Rectum	92.4	74.5	82.7	96.3	103.4	115.5	107.3	87.3	98.6
Colon excluding Rectum	61.3	45.2	68.2	70.6	89.6	85.9	70.9	60.3	69.6
Rectosigmoid Junction	12.0	8.1	2.6	5.4	3.7	6.2	8.9	9.6	7.0
Rectum	19.1	21.3	11.9	20.2	10.2	23.4	27.5	17.5	22.0
Liver	10.3	11.6	13.6	9.0	8.2	9.8	11.5	12.7	13.9
Gallbladder	12.1	6.2	9.2	2.7	3.7	5.1	5.8	3.4	1.9
Other Biliary	6.2	1.3	0.0	10.0	5.0	1.7	5.8	4.2	3.0
Pancreas	16.0	12.3	10.5	14.6	7.7	15.4	21.0	18.6	13.1
Respiratory System	65.5	89.6	100.3	120.2	129.0	146.9	122.1	130.6	108.5
Larynx	0.0	1.2	6.5	0.8	5.5	2.8	5.0	5.3	5.9
Lung and Bronchus	62.7	85.9	92.7	116.6	123.6	139.7	115.1	123.1	101.3
Bones and Joints	6.5	0.0	0.0	2.6	2.4	0.2	2.8	1.3	1.2
Soft Tissue including Heart	8.1	3.0	0.0	1.9	1.0	2.3	1.1	2.3	2.7
Melanoma of the Skin	0.0	1.2	0.9	0.7	0.4	1.0	0.6	1.2	4.3
Other Non-Epithelial Skin	0.0	0.0	0.0	0.0	2.1	0.9	1.9	1.6	0.3
Breast	0.0	0.0	1.2	0.0	0.0	0.0	1.0	0.7	0.7
Male Genital System	48.6	43.0	65.9	51.8	100.9	81.7	93.1	75.6	70.5
Prostate	40.2	35.7	61.7	46.5	93.4	74.3	86.1	67.9	59.7
Testis	3.6	6.0	3.9	3.5	4.5	3.8	6.6	4.0	9.0
Urinary System	31.4	24.1	29.8	46.8	35.9	38.3	52.2	48.2	47.2
Urinary Bladder	17.5	9.3	13.1	15.1	10.3	14.3	22.3	21.0	20.5
Kidney and Renal Pelvis	13.9	12.7	16.7	31.7	23.4	22.4	29.3	27.2	26.7
Eye and Orbit	0.0	0.0	1.6	0.0	0.0	0.2	0.6	2.2	0.2
Brain & Nervous System	1.0	4.9	2.2	2.5	1.6	2.6	3.5	3.8	4.8
Endocrine System	0.0	6.3	7.0	3.0	0.4	1.7	2.2	7.6	5.8
Thyroid	0.0	5.2	4.7	1.8	0.4	1.5	1.8	7.0	5.4
Lymphoma	10.6	6.1	24.7	11.5	9.5	10.4	15.1	14.7	17.1
Hodgkin Lymphoma	0.0	0.4	1.9	0.4	0.9	0.5	1.1	0.9	0.5
Non-Hodgkin Lymphoma	10.6	5.7	22.8	11.2	8.6	9.9	14.1	13.7	16.6
Myeloma	5.3	7.1	5.8	2.7	5.4	1.5	2.0	4.2	5.7
Leukemia	10.9	6.2	3.5	4.8	5.1	11.3	5.9	13.9	12.8
Lymphocytic Leukemia	3.5	4.1	0.7	0.7	1.9	2.6	1.2	3.7	2.0
Myeloid & Monocytic Leukemia	7.0	2.0	2.4	4.1	2.9	8.0	4.4	9.7	8.4
Acute Myeloid	7.0	1.6	2.4	2.2	2.2	7.3	2.8	4.9	4.6
Chronic Myeloid	0.0	0.4	0.0	1.9	0.3	0.6	1.6	3.6	3.8
Miscellaneous	32.7	26.0	38.7	14.0	24.8	11.3	17.3	15.7	17.6

Rates are per 100,000 and age-adjusted to the 2000 US standard population

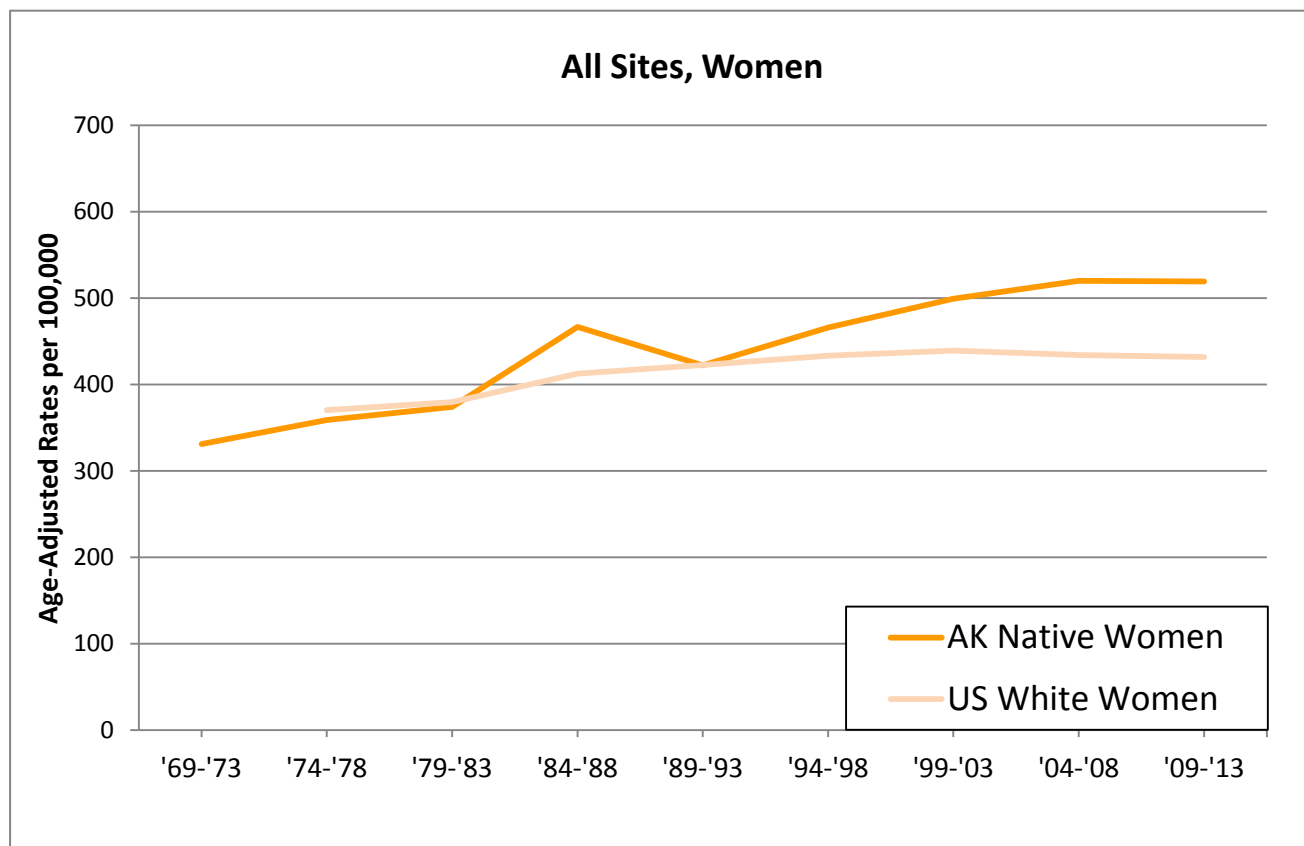
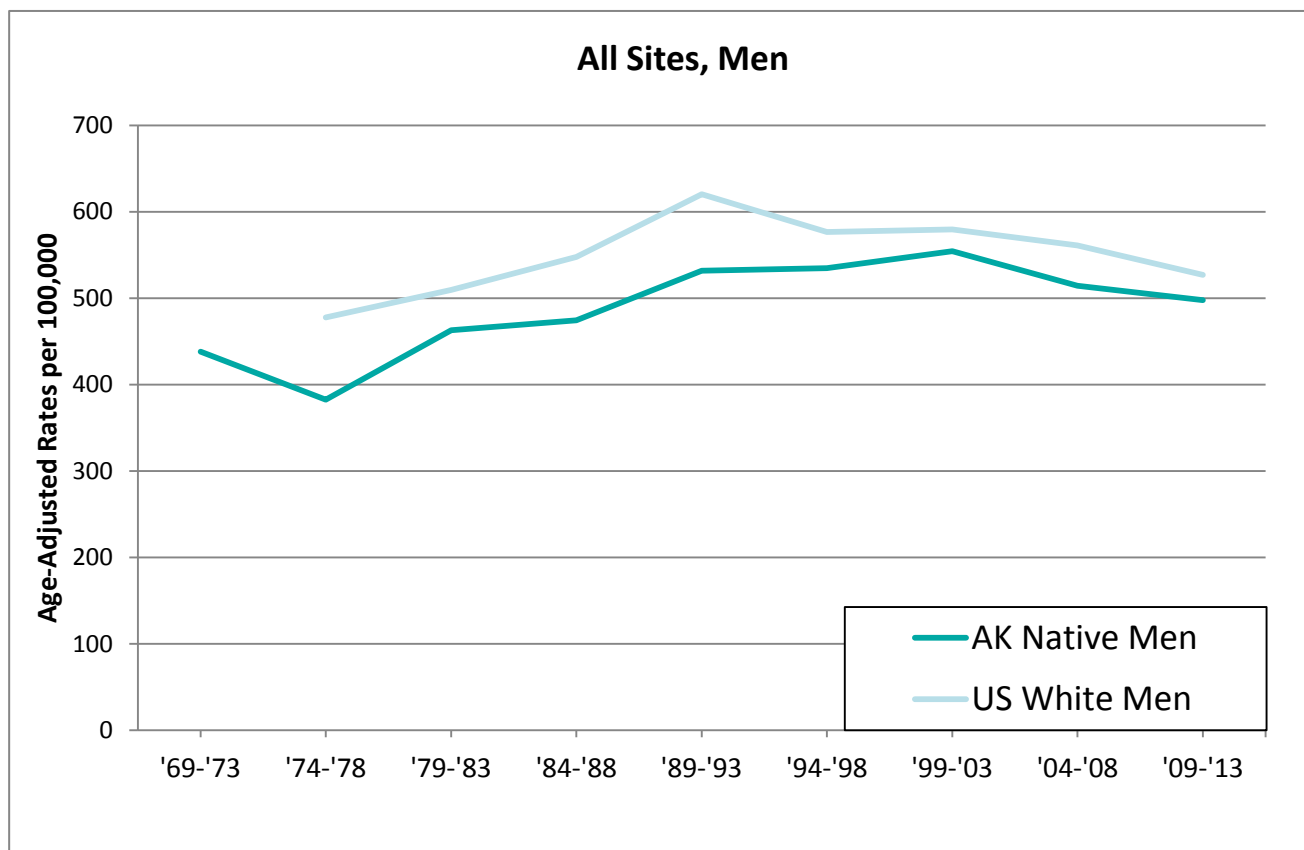
Average Annual Age-Adjusted Cancer Incidence Rates Alaska Native Women, 1969-2013

	'69-'73	'74-'78	'79-'83	'84-'88	'89-'93	'94-'98	'99-'03	'04-'08	'09-'13
All Sites	331.1	358.7	374.1	466.5	422.2	465.8	499.1	519.9	519.1
Oral Cavity and Pharynx	17.7	15.3	19.3	15.1	11.3	11.4	11.7	10.4	12.7
Nasopharynx	4.3	9.0	6.4	5.7	3.1	3.4	5.0	4.1	4.5
Digestive System	149.6	123.4	129.1	150.3	129.2	144.3	168.7	147.2	134.9
Esophagus	1.9	4.7	4.7	3.9	2.2	7.2	3.4	9.3	4.0
Stomach	12.4	6.0	11.5	13.5	9.7	11.7	20.7	14.9	16.3
Colon and Rectum	79.8	79.0	80.1	101.2	88.5	94.1	106.0	90.2	85.5
Colon excluding Rectum	54.6	65.6	56.0	81.3	70.2	68.4	81.9	73.3	64.1
Rectosigmoid Junction	6.5	3.6	9.7	8.0	5.1	7.0	2.9	4.2	5.0
Rectum	18.6	9.7	14.5	11.9	13.2	18.7	21.2	12.8	16.5
Liver	3.4	3.0	0.8	6.4	2.5	5.8	5.6	5.8	5.3
Gallbladder	25.4	18.7	9.5	8.9	3.9	2.4	7.7	2.6	3.7
Other Biliary	4.6	0.0	0.0	0.6	2.7	2.7	3.6	3.2	4.4
Pancreas	9.6	9.9	12.8	12.4	18.3	16.2	12.5	14.8	11.9
Respiratory System	15.8	21.3	36.3	83.4	63.5	70.7	77.5	82.3	77.3
Larynx	0.0	0.0	0.0	3.0	0.0	1.7	2.1	1.4	0.6
Lung and Bronchus	15.8	21.3	36.3	80.4	62.8	67.5	73.3	80.5	76.7
Bones and Joints	0.0	4.2	0.8	2.5	0.3	1.6	0.4	1.2	0.3
Soft Tissue including Heart	0.0	2.2	4.2	2.3	0.4	1.3	2.5	3.8	3.5
Melanoma of the Skin	1.4	1.3	0.0	3.3	2.4	2.4	1.5	1.6	6.5
Other Non-Epithelial Skin	0.0	0.0	0.0	0.0	1.1	0.9	0.9	1.6	0.4
Breast	37.8	53.2	56.1	90.0	103.5	142.1	131.8	131.7	139.3
Female Genital System	30.3	54.6	50.9	36.8	51.3	34.1	32.0	49.9	49.0
Cervix Uteri	12.5	36.1	34.3	18.1	17.5	8.4	9.5	11.4	9.8
Corpus and Uterus, NOS	3.5	2.9	3.8	5.7	11.5	10.5	13.2	17.6	19.4
Ovary	11.0	11.8	10.3	10.8	15.7	12.9	6.7	15.6	10.6
Urinary System	18.2	17.5	17.1	34.7	19.3	22.3	18.3	22.2	27.7
Urinary Bladder	2.9	5.6	5.7	7.0	2.9	2.2	5.5	5.1	6.8
Kidney and Renal Pelvis	15.4	11.9	10.3	27.7	16.4	20.1	12.1	17.1	20.3
Eye and Orbit	0.4	0.0	0.4	0.2	0.5	0.3	0.0	0.0	0.0
Brain & Nervous System	2.7	0.8	1.1	1.8	1.2	2.0	1.4	6.9	5.0
Endocrine System	9.1	8.0	5.9	9.0	8.5	7.7	14.2	8.6	19.8
Thyroid	9.1	8.0	5.9	9.0	8.5	7.7	14.2	7.7	19.5
Lymphoma	5.3	6.3	6.3	7.2	8.5	9.6	10.6	15.1	13.3
Hodgkin Lymphoma	0.0	0.0	2.1	1.4	1.2	1.4	0.4	0.0	1.1
Non-Hodgkin Lymphoma	5.3	6.3	4.2	5.8	7.2	8.1	10.2	15.1	12.3
Myeloma	2.8	0.0	2.1	3.5	3.1	2.7	7.0	5.6	2.5
Leukemia	3.5	2.2	3.9	5.4	4.5	5.4	5.1	9.5	6.1
Lymphocytic Leukemia	0.4	0.4	3.4	0.6	2.1	2.5	3.2	1.5	2.3
Myeloid & Monocytic Leukemia	3.1	1.8	0.4	3.9	2.4	3.0	1.4	7.0	3.2
Acute Myeloid	3.1	0.5	0.0	1.2	2.4	1.7	1.0	3.5	2.2
Chronic Myeloid	0.0	1.3	0.4	0.8	0.0	1.2	0.4	3.1	0.7
Miscellaneous	36.3	48.5	40.5	20.9	13.4	6.4	15.6	21.7	20.6

Rates are per 100,000 and age-adjusted to the 2000 US standard population

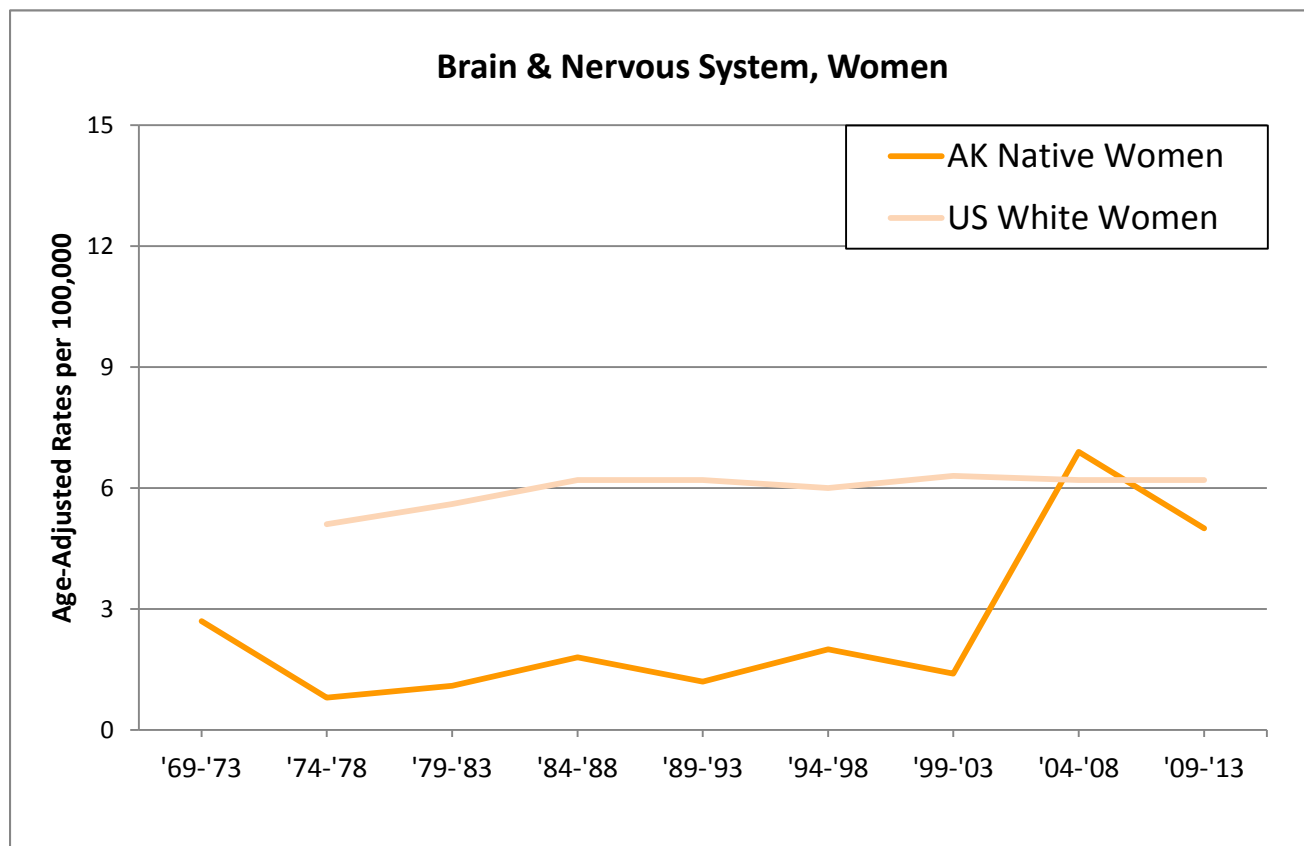
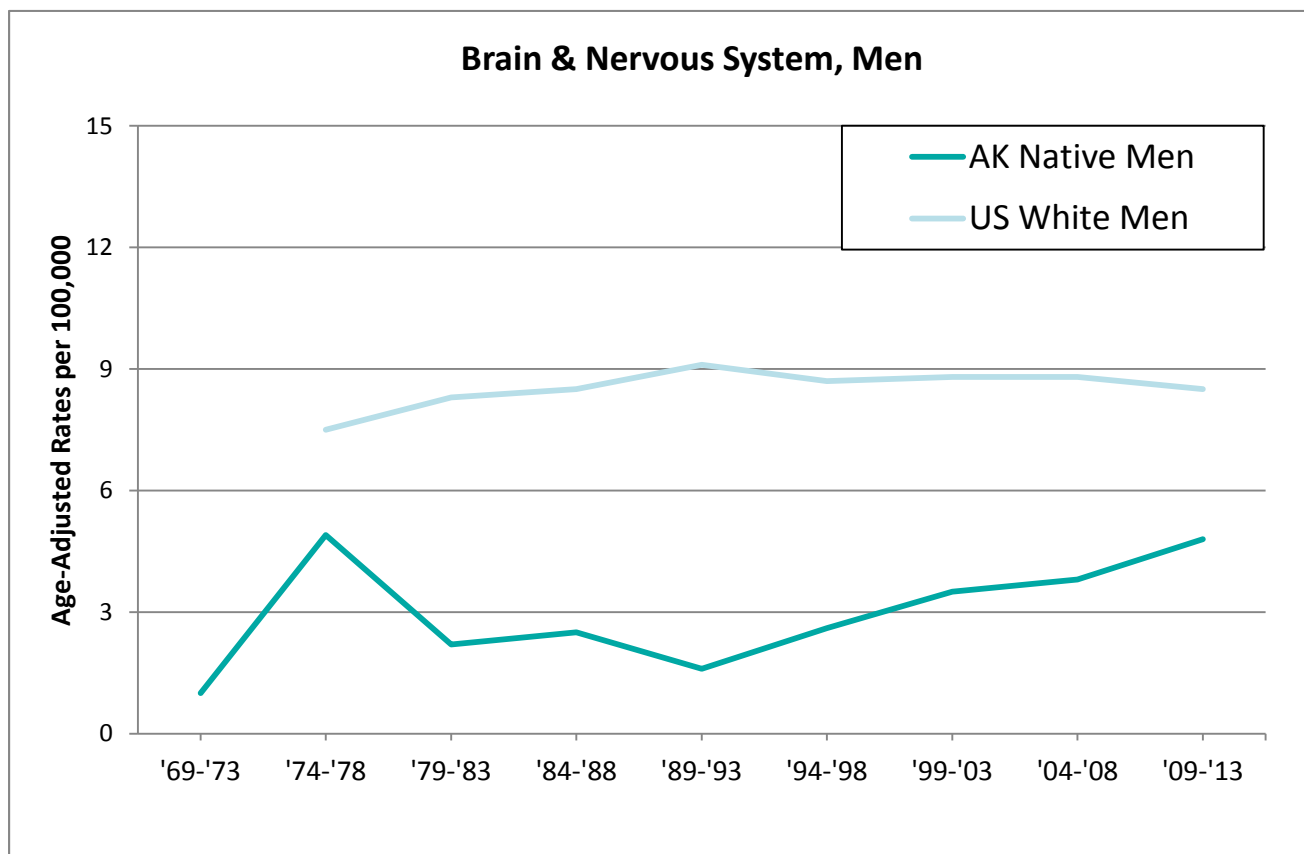
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Five Year Average Annual Cancer Incidence Rates Alaska Native People (1969-2013) and US Whites (1974-2013)



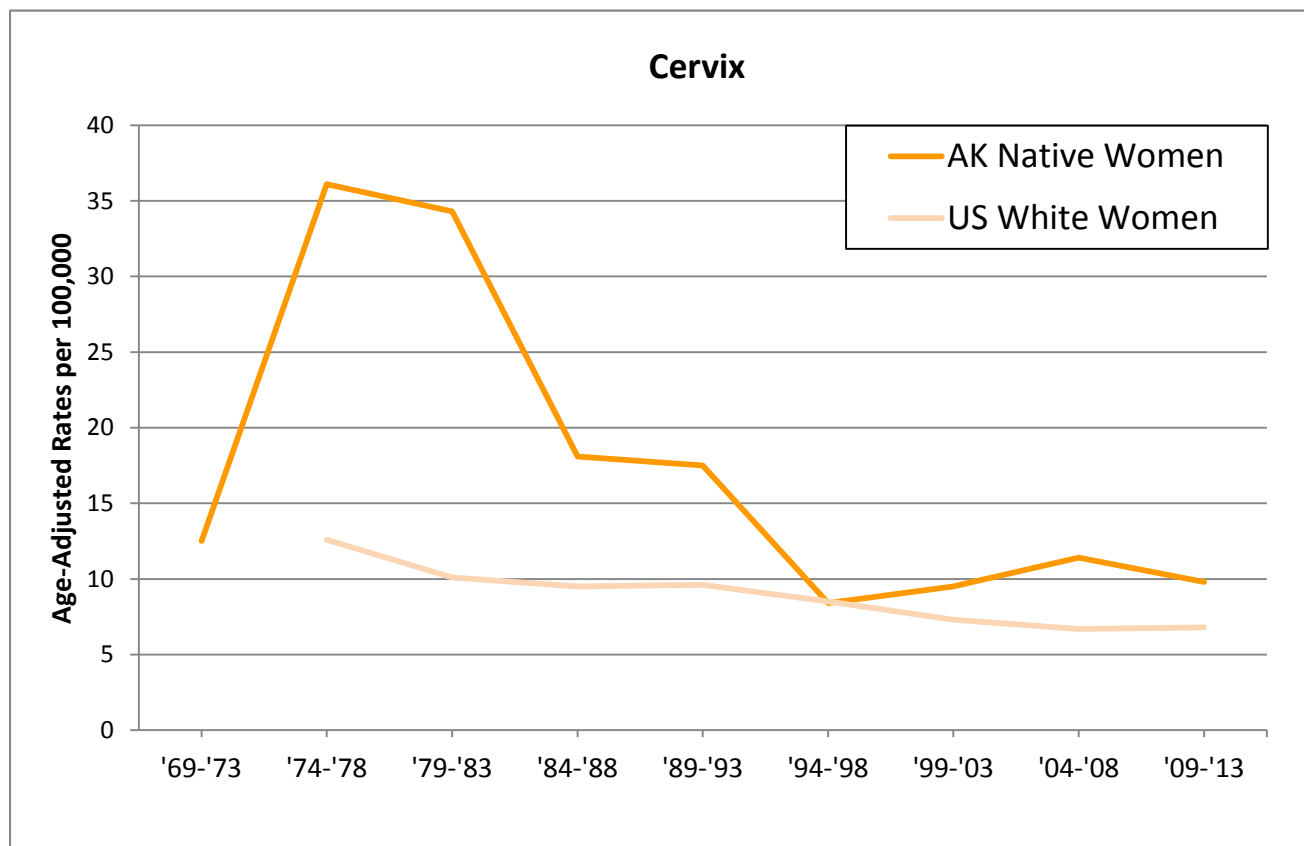
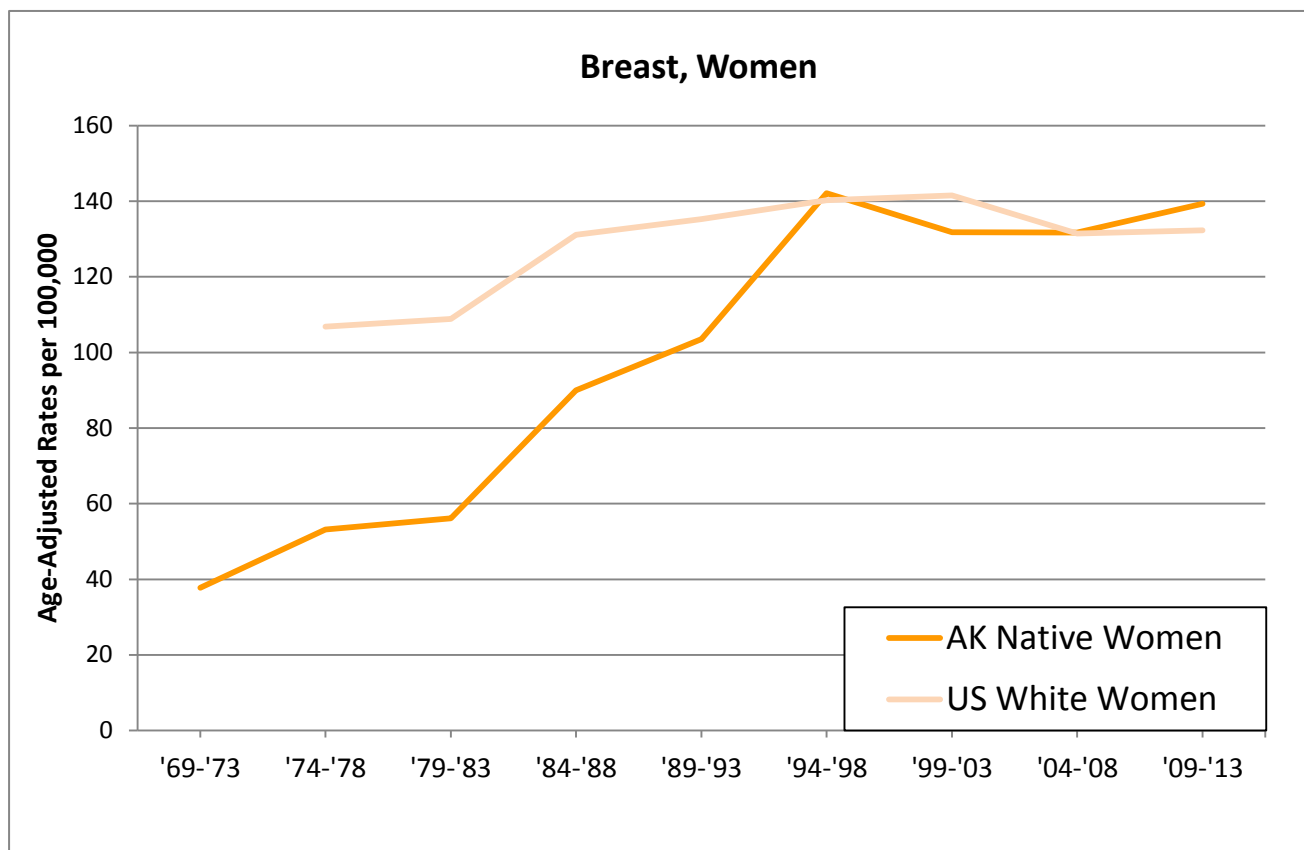
Five year average annual rates are age-adjusted to the Census 2000 US Standard population

Five Year Average Annual Cancer Incidence Rates **Alaska Native People (1969-2013) and US Whites (1974-2013)**



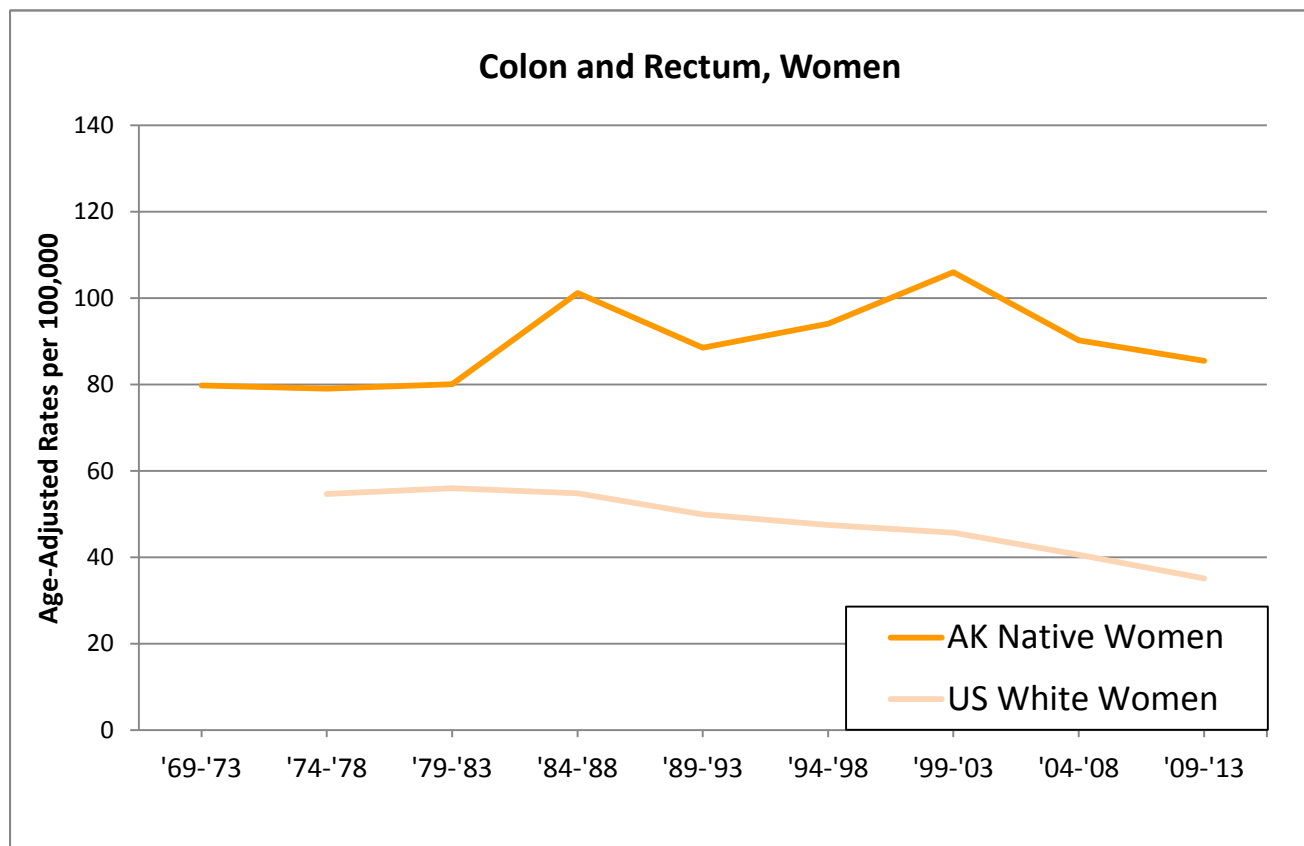
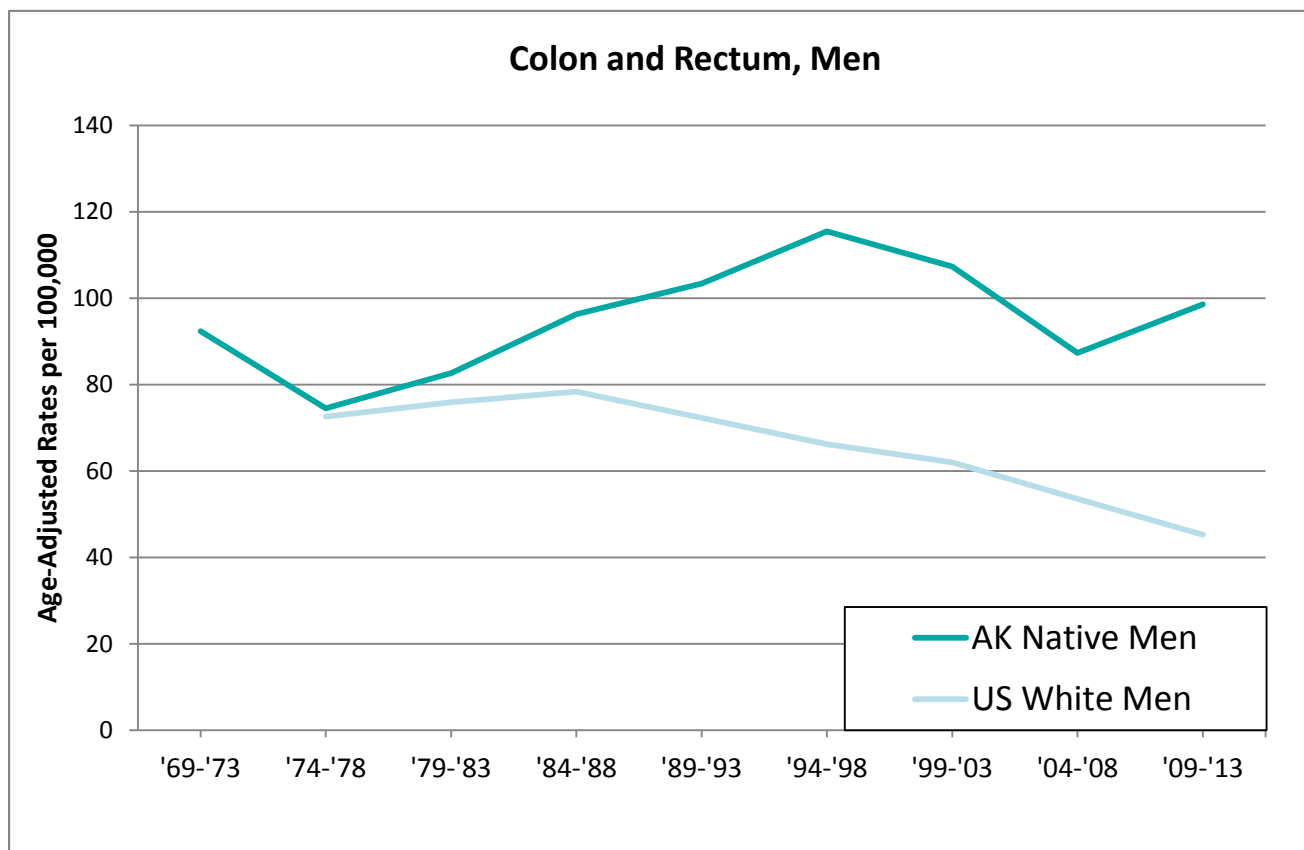
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Five Year Average Annual Cancer Incidence Rates Alaska Native People (1969-2013) and US Whites (1974-2013)



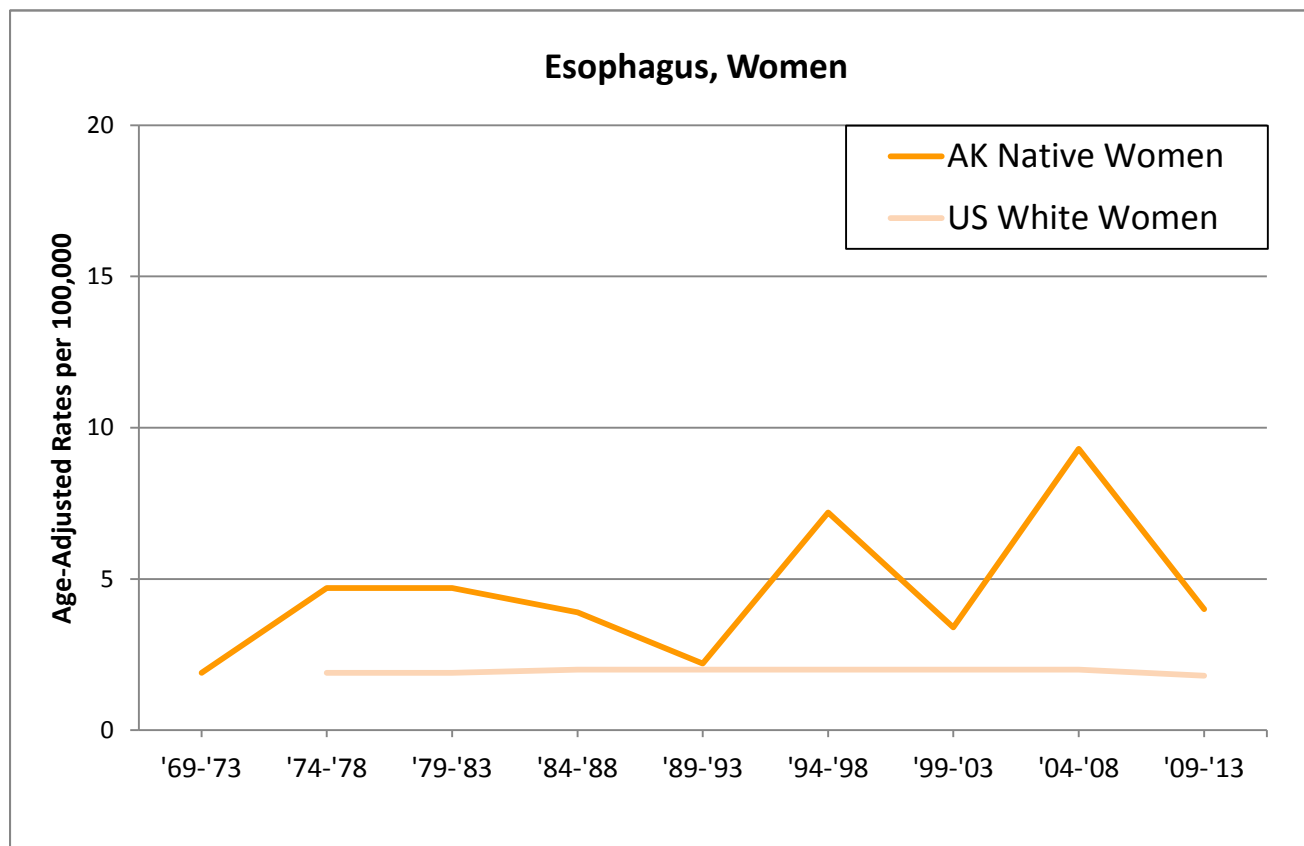
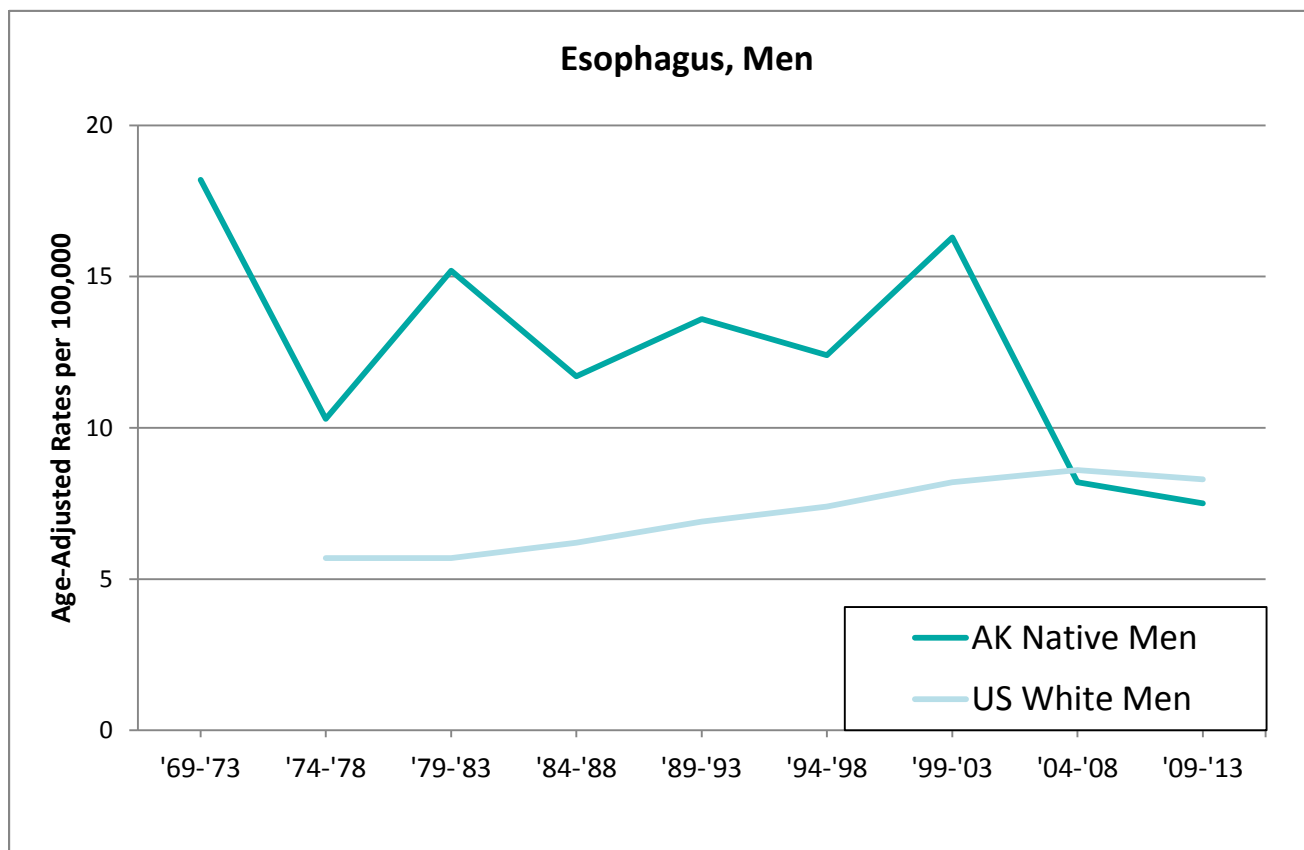
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Five Year Average Annual Cancer Incidence Rates **Alaska Native People (1969-2013) and US Whites (1974-2013)**



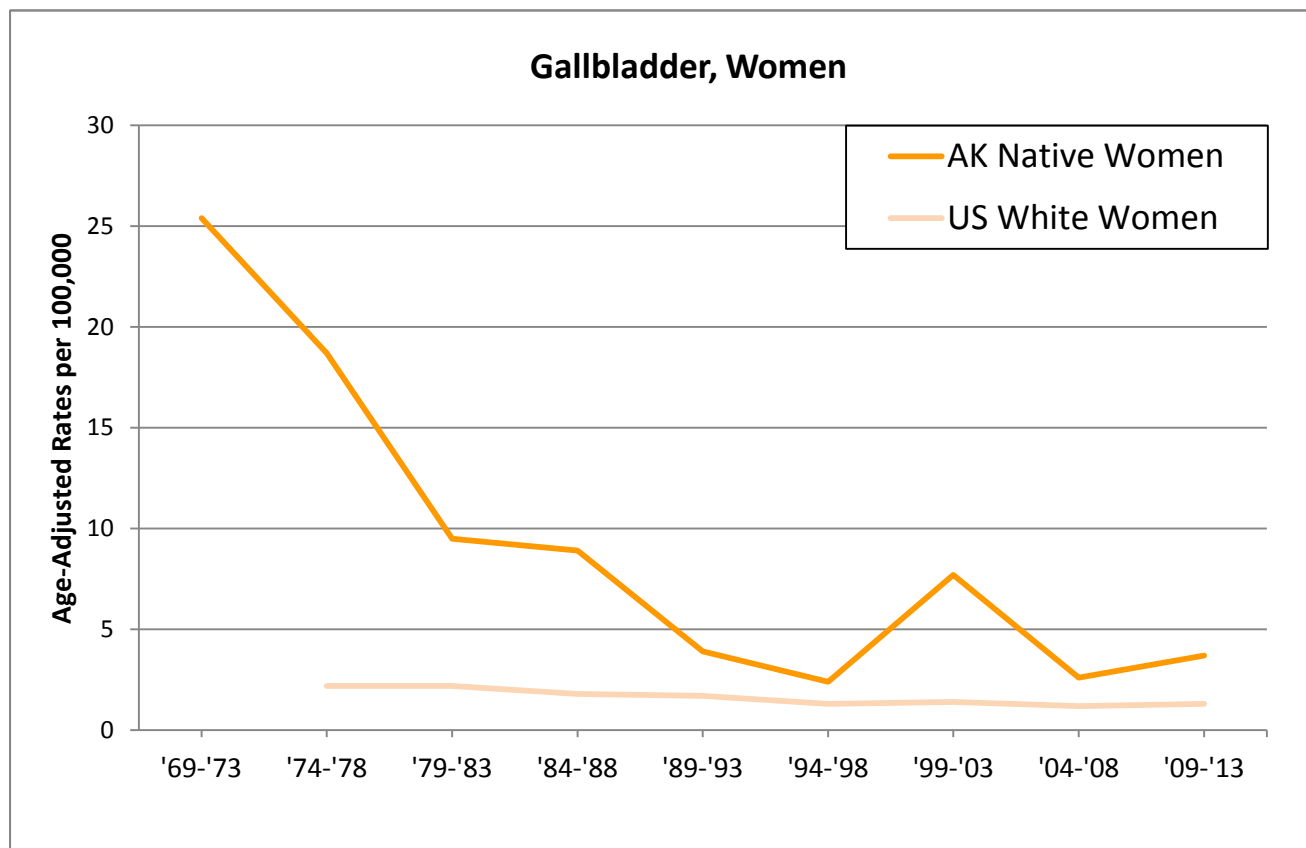
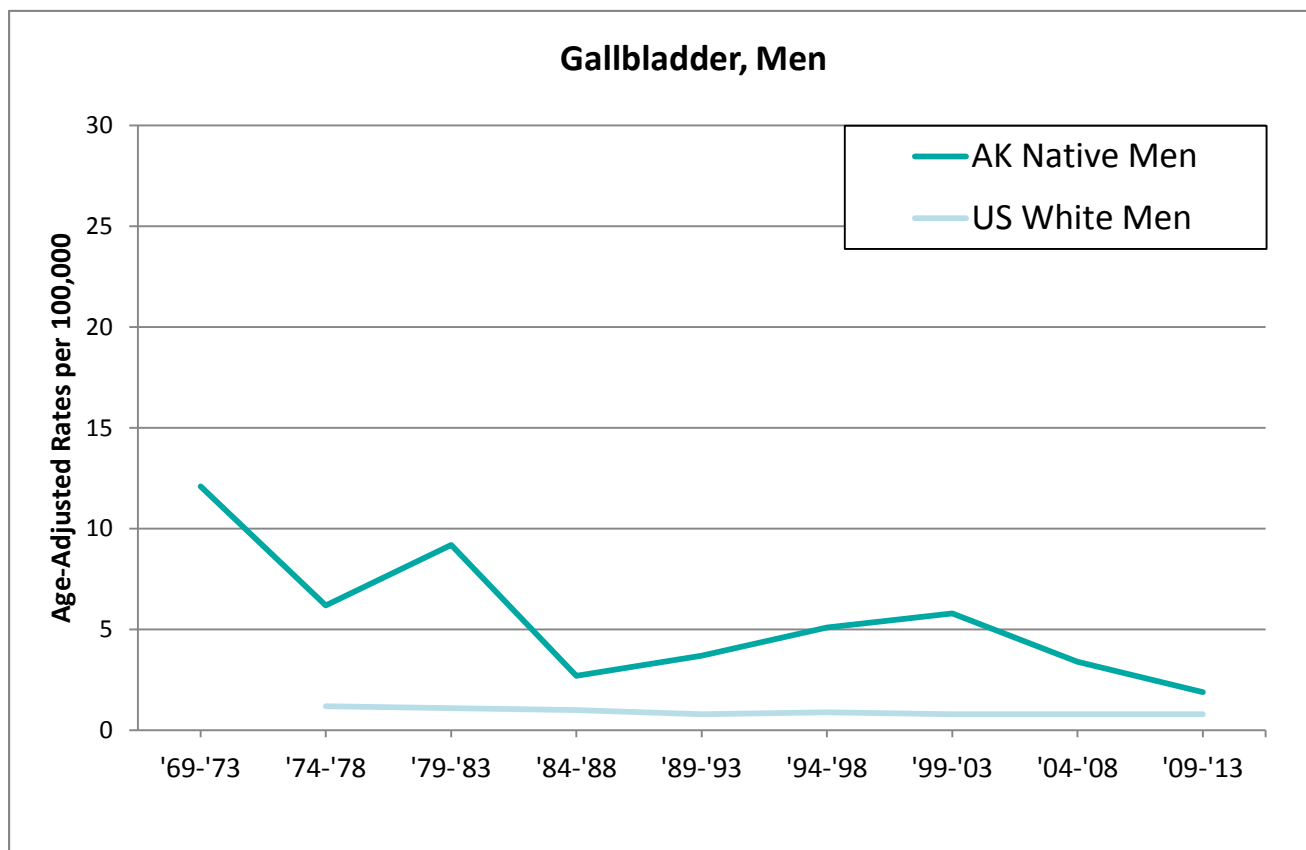
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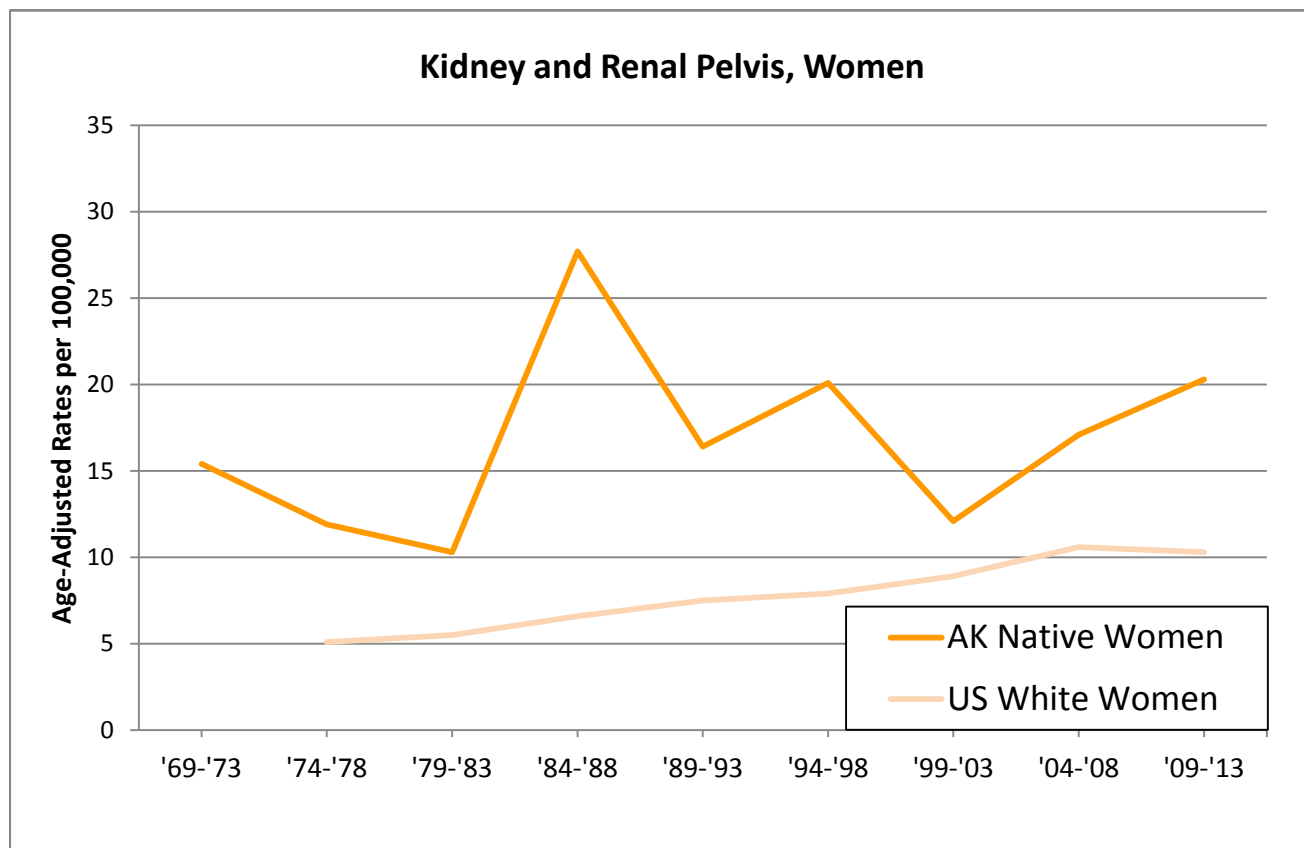
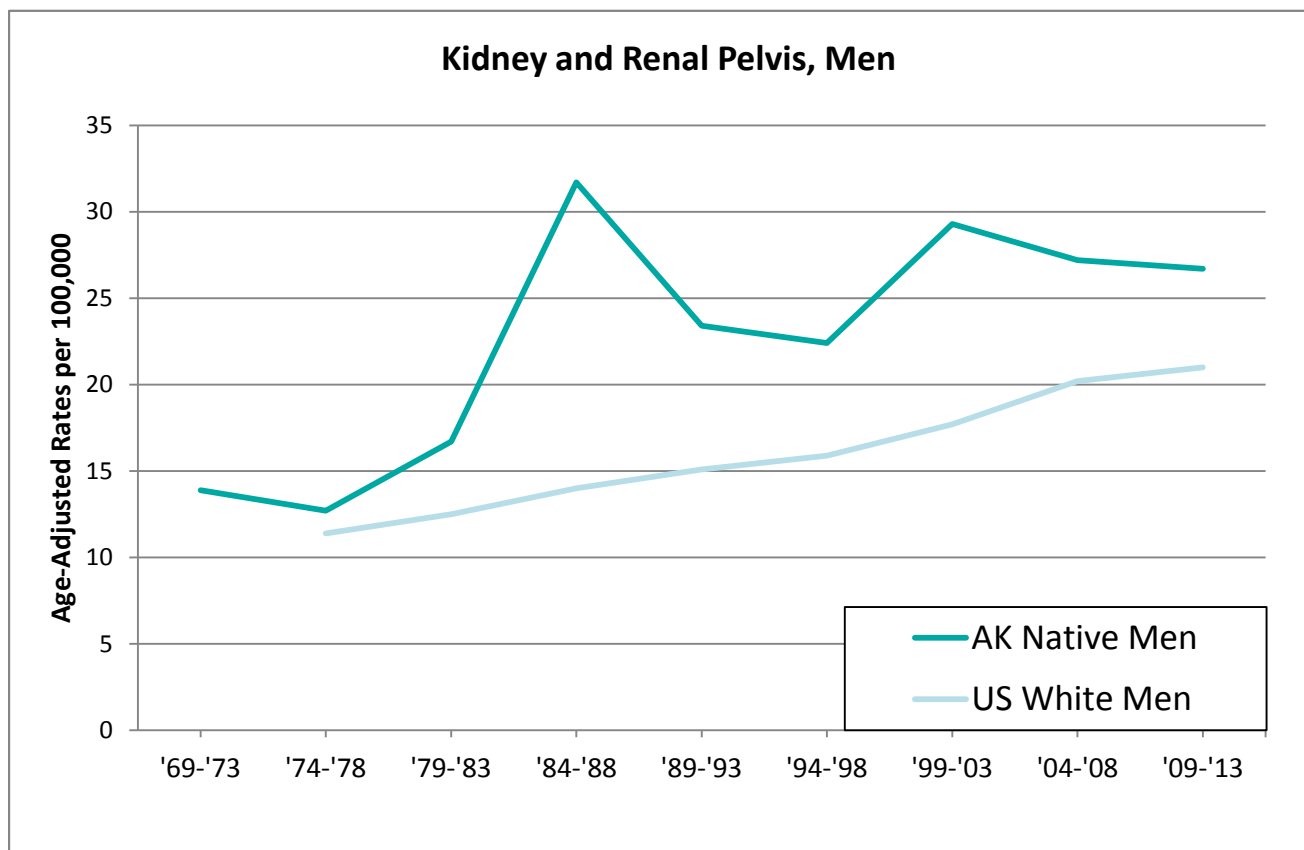
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Five Year Average Annual Cancer Incidence Rates Alaska Native People (1969-2013) and US Whites (1974-2013)



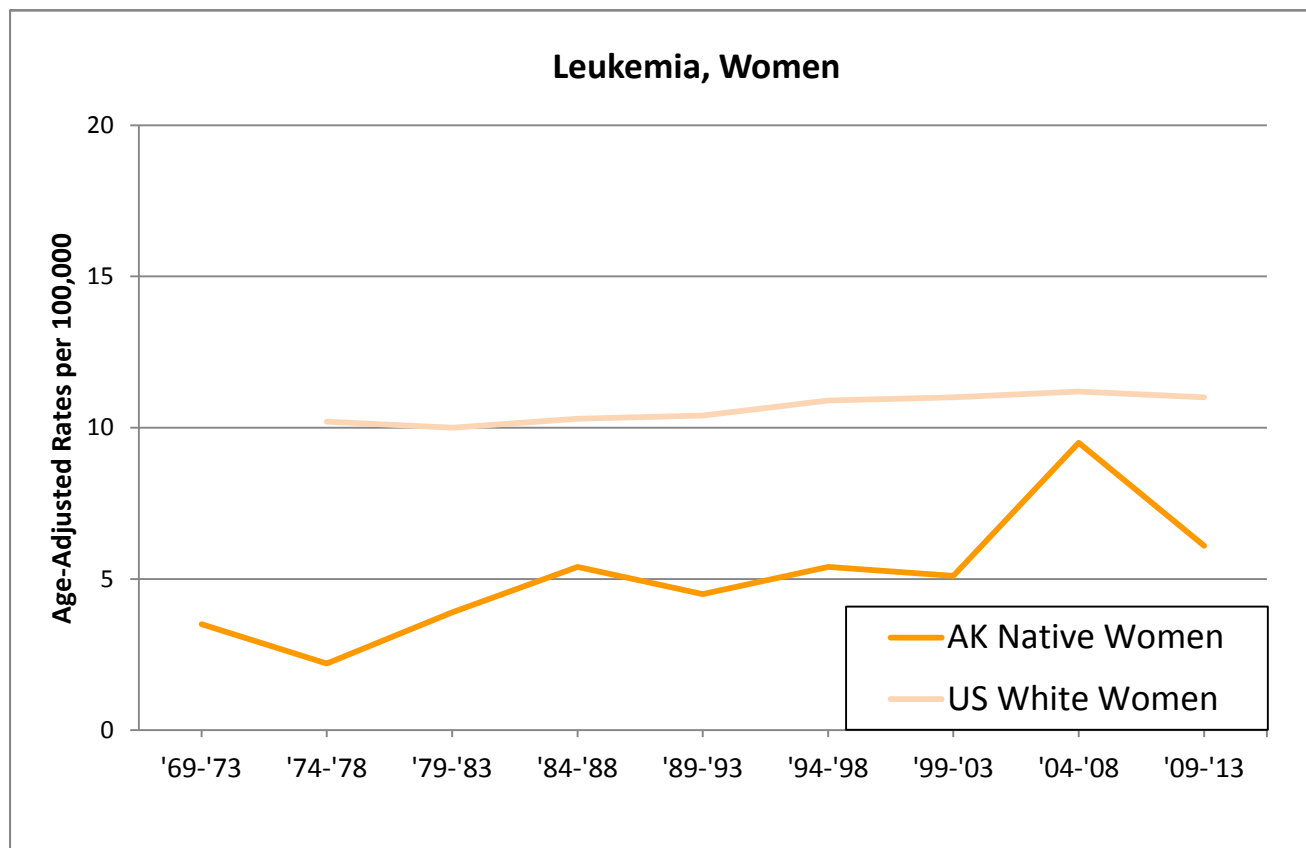
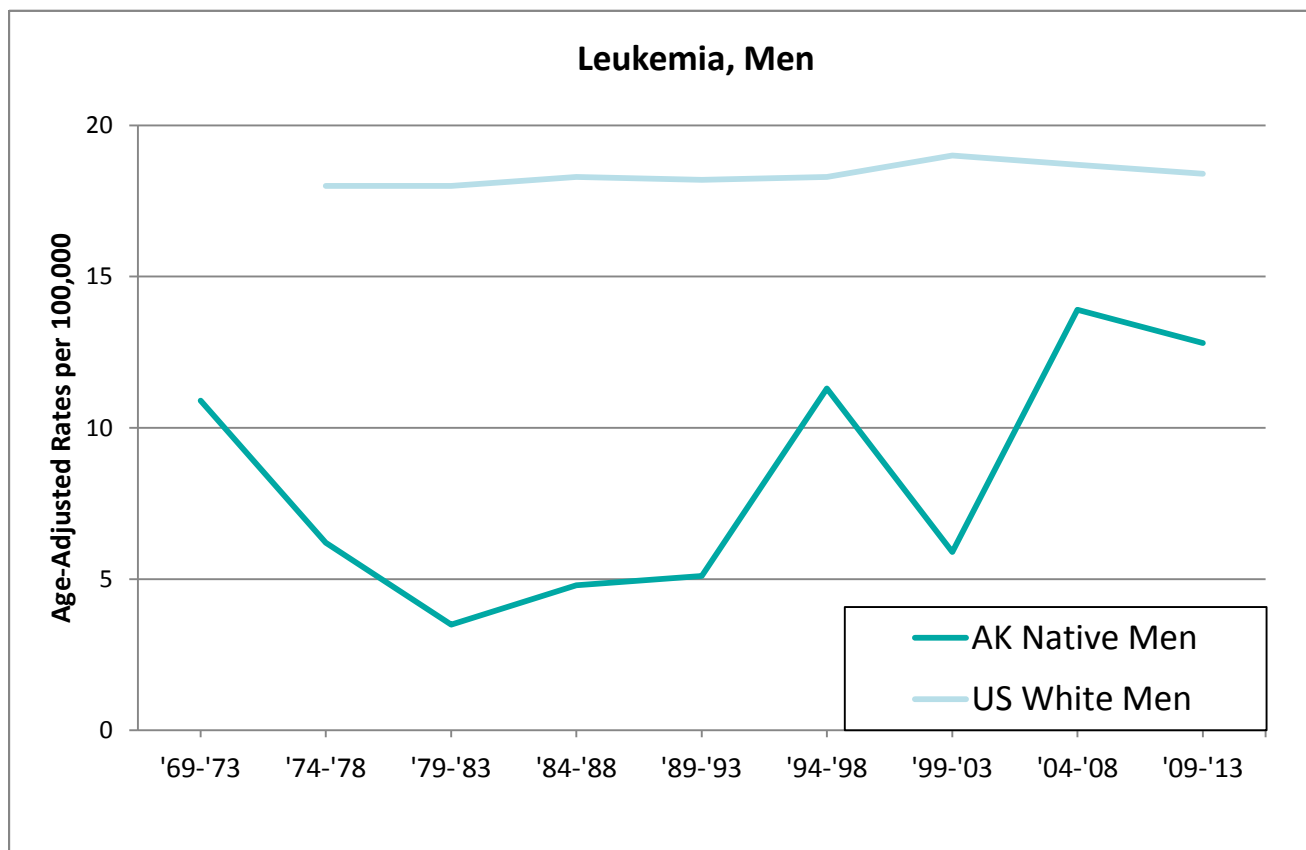
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Five Year Average Annual Cancer Incidence Rates Alaska Native People (1969-2013) and US Whites (1974-2013)



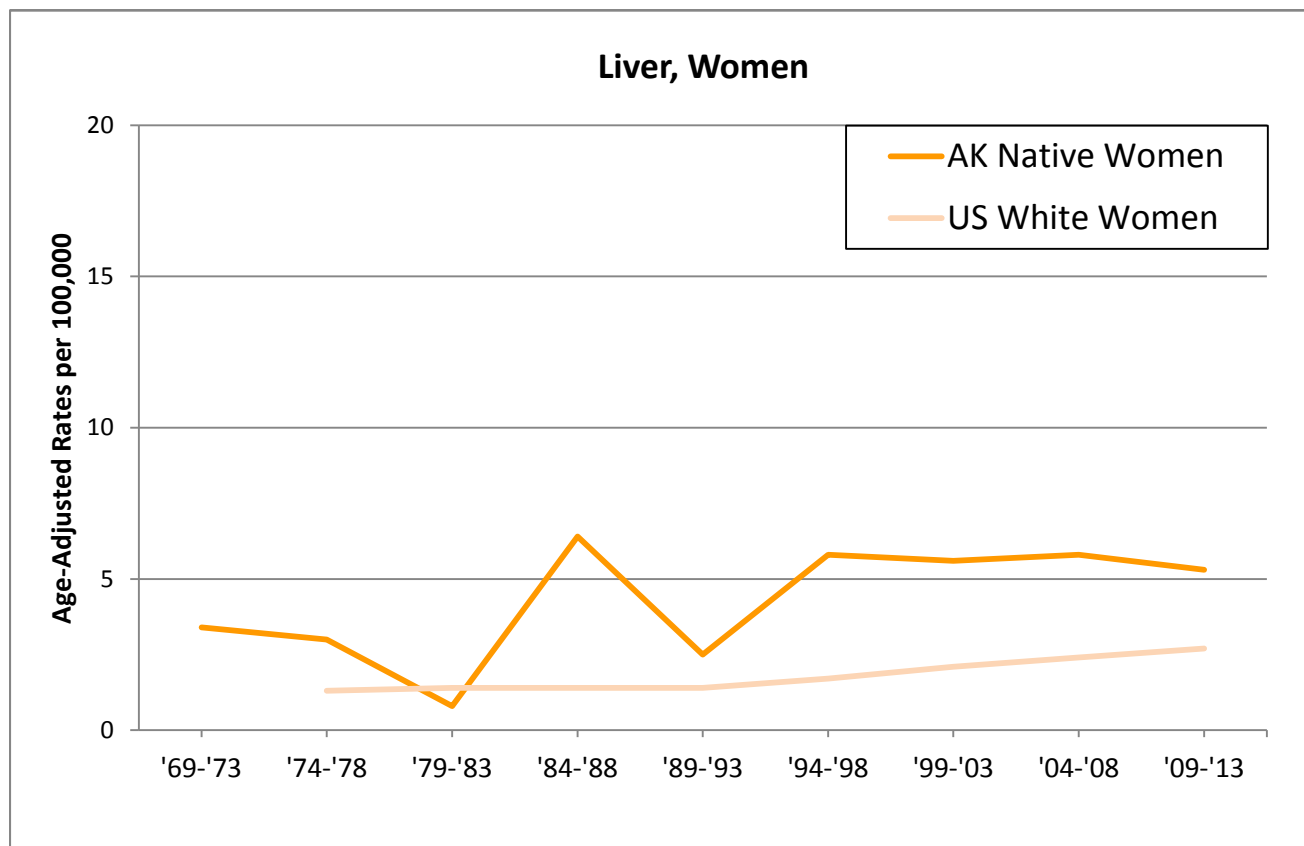
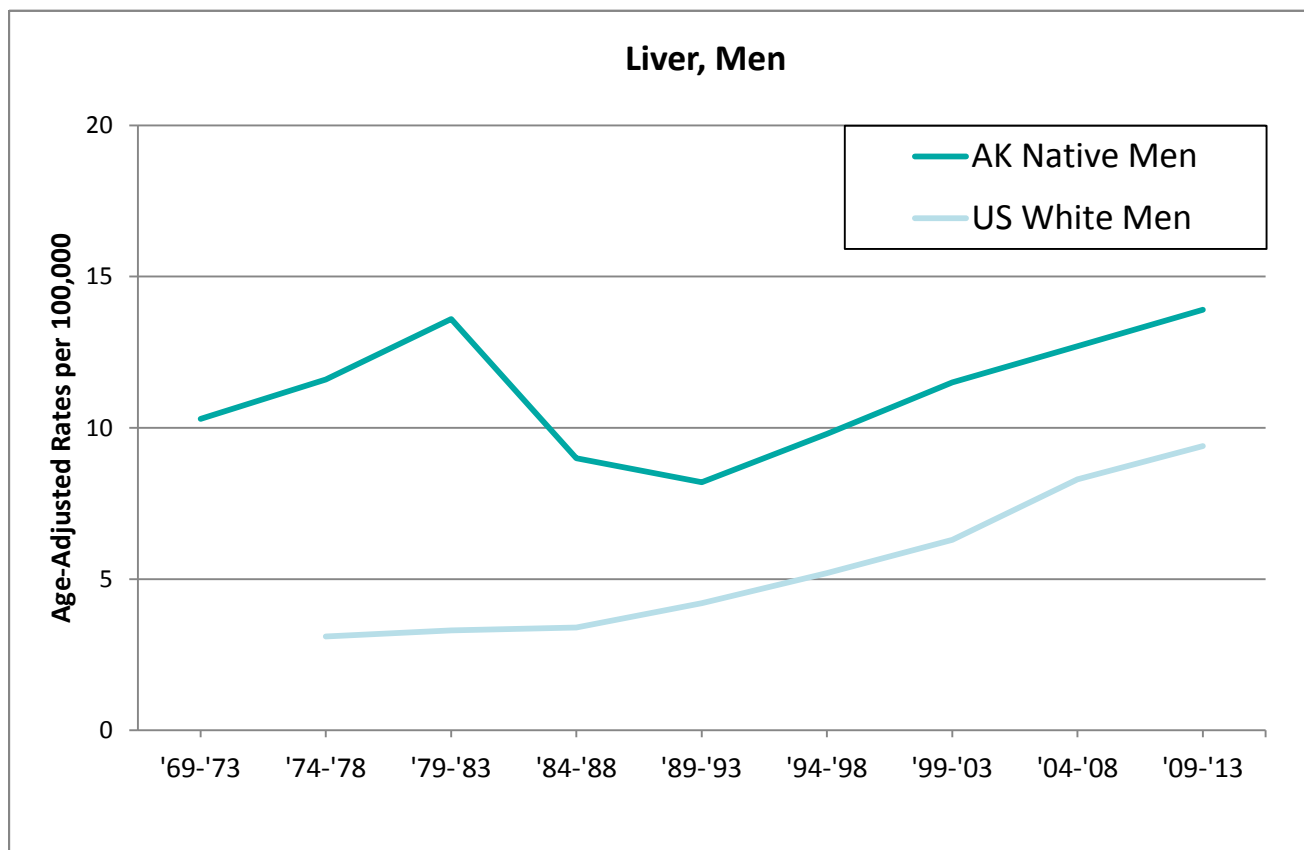
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Five Year Average Annual Cancer Incidence Rates Alaska Native People (1969-2013) and US Whites (1974-2013)



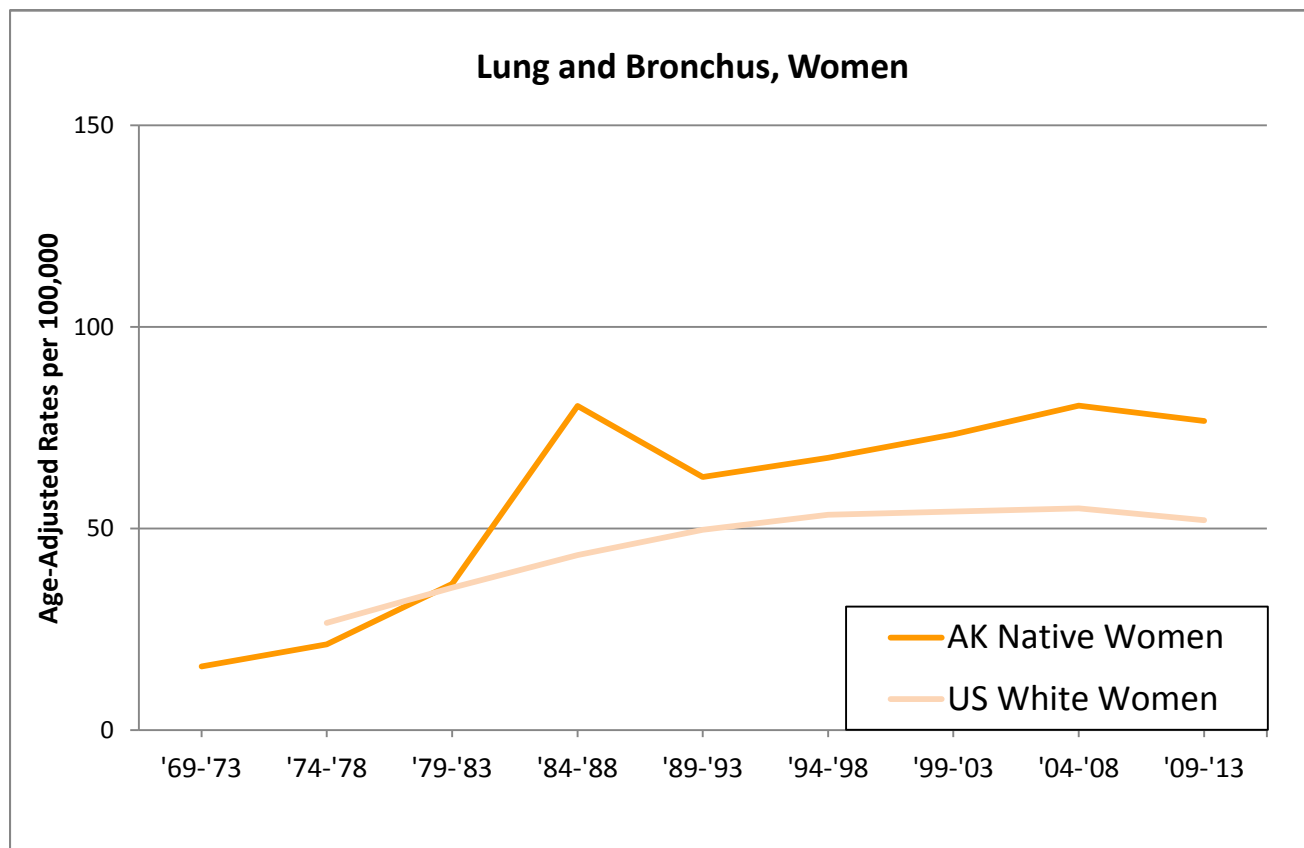
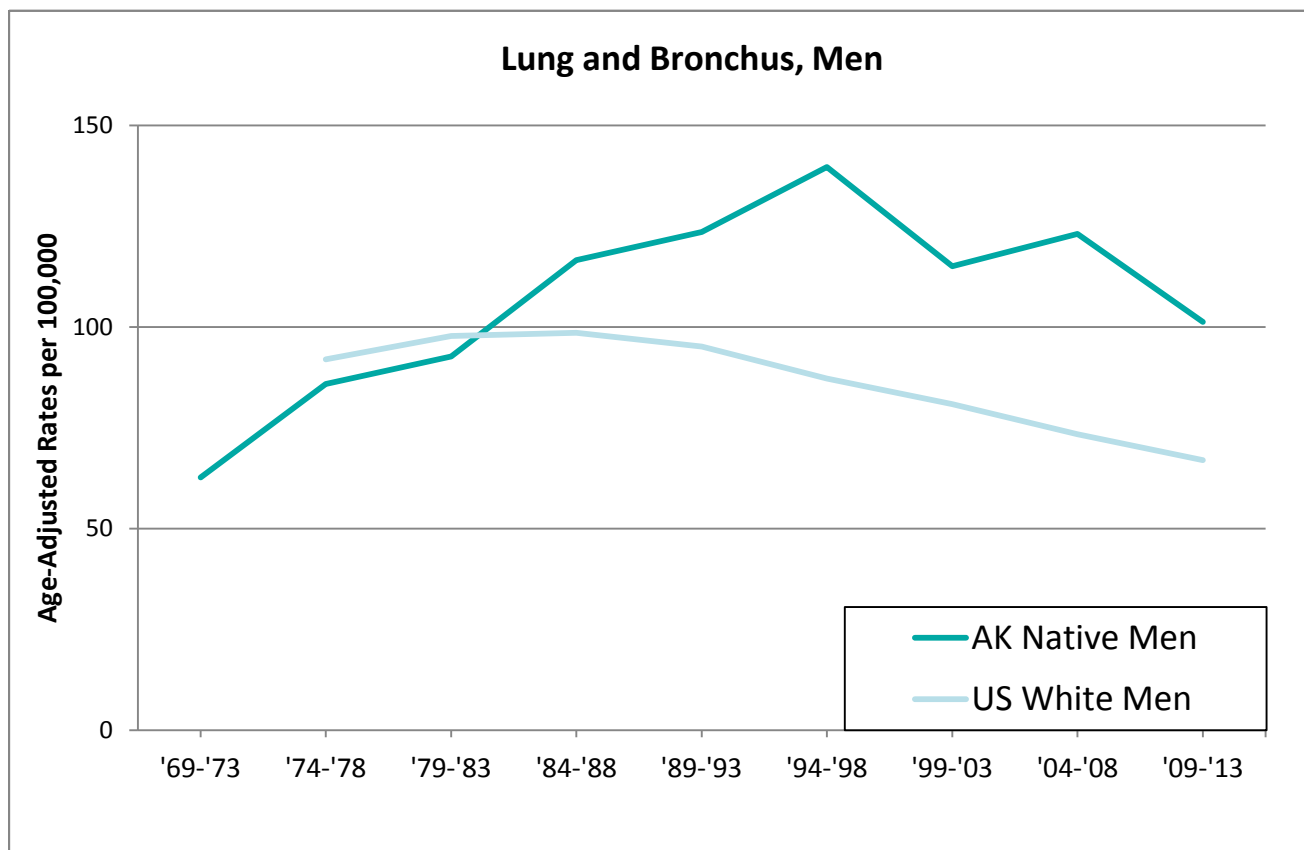
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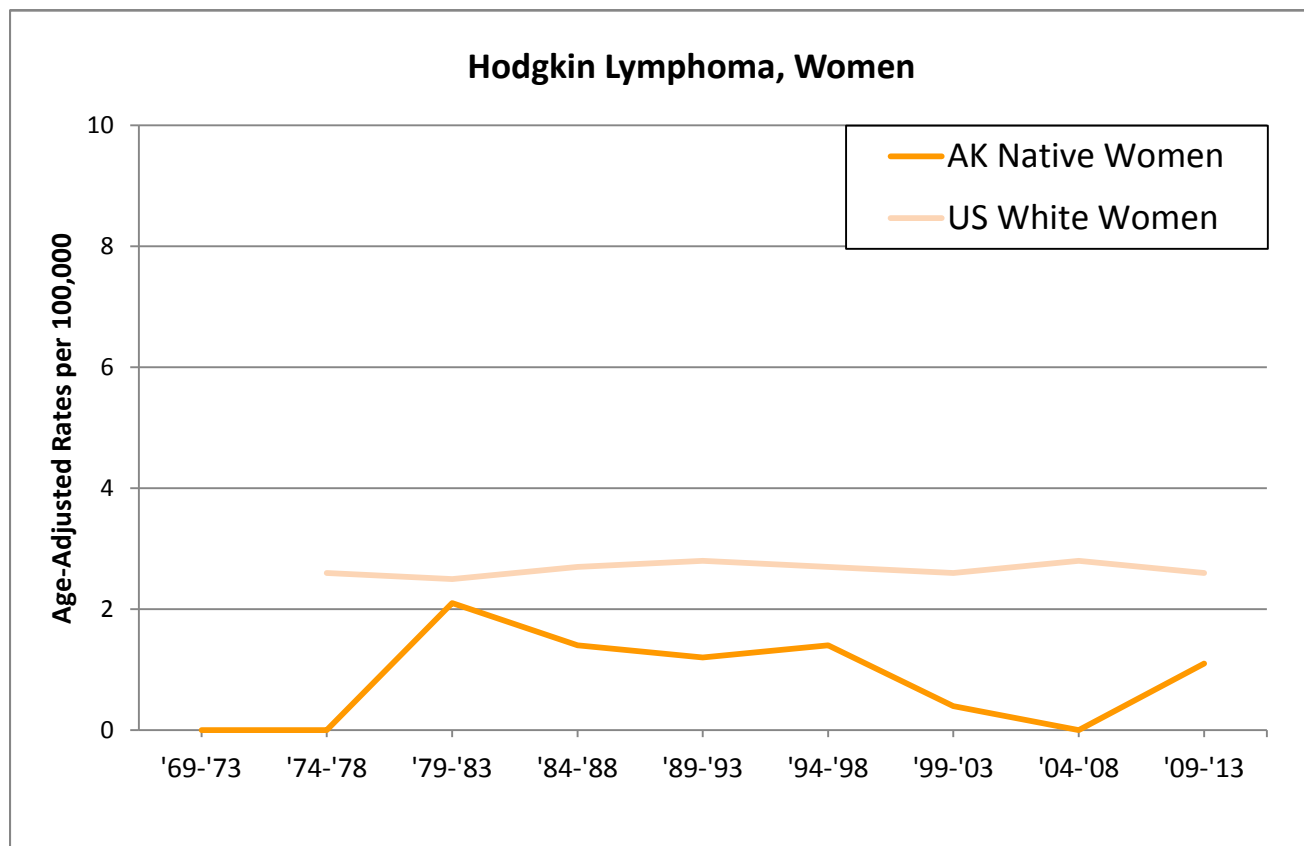
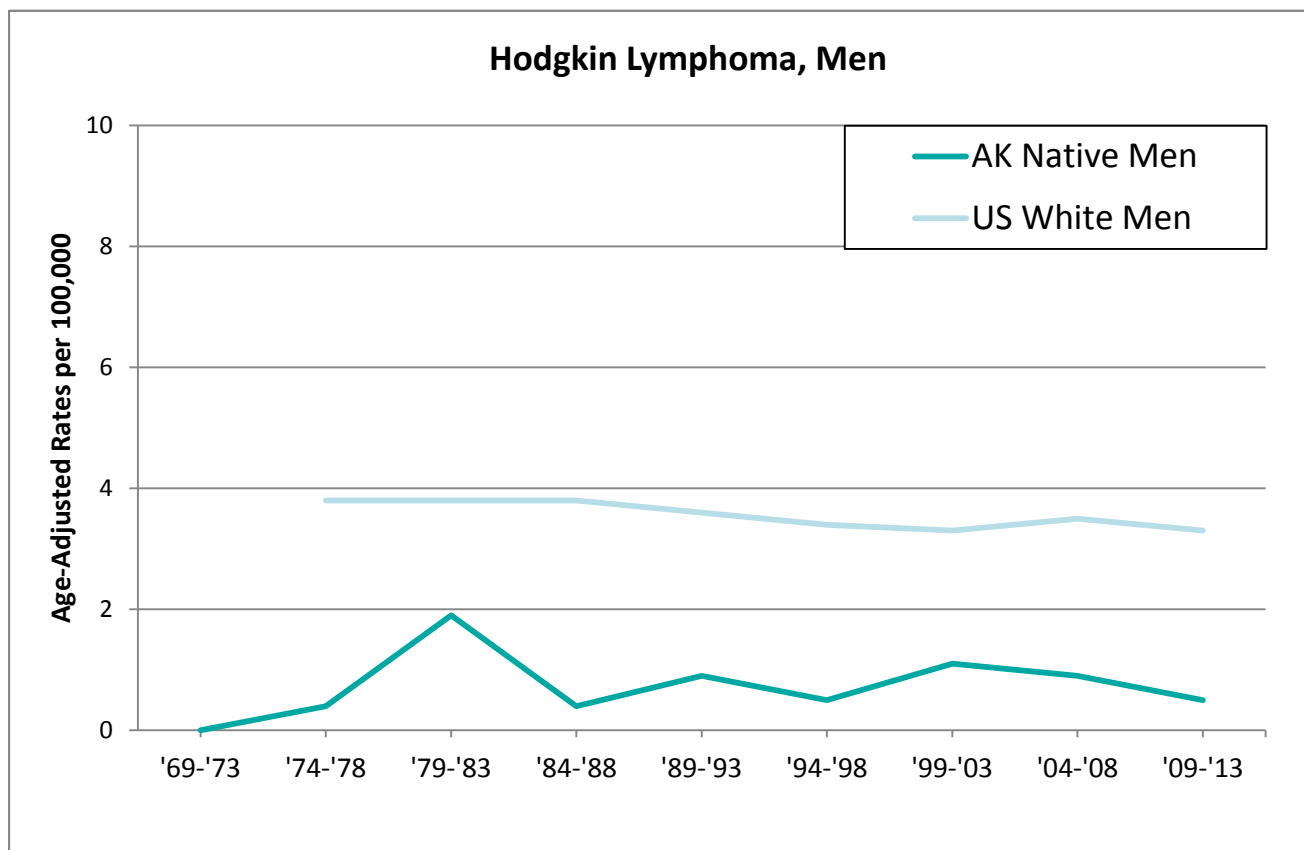
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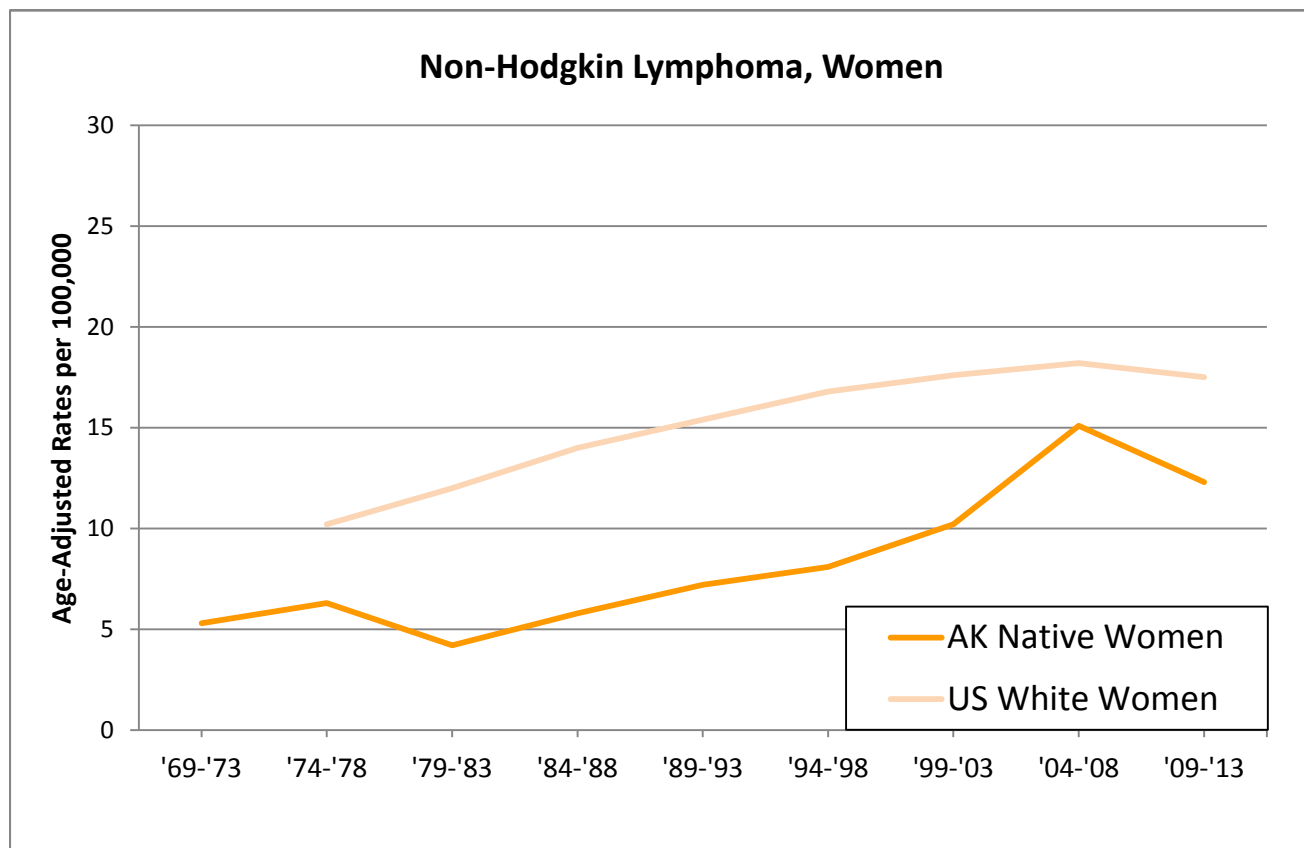
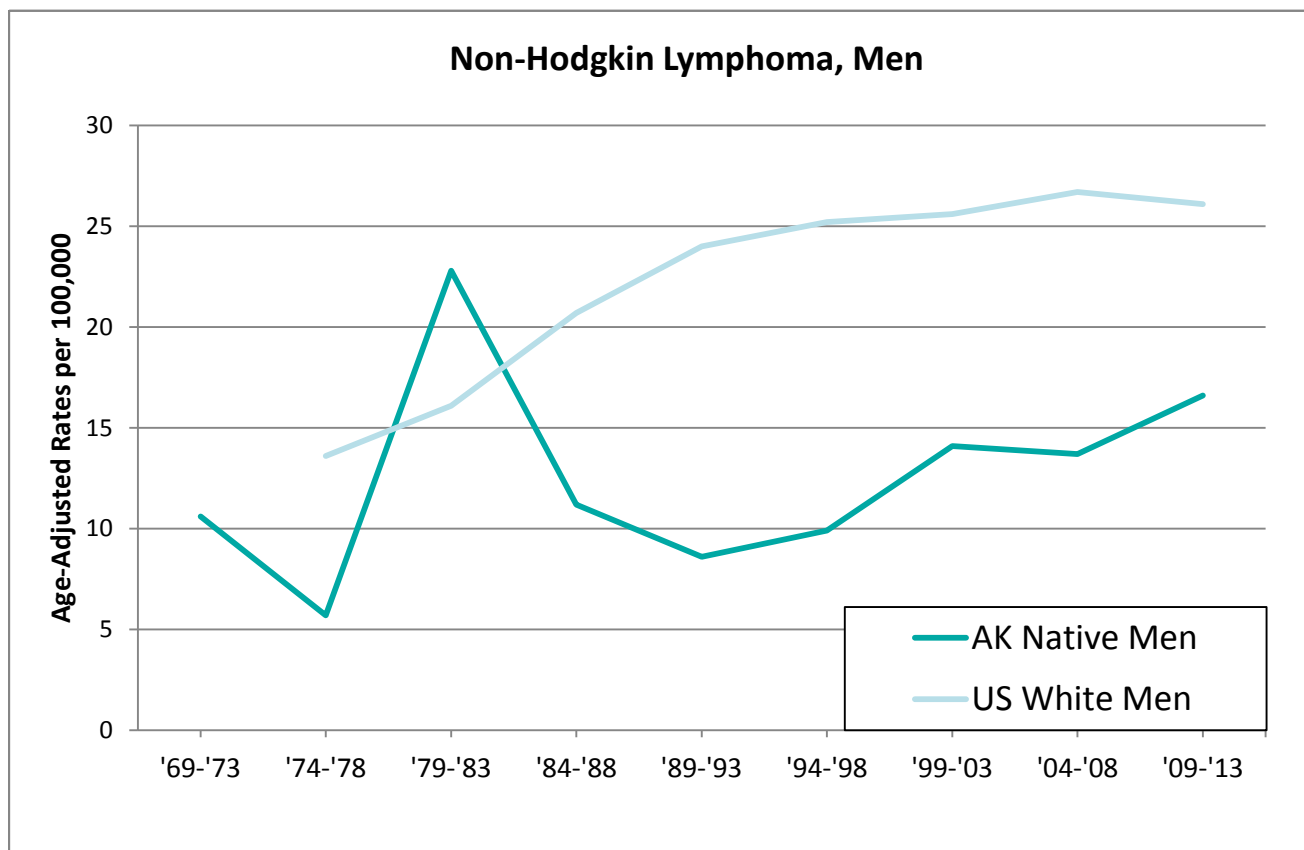
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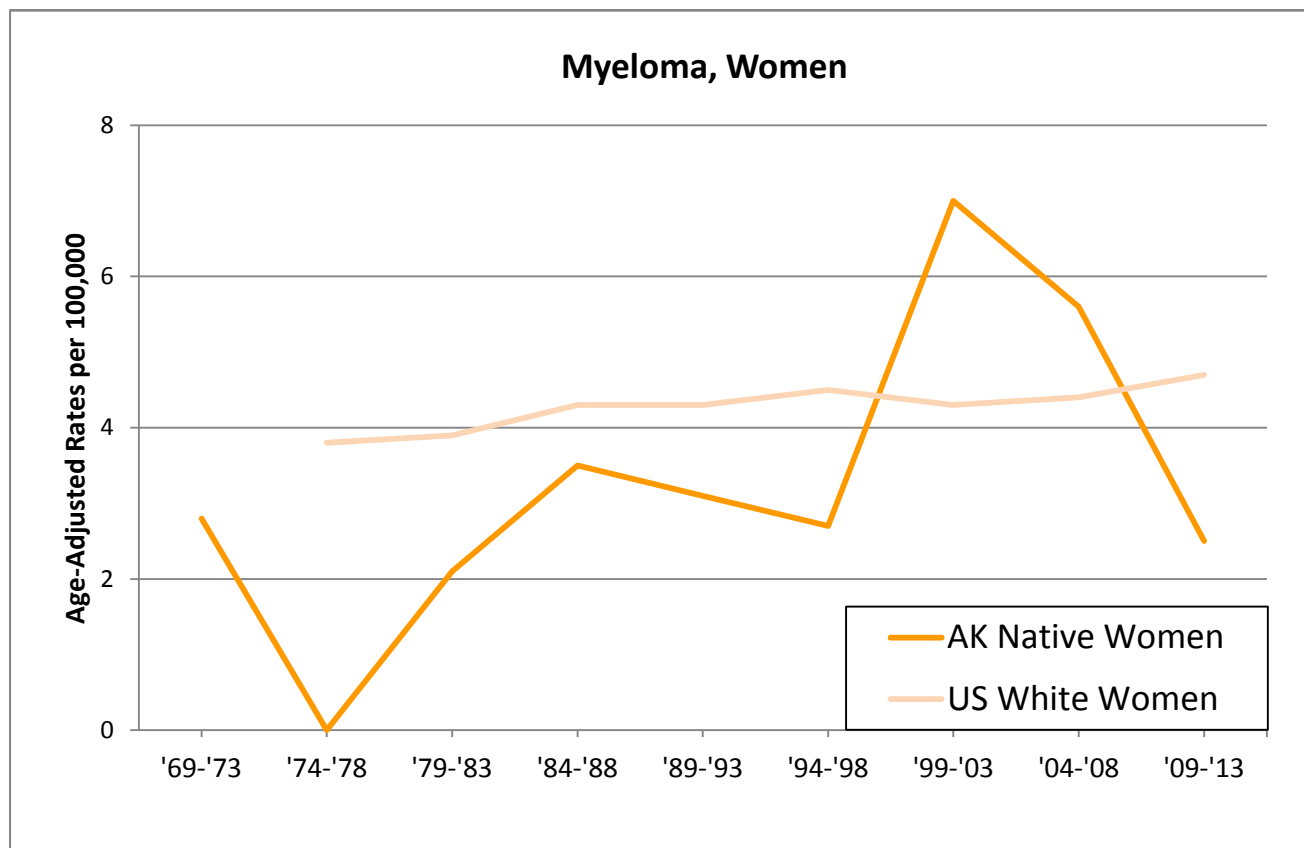
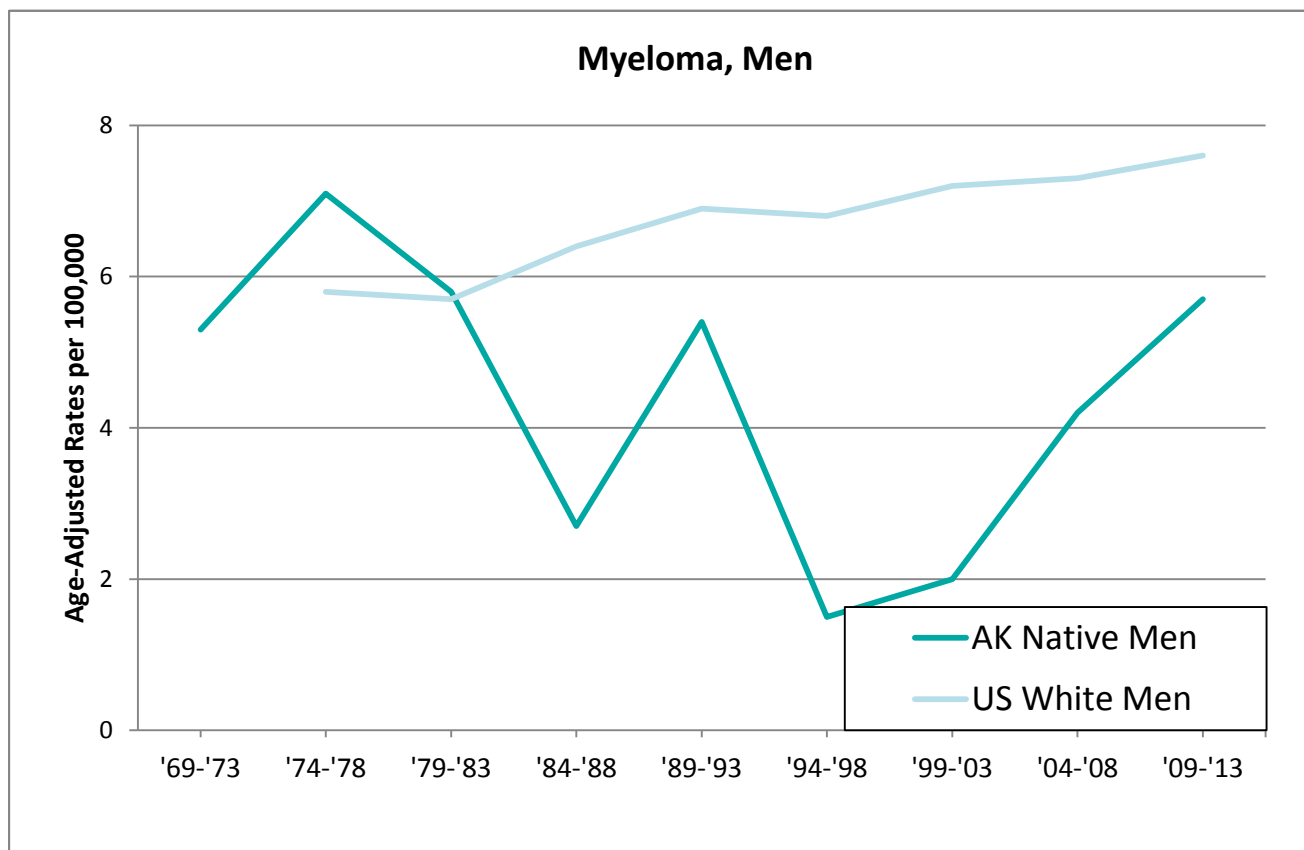
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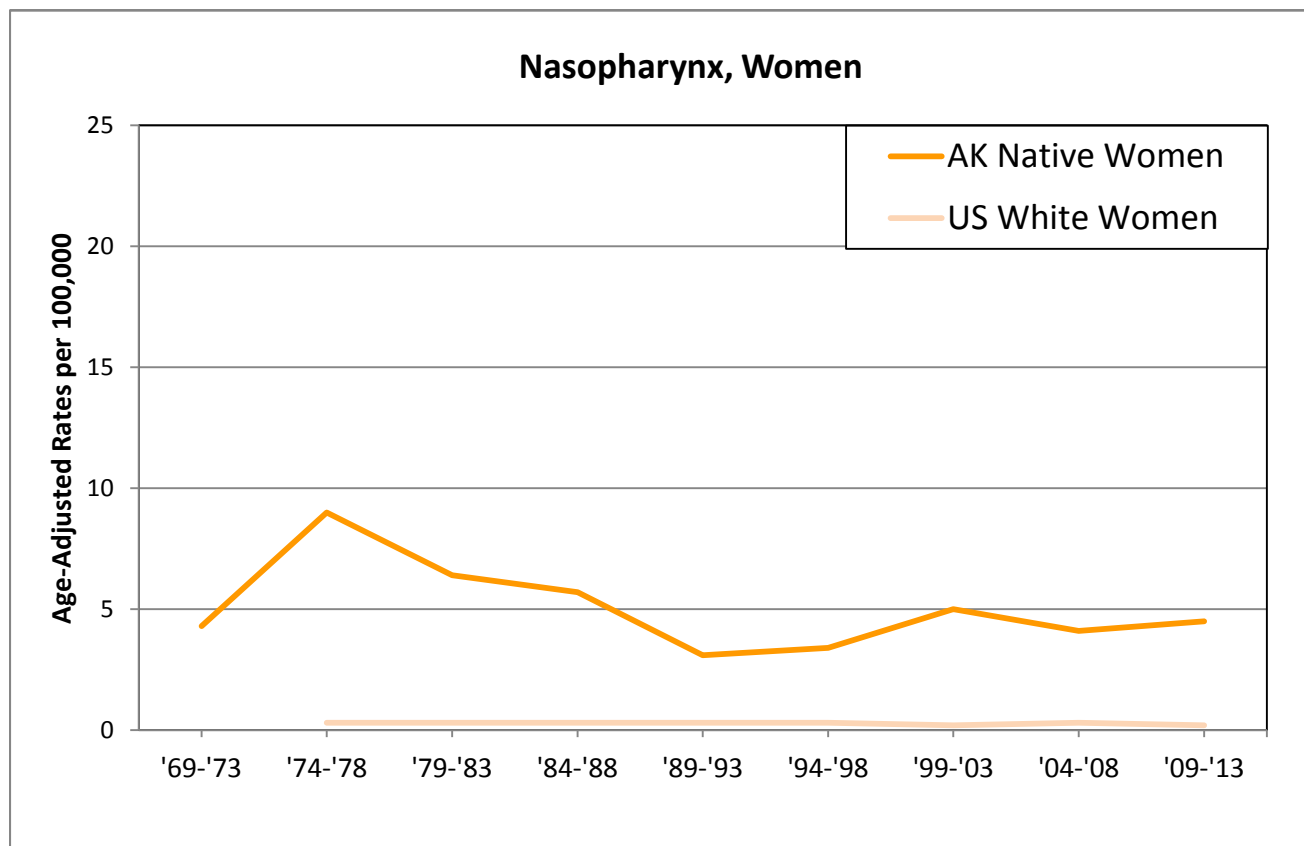
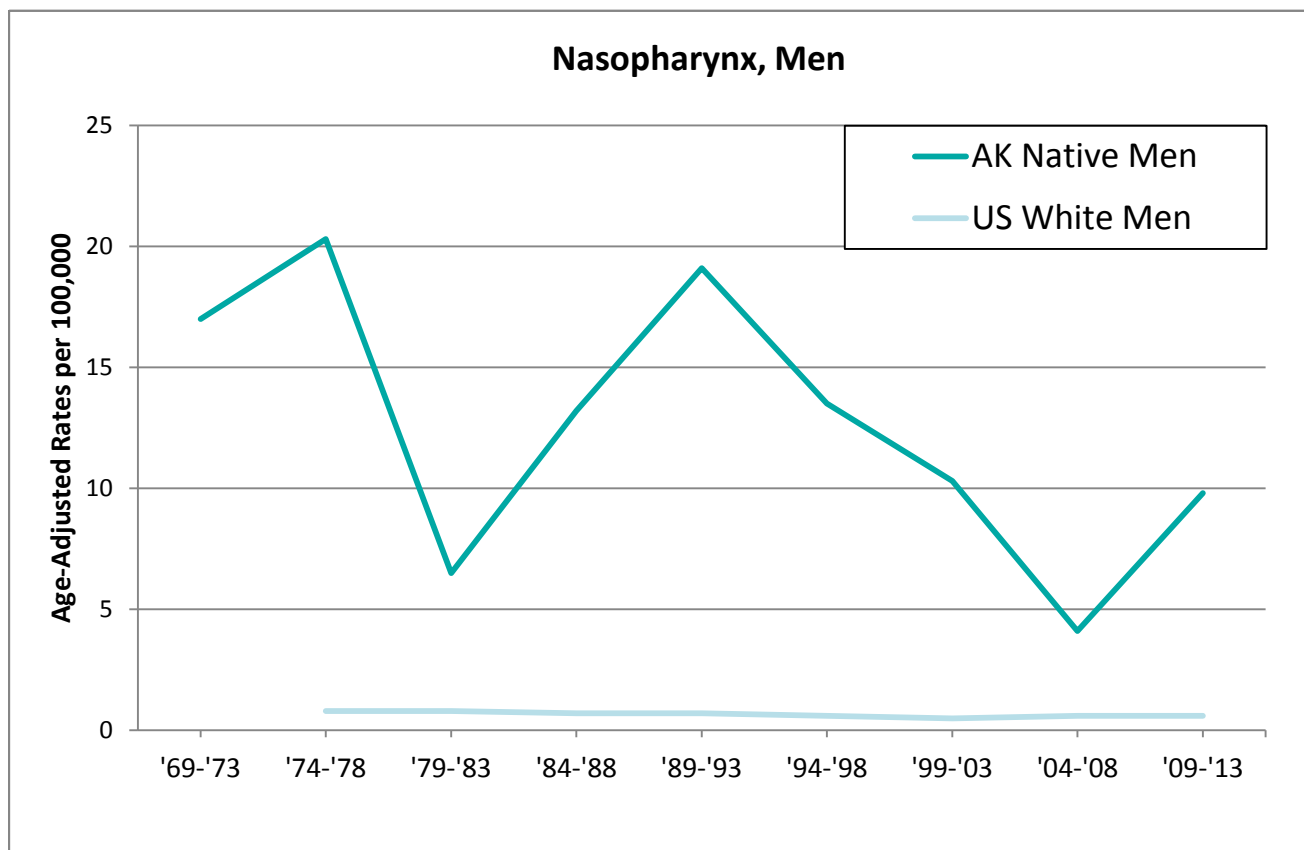
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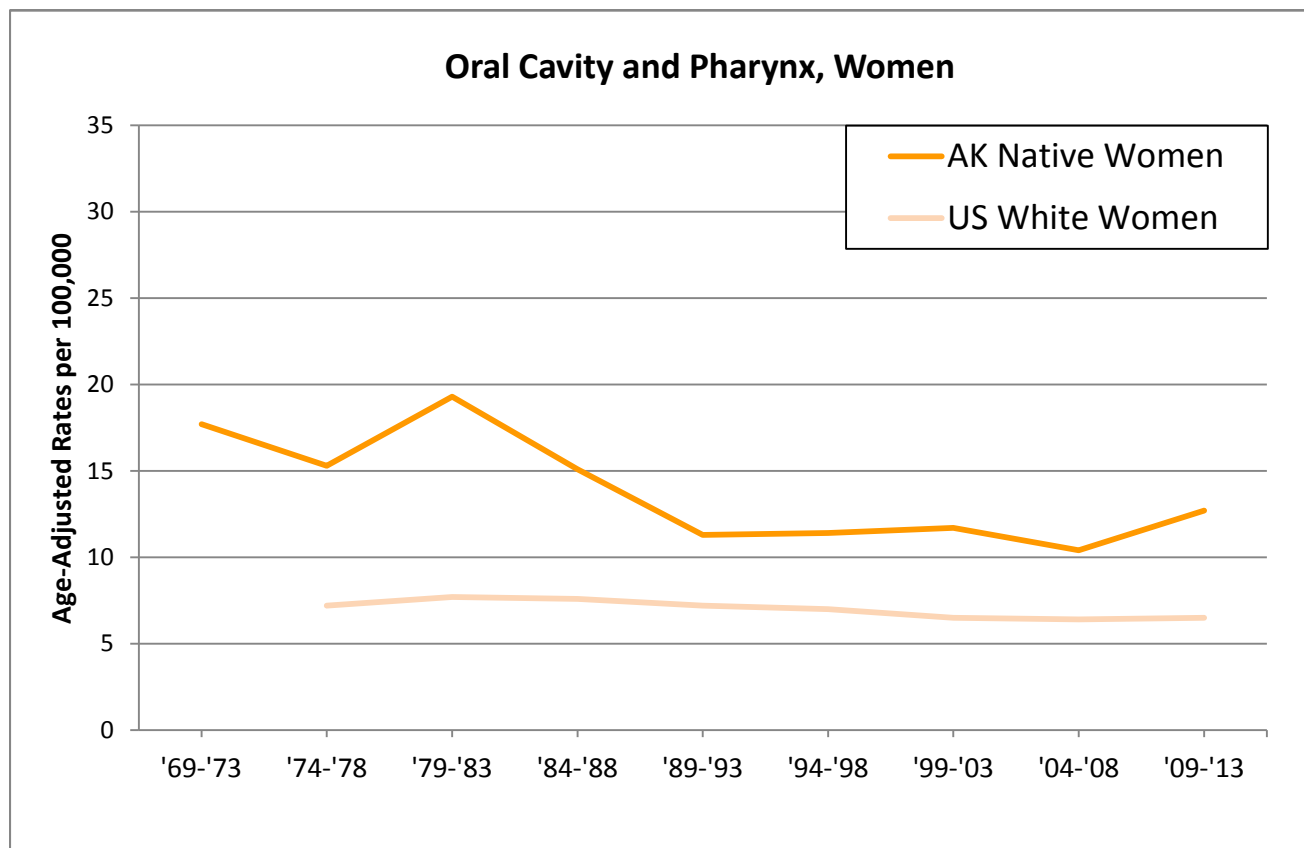
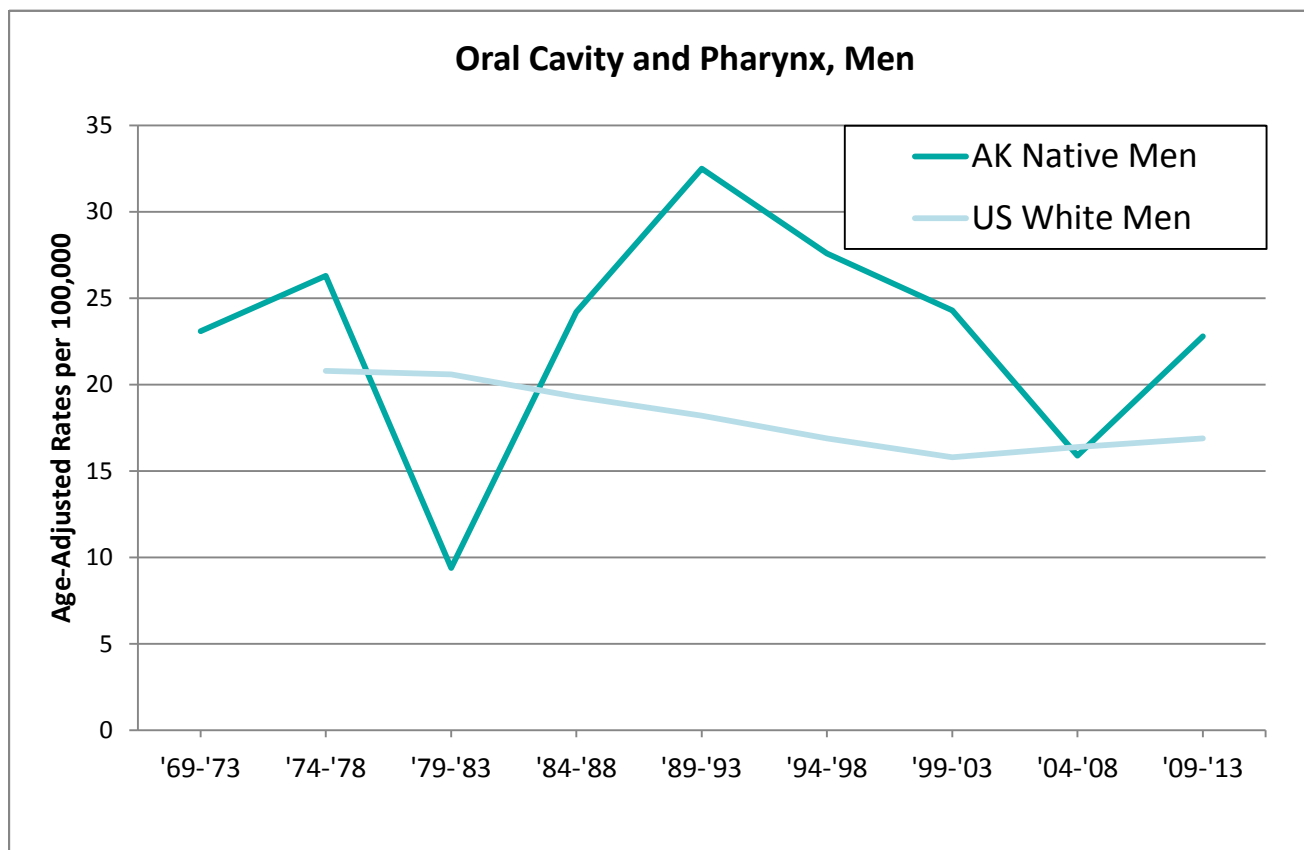
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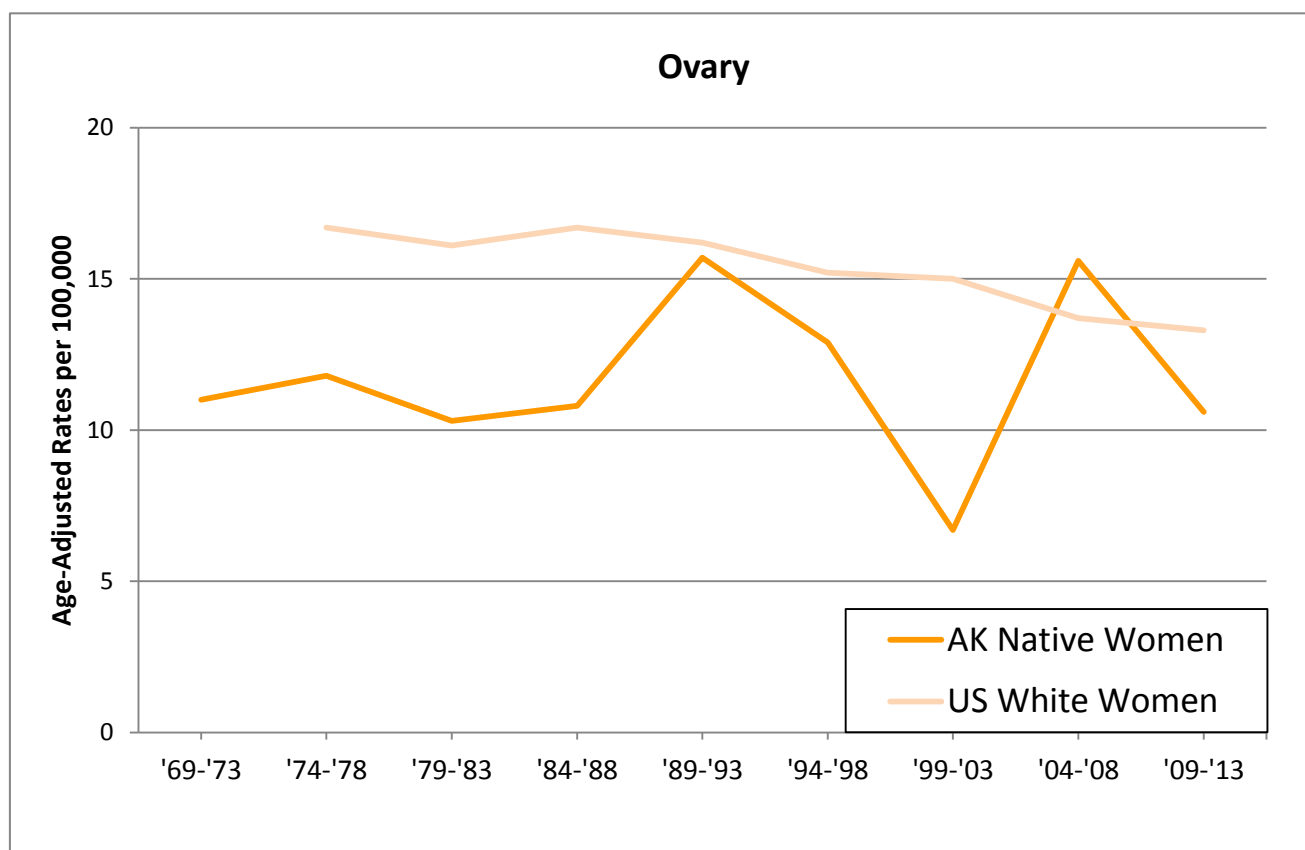
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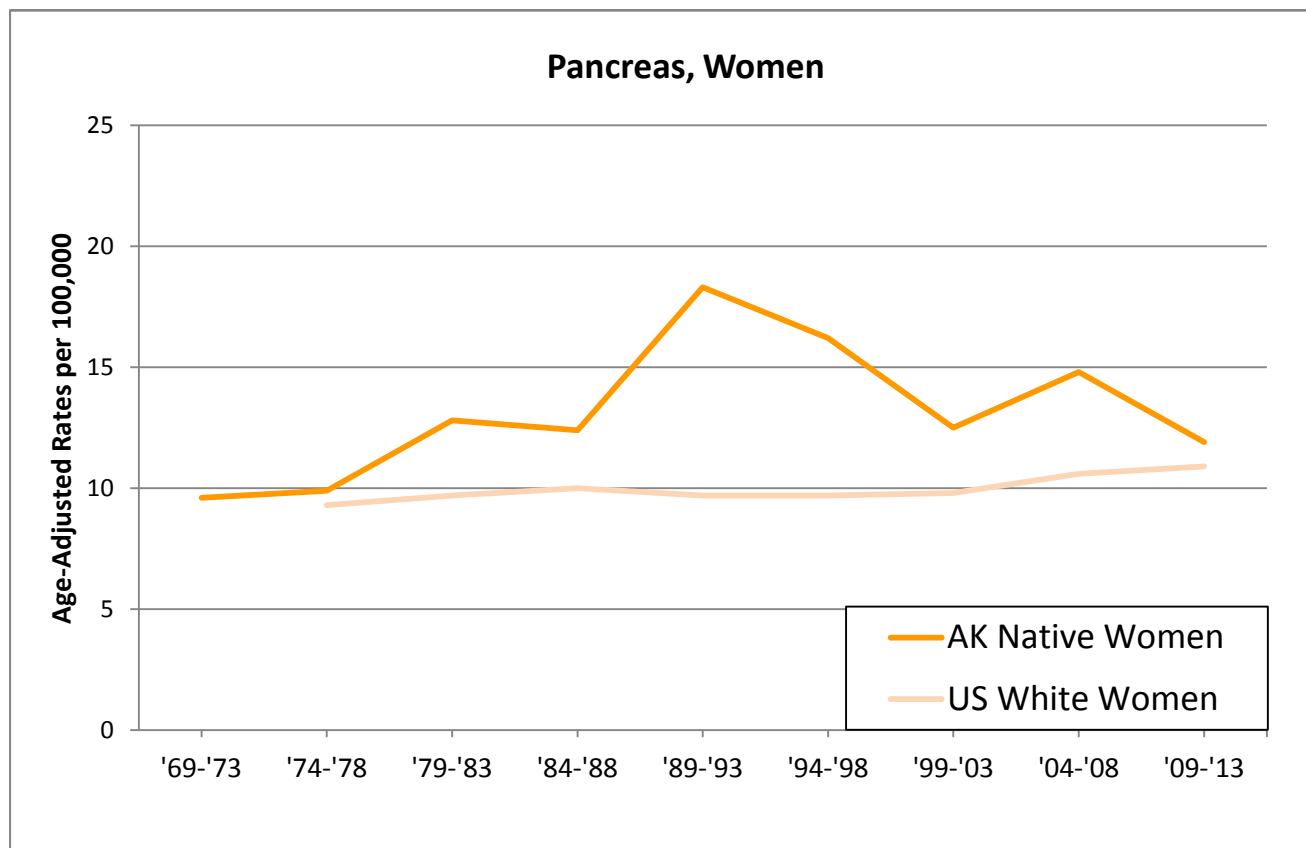
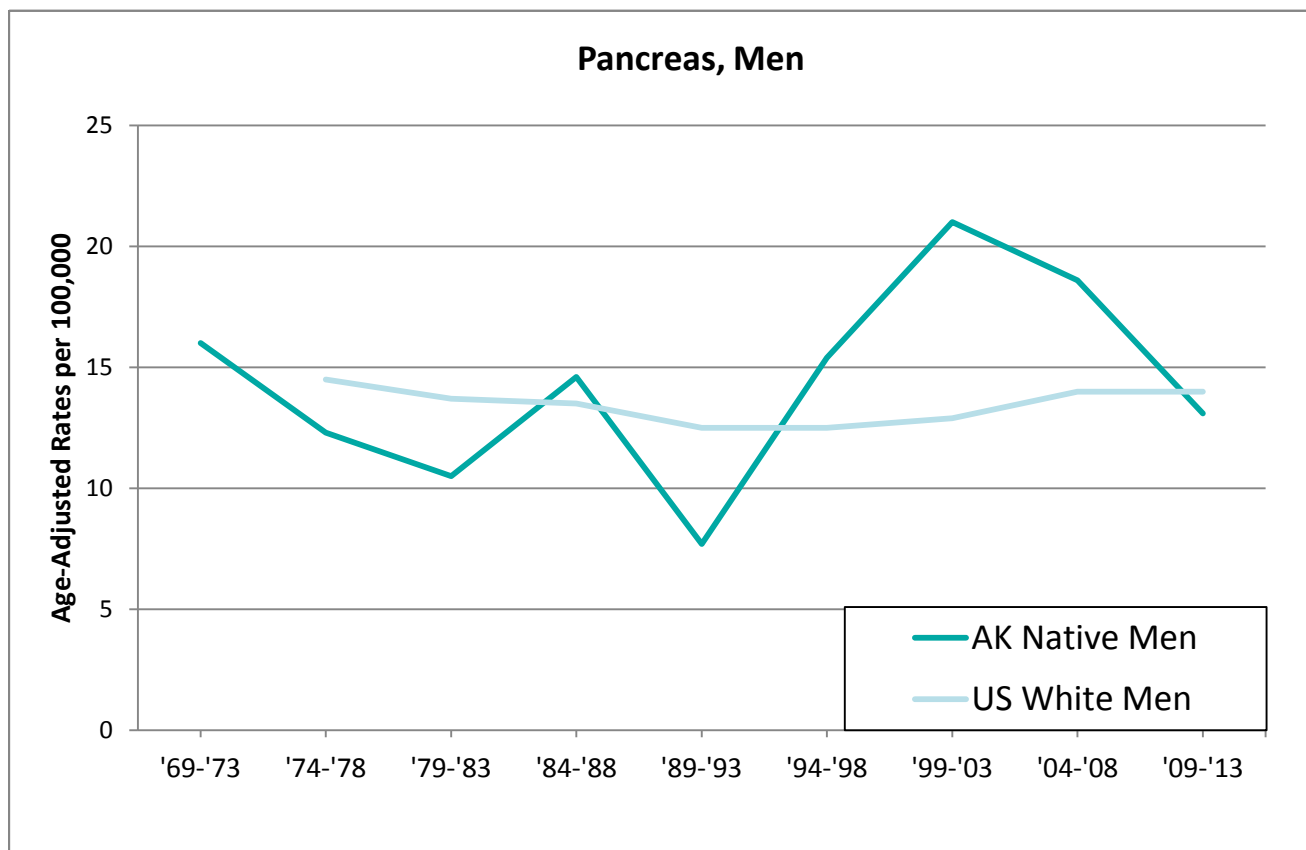
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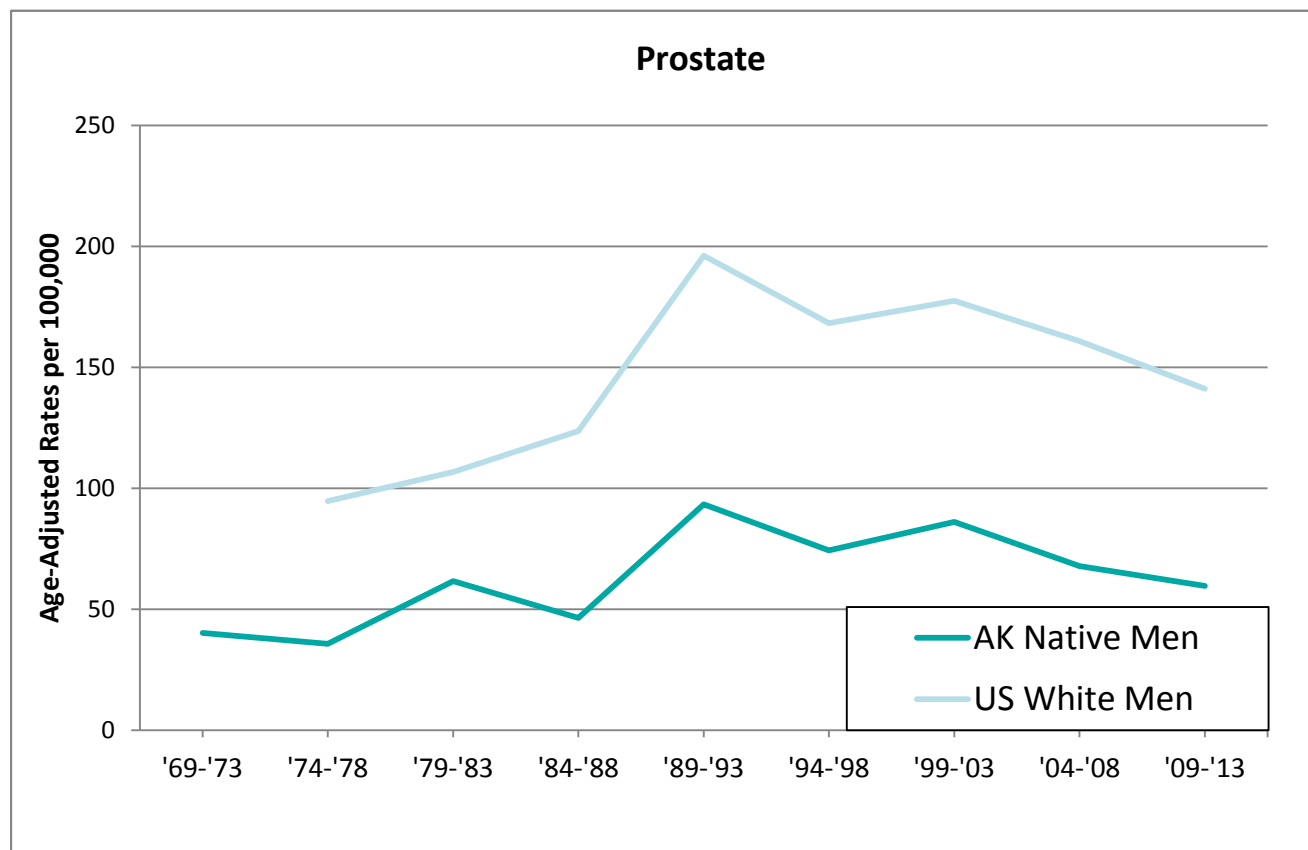
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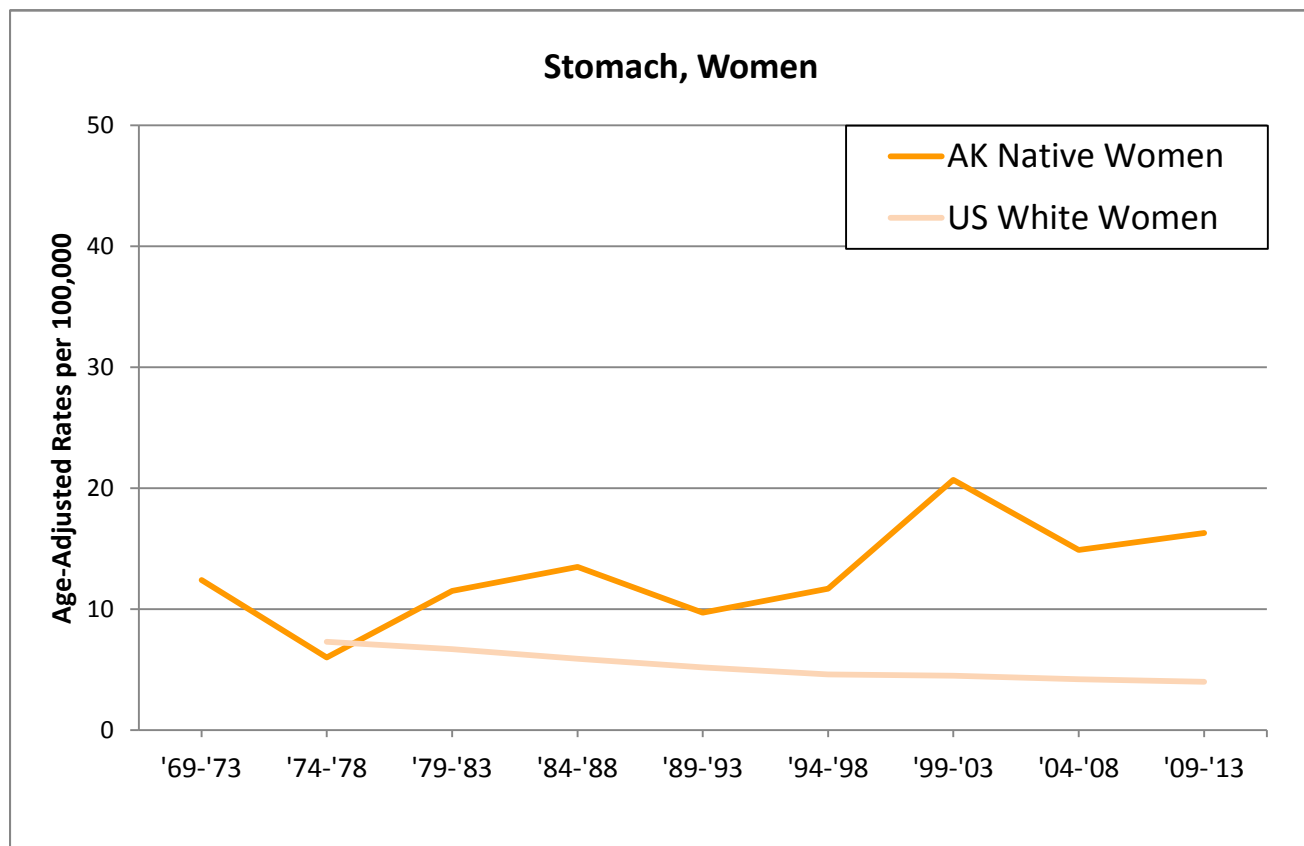
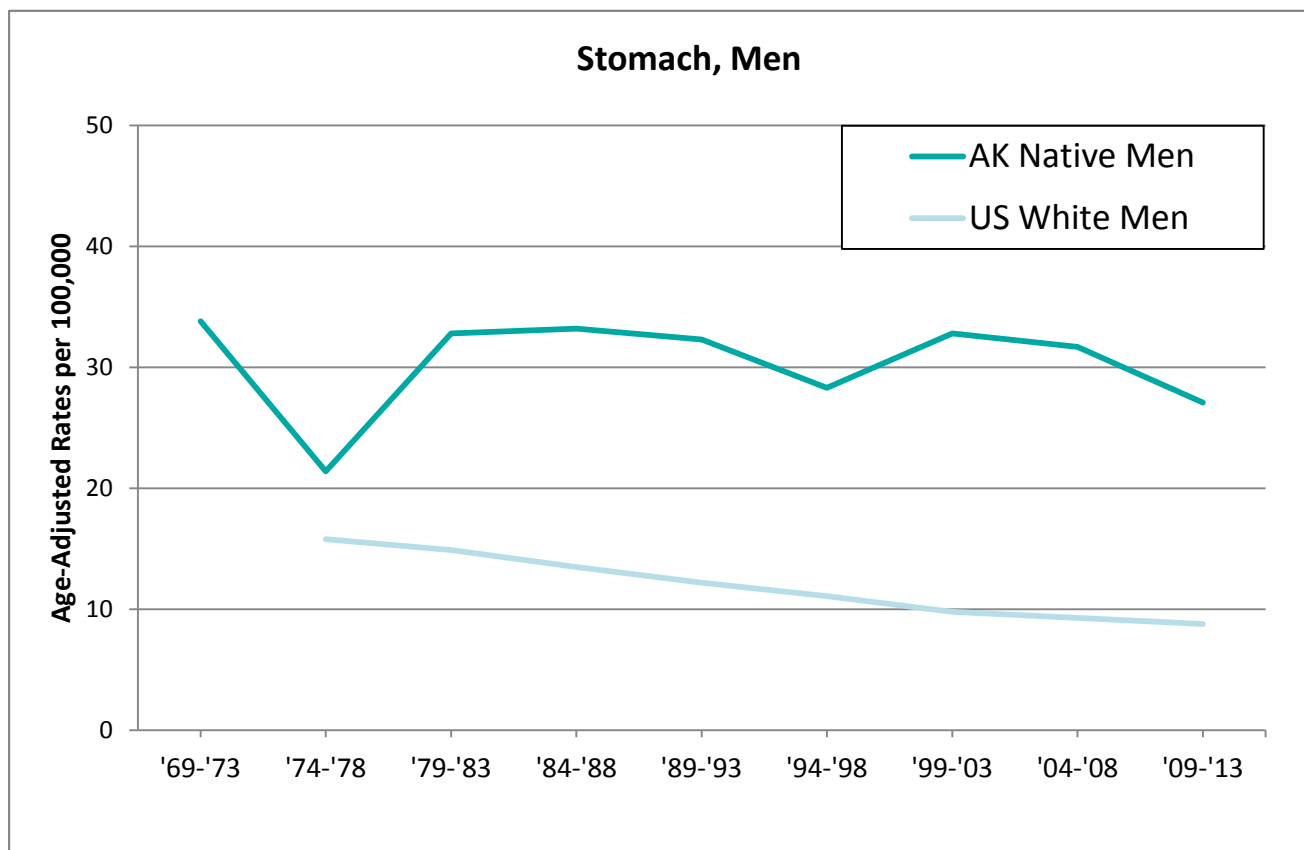
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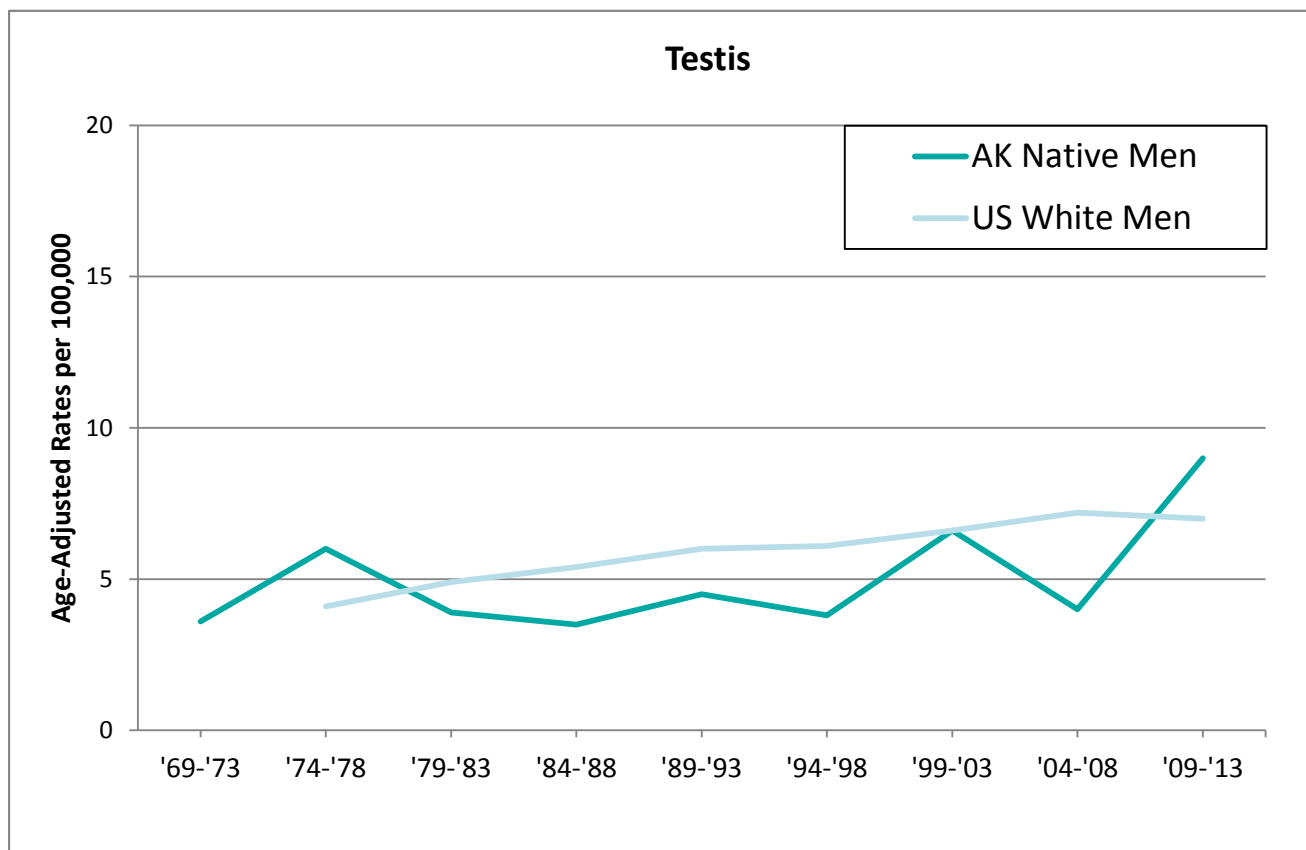
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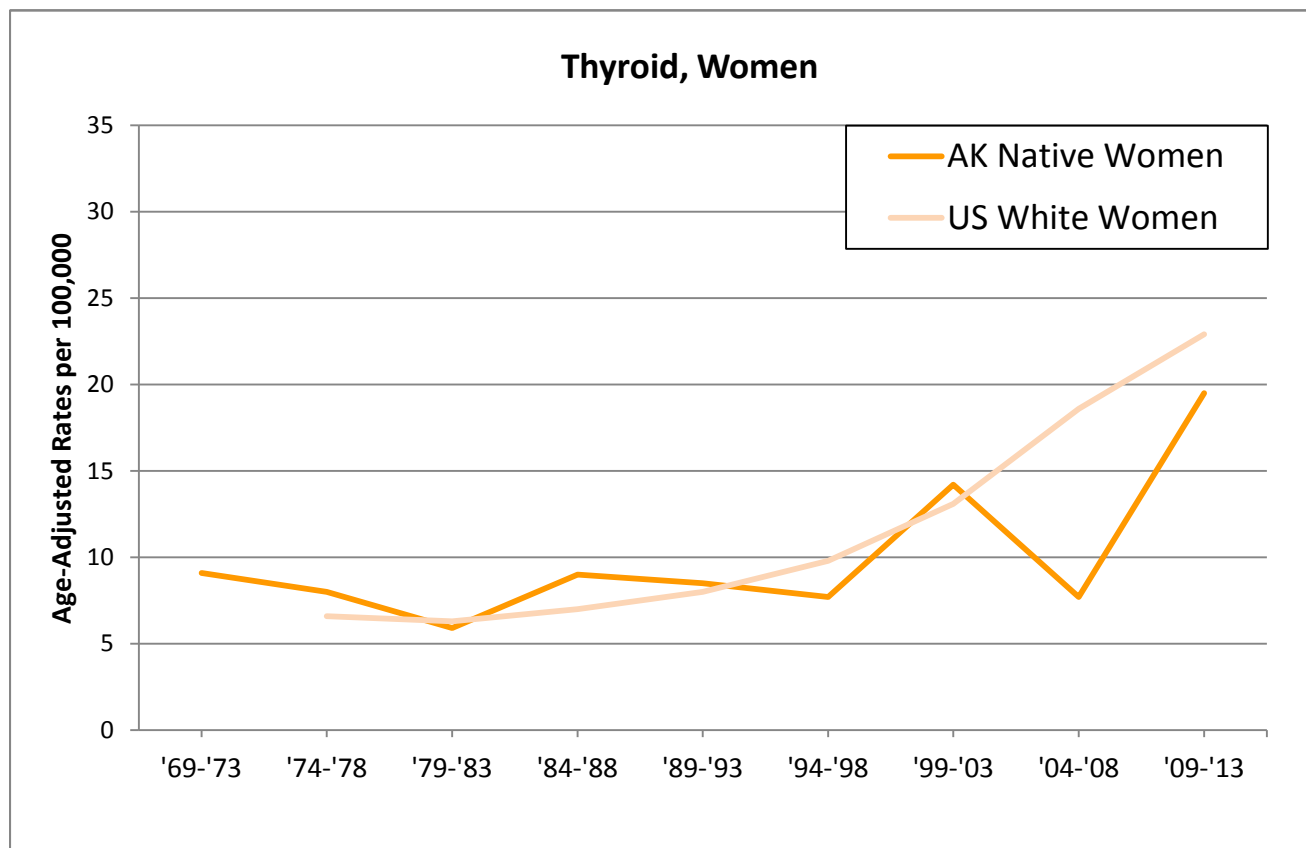
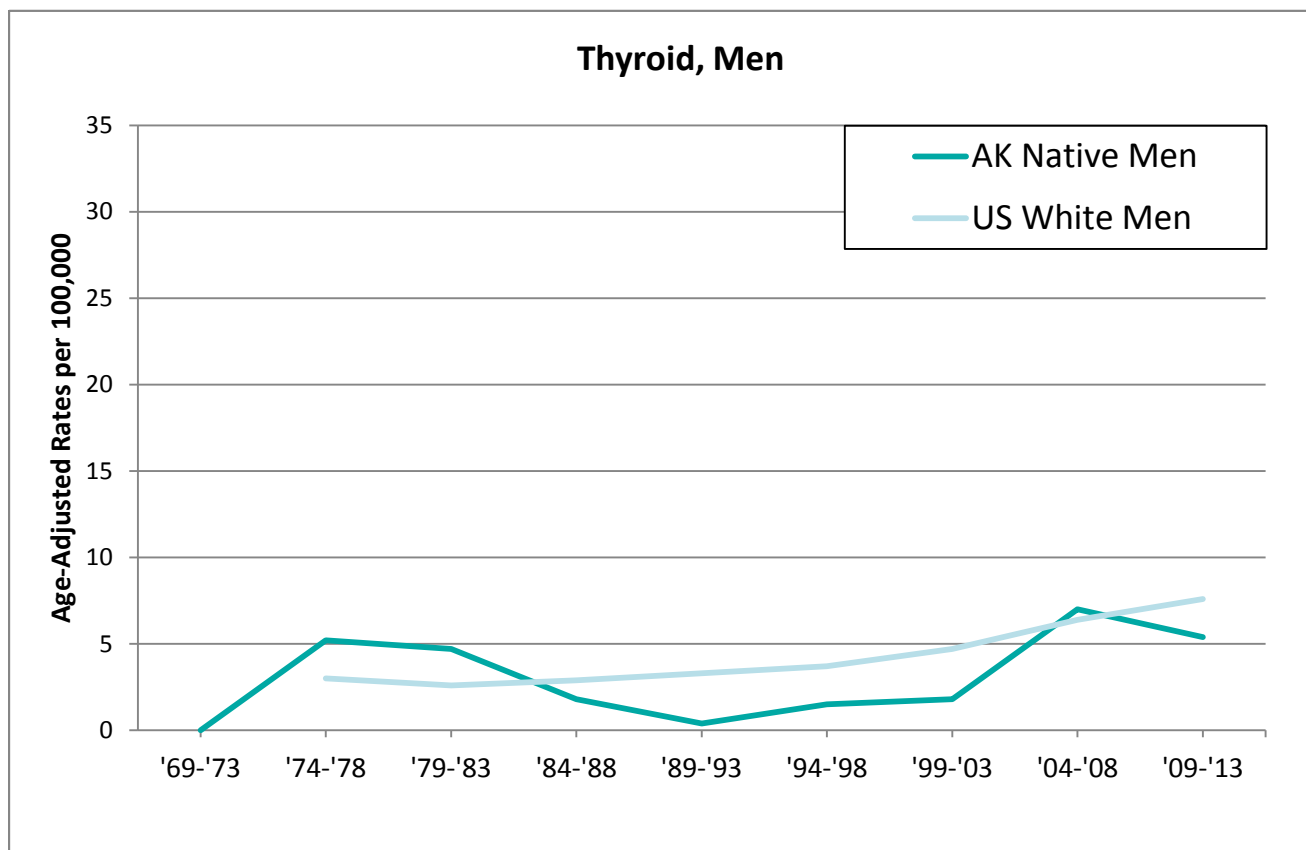
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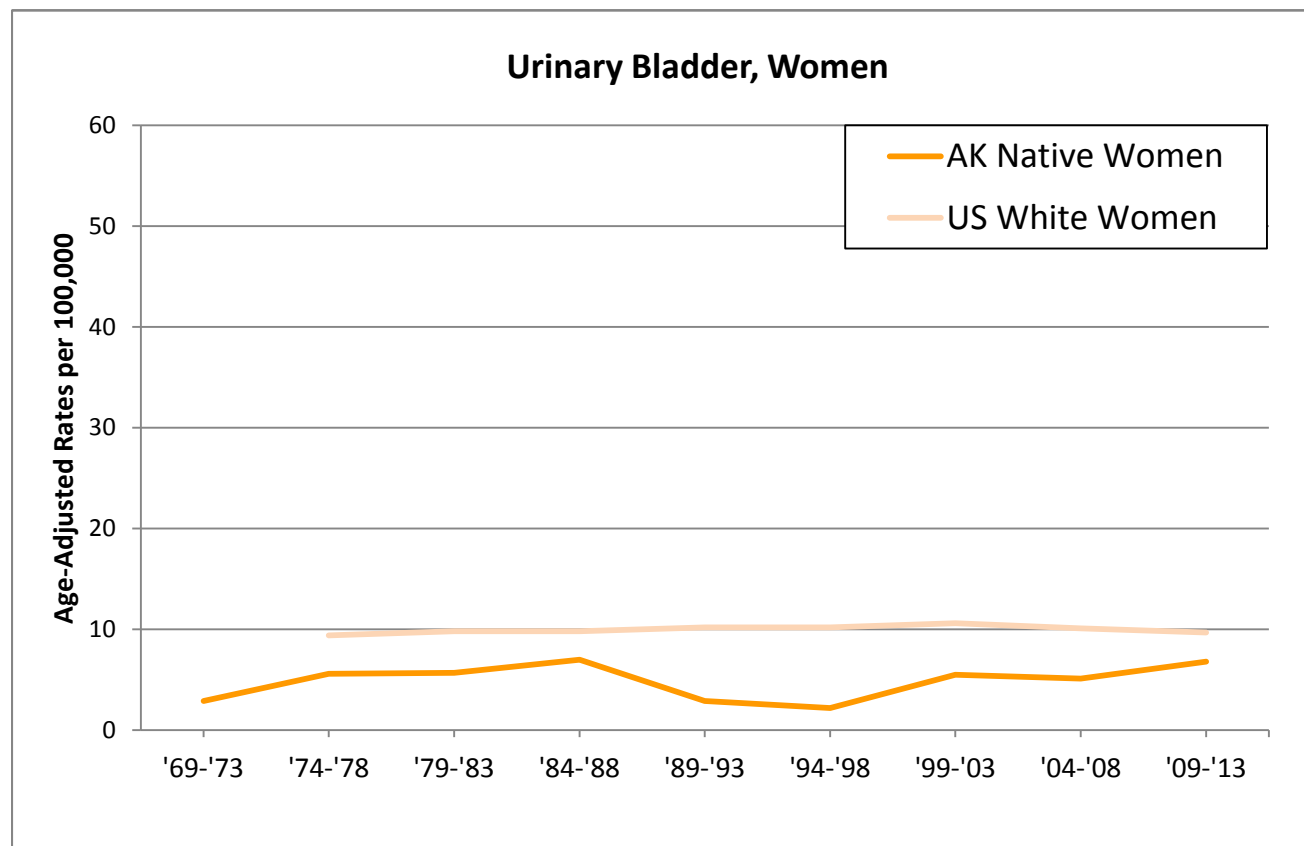
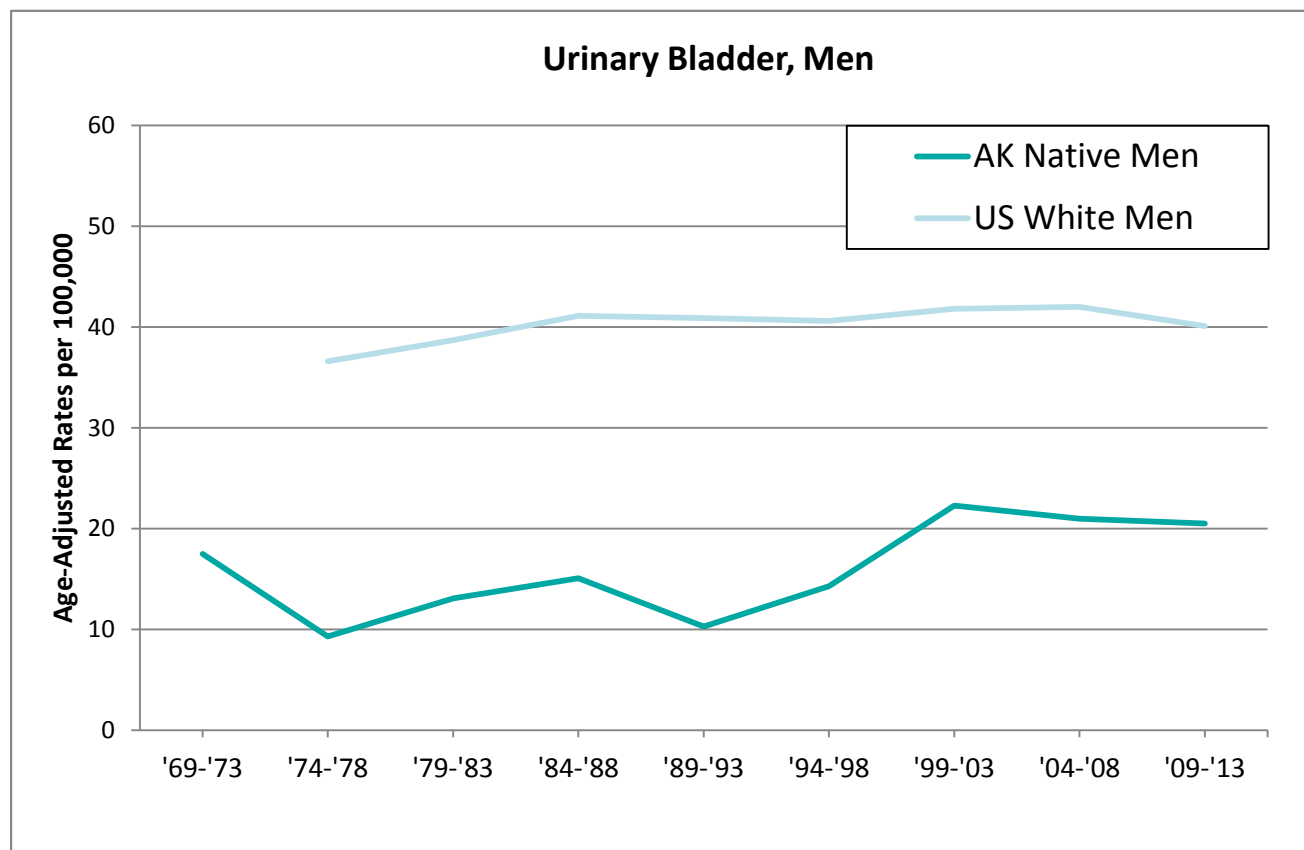
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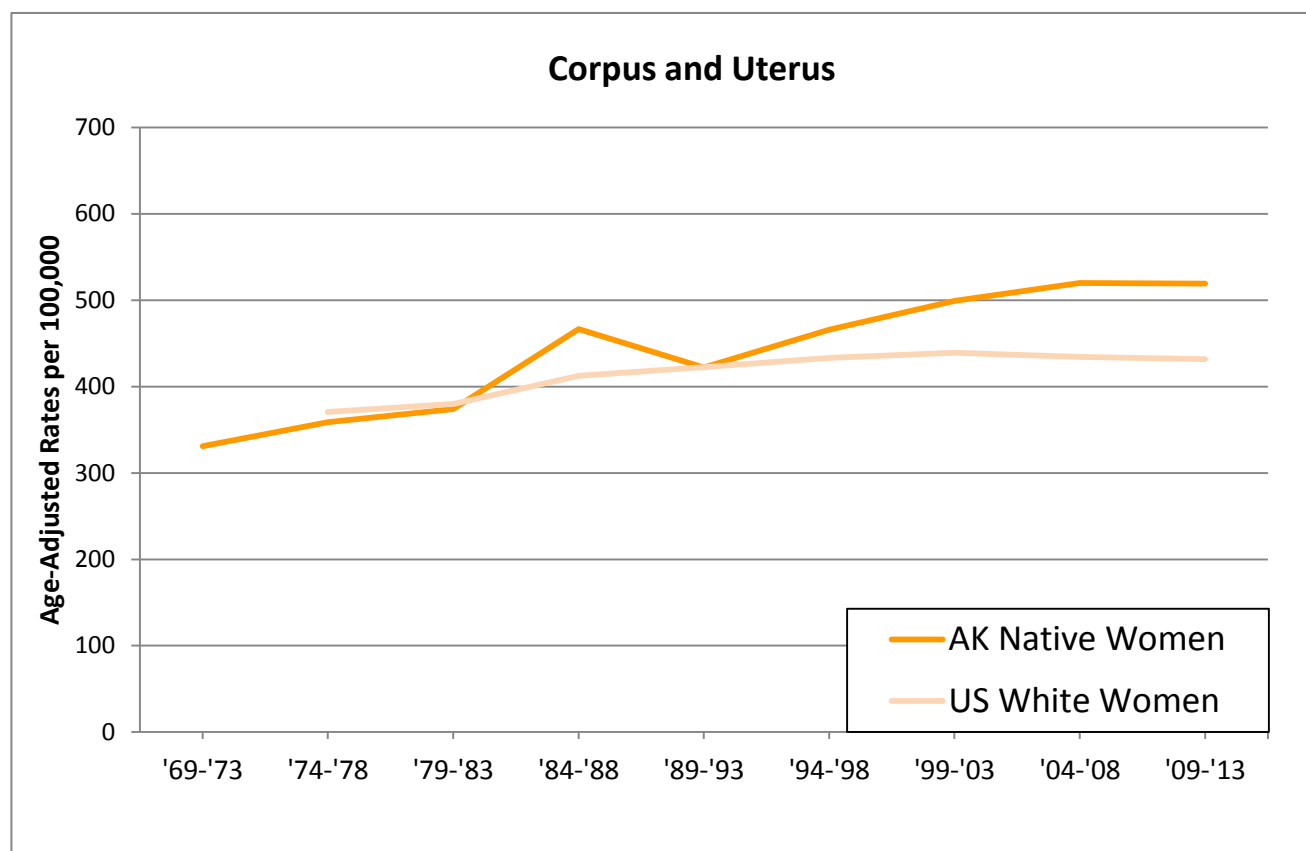
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Five Year Average Annual Cancer Incidence Rates Alaska Native People (1969-2013) and US Whites (1974-2013)



Five year average annual rates are age-adjusted to the Census 2000 US Standard population

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Leading Cancers among Alaska Native Men and Women by Tribal Health Region, 1984 - 2013

Aleutians and Pribilofs				Anchorage/Mat-Su				Arctic Slope			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Lung	52	21.6	1	Breast	406	19.1	1	Lung	109	25.5
2	Colon/Rectum	46	19.1	2	Lung	357	16.8	2	Colon/Rectum	98	8.7
3	Breast	33	13.7	3	Colon/Rectum	316	14.8	3	Breast	37	7.5
4	Prostate	17	7.1	4	Prostate	98	4.6	4	Stomach	32	5.2
5	Kidney	10	4.1	5	Oral/Pharynx	86	4.0	5	Prostate	22	4.7
6	Non-Hodgkin	8	3.3	6	Stomach	77	3.6	6	Kidney	20	2.8
7	Stomach	6	2.5	7	Kidney	72	3.4	7	Pancreas	12	2.6
8	Pancreas	6	2.5	8	Non-Hodgkin	63	3.0	8	Cervix	11	1.6
N=241	Total	178	73.9	N=2131	Total	1475	69.3	N=427	Total	341	58.5
Bristol Bay				Copper River/Prince William Sound				Interior			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Colon/Rectum	92	22.1	1	Colon/Rectum	35	19.9	1	Breast	215	18.5
2	Lung	70	16.8	2	Lung	35	19.9	2	Colon/Rectum	199	17.2
3	Breast	44	6.0	3	Breast	27	15.3	3	Lung	174	15.0
4	Prostate	25	5.0	4	Prostate	17	9.7	4	Kidney	77	6.6
5	Oral/Pharynx	21	4.6	5	Oral/Pharynx	6	3.4	5	Prostate	76	6.6
6	Kidney	19	4.3	6	Stomach	6	3.4	6	Oral/Pharynx	54	4.7
7	Stomach	18	3.6	7	Ovary	6	3.4	7	Stomach	38	3.3
8	Pancreas	15	2.4	8	Kidney	5	2.8	8	Pancreas	33	2.8
N=416	Total	304	64.9	N=176	Total	137	77.8	N=1160	Total	866	74.7
Kenai Peninsula				Kodiak Area				Northwest Arctic			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Lung	88	22.6	1	Lung	48	20.4	1	Colon/Rectum	81	10.8
2	Breast	56	11.3	2	Colon/Rectum	37	11.9	2	Lung	66	16.9
3	Colon/Rectum	44	5.4	3	Breast	28	8.1	3	Breast	42	10.3
4	Prostate	21	4.1	4	Prostate	19	6.8	4	Stomach	40	6.9
5	Kidney	16	3.6	5	Stomach	16	3.8	5	Kidney	27	2.8
6	Non-Hodgkin	14	3.3	6	Oral/Pharynx	9	3.4	6	Liver	11	2.6
7	Oral/Pharynx	13	3.3	7	Esophagus	8	2.6	7	Cervix	10	2.3
8	Thyroid	13	3.1	8	Kidney	6	2.1	8	Prostate	9	2.1
N=390	Total	265	56.7	N=235	Total	171	59.1	N=390	Total	286	54.6
Norton Sound				Southeast				Yukon-Kuskokwim			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Colon/Rectum	127	11.4	1	Breast	255	19.0	1	Colon/Rectum	293	24.3
2	Lung	119	20.6	2	Colon/Rectum	184	13.7	2	Lung	227	18.9
3	Breast	66	6.9	3	Prostate	157	11.7	3	Breast	105	8.7
4	Stomach	40	5.5	4	Lung	149	11.1	4	Stomach	77	6.4
5	Oral/Pharynx	32	2.9	5	Kidney	55	4.1	5	Kidney	64	5.3
6	Pancreas	17	2.9	6	Non-Hodgkin	46	3.4	6	Pancreas	42	3.5
7	Non-Hodgkin	17	2.8	7	Urinary Bladder	39	2.9	7	Oral/Pharynx	39	3.2
8	Kidney	16	2.4	8	Oral/Pharynx	38	2.8	8	Prostate	33	2.7
N=579	Total	434	55.5	N=1342	Total	923	68.7	N=1204	Total	880	73.0

Leading Cancers among Alaska Native Men by Tribal Health Region, 1984 - 2013

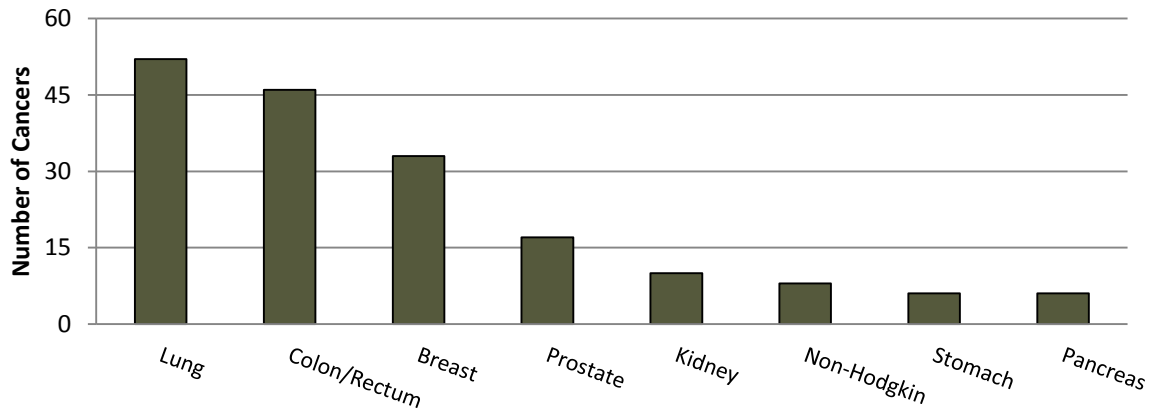
Aleutians and Pribilofs				Anchorage/Mat-Su				Arctic Slope			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Colon/Rectum	30	25.0	1	Lung	172	20.7	1	Lung	81	33.5
2	Lung	23	19.2	2	Colon/Rectum	125	15.1	2	Colon/Rectum	47	19.4
3	Prostate	17	14.2	3	Prostate	98	11.8	3	Prostate	22	9.1
4	Oral/Pharynx	13	10.8	4	Oral/Pharynx	47	5.7	4	Stomach	19	7.9
5	Kidney	5	4.2	5	Stomach	43	5.2	5	Kidney	15	6.2
6	Pancreas	4	3.3	6	Kidney	38	4.6	6	Pancreas	9	3.7
7	Non-Hodgkin	4	3.3	7	Leukemia	36	4.3	7	Urinary Bladder	6	2.5
8	Esophagus	3	2.5	8	Urinary Bladder	28	3.4	8	Non-Hodgkin	5	2.1
N=120	Total	99	82.5	N=830	Total	587	70.7	N=242	Total	204	84.3
Bristol Bay				Copper River/Prince William Sound				Interior			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Colon/Rectum	46	21.7	1	Lung	25	28.7	1	Colon/Rectum	100	19.6
2	Lung	35	16.5	2	Prostate	17	19.5	2	Lung	100	19.6
3	Prostate	25	11.8	3	Colon/Rectum	14	16.1	3	Prostate	76	14.9
4	Oral/Pharynx	18	8.5	4	Oral/Pharynx	4	4.6	4	Kidney	39	7.7
5	Urinary Bladder	14	6.6	5	Stomach	4	4.6	5	Oral/Pharynx	34	6.7
6	Kidney	13	6.1	6	Kidney	3	3.4	6	Stomach	25	4.9
7	Stomach	11	5.2	7	Non-Hodgkin	3	3.4	7	Testis	20	3.9
8	Liver	7	3.3	8	Liver	2	2.3	8	Urinary Bladder	16	3.1
N=212	Total	169	79.7	N=87	Total	72	82.7	N=509	Total	410	80.5
Kenai Peninsula				Kodiak Area				Northwest Arctic			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Lung	38	22.6	1	Lung	27	20.5	1	Colon/Rectum	42	22.5
2	Colon/Rectum	22	13.1	2	Colon/Rectum	22	16.7	2	Lung	40	21.4
3	Prostate	21	12.5	3	Prostate	19	14.4	3	Stomach	25	13.4
4	Kidney	11	6.5	4	Stomach	11	8.3	4	Kidney	13	7.0
5	Oral/Pharynx	9	5.4	5	Esophagus	8	6.1	5	Prostate	9	4.8
6	Stomach	8	4.8	6	Oral/Pharynx	6	4.5	6	Liver	8	4.3
7	Urinary Bladder	7	4.2	7	Kidney	6	4.5	7	Oral/Pharynx	5	2.7
8	Non-Hodgkin	7	4.2	8	Leukemia	4	3.0	8	Pancreas	5	2.7
N=168	Total	123	73.2	N=132	Total	103	78.1	N=187	Total	147	78.6
Norton Sound				Southeast				Yukon-Kuskokwim			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Lung	76	25.2	1	Prostate	157	24.3	1	Lung	168	27.6
2	Colon/Rectum	65	21.5	2	Colon/Rectum	106	16.4	2	Colon/Rectum	134	22.0
3	Stomach	30	9.9	3	Lung	81	12.5	3	Stomach	54	8.9
4	Oral/Pharynx	21	7.0	4	Kidney	32	5.0	4	Prostate	33	5.4
5	Prostate	14	4.6	5	Non-Hodgkin	30	4.6	5	Kidney	30	4.9
6	Liver	10	3.3	6	Oral/Pharynx	29	4.5	6	Oral/Pharynx	24	3.9
7	Esophagus	9	3.0	7	Non-Hodgkin	27	4.2	7	Pancreas	23	3.8
8	Pancreas	9	3.0	8	Pancreas	19	2.9	8	Liver	20	3.3
N=302	Total	234	77.5	N=646	Total	481	74.4	N=609	Total	486	79.8

Leading Cancers among Alaska Native Women by Tribal Health Region, 1984 - 2013

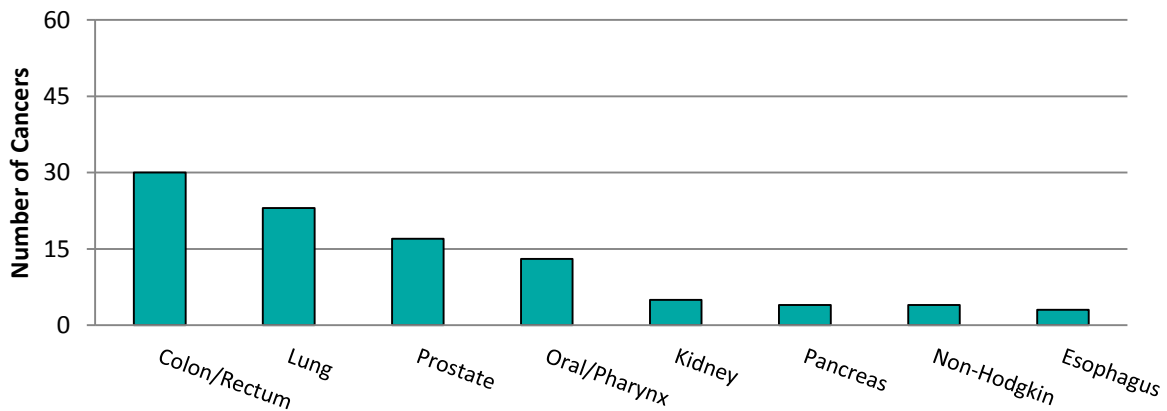
Aleutians and Pribilofs				Anchorage/Mat-Su				Arctic Slope			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Breast	33	27.3	1	Breast	404	31.1	1	Colon/Rectum	51	27.6
2	Lung	29	24.0	2	Colon/Rectum	191	14.7	2	Breast	36	19.5
3	Colon/Rectum	16	13.2	3	Lung	185	14.2	3	Lung	28	15.1
4	Kidney	5	4.1	4	Cervix	42	3.2	4	Stomach	13	7.0
5	Corpus Uteri	4	3.3	5	Corpus Uteri	40	3.1	5	Cervix	11	5.9
6	Thyroid	4	3.3	6	Thyroid	40	3.1	6	Ovary	7	3.8
7	Non-Hodgkin	4	3.3	7	Oral/Pharynx	39	3.0	7	Thyroid	6	3.2
8	Oral/Pharynx	3	2.5	8	Non-Hodgkin	36	2.8	8	Kidney	5	2.7
N=121	Total	98	81.0	N=1301	Total	977	75.1	N=185	Total	157	84.8
Bristol Bay				Copper River/Prince William Sound				Interior			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Colon/Rectum	46	22.5	1	Breast	27	30.3	1	Breast	215	33.0
2	Breast	44	21.6	2	Colon/Rectum	21	23.6	2	Colon/Rectum	99	15.2
3	Lung	35	17.2	3	Lung	10	11.2	3	Lung	74	11.4
4	Pancreas	8	3.9	4	Ovary	6	6.7	4	Kidney	38	5.8
5	Thyroid	8	3.9	5	Leukemia	4	4.5	5	Thyroid	25	3.8
6	Stomach	7	3.4	6	Oral/Pharynx	2	2.2	6	Corpus Uteri	23	3.5
7	Leukemia	7	3.4	7	Esophagus	2	2.2	7	Pancreas	22	3.4
8	Kidney	6	2.9	8	Stomach	2	2.2	8	Oral/Pharynx	20	3.1
N=204	Total	161	79.0	N=89	Total	74	83.1	N=651	Total	516	79.3
Kenai Peninsula				Kodiak Area				Northwest Arctic			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Breast	56	25.2	1	Breast	28	27.2	1	Breast	42	20.7
2	Lung	50	22.5	2	Lung	21	20.4	2	Colon/Rectum	39	19.2
3	Colon/Rectum	22	9.9	3	Colon/Rectum	15	14.6	3	Lung	26	12.8
4	Thyroid	12	5.4	4	Stomach	5	4.9	4	Stomach	15	7.4
5	Corpus Uteri	10	4.5	5	Corpus Uteri	5	4.9	5	Kidney	14	6.9
6	Non-Hodgkin	7	3.2	6	Oral/Pharynx	3	2.9	6	Cervix	10	4.9
7	Pancreas	6	2.7	7	Pancreas	3	2.9	7	Corpus Uteri	6	3.0
8	Cervix	6	2.7	8	Thyroid	3	2.9	8	Thyroid	5	2.5
N=222	Total	169	76.1	N=103	Total	83	80.6	N=203	Total	157	77.3
Norton Sound				Southeast				Yukon-Kuskokwim			
Rank	Site	Count	% Total	Rank	Site	Count	% Total	Rank	Site	Count	% Total
1	Breast	66	23.8	1	Breast	254	36.5	1	Colon/Rectum	159	26.7
2	Colon/Rectum	62	22.4	2	Colon/Rectum	78	11.2	2	Breast	104	17.5
3	Lung	43	15.5	3	Lung	68	9.8	3	Lung	59	9.9
4	Oral/Pharynx	11	4.0	4	Corpus Uteri	34	4.9	4	Kidney	34	5.7
5	Stomach	10	3.6	5	Kidney	23	3.3	5	Stomach	23	3.9
6	Cervix	9	3.2	6	Cervix	21	3.0	6	Cervix	21	3.5
7	Non-Hodgkin	9	3.2	7	Ovary	20	2.9	7	Pancreas	19	3.2
8	Pancreas	8	2.9	8	Thyroid	19	2.7	8	Oral/Pharynx	15	2.5
N=277	Total	218	78.7	N=696	Total	517	74.3	N=595	Total	434	72.9

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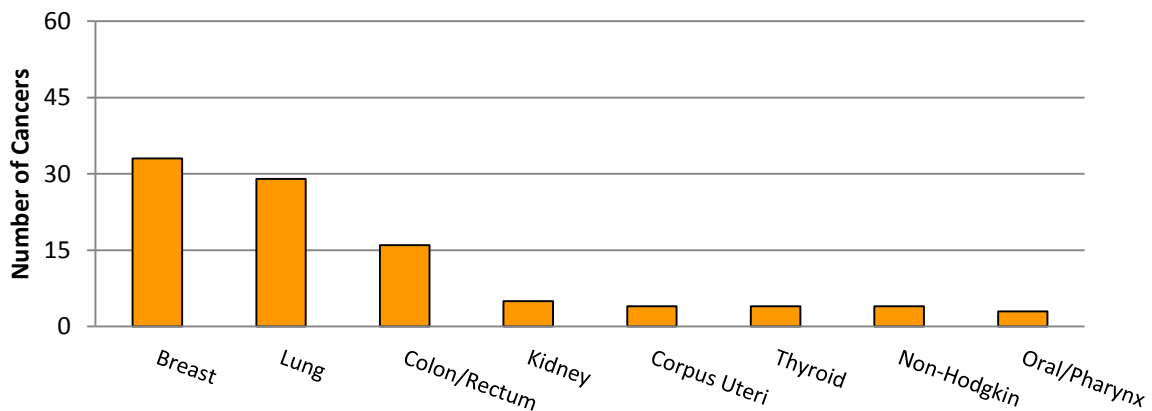
Leading Cancers among Alaska Native Men & Women Aleutian and Pribilof Tribal Health Region, 1984-2013



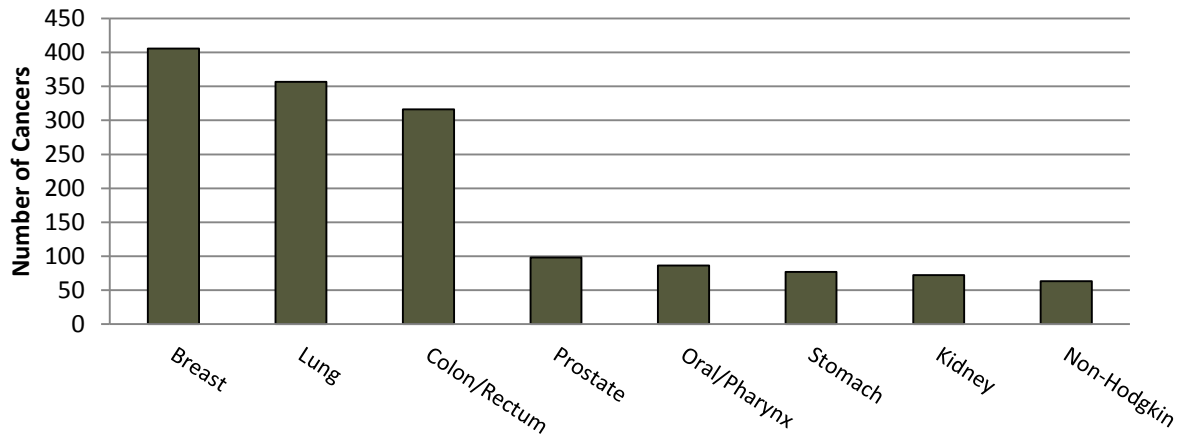
Leading Cancers among Alaska Native Men Aleutian and Pribilof Tribal Health Region, 1984-2013



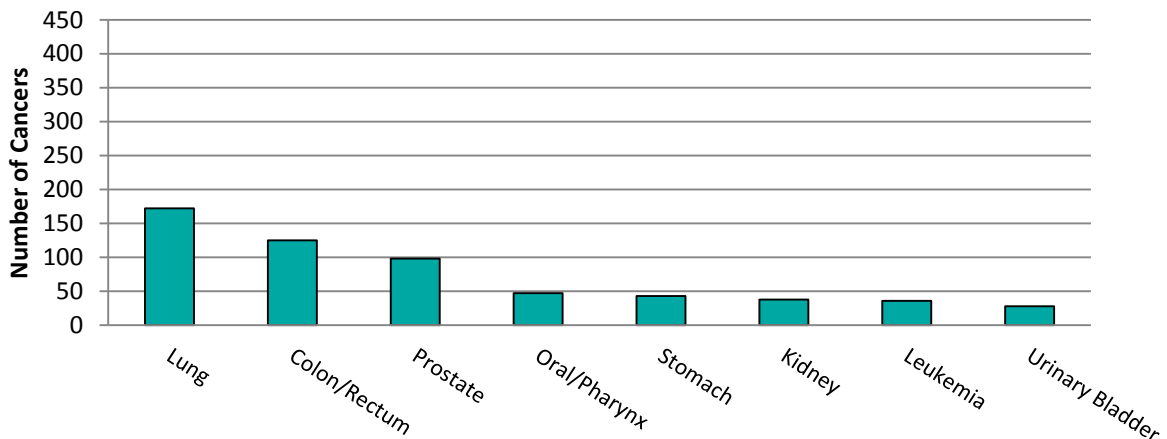
Leading Cancers among Alaska Native Women Aleutian and Pribilof Tribal Health Region, 1984-2013



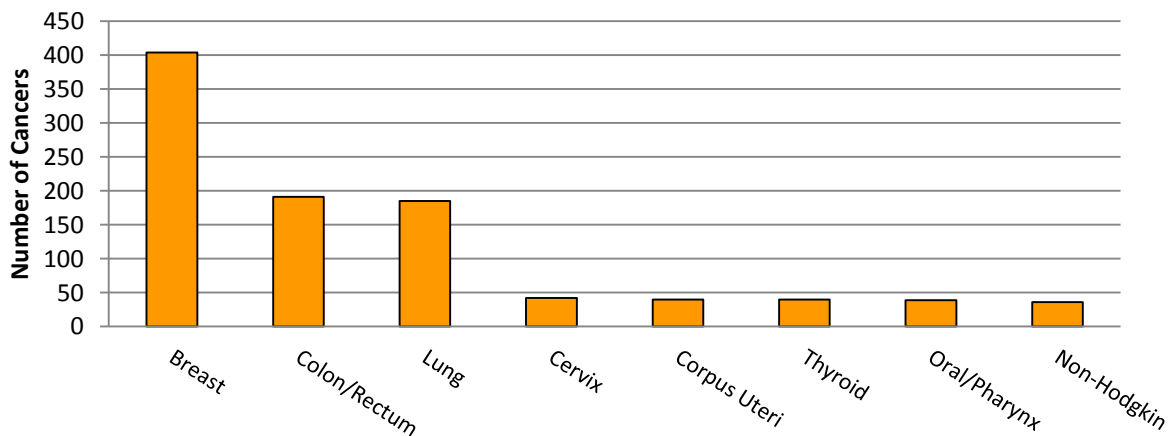
**Leading Cancers among Alaska Native Men & Women
Anchorage/Mat-Su Tribal Health Region, 1984-2013**



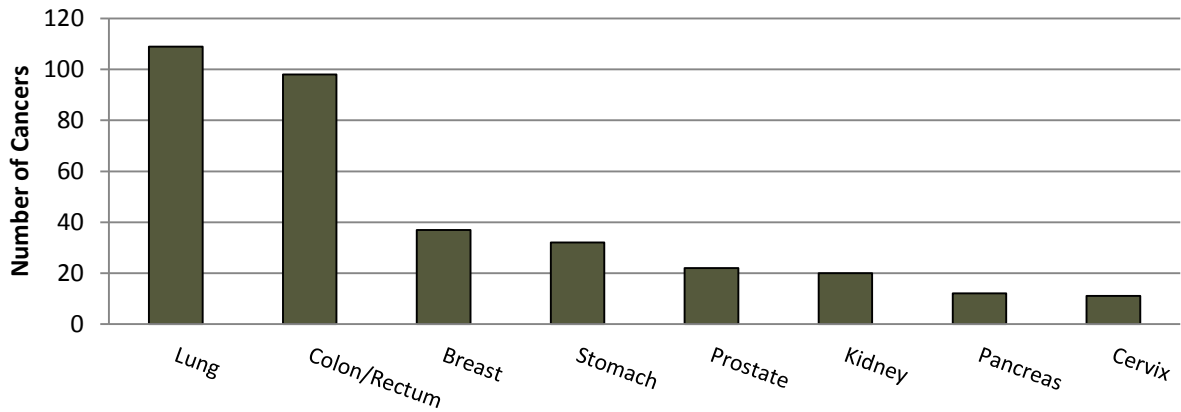
**Leading Cancers among Alaska Native Men
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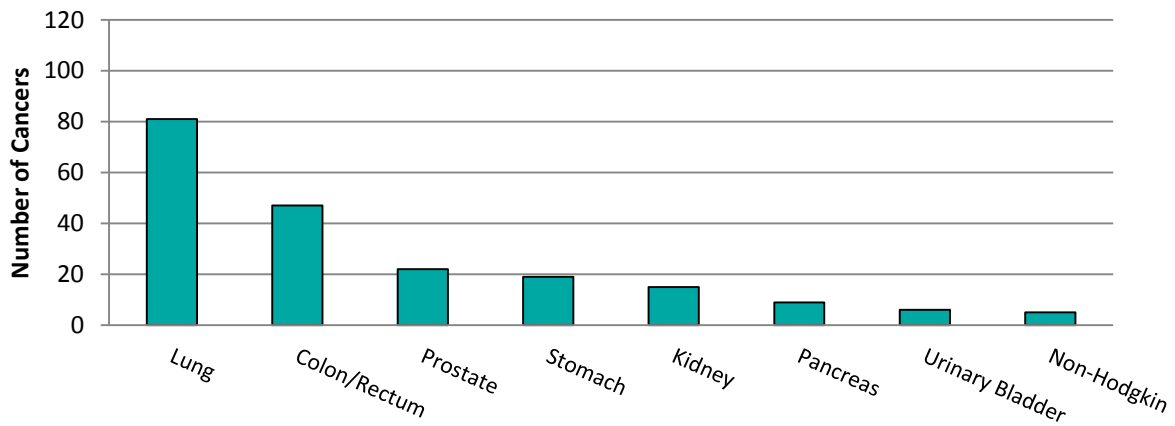
**Leading Cancers among Alaska Native Women
Anchorage/Mat-Su Tribal Health Region, 1984-2013**



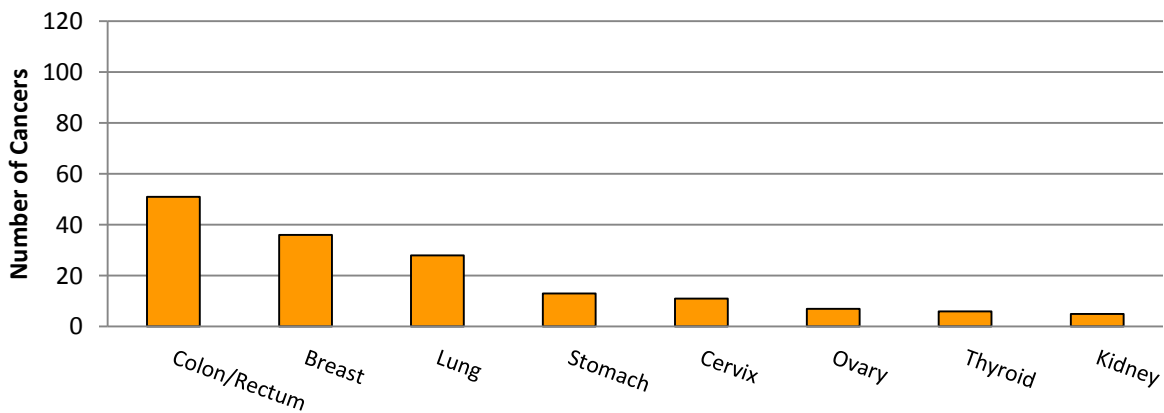
**Leading Cancers among Alaska Native Men & Women
Arctic Slope Tribal Health Region, 1984-2013**



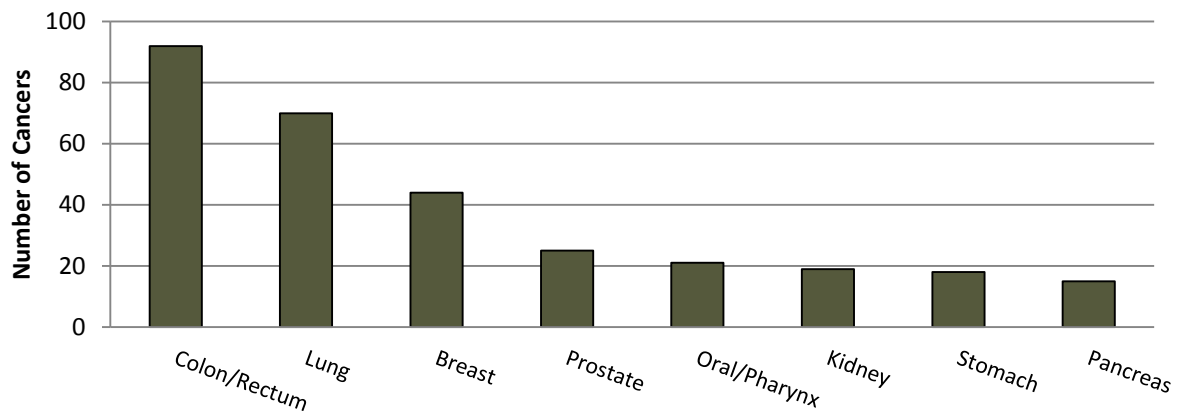
**Leading Cancers among Alaska Native Men
Arctic Slope Tribal Health Region, 1984-2013**



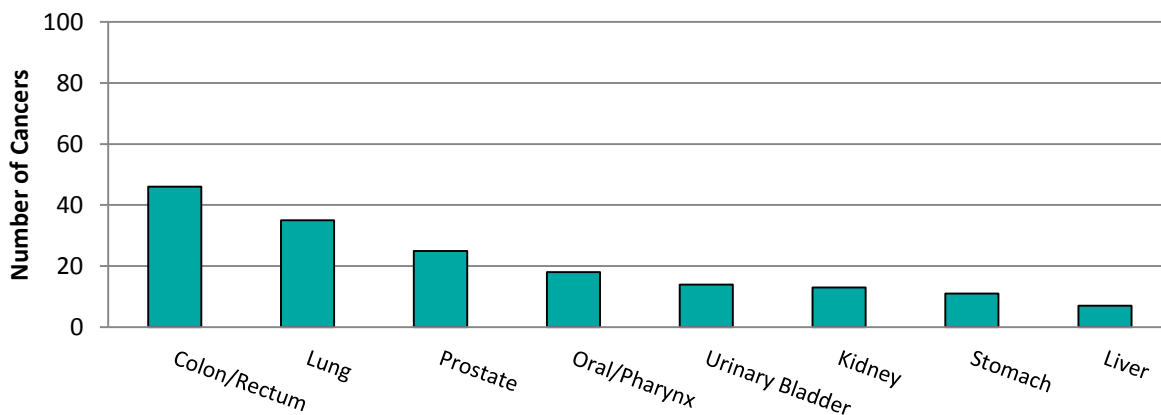
**Leading Cancers among Alaska Native Women
Arctic Slope Tribal Health Region, 1984-2013**



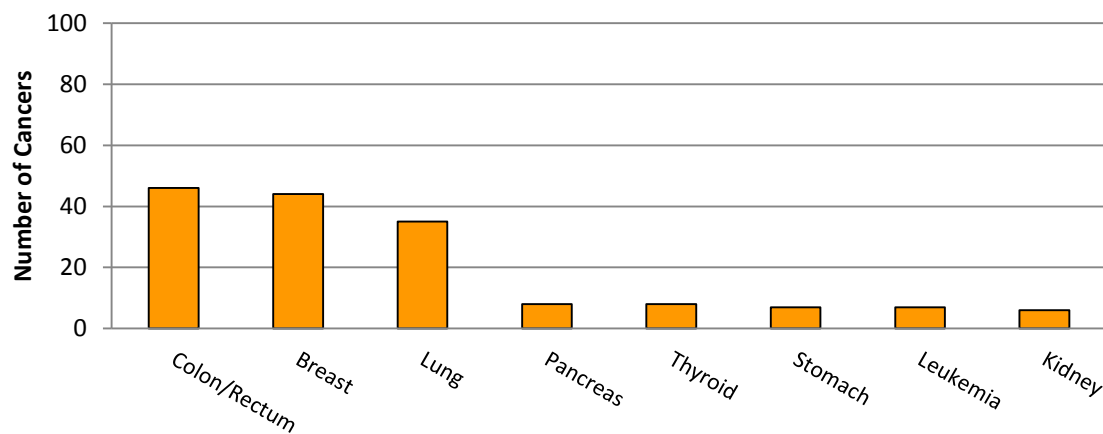
Leading Cancers among Alaska Native Men & Women Bristol Bay Tribal Health Region, 1984-2013



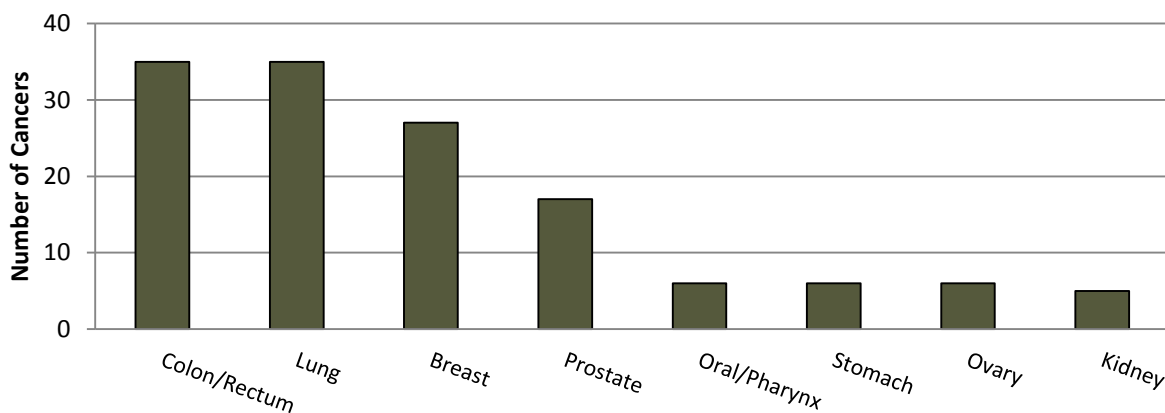
Leading Cancers among Alaska Native Men Bristol Bay Tribal Health Region, 1984-2013



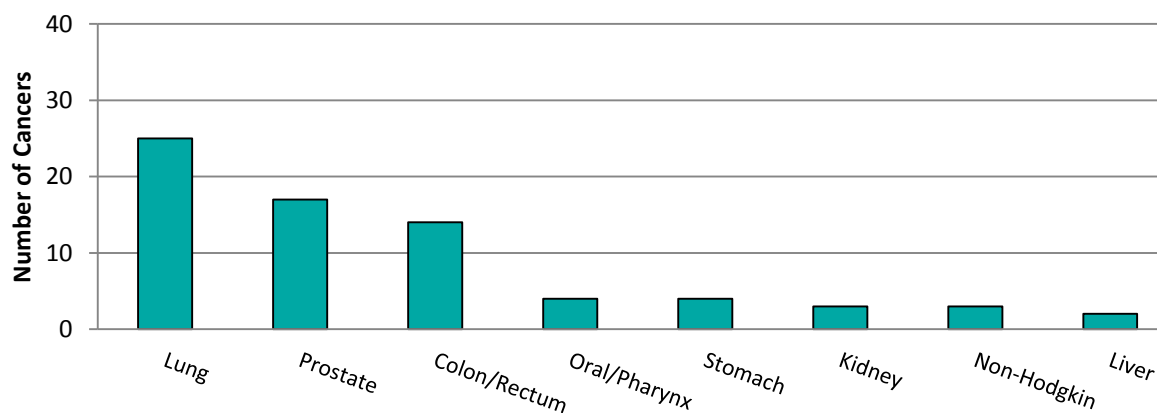
Leading Cancers among Alaska Native Women Bristol Bay Tribal Health Region, 1984-2013



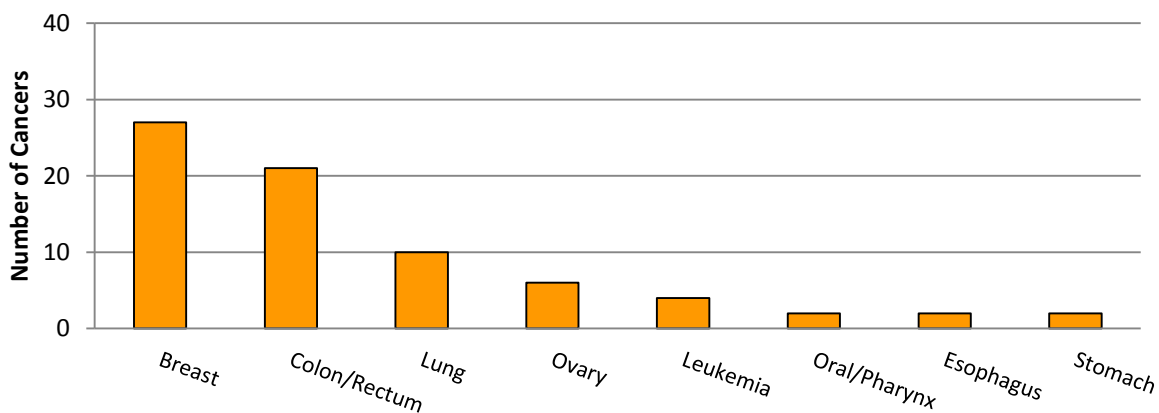
**Leading Cancers among Alaska Native Men & Women
Copper River/Prince William Sound Tribal Health Region, 1984-2013**



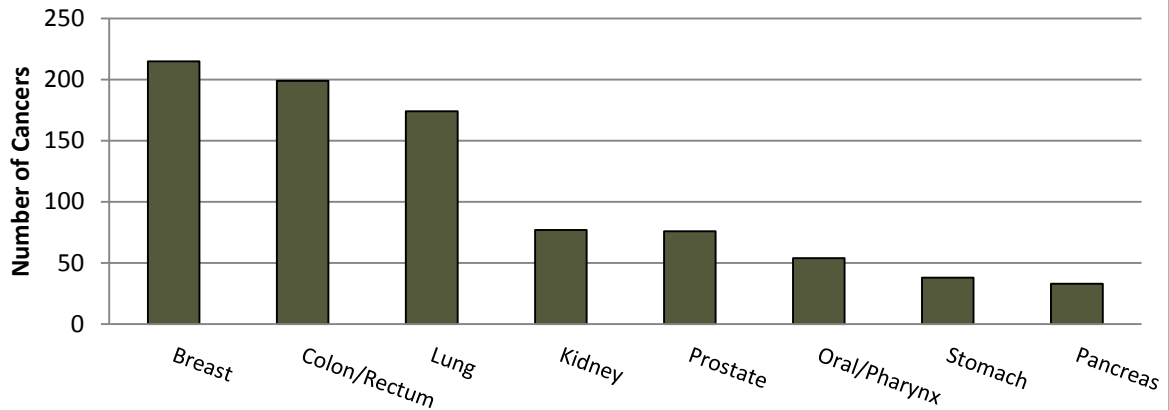
**Leading Cancers among Alaska Native Men
Copper River/Prince William Sound Tribal Health Region, 1984-2013**



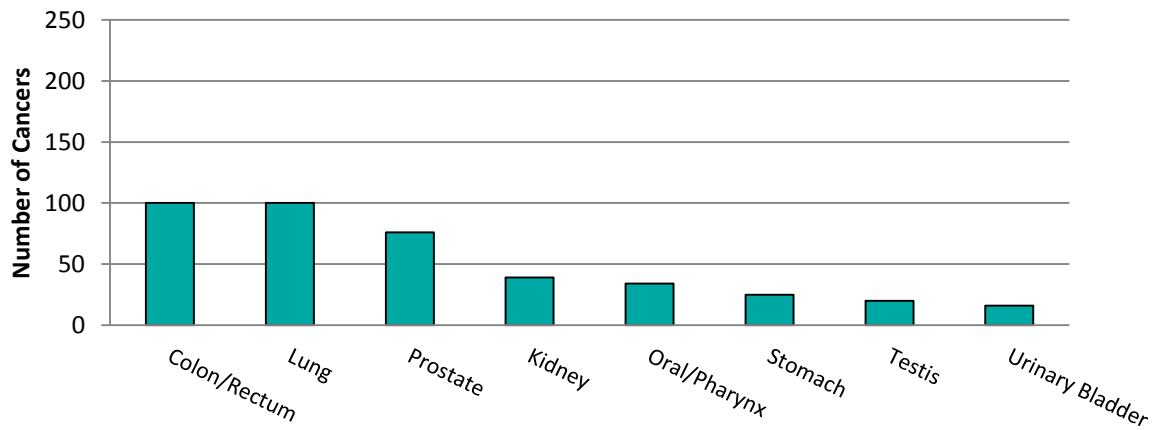
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Copper River/Prince William Sound Tribal Health Region, 1984-2013**



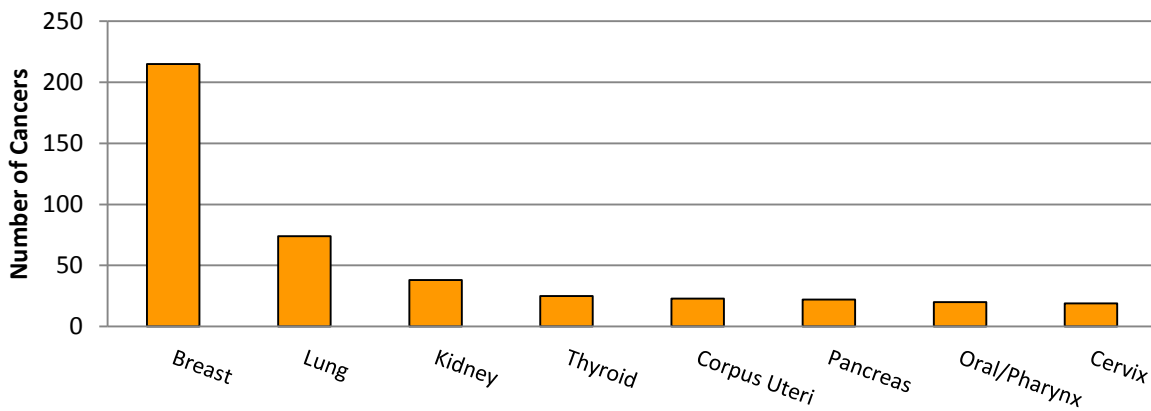
**Leading Cancers among Alaska Native Men & Women
Interior Tribal Health Region, 1984-2013**



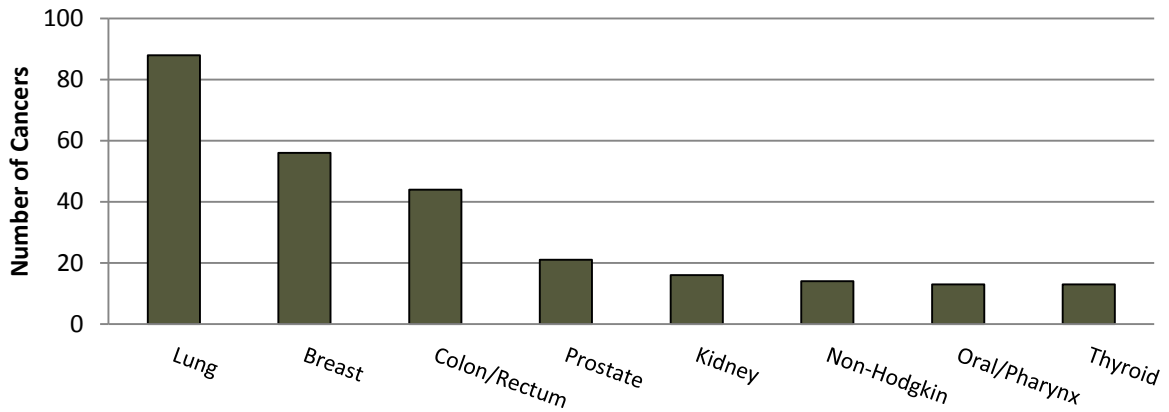
**Leading Cancers among Alaska Native Men
Interior Tribal Health Region, 1984-2013**



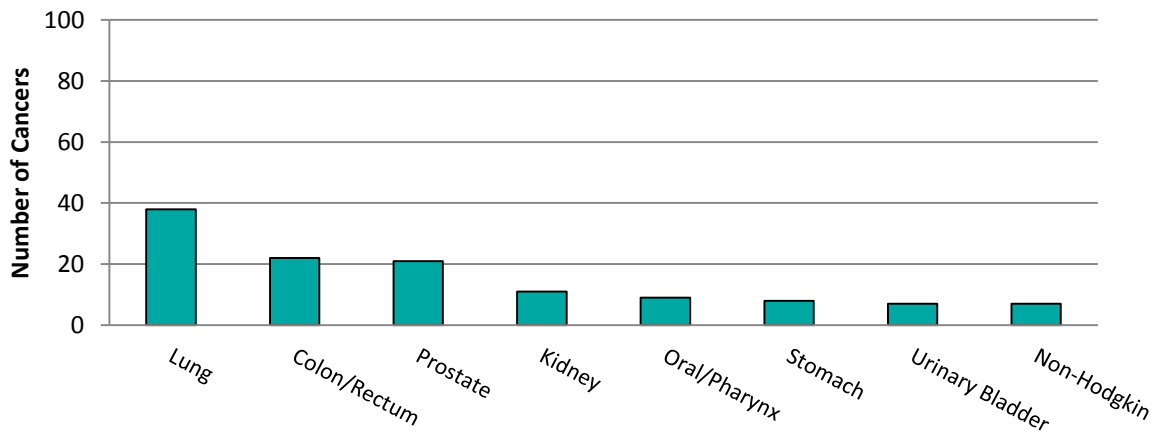
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Interior Tribal Health Region, 1984-2013**



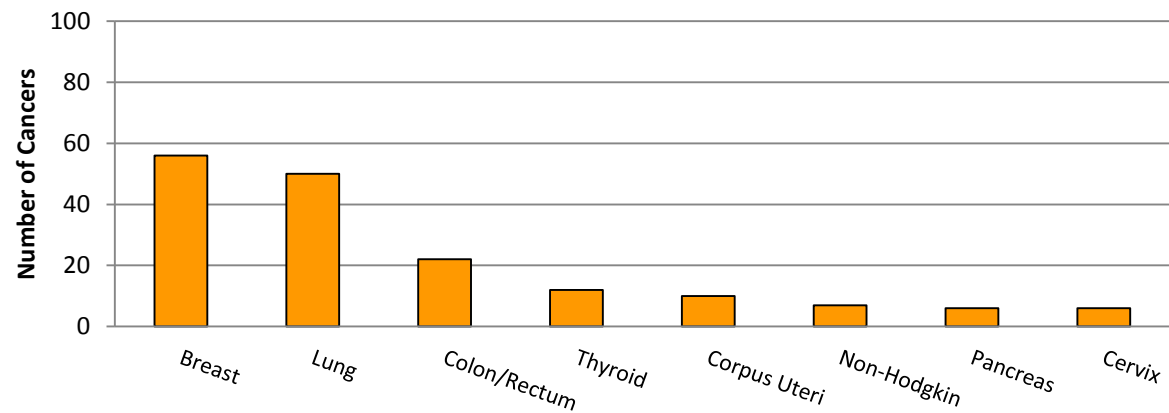
Leading Cancers among Alaska Native Men & Women Kenai Peninsula Tribal Health Region, 1984-2013



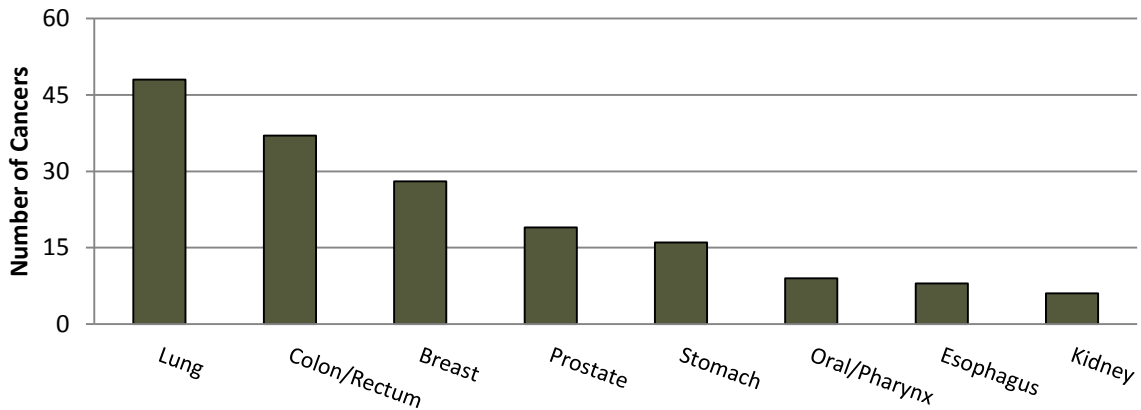
Leading Cancers among Alaska Native Men Kenai Peninsula Tribal Health Region, 1984-2013



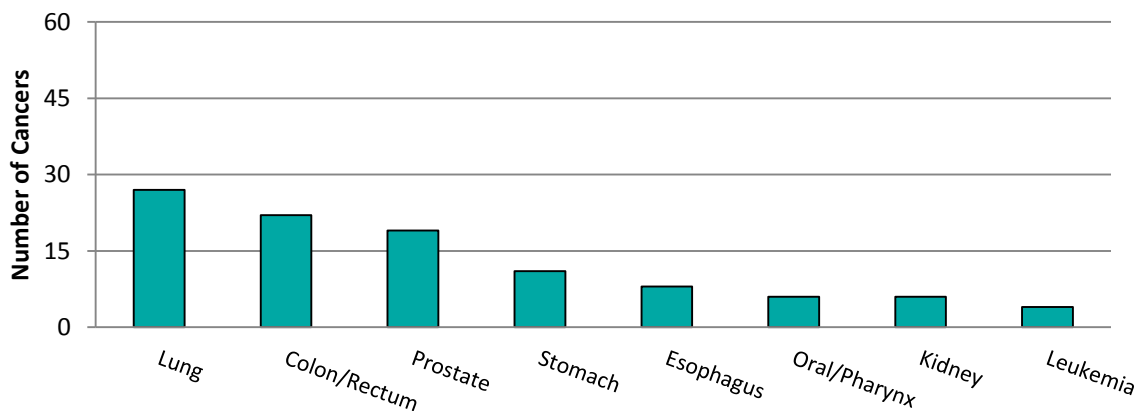
Leading Cancers among Alaska Native Women Kenai Peninsula Tribal Health Region, 1984-2013



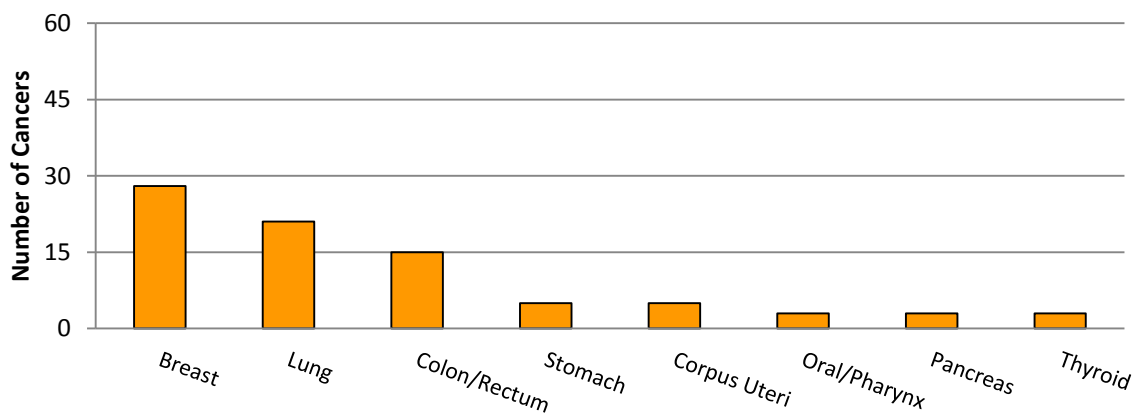
**Leading Cancers among Alaska Native Men & Women
Kodiak Area Tribal Health Region, 1984-2013**



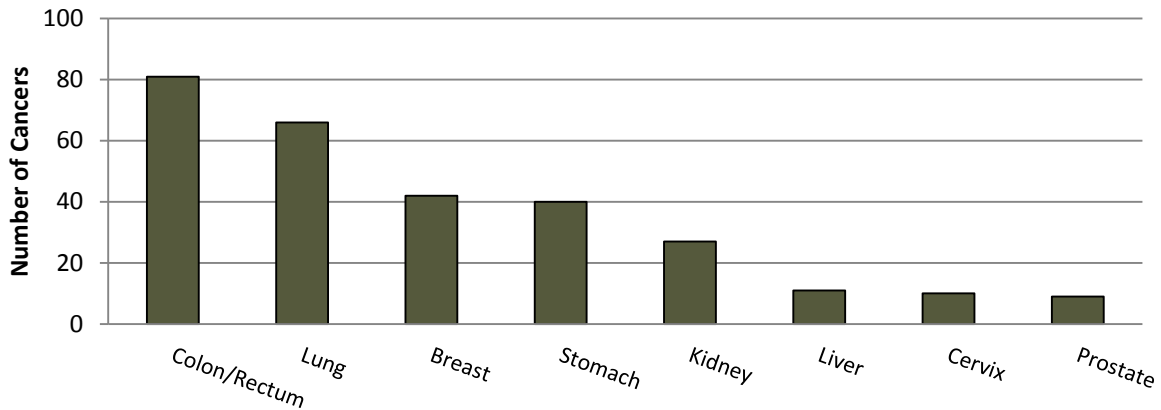
**Leading Cancers among Alaska Native Men
Kodiak Area Tribal Health Region, 1984-2013**



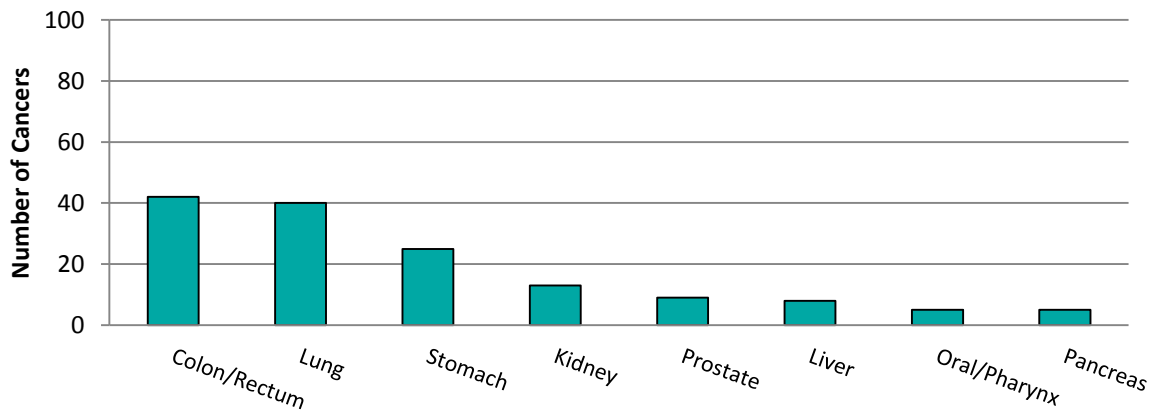
**Leading Cancers among Alaska Native Women
Kodiak Area Tribal Health Region, 1984-2013**



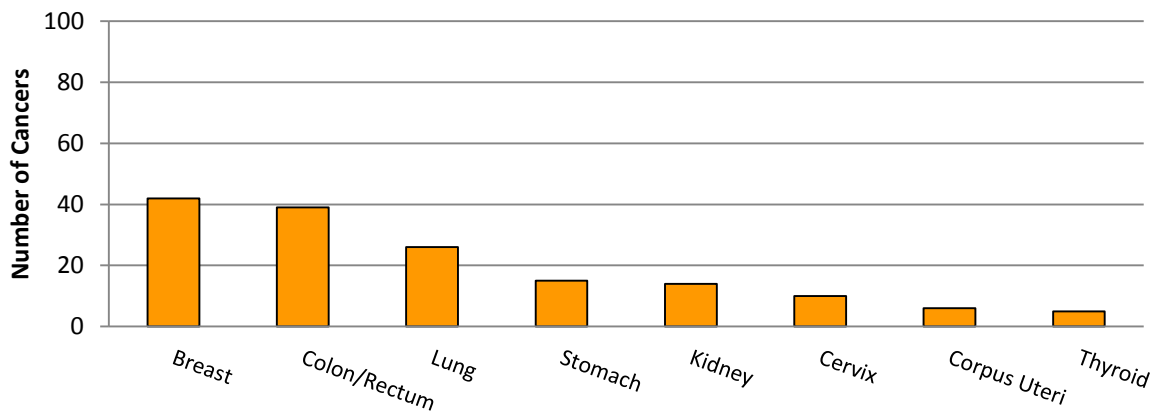
Leading Cancers among Alaska Native Men & Women Northwest Arctic Tribal Health Region, 1984-2013



Leading Cancers among Alaska Native Men Northwest Arctic Tribal Health Region, 1984-2013



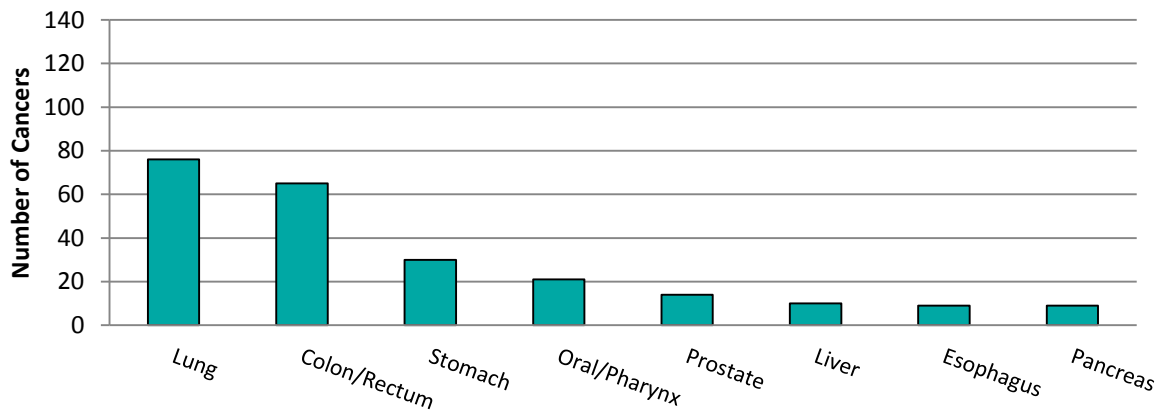
Leading Cancers among Alaska Native Women Northwest Arctic Tribal Health Region, 1984-2013



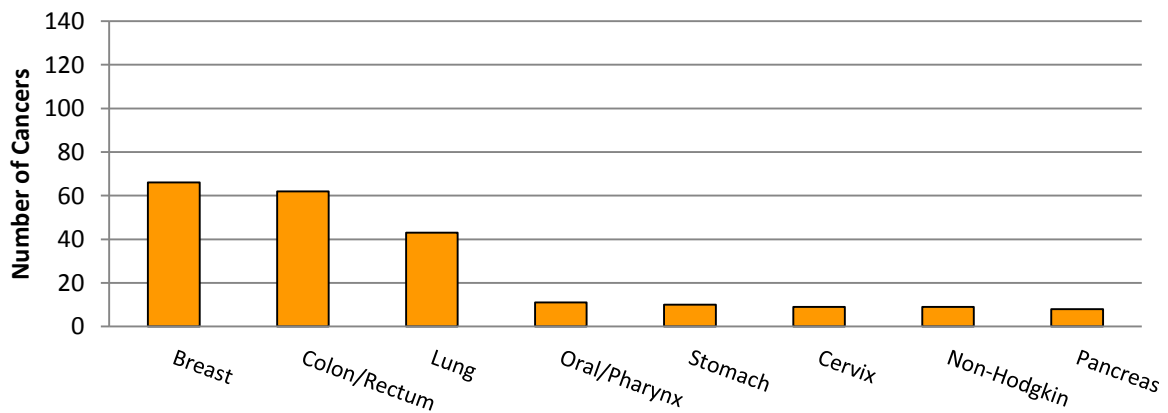
Leading Cancers among Alaska Native Men & Women Norton Sound Tribal Health Region, 1984-2013



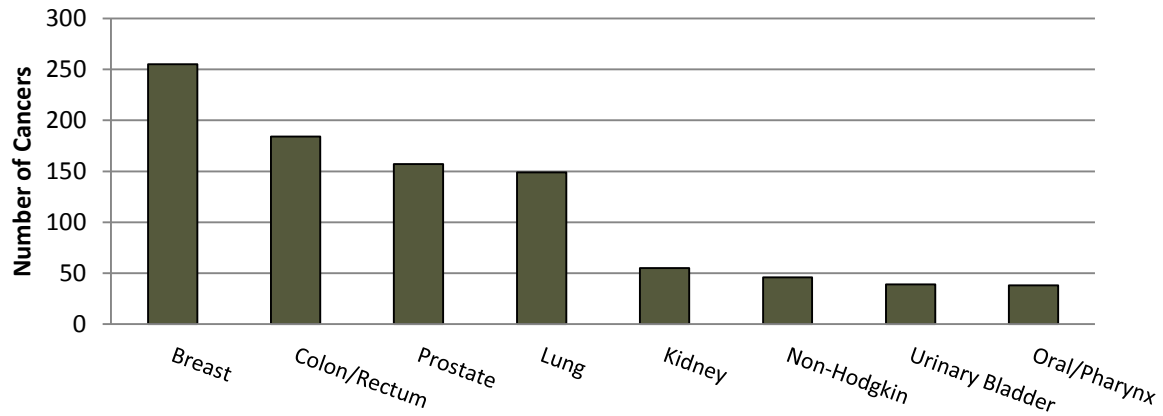
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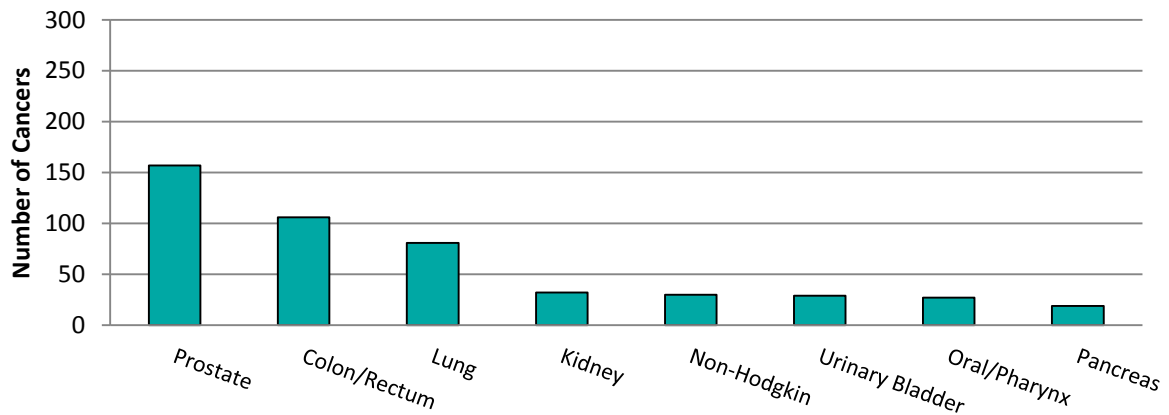
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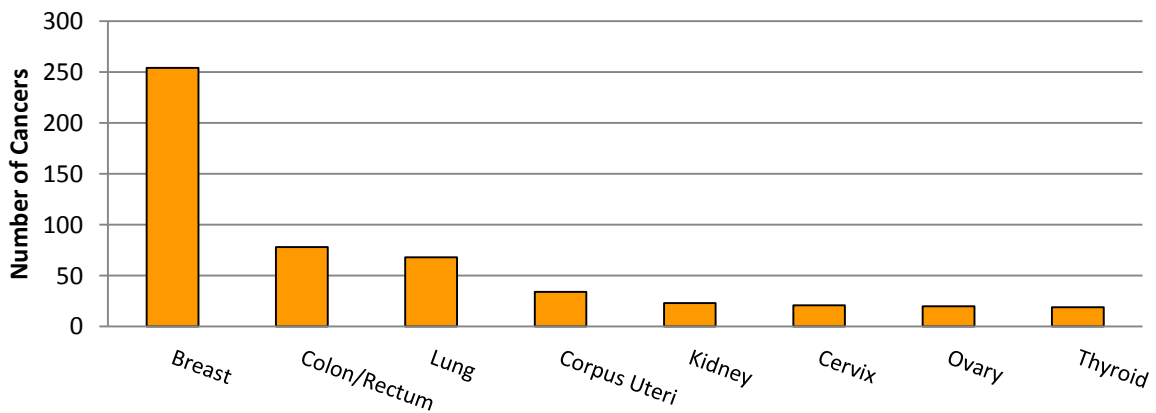
**Leading Cancers among Alaska Native Men & Women
Southeast Tribal Health Region, 1984-2013**



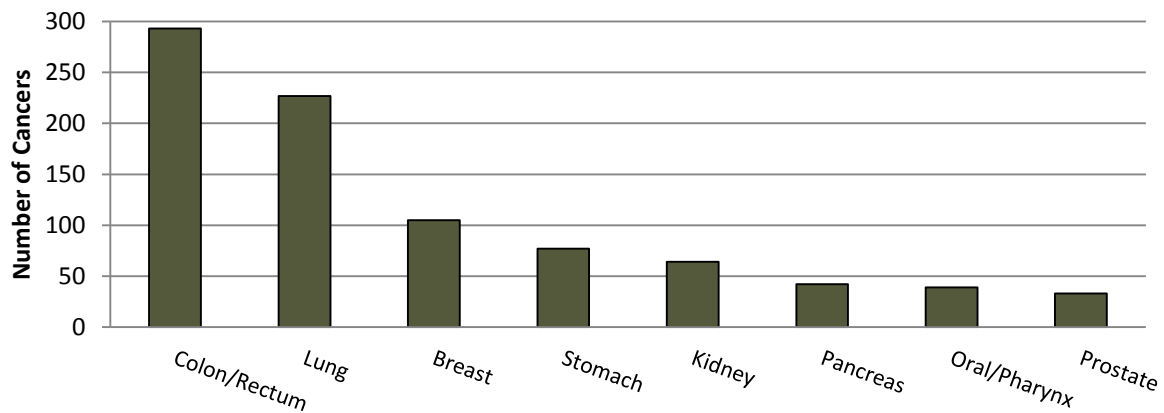
**Leading Cancers among Alaska Native Men
Southeast Tribal Health Region, 1984-2013**



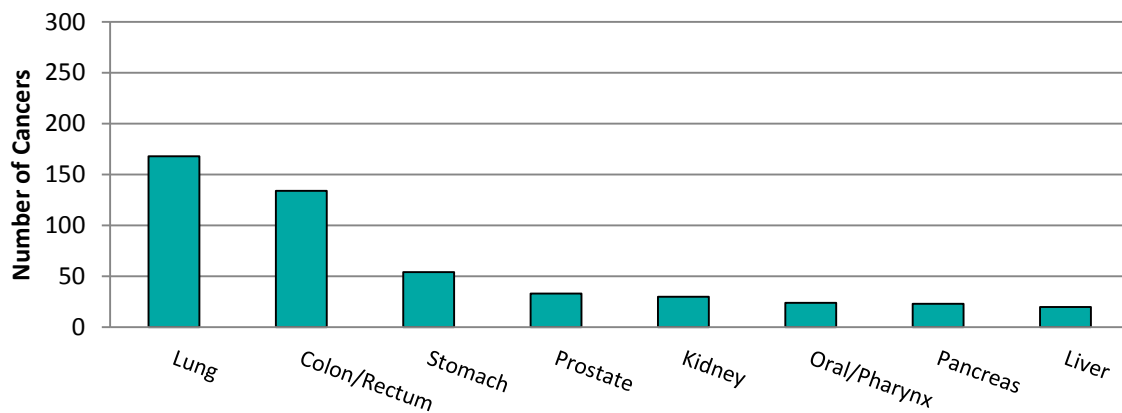
**Leading Cancers among Alaska Native Women
Southeast Tribal Health Region, 1984-2013**



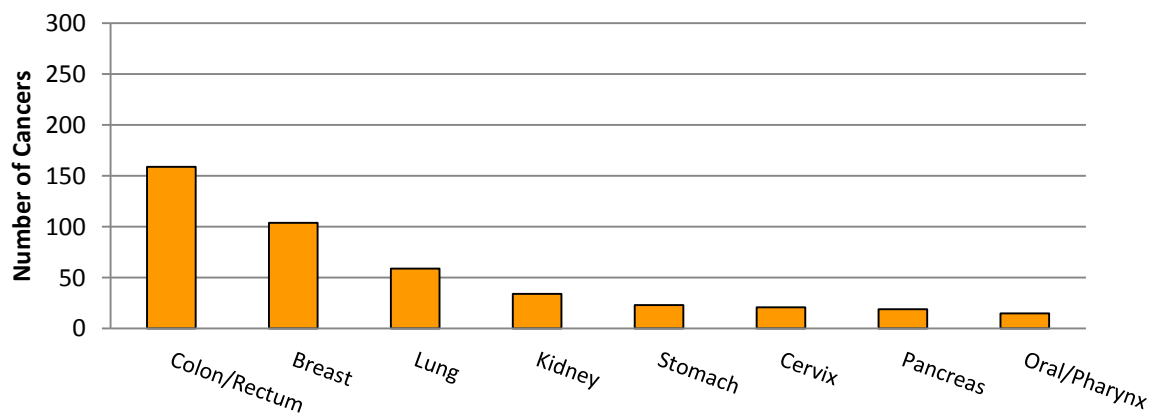
Leading Cancers among Alaska Native Men & Women Yukon-Kuskokwim Tribal Health Region, 1984-2013



Leading Cancers among Alaska Native Men Yukon-Kuskokwim Tribal Health Region, 1984-2013



Leading Cancers among Alaska Native Women Yukon-Kuskokwim Tribal Health Region, 1984-2013



**Ten-Year Average Annual Age-Adjusted Cancer Incidence Rates
per 100,000 by Tribal Health Region, 1984 - 2013
Four Leading Cancers, Men and Women Combined**

Tribal Health Region	Years	Colon & Rectum		Lung		Breast δ		Prostate	
		Count	Rate	Count	Rate	Count	Rate	Count	Rate
Alaska	1984-1993	330	93.8	347	91.8	231	96.2	109	70.5
	1994-2003	545	107.3	504	98.5	468	138.9	182	82.6
	2004-2013	679	91.9	645	95.1	613	137.4	218	64.8
Aleutians and Pribilofs	1984-1993	15	153.8	14	96.9	4	67.9	7	136.2
	1994-2003	17	122.5	20	131.0	14	163.1	6	211.3
	2004-2013	14	93.3	18	117.5	15	190.8	4	54.4
Anchorage/Mat-Su	1984-1993	60	96.7	50	71.9	49	99.6	15	56.0
	1994-2003	108	96.6	111	103.9	160	180.3	35	94.6
	2004-2013	148	80.0	196	109.4	195	148.5	48	67.7
Arctic Slope	1984-1993	18	86.7	27	142.2	9	72.9	5	71.0
	1994-2003	30	114.1	38	148.7	12	75.1	5	40.6
	2004-2013	50	178.7	44	163.8	15	79.7	12	74.4
Bristol Bay	1984-1993	19	89.4	20	96.7	4	35.0	8	82.2
	1994-2003	38	125.6	26	96.8	16	94.2	6	58.2
	2004-2013	35	93.4	24	64.8	24	109.6	11	53.2
Copper River/ Prince William Sound	1984-1993	9	137.8	8	134.5	6	135.3	3	124.1
	1994-2003	11	133.1	13	138.9	11	224.9	8	156.6
	2004-2013	15	142.6	14	136.8	10	146.2	6	86.5
Interior	1984-1993	30	70.0	45	89.8	49	152.4	14	80.8
	1994-2003	69	104.1	56	89.7	62	147.1	28	102.5
	2004-2013	100	103.4	73	84.6	104	193.4	34	78.8

δ Counts and Rates for Women only

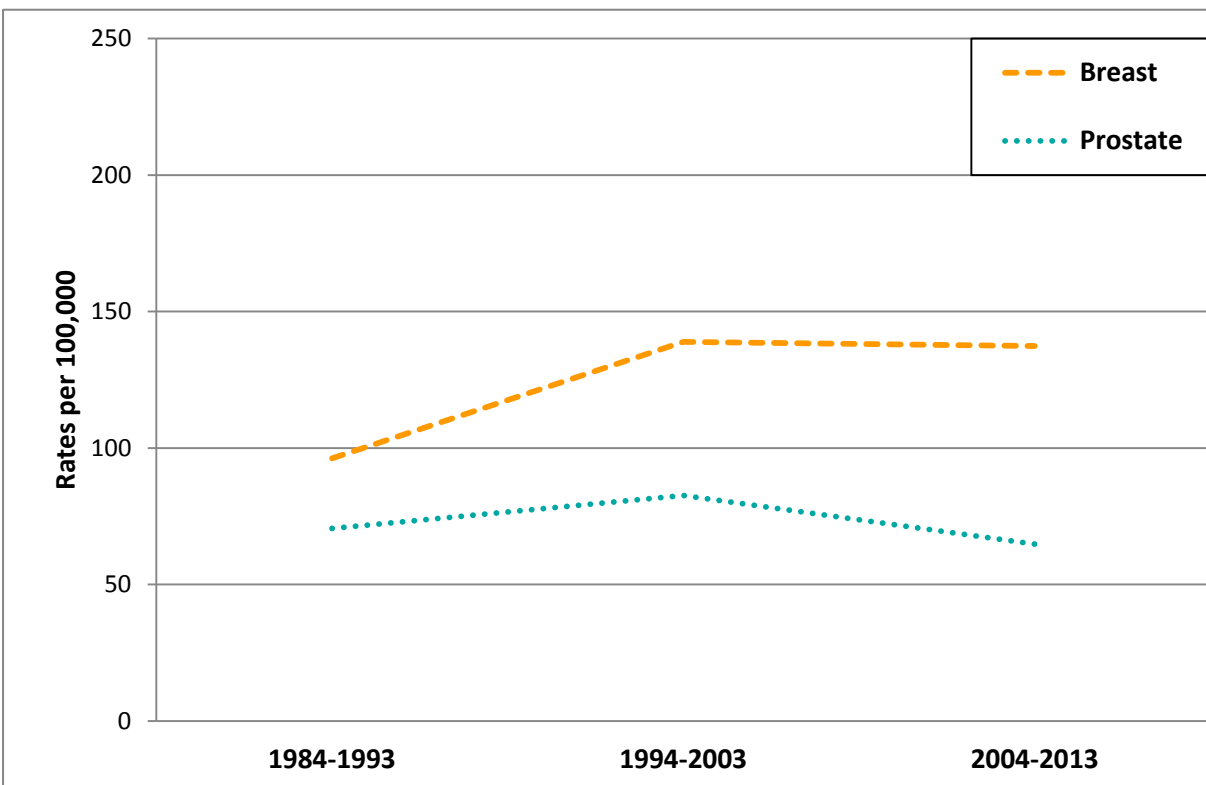
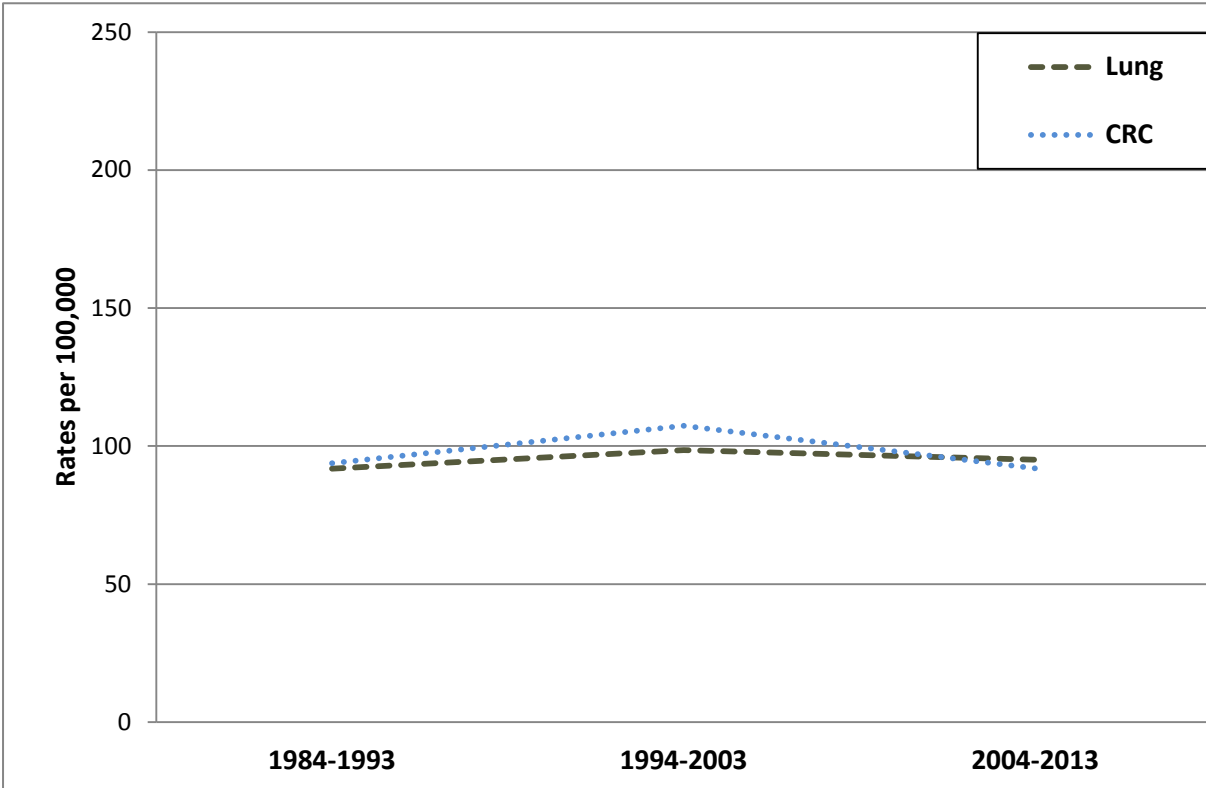
**Ten-Year Average Annual Age-Adjusted Cancer Incidence Rates
per 100,000 by Tribal Health Region, 1984 - 2013
Four Leading Cancers, Men and Women Combined**

Tribal Health Region	Years	Colon & Rectum		Lung		Breast δ		Prostate	
		Count	Rate	Count	Rate	Count	Rate	Count	Rate
Kenai Peninsula	1984-1993	9	78.7	24	182.1	7	75.6	2	54.5
	1994-2003	15	88.5	30	161.4	21	158.9	12	195.6
	2004-2013	20	76.7	34	143.3	28	134.7	7	79.8
Kodiak Area	1984-1993	7	73.3	17	169.4	7	119.3	1	13.6
	1994-2003	17	146.2	16	126.9	12	141.6	6	128.9
	2004-2013	13	78.9	15	98.8	9	95.3	12	171.0
Northwest Arctic	1984-1993	17	83.3	18	85.8	10	80.6	0	0.0
	1994-2003	25	88.8	19	72.4	18	120.3	4	38.7
	2004-2013	39	101.9	29	77.5	14	72.3	5	32.7
Norton Sound	1984-1993	28	102.5	21	69.1	15	91.0	3	23.4
	1994-2003	53	137.9	49	126.1	22	98.1	5	25.3
	2004-2013	46	93.2	49	114.4	29	111.8	6	29.2
Southeast	1984-1993	42	82.9	31	59.2	53	142.5	45	194.0
	1994-2003	72	93.6	47	60.2	84	186.7	59	159.4
	2004-2013	70	65.2	71	72.7	117	198.4	53	99.2
Yukon-Kuskokwim	1984-1993	76	110.8	72	100.3	18	48.1	5	15.8
	1994-2003	90	105.0	79	87.7	36	59.7	8	24.2
	2004-2013	127	102.4	76	75.6	50	69.9	20	34.2

δ Counts and Rates for Women only

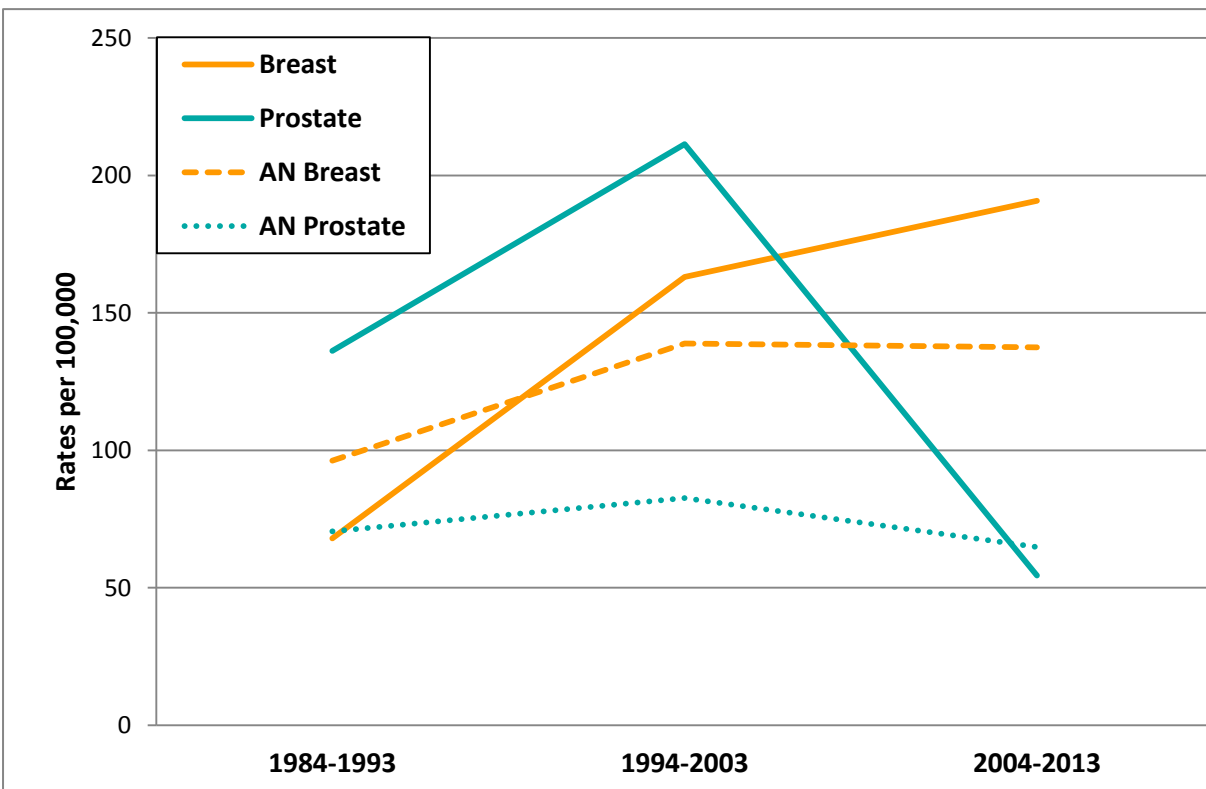
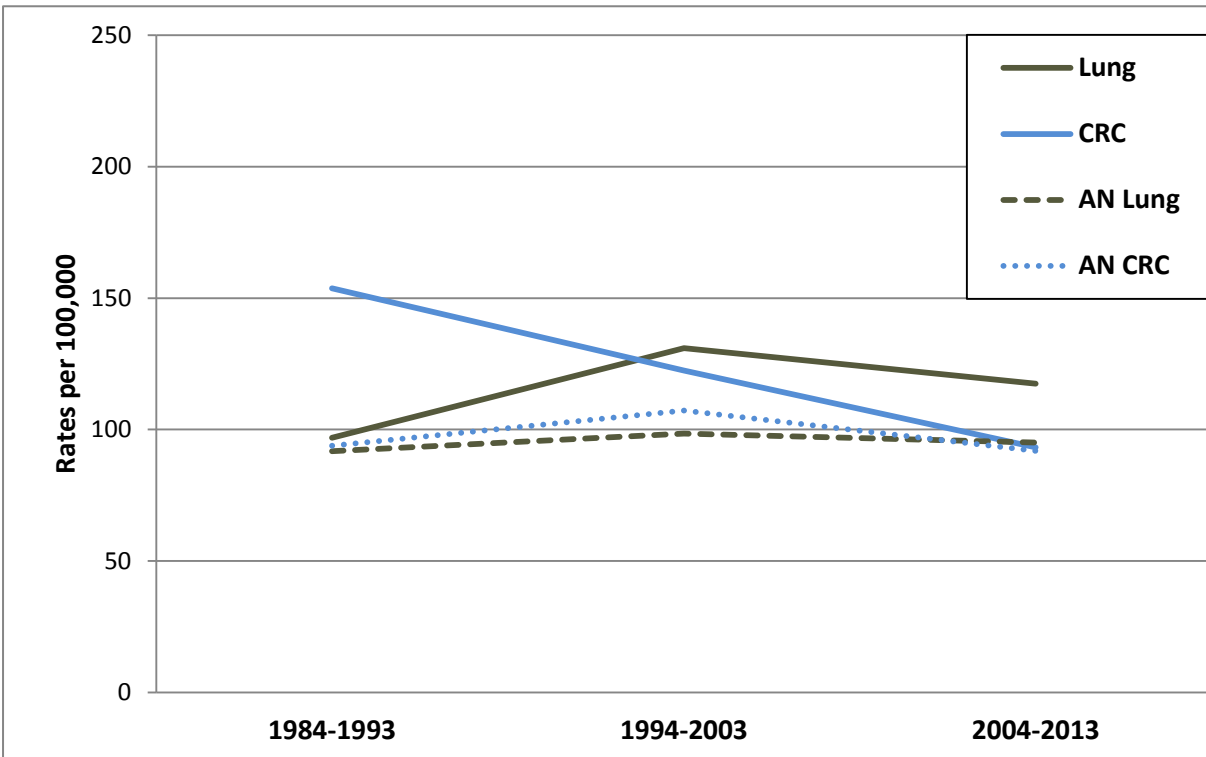
Cancer Incidence Trends 1984 - 2013

Statewide AN



Breast cancer rates are calculated for women only

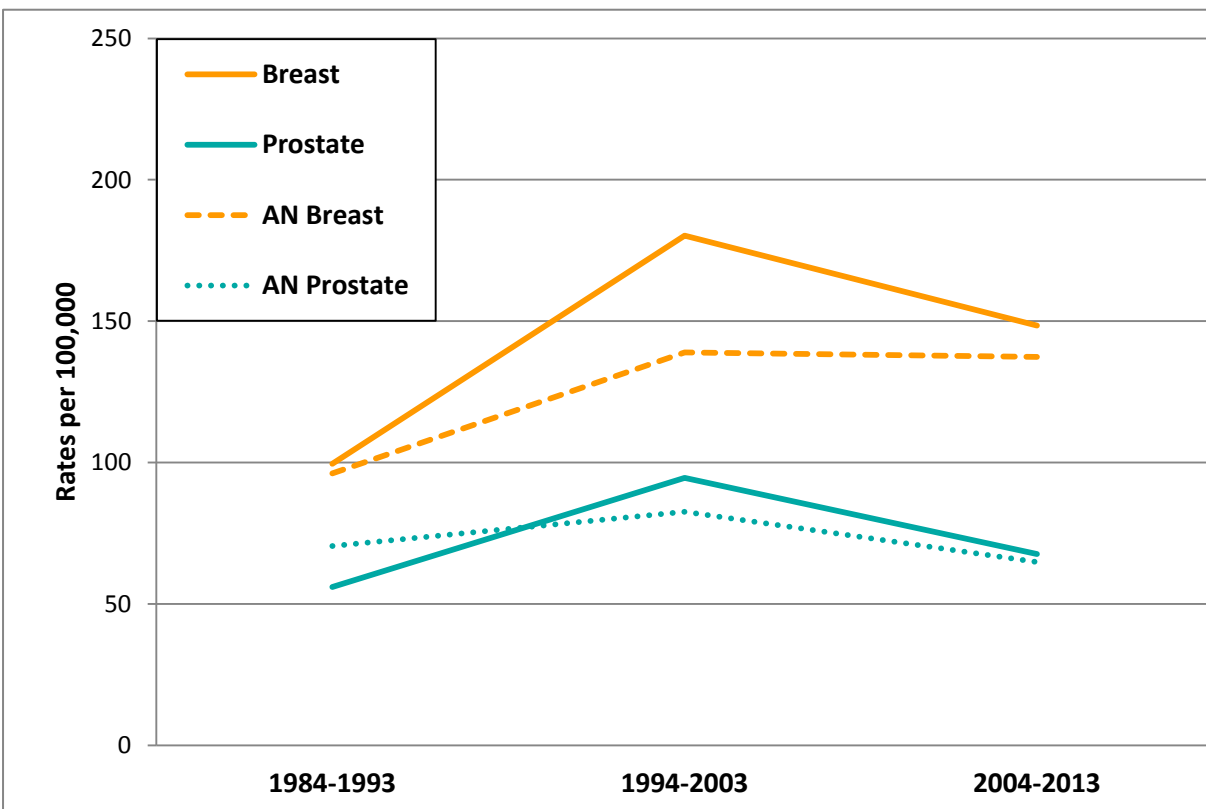
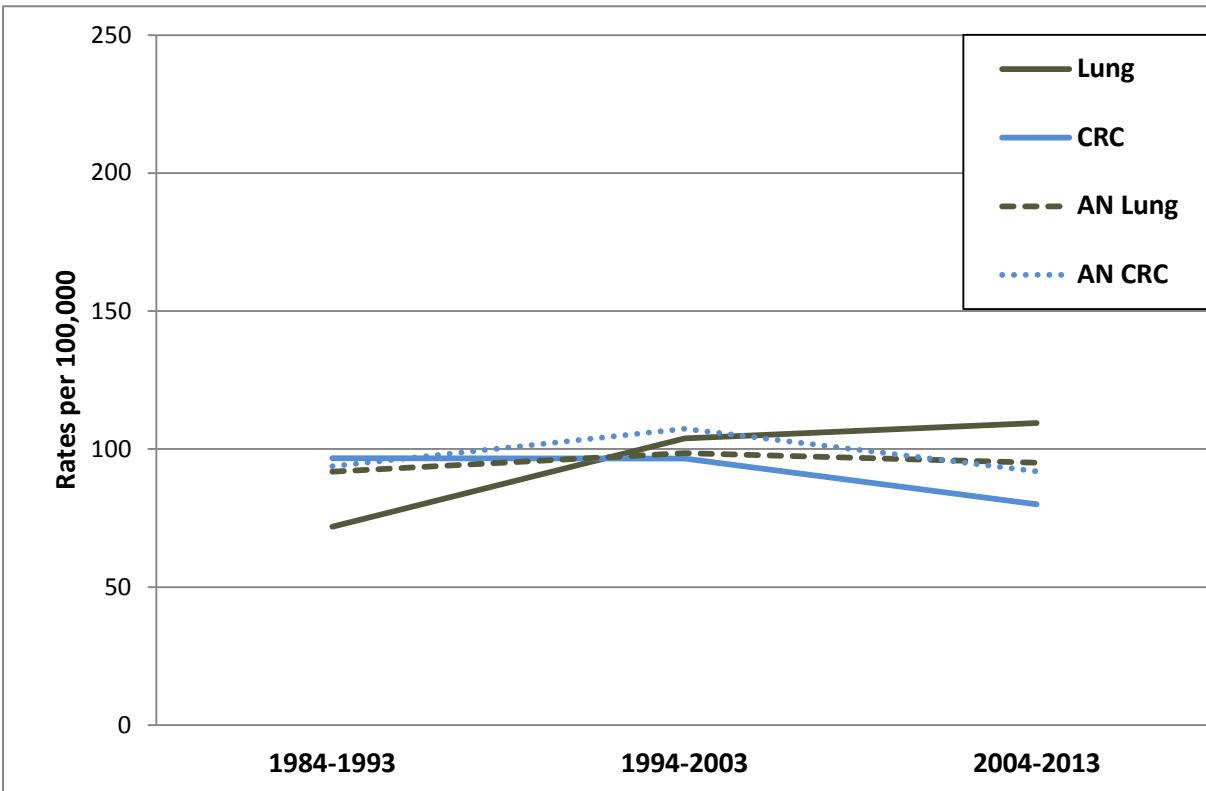
Cancer Incidence Trends 1984 - 2013 Aleutian and Pribilof Tribal Health Region



Breast cancer rates are calculated for women only
 Lines labeled with 'AN' represent **statewide** AN rates
 Lines without 'AN' represent **regional** AN rates

Cancer Incidence Trends 1984 - 2013

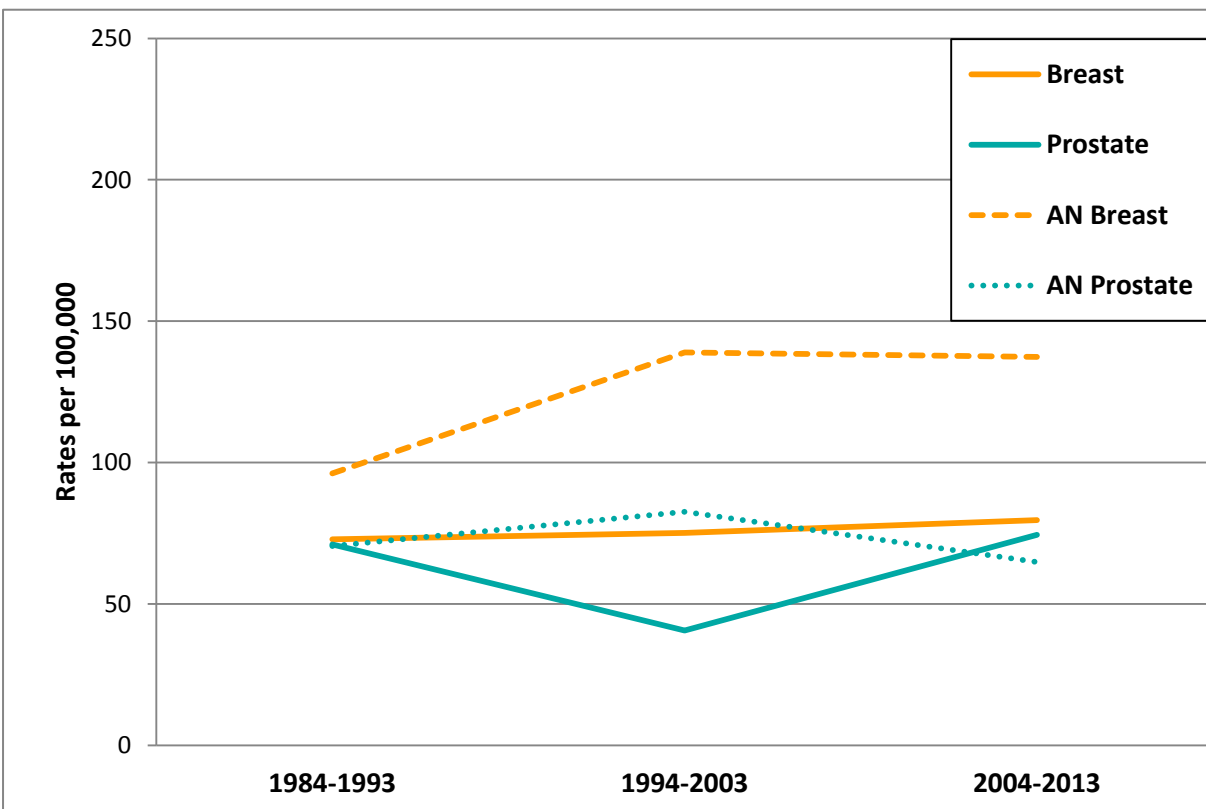
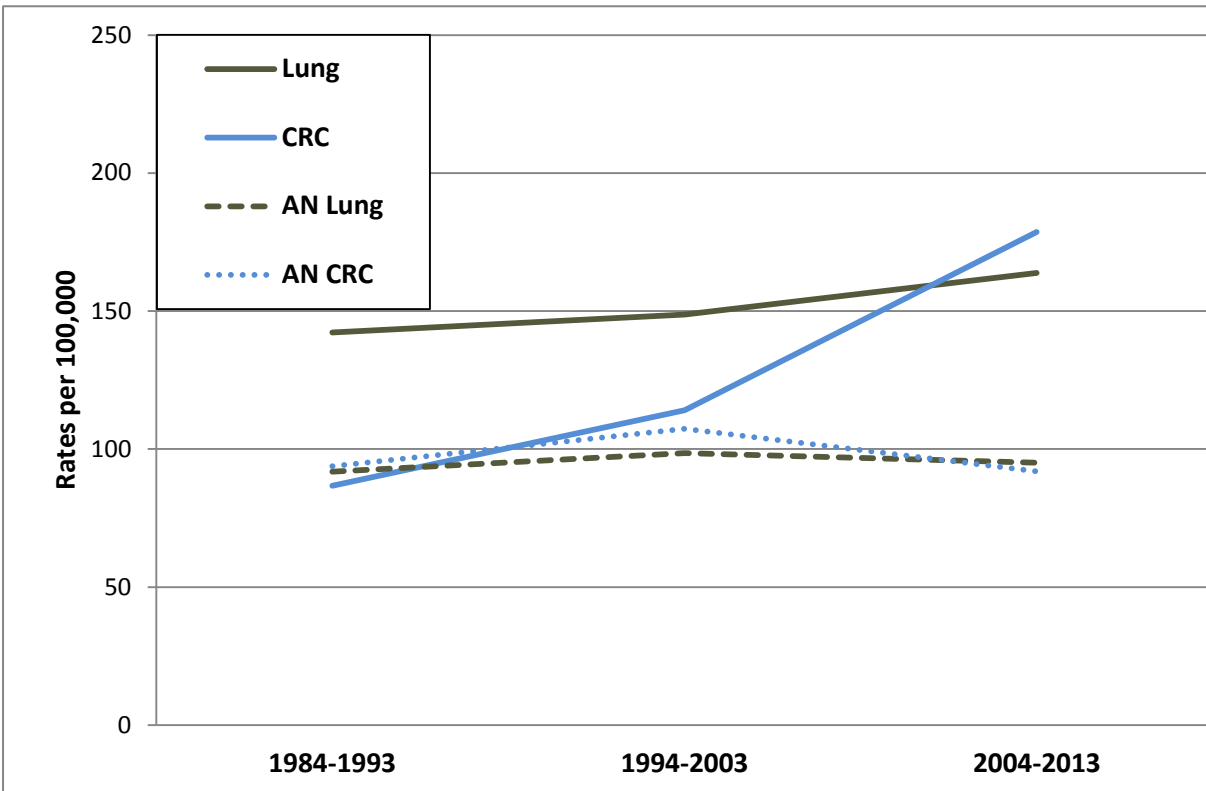
Anchorage/Mat-Su Tribal Health Region



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 Lines without 'AN' represent **regional** AN rates

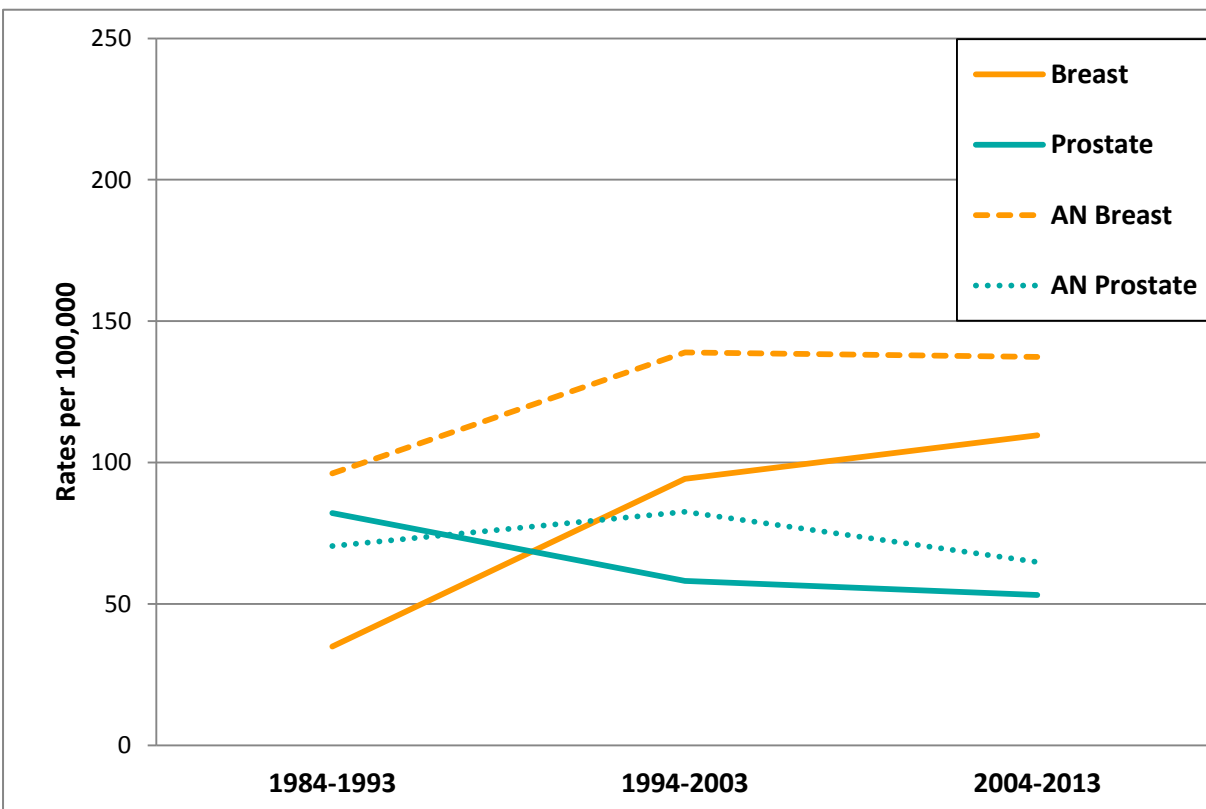
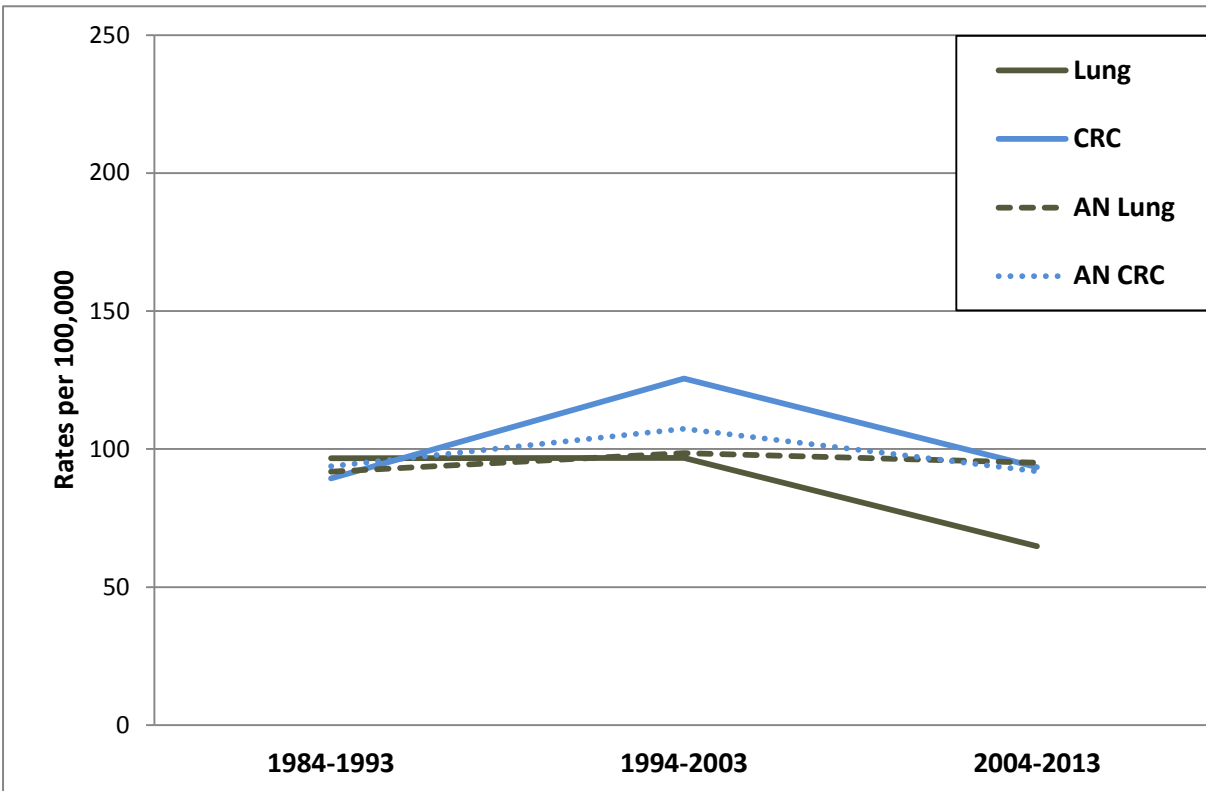
Cancer Incidence Trends 1984 - 2013

Arctic Slope Tribal Health Region



Breast cancer rates are calculated for women only
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 Lines without 'AN' represent **regional** AN rates

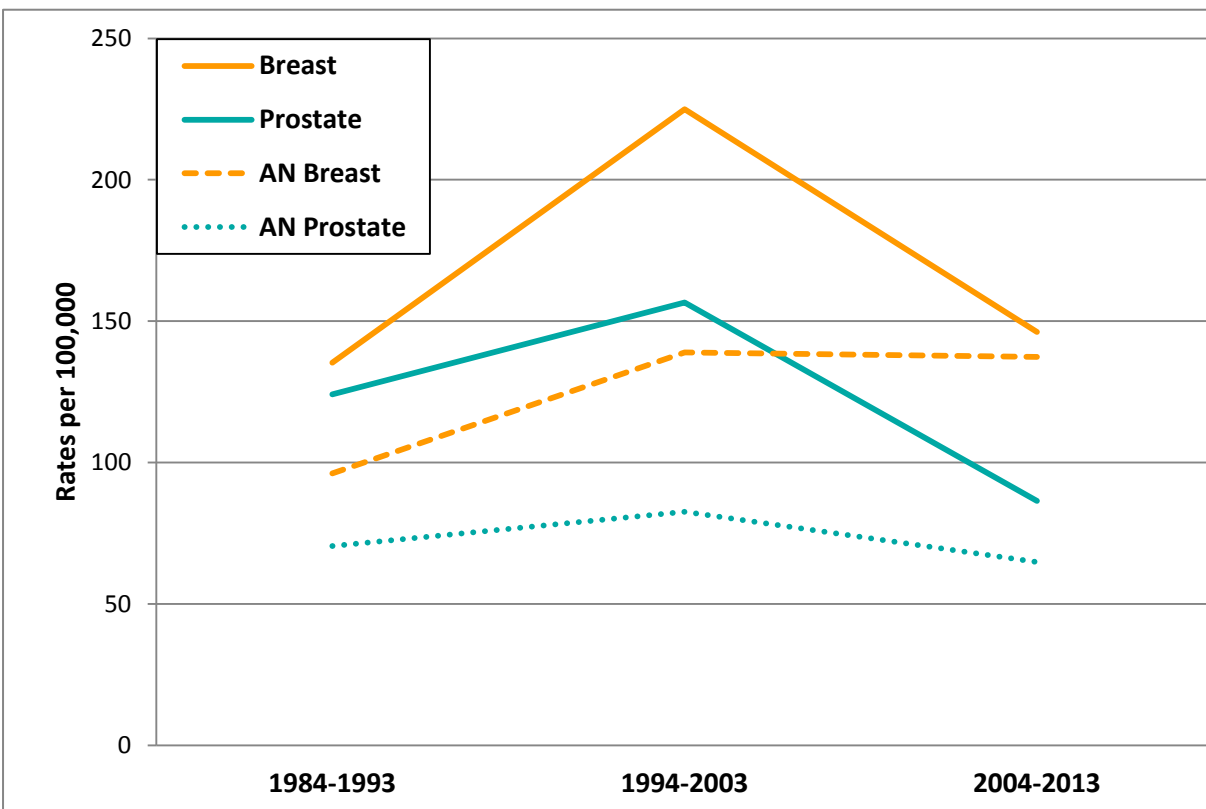
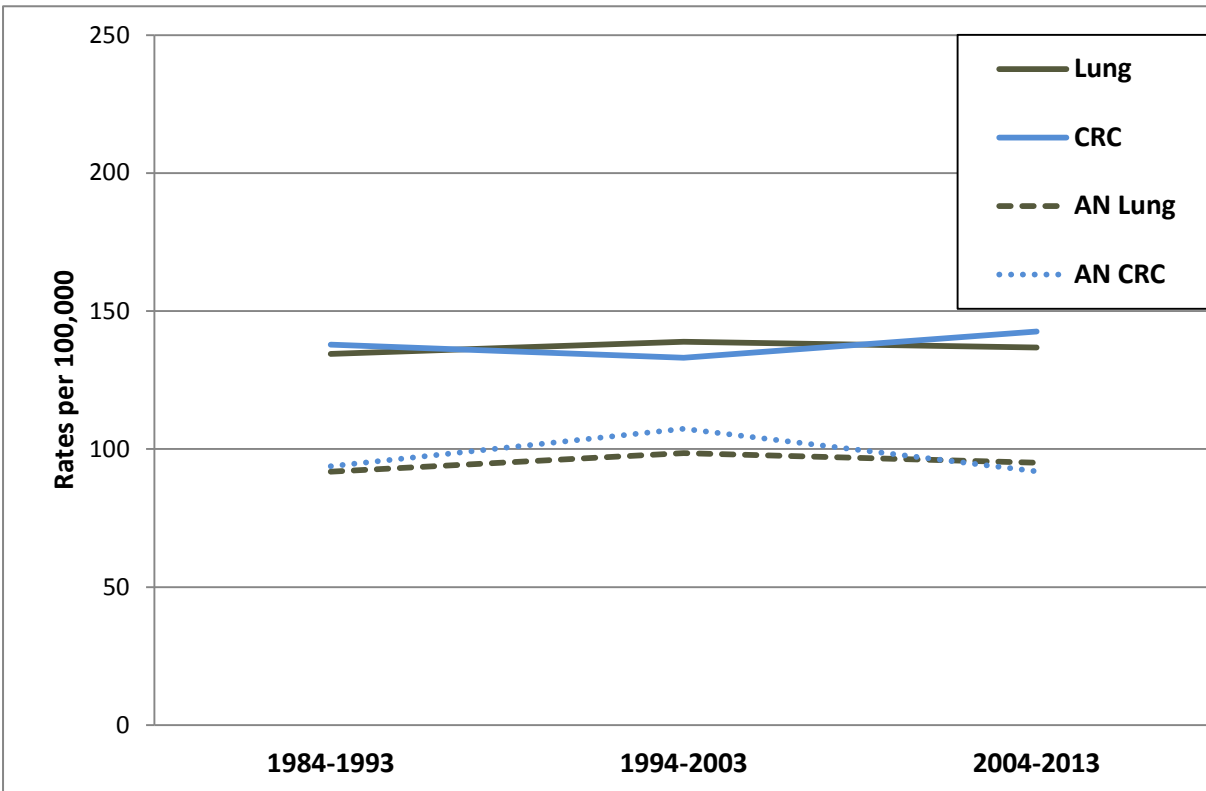
Cancer Incidence Trends 1984 - 2013 Bristol Bay Tribal Health Region



Breast cancer rates are calculated for women only
 Lines labeled with 'AN' represent **statewide** AN rates
 Lines without 'AN' represent **regional** AN rates

Cancer Incidence Trends 1984 - 2013

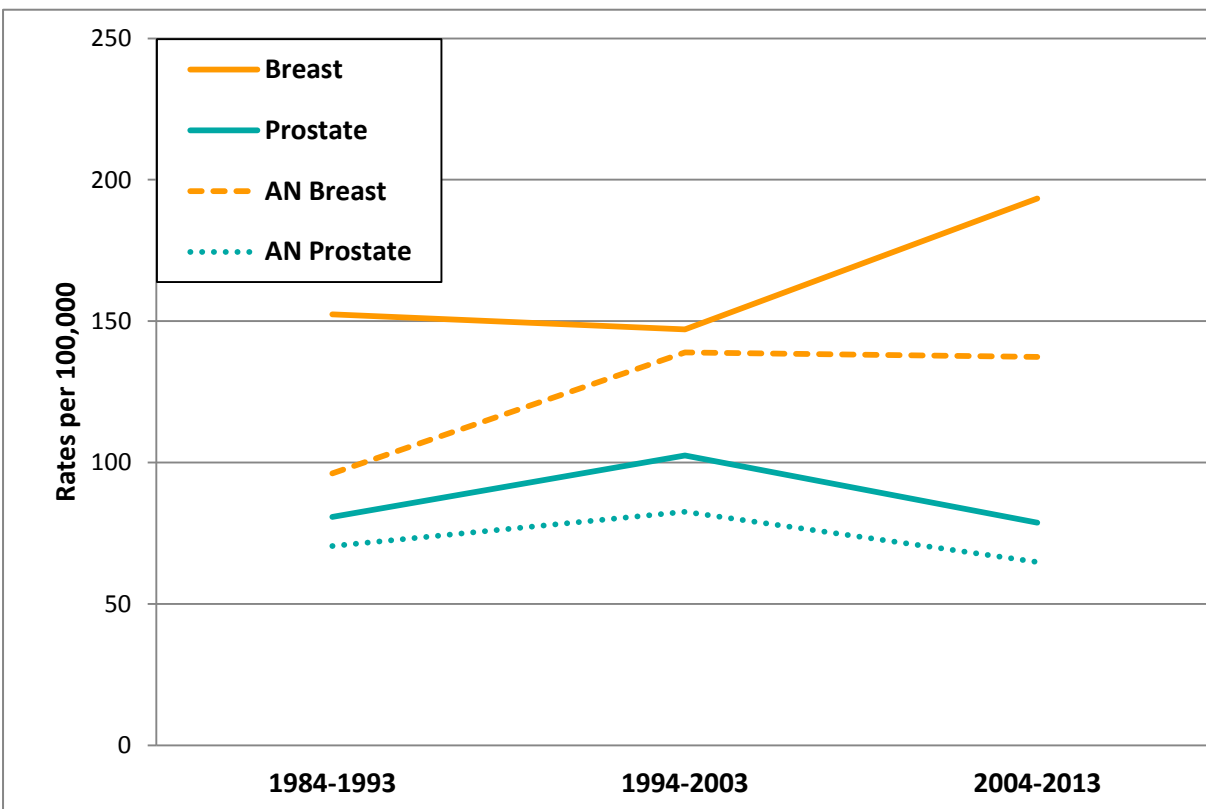
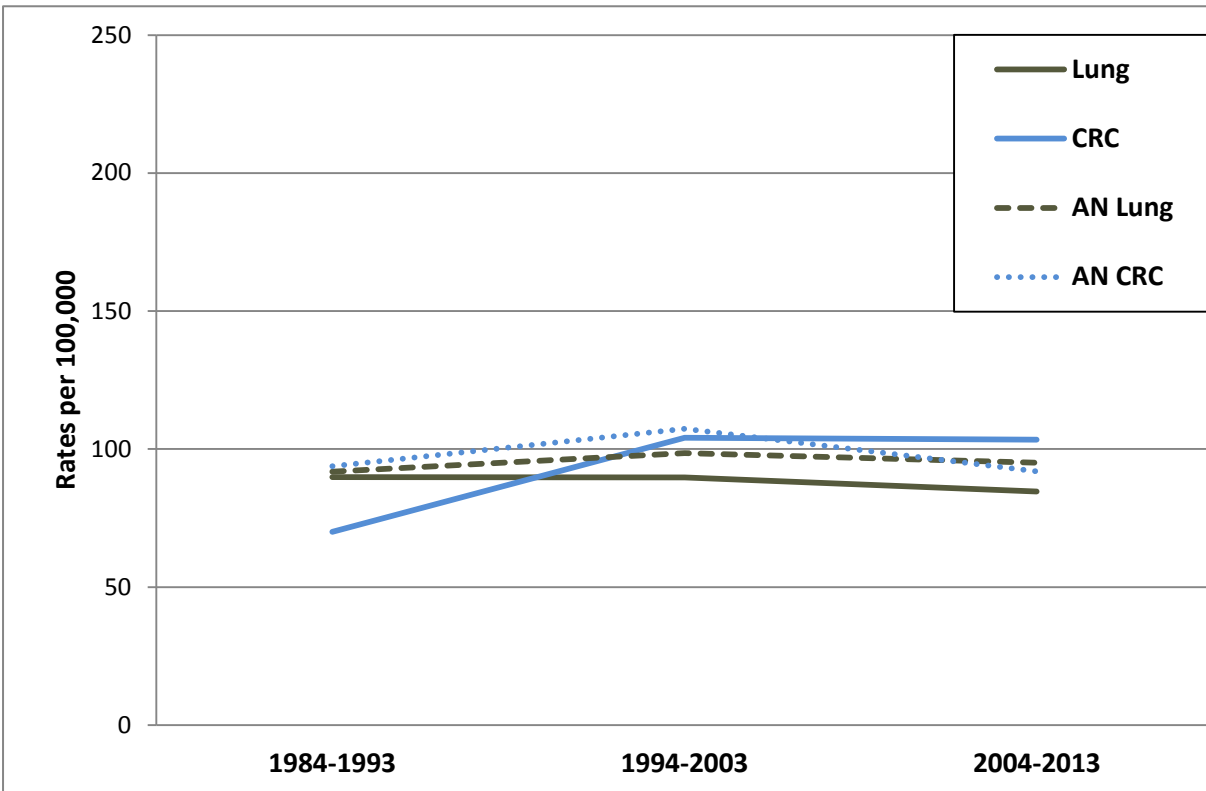
Copper River/Prince William Sound Tribal Health Region



Breast cancer rates are calculated for women only
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 Lines without 'AN' represent **regional** AN rates

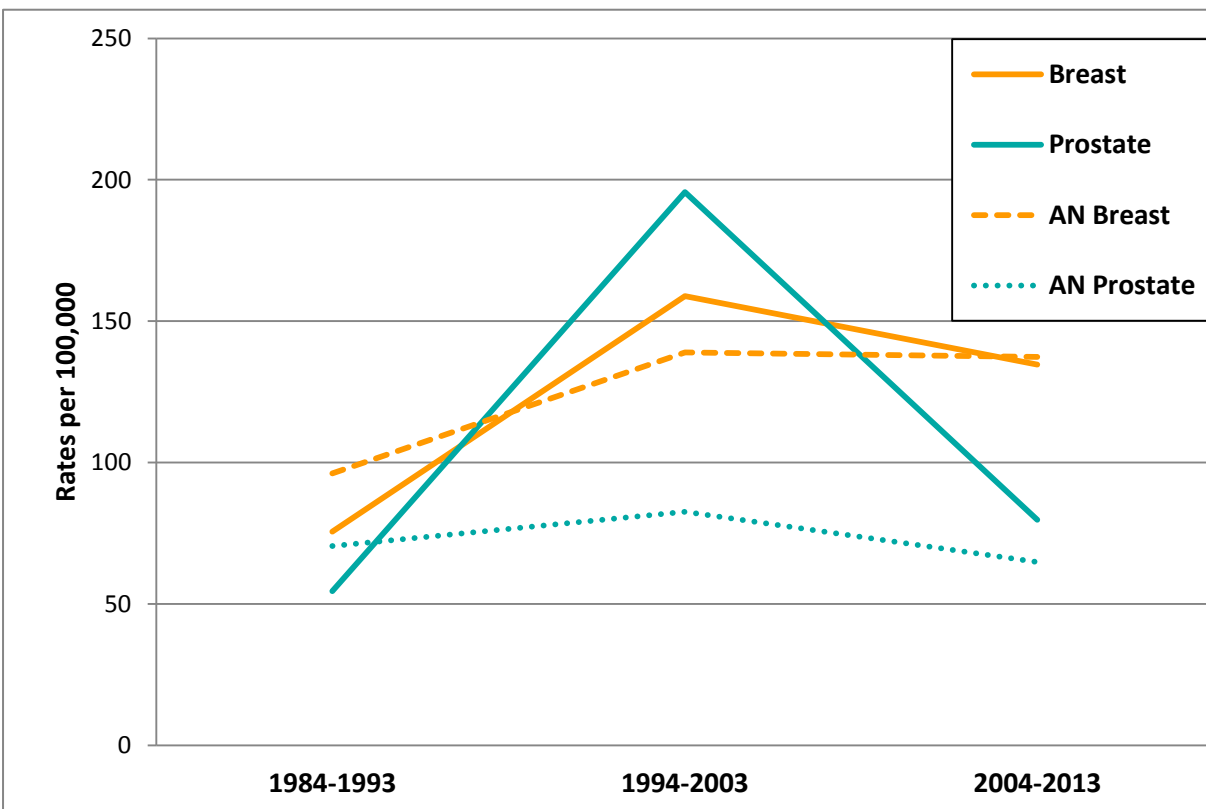
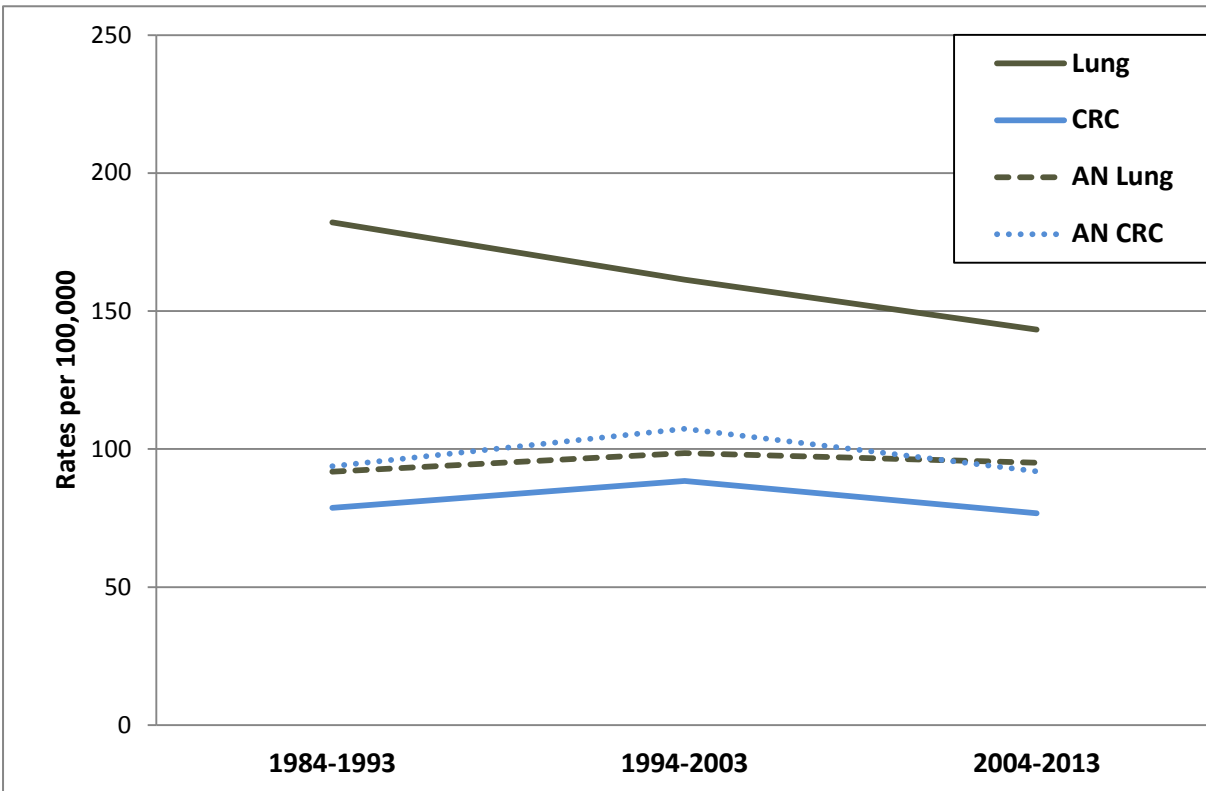
Cancer Incidence Trends 1984 - 2013

Interior Tribal Health Region



Breast cancer rates are calculated for women only
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 Lines without 'AN' represent **regional** AN rates

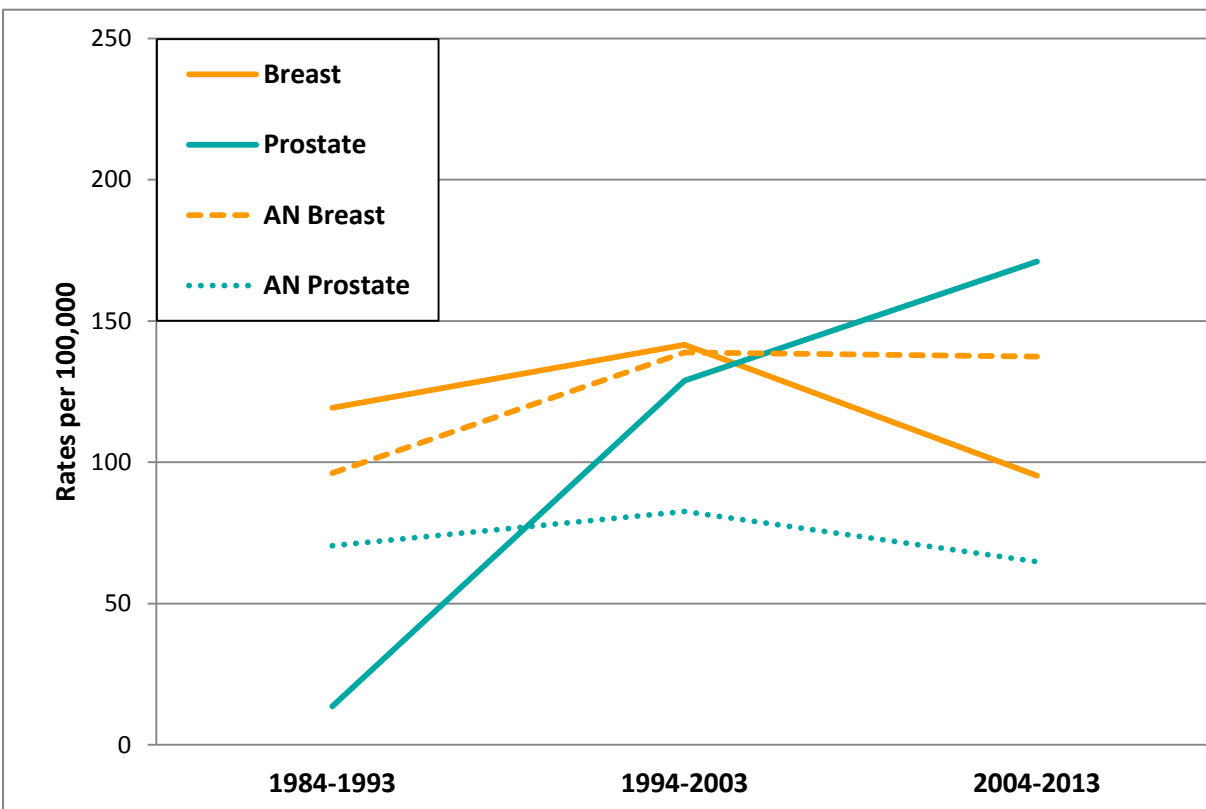
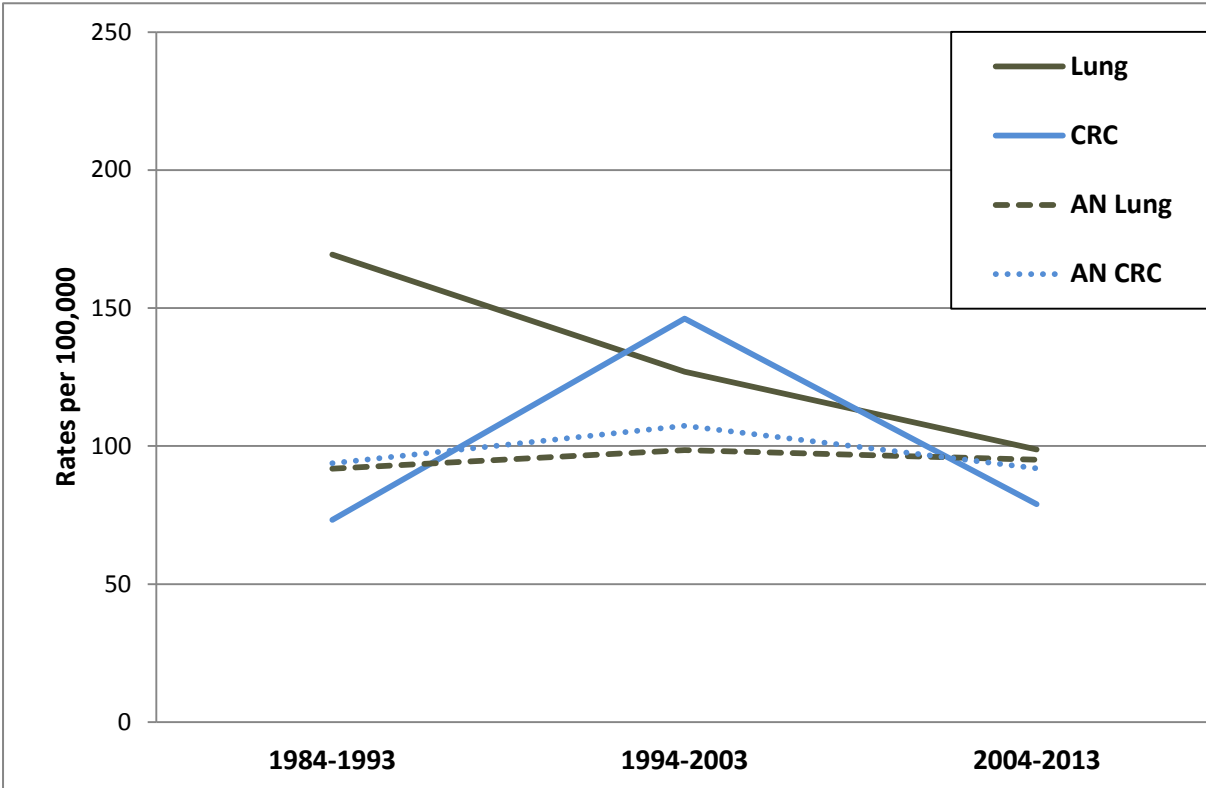
Cancer Incidence Trends 1984 - 2013 Kenai Peninsula Tribal Health Region



Breast cancer rates are calculated for women only
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 Lines without 'AN' represent **regional** AN rates

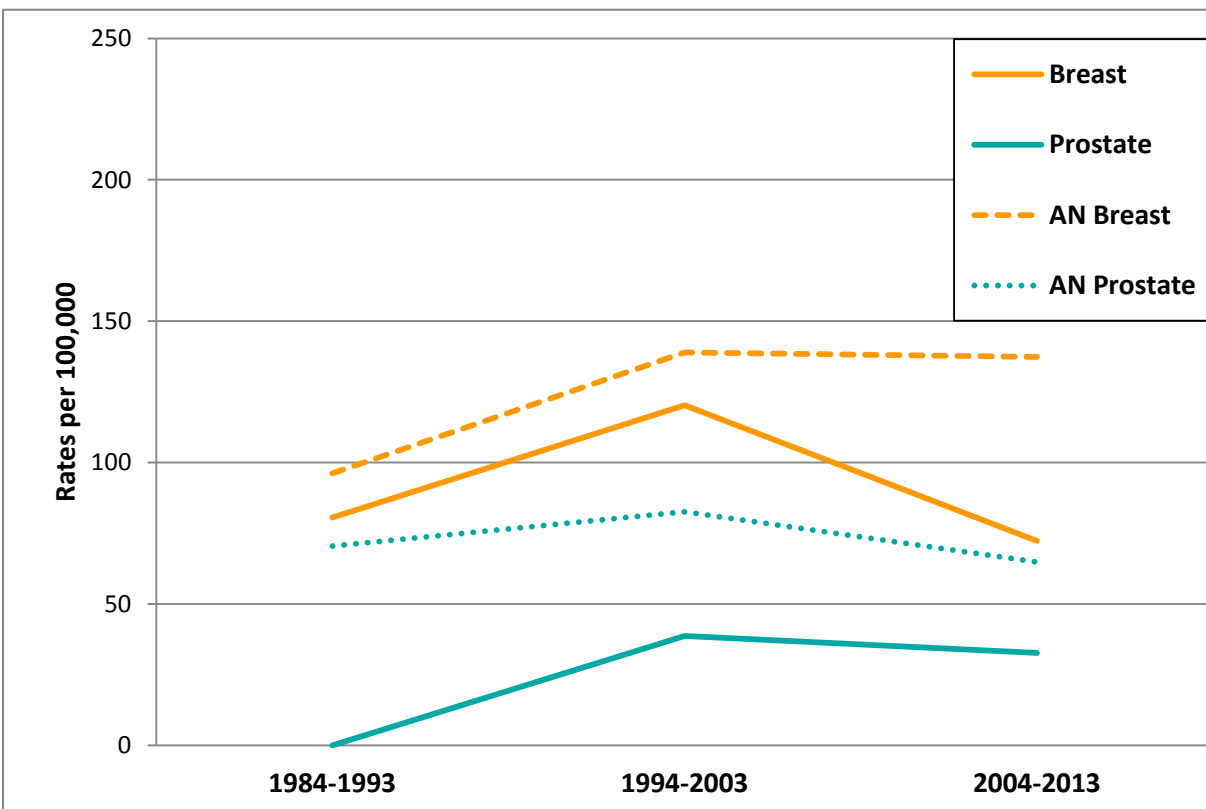
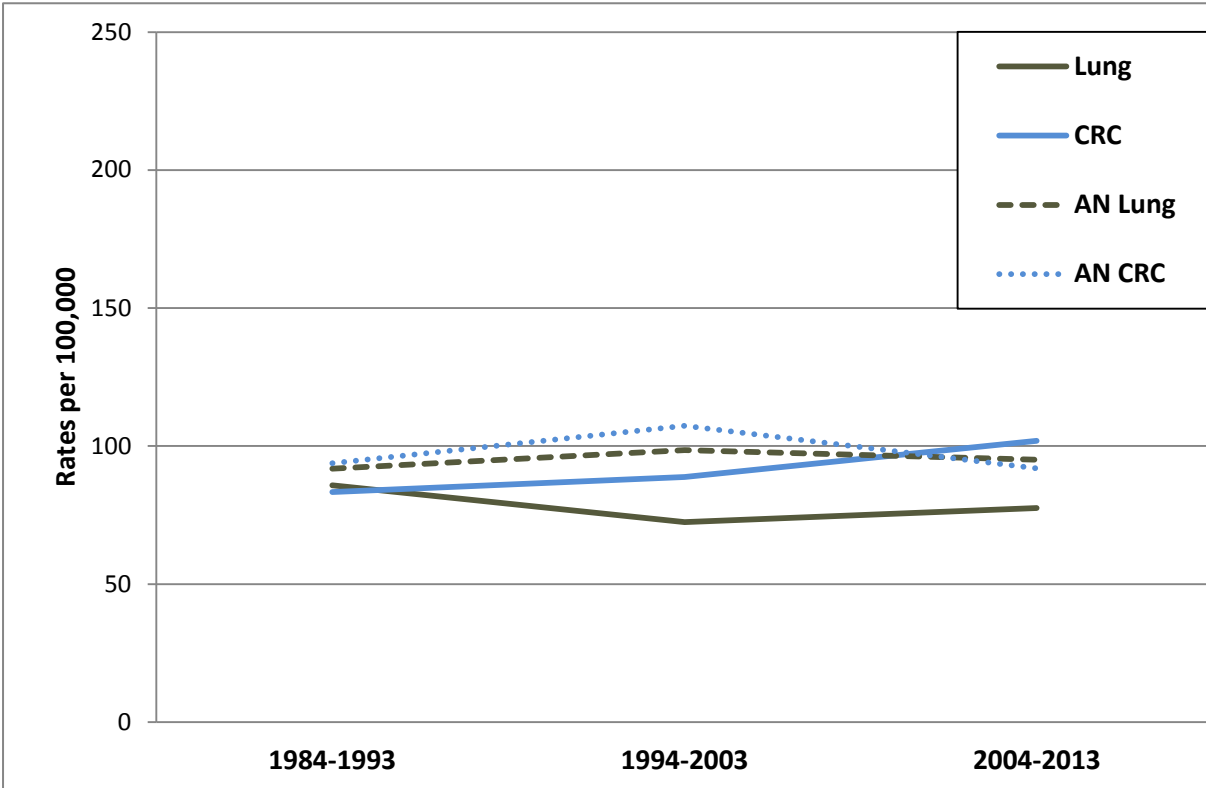
Cancer Incidence Trends 1984 - 2013

Kodiak Area Tribal Health Region



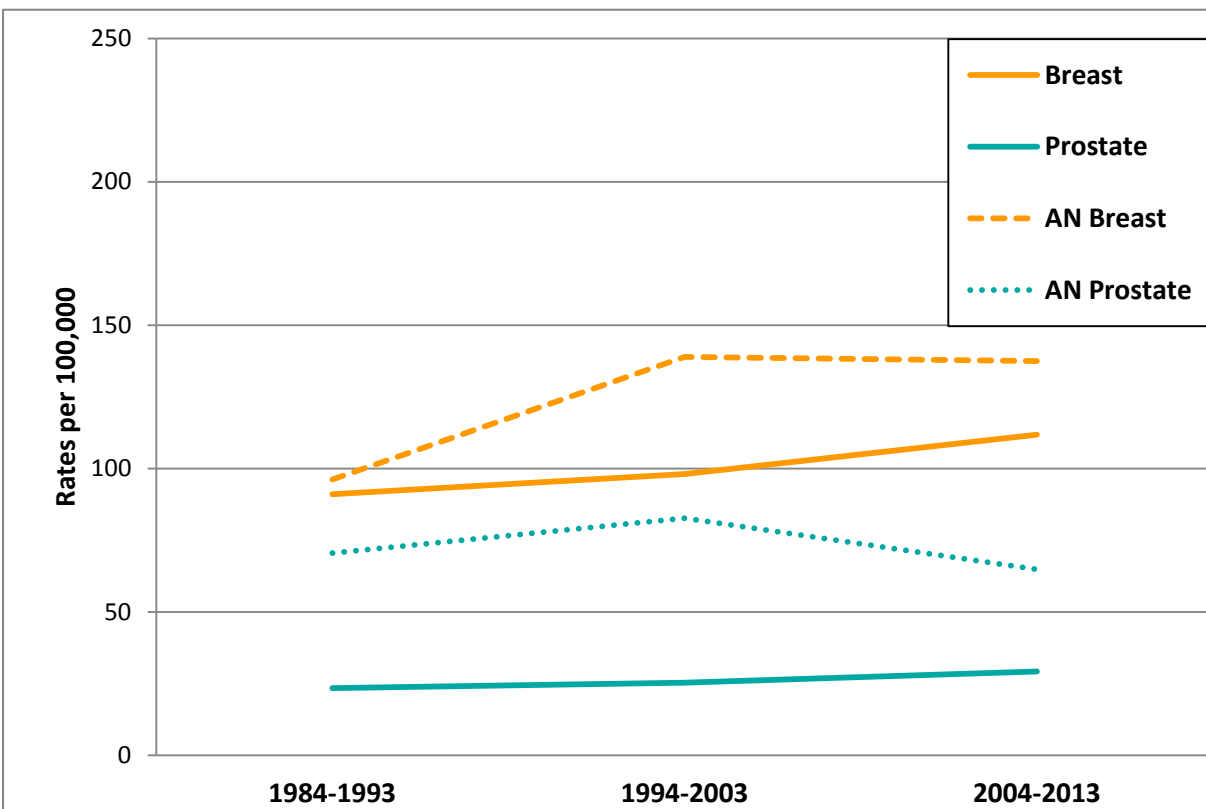
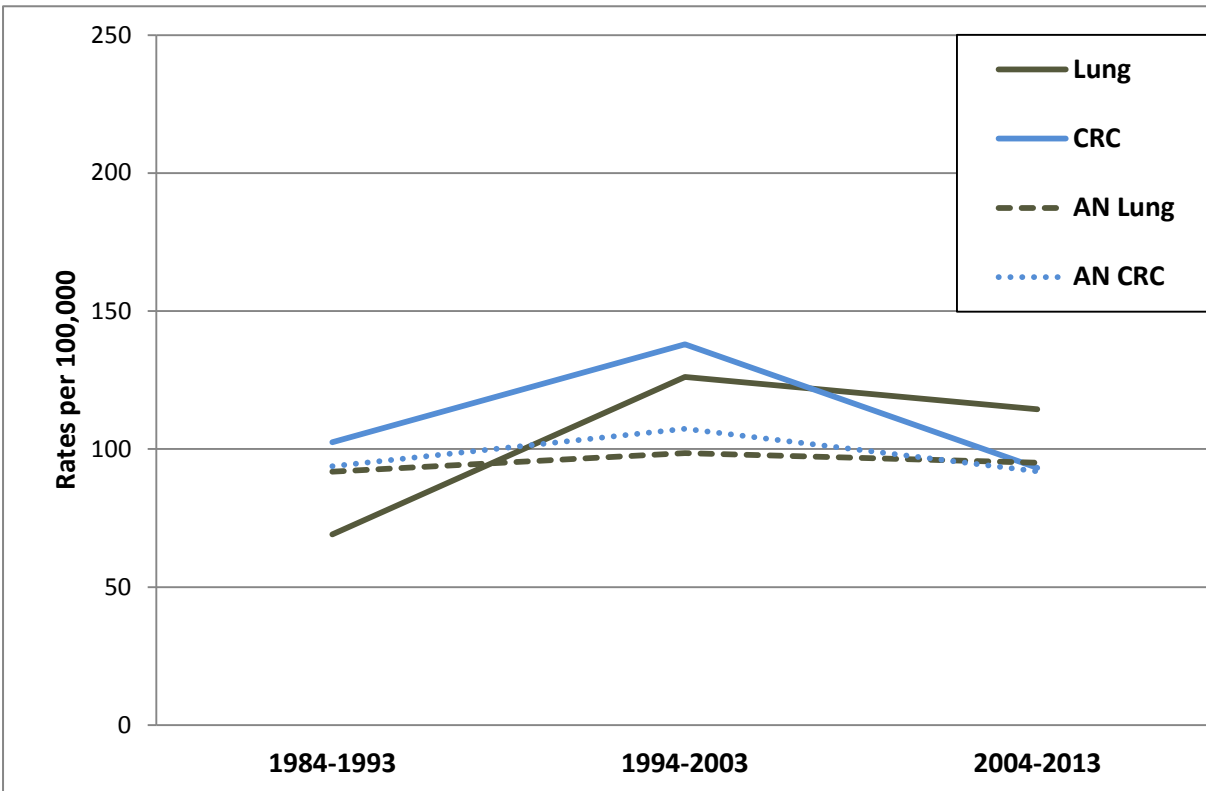
Breast cancer rates are calculated for women only
 Lines labeled with 'AN' represent **statewide** AN rates
 Lines without 'AN' represent **regional** AN rates

Cancer Incidence Trends 1984 - 2013 Northwest Arctic Tribal Health Region



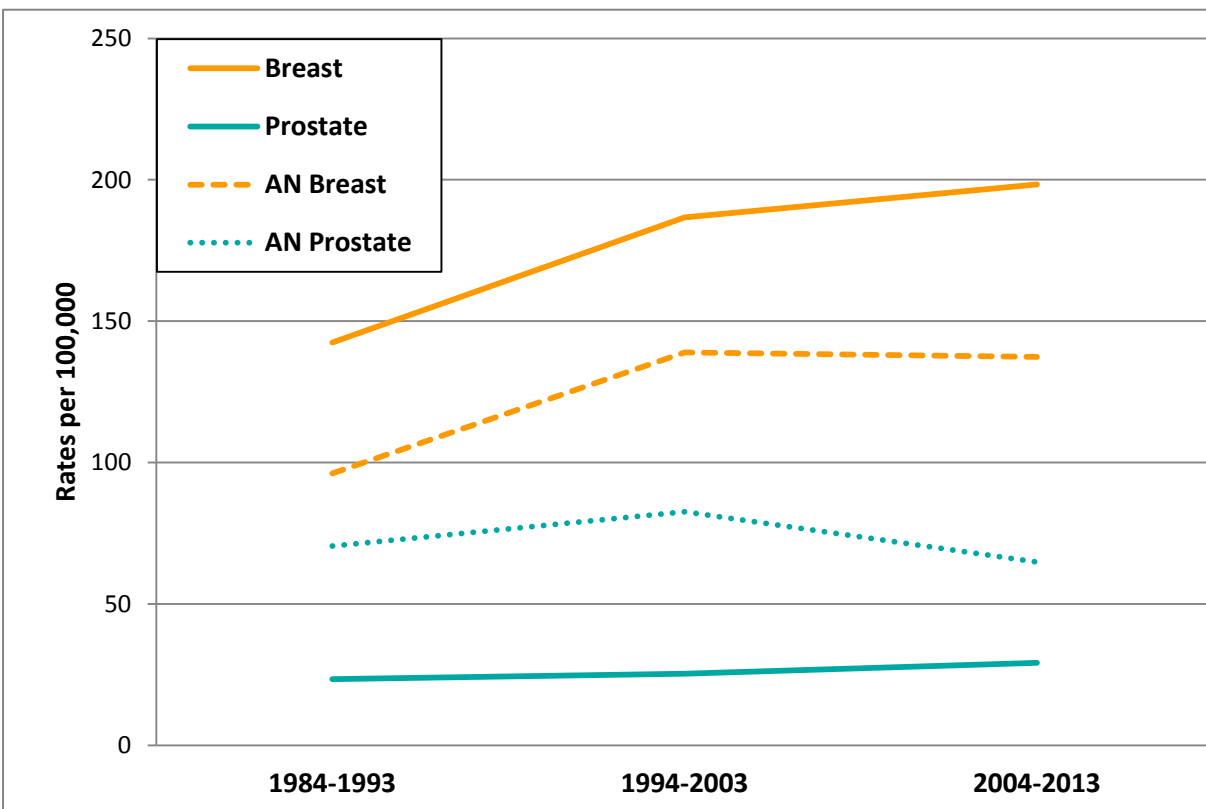
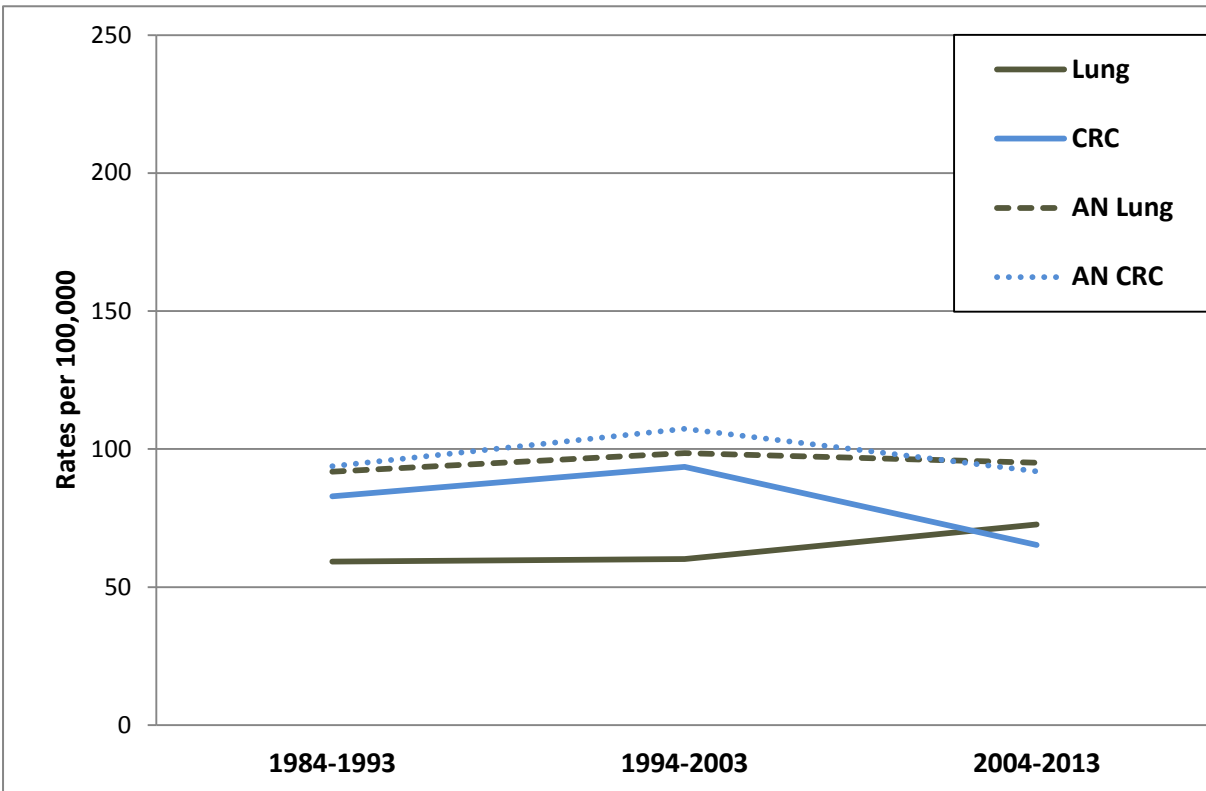
Breast cancer rates are calculated for women only
 Lines labeled with 'AN' represent **statewide** AN rates
 Lines without 'AN' represent **regional** AN rates

Cancer Incidence Trends 1984 - 2013 Norton Sound Tribal Health Region



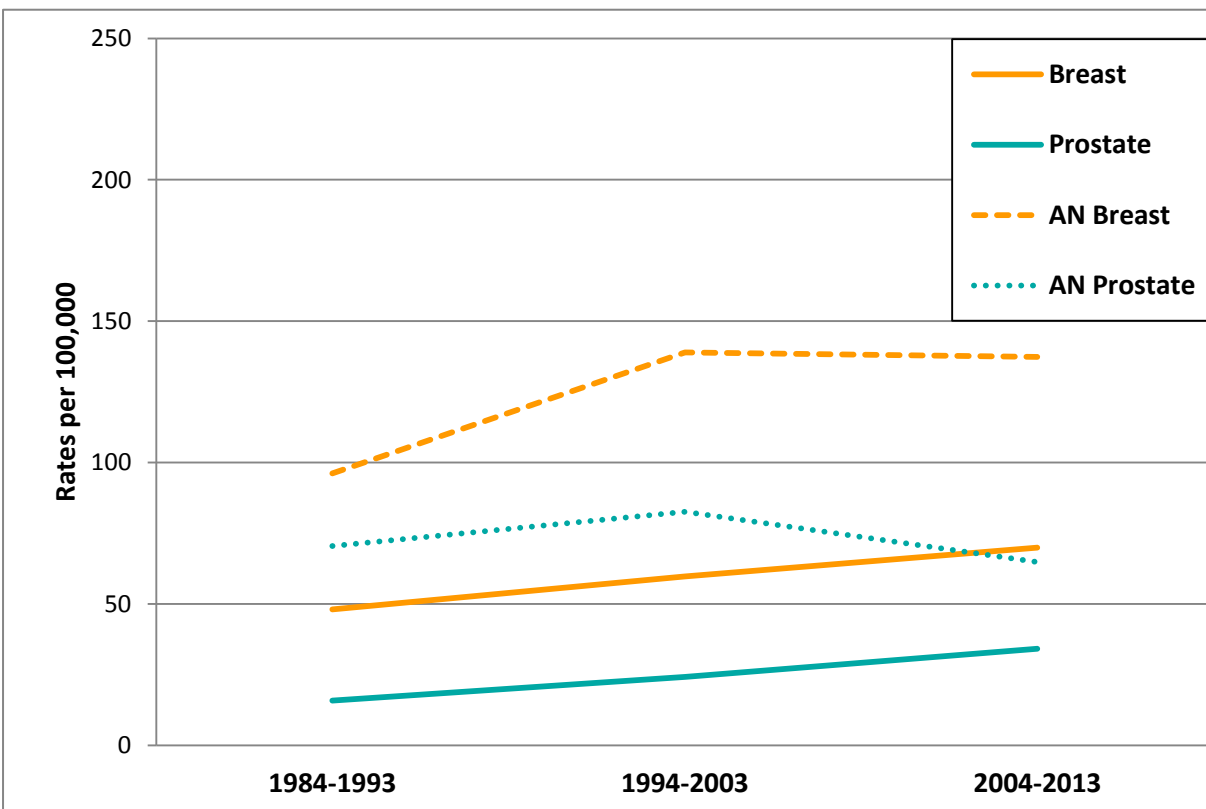
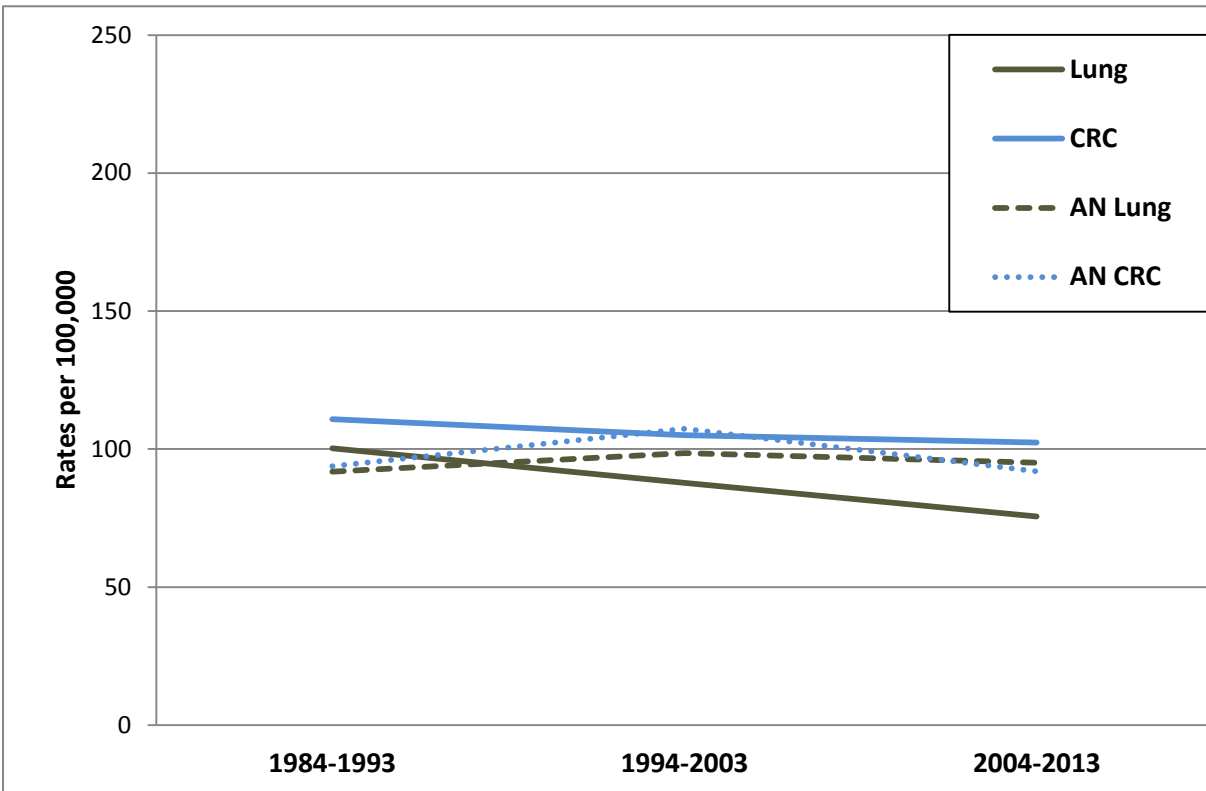
Breast cancer rates are calculated for women only
 Lines labeled with 'AN' represent **statewide** AN rates
 Lines without 'AN' represent **regional** AN rates

Cancer Incidence Trends 1984 - 2013 Southeast Tribal Health Region



Breast cancer rates are calculated for women only
 Lines labeled with 'AN' represent **statewide** AN rates
 Lines without 'AN' represent **regional** AN rates

Cancer Incidence Trends 1984 - 2013 Yukon-Kuskokwim Tribal Health Region



Breast cancer rates are calculated for women only
 Lines labeled with 'AN' represent **statewide** AN rates
 Lines without 'AN' represent **regional** AN rates

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Age-Adjusted Cancer Mortality Rates per 100,000 Alaska Native and US White, 2007-2011

	Alaska Native Men and Women				US White Men and Women			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Rate Ratio
All Sites	245.4 *	228.1	263.8	866	173.3	173.1	173.5	1.4
Oral Cavity and Pharynx	3.6	2.0	6.4	16	2.4	2.4	2.4	1.5
Nasopharynx	^			7	0.2	0.1	0.2	
Digestive System	74.8 *	65.6	85.3	272	41.2	41.0	41.3	1.8
Esophagus	3.9	2.0	7.3	14	4.3	4.3	4.4	0.9
Stomach	11.6 *	8.4	16.0	47	3.0	3.0	3.0	3.9
Colon and Rectum	35.4 *	29.0	43.1	121	15.5	15.4	15.5	2.3
Colon excluding Rectum	30.6 *	24.6	37.9	101	12.7	12.6	12.7	2.4
Rectosigmoid Junction	4.8 *	2.9	8.1	20	2.8	2.8	2.8	1.7
Liver	6.0	3.6	9.7	21	4.0	4.0	4.0	1.5
Gallbladder	^			4	0.6	0.6	0.6	
Other Biliary	^				0.4	0.4	0.5	
Pancreas	12.8	9.3	17.5	52	10.8	10.7	10.8	1.2
Respiratory System	75.5 *	66.0	86.2	257	50.4	50.3	50.5	1.5
Larynx	^				1.0	1.0	1.1	
Lung and Bronchus	74.5 *	65.1	85.2	253	49.1	48.9	49.2	1.5
Bones and Joints	^				0.4	0.4	0.5	
Soft Tissue including Heart	^			3	1.3	1.3	1.3	
Melanoma of the Skin	^				3.1	3.1	3.2	
Other Non-Epithelial Skin	^				1.0	0.9	1.0	
Urinary System	13.6 *	9.4	19.1	39	8.9	8.9	9.0	1.5
Urinary Bladder	^			9	4.6	4.6	4.6	
Kidney and Renal Pelvis	9.5 *	6.2	14.3	28	4.0	4.0	4.1	2.4
Eye and Orbit	0.0	0.0	2.0	0	0.1	0.1	0.1	0.0
Brain & Nervous System	2.5	1.3	5.1	12	4.6	4.6	4.7	0.5
Endocrine System	^				0.8	0.8	0.8	
Thyroid	^				0.5	0.5	0.5	
Lymphoma	4.4	2.2	8.1	13	7.0	6.9	7.0	0.6
Hodgkin Lymphoma	0.0	0.0	2.0	0	0.4	0.4	0.4	0.0
Non-Hodgkin Lymphoma	4.4	2.2	8.1	13	6.6	6.5	6.6	0.7
Myeloma	^			8	3.1	3.1	3.2	
Leukemia	5.1	3.1	8.5	22	7.3	7.2	7.3	0.7
Lymphocytic Leukemia	^			5	2.0	2.0	2.1	
Myeloid & Monocytic Leukemia	2.7	1.3	5.4	13	3.5	3.5	3.5	0.8
Acute Myeloid	2.3	1.1	4.8	12	2.9	2.9	3.0	0.8
Chronic Myeloid	^				0.3	0.3	0.3	
Miscellaneous	27.2 *	21.5	34.2	91	12.9	12.8	13.0	2.1

^ Fewer than 10 deaths, mortality rate not calculated

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

*Rate is statistically different than comparison rate; confidence intervals are 95%.

Age-Adjusted Cancer Mortality Rates per 100,000 Alaska Native and US White, 2007-2011

	Alaska Native Men				US White Men			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Rate Ratio
All Sites	277.6 *	249.3	309.1	440	209.8	209.4	210.1	1.3
Oral Cavity and Pharynx	5.3	2.5	12.1	11	3.7	3.6	3.7	1.4
Nasopharynx	^			5	0.2	0.2	0.2	
Digestive System	90.0 *	75.0	108.4	153	52.8	52.7	53.0	1.7
Esophagus	^			9	7.8	7.7	7.8	
Stomach	13.3 *	8.4	21.9	26	4.1	4.1	4.2	3.2
Colon and Rectum	40.0 *	29.9	53.5	64	18.5	18.4	18.7	2.2
Colon excluding Rectum	32.9 *	23.6	45.7	50	14.9	14.8	15.0	2.2
Rectosigmoid Junction	7.1 *	3.8	14.3	14	3.6	3.6	3.7	2.0
Liver	11.0	5.9	20.0	17	6.3	6.2	6.4	1.7
Gallbladder	0.0	0.0	5.9	0	0.4	0.4	0.5	0.0
Other Biliary	^				0.5	0.5	0.5	
Pancreas	15.3	10.0	24.1	30	12.5	12.4	12.6	1.2
Respiratory System	95.1 *	78.8	114.9	144	63.7	63.5	63.9	1.5
Larynx	^				1.8	1.8	1.9	
Lung and Bronchus	93.1 *	76.9	112.7	140	61.4	61.2	61.6	1.5
Bones and Joints	^				0.6	0.5	0.6	
Soft Tissue including Heart	^				1.5	1.5	1.6	
Melanoma of the Skin	^				4.6	4.6	4.7	
Other Non-Epithelial Skin	^				1.6	1.6	1.7	
Breast	0.0	0.0	5.9	0	0.3	0.3	0.3	0.0
Male Genital System	16.4	9.5	27.4	21	21.1	21.0	21.2	0.8
Prostate	16.1	9.2	27.1	20	20.6	20.5	20.7	0.8
Testis	^				0.3	0.3	0.3	
Urinary System	21.4	13.3	33.5	26	14.3	14.2	14.4	1.5
Urinary Bladder	^				8.1	8.0	8.1	
Kidney and Renal Pelvis	12.4 *	6.7	22.1	16	5.9	5.8	5.9	2.1
Eye and Orbit	0.0	0.0	5.9	0	0.1	0.1	0.1	0.0
Brain & Nervous System	^				5.6	5.6	5.7	
Endocrine System	^				0.8	0.8	0.9	
Thyroid	^				0.5	0.5	0.5	
Lymphoma	^			7	8.9	8.8	9.0	
Hodgkin Lymphoma	0.0	0.0	5.9	0	0.5	0.5	0.5	0.0
Non-Hodgkin Lymphoma	^			7	8.4	8.3	8.5	
Myeloma	^			6	4.0	4.0	4.1	
Leukemia	5.0	2.4	11.6	12	9.7	9.7	9.8	0.5
Lymphocytic Leukemia	^				2.9	2.8	2.9	
Myeloid & Monocytic Leukemia	^			7	4.6	4.6	4.7	
Acute Myeloid	^			7	3.8	3.8	3.9	
Chronic Myeloid	0.0	0.0	5.9	0	0.4	0.4	0.4	0.0
Miscellaneous	25.9 *	17.3	38.3	39	16.4	16.2	16.5	1.6

^ Fewer than 10 deaths, mortality rate not calculated

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

*Rate is statistically different than comparison rate; confidence intervals are 95%.

Age-Adjusted Cancer Mortality Rates per 100,000 Alaska Native and US White, 2007-2011

	Alaska Native Women				US White Women			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Rate Ratio
All Sites	221.7 *	200.2	245.2	426	147.5	147.3	147.8	1.5
Oral Cavity and Pharynx	^			5	1.4	1.3	1.4	
Nasopharynx	^			2	0.1	0.1	0.1	
Digestive System	61.8 *	50.7	74.9	119	31.6	31.5	31.8	2.0
Esophagus	^			5	1.5	1.5	1.6	
Stomach	10.0 *	6.1	16.0	21	2.1	2.1	2.2	4.8
Colon and Rectum	31.3 *	23.4	41.4	57	13.0	12.9	13.1	2.4
Colon excluding Rectum	28.7 *	21.1	38.5	51	10.9	10.8	10.9	2.6
Rectosigmoid Junction	^			6	2.2	2.1	2.2	
Liver	^			4	2.0	2.0	2.1	
Gallbladder	^			4	0.7	0.7	0.7	
Other Biliary	0.0	0.0	3.0	0	0.4	0.4	0.4	0.0
Pancreas	10.4	6.3	16.6	22	9.4	9.3	9.4	1.1
Respiratory System	60.5 *	49.4	73.5	113	40.4	40.2	40.5	1.5
Larynx	0.0	0.0	3.0	0	0.4	0.4	0.4	0.0
Lung and Bronchus	60.5 *	49.4	73.5	113	39.8	39.6	39.9	1.5
Bones and Joints	^				0.4	0.3	0.4	
Soft Tissue including Heart	^				1.1	1.1	1.2	
Melanoma of the Skin	0.0	0.0	3.0	0	2.0	1.9	2.0	0.0
Other Non-Epithelial Skin	^				0.5	0.4	0.5	
Breast	28.3	21.1	37.5	57	21.7	21.6	21.8	1.3
Female Genital System	18.4	12.8	25.9	39	15.3	15.2	15.4	1.2
Cervix Uteri	6.1 *	3.2	11.2	14	2.1	2.1	2.2	2.9
Corpus and Uterus, NOS	^				4.0	4.0	4.1	
Ovary	8.5	4.8	14.4	17	8.2	8.1	8.3	1.0
Urinary System	8.0	4.1	14.2	13	5.0	5.0	5.1	1.6
Urinary Bladder	^				2.2	2.2	2.3	
Kidney and Renal Pelvis	7.2 *	3.6	13.2	12	2.6	2.6	2.6	2.8
Eye and Orbit	0.0	0.0	3.0	0	0.1	0.1	0.1	0.0
Brain & Nervous System	^				3.8	3.7	3.8	
Endocrine System	^				0.8	0.7	0.8	
Thyroid	^				0.5	0.5	0.5	
Lymphoma	^			6	5.5	5.4	5.5	
Hodgkin Lymphoma	0.0	0.0	3.0	0	0.3	0.3	0.3	0.0
Non-Hodgkin Lymphoma	^			6	5.2	5.1	5.2	
Myeloma	^			2	2.5	2.4	2.5	
Leukemia	4.9	2.2	9.9	10	5.4	5.4	5.5	0.9
Lymphocytic Leukemia	^				1.4	1.4	1.5	
Myeloid & Monocytic Leukemia	^			6	2.7	2.6	2.7	
Acute Myeloid	^			5	2.3	2.2	2.3	
Chronic Myeloid	^				0.2	0.2	0.2	
Miscellaneous	28.8 *	21.2	38.6	52	10.3	10.2	10.4	2.8

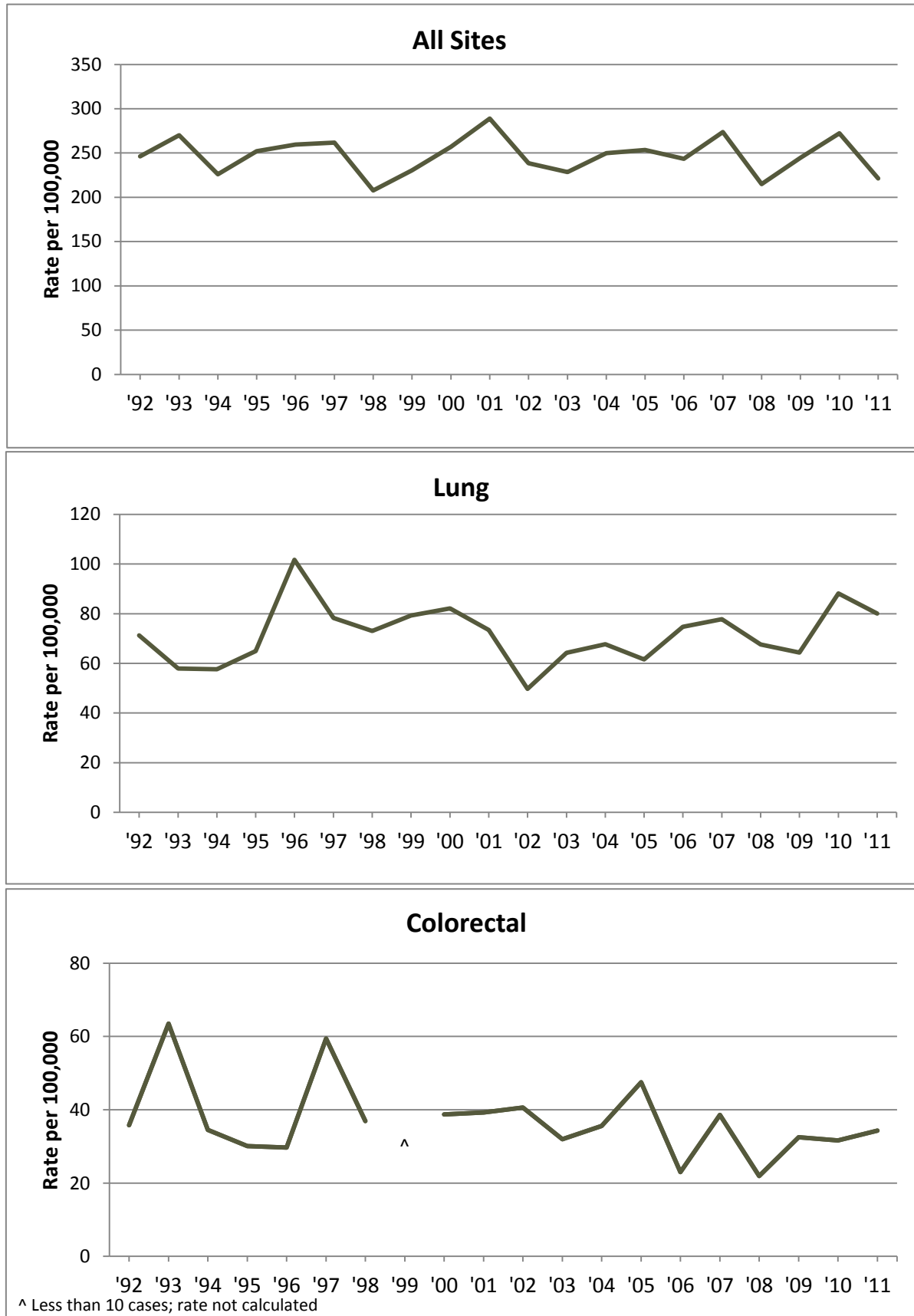
^ Fewer than 10 deaths, mortality rate not calculated

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

*Rate is statistically different than comparison rate; confidence intervals are 95%.

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Age-Adjusted Cancer Mortality Rates Alaska Native Men and Women, 1992-2011



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Age-Adjusted Cancer Mortality Rates per 100,000 Alaska Native and US White, 1992-2011

	Alaska Native Men and Women				US White Men and Women			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	
All Sites	246.0 *	236.3	256.0	2784	189.8	189.7	190.0	1.3
Oral Cavity and Pharynx	7.0 *	5.4	8.9	81	2.6	2.6	2.6	2.7
Nasopharynx	4.2 *	3.0	5.7	48	0.2	0.2	0.2	21.0
Digestive System	82.3 *	76.7	88.2	931	44.2	44.2	44.3	1.9
Esophagus	7.0 *	5.4	8.9	77	4.2	4.2	4.2	1.7
Stomach	13.9 *	11.8	16.3	182	3.8	3.8	3.8	3.7
Colon and Rectum	35.0 *	31.3	39.1	371	18.8	18.8	18.8	1.9
Colon excluding Rectum	29.5 *	26.1	33.4	305	15.9	15.8	15.9	1.9
Rectosigmoid Junction	5.5 *	4.2	7.2	66	2.9	2.9	3.0	1.9
Liver	6.2 *	4.8	8.1	72	3.5	3.5	3.5	1.8
Gallbladder	1.8 *	1.1	3.1	18	0.7	0.7	0.7	2.6
Other Biliary	0.8	0.4	1.7	10	0.6	0.5	0.6	1.3
Pancreas	13.5 *	11.4	16.0	159	10.5	10.5	10.5	1.3
Respiratory System	73.1 *	67.9	78.7	807	55.5	55.4	55.6	1.3
Larynx	0.9	0.5	1.7	12	1.2	1.2	1.2	0.8
Lung and Bronchus	72.2 *	67.0	77.8	794	53.9	53.9	54.0	1.3
Bones and Joints	^				0.5	0.4	0.5	
Soft Tissue including Heart	0.8	0.4	1.6	13	1.3	1.3	1.4	0.6
Melanoma of the Skin	0.8	0.4	1.7	11	3.1 *	3.1	3.1	0.3
Other Non-Epithelial Skin	^				0.9	0.9	0.9	
Urinary System	12.5 *	10.3	15.2	123	9.0	9.0	9.0	1.4
Urinary Bladder	2.8	1.8	4.3	25	4.5 *	4.5	4.6	0.6
Kidney and Renal Pelvis	9.4 *	7.5	11.7	95	4.2	4.2	4.2	2.2
Eye and Orbit	^				0.1	0.1	0.1	
Brain & Nervous System	1.6	1.0	2.5	26	4.8 *	4.8	4.8	0.3
Endocrine System	^				0.8	0.8	0.8	
Thyroid	^				0.5	0.5	0.5	
Lymphoma	4.5	3.3	6.2	52	8.3 *	8.3	8.3	0.5
Hodgkin Lymphoma	^				0.5	0.5	0.5	
Non-Hodgkin Lymphoma	4.4	3.2	6.1	50	7.8 *	7.8	7.9	0.6
Myeloma	2.4	1.6	3.6	30	3.4	3.4	3.4	0.7
Leukemia	4.6	3.4	6.1	66	7.7 *	7.6	7.7	0.6
Lymphocytic Leukemia	1.2	0.6	2.3	17	2.2	2.2	2.2	0.5
Myeloid & Monocytic Leukemia	2.2	1.5	3.4	35	3.5 *	3.5	3.5	0.6
Acute Myeloid	1.9	1.2	2.9	29	2.7	2.7	2.7	0.7
Chronic Myeloid	^				0.6	0.6	0.6	
Miscellaneous	25.6 *	22.5	29.1	284	14.0	14.0	14.1	1.8

^ Fewer than 10 deaths, mortality rate not calculated

*Rate is statistically different than comparison rate; confidence intervals are 95%.

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

Age-Adjusted Cancer Mortality Rates per 100,000 Alaska Native and US White, 1992-2011

	Alaska Native Men				US White Men			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Rate Ratio
All Sites	288.4 *	272.1	305.7	1457	234.8	234.6	235.0	1.2
Oral Cavity and Pharynx	10.2 *	7.4	14.1	54	3.9	3.9	3.9	2.6
Nasopharynx	6.4 *	4.2	9.7	33	0.3	0.3	0.3	21.3
Digestive System	98.5 *	89.1	108.8	508	56.7	56.6	56.8	1.7
Esophagus	10.4	7.4	14.4	52	7.5	7.5	7.6	1.4
Stomach	18.6 *	15.0	23.3	111	5.3	5.3	5.4	3.5
Colon and Rectum	37.5 *	31.8	44.4	185	22.7	22.7	22.8	1.7
Colon excluding Rectum	30.7 *	25.4	37.1	146	18.9	18.9	19.0	1.6
Rectosigmoid Junction	6.8 *	4.7	10.1	39	3.8	3.8	3.8	1.8
Liver	9.2 *	6.4	13.1	46	5.5	5.4	5.5	1.7
Gallbladder	^			7	0.5	0.5	0.5	
Other Biliary	^				0.6	0.6	0.7	
Pancreas	16.1 *	12.5	20.7	84	12.2	12.1	12.2	1.3
Respiratory System	94.5 *	85.5	104.4	478	74.8	74.7	74.9	1.3
Larynx	1.7	0.8	3.8	11	2.2	2.2	2.2	0.8
Lung and Bronchus	92.7 *	83.8	102.6	466	72.1	72.0	72.2	1.3
Bones and Joints	^				0.6	0.6	0.6	
Soft Tissue including Heart	^				1.5	1.5	1.6	
Melanoma of the Skin	^				4.5	4.5	4.5	
Other Non-Epithelial Skin	^				1.5	1.5	1.6	
Breast	0.0	0.0	1.8	0	0.3	0.3	0.3	0.0
Male Genital System	18.7	14.1	24.6	66	27.1 *	27.0	27.1	0.7
Prostate	18.0	13.5	23.8	62	26.6 *	26.5	26.6	0.7
Testis	^				0.3	0.3	0.3	
Urinary System	17.9	13.8	23.1	78	14.5	14.4	14.5	1.2
Urinary Bladder	4.3	2.4	7.5	17	8.1 *	8.0	8.1	0.5
Kidney and Renal Pelvis	12.7 *	9.4	17.1	58	6.1	6.1	6.1	2.1
Eye and Orbit	^				0.1	0.1	0.1	
Brain & Nervous System	2.2	1.2	4.3	17	5.9 *	5.8	5.9	0.4
Endocrine System	^				0.8	0.8	0.8	
Thyroid	^				0.5	0.5	0.5	
Lymphoma	5.2	3.3	8.3	30	10.4 *	10.4	10.5	0.5
Hodgkin Lymphoma	^				0.6	0.6	0.6	
Non-Hodgkin Lymphoma	5.1	3.2	8.2	29	9.8 *	9.8	9.9	0.5
Myeloma	2.1	1.0	4.6	11	4.3	4.3	4.3	0.5
Leukemia	5.8	3.8	8.9	39	10.3 *	10.2	10.3	0.6
Lymphocytic Leukemia	^			7	3.2	3.1	3.2	
Myeloid & Monocytic Leukemia	3.1	1.7	5.5	23	4.6	4.6	4.7	0.7
Acute Myeloid	2.6	1.4	5.1	19	3.5	3.5	3.6	0.7
Chronic Myeloid	^				0.7	0.7	0.7	
Miscellaneous	29.4 *	24.3	35.6	150	17.6	17.5	17.7	1.7

^ Fewer than 10 deaths, mortality rate not calculated

*Rate is statistically different than comparison rate; confidence intervals are 95%.

Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.

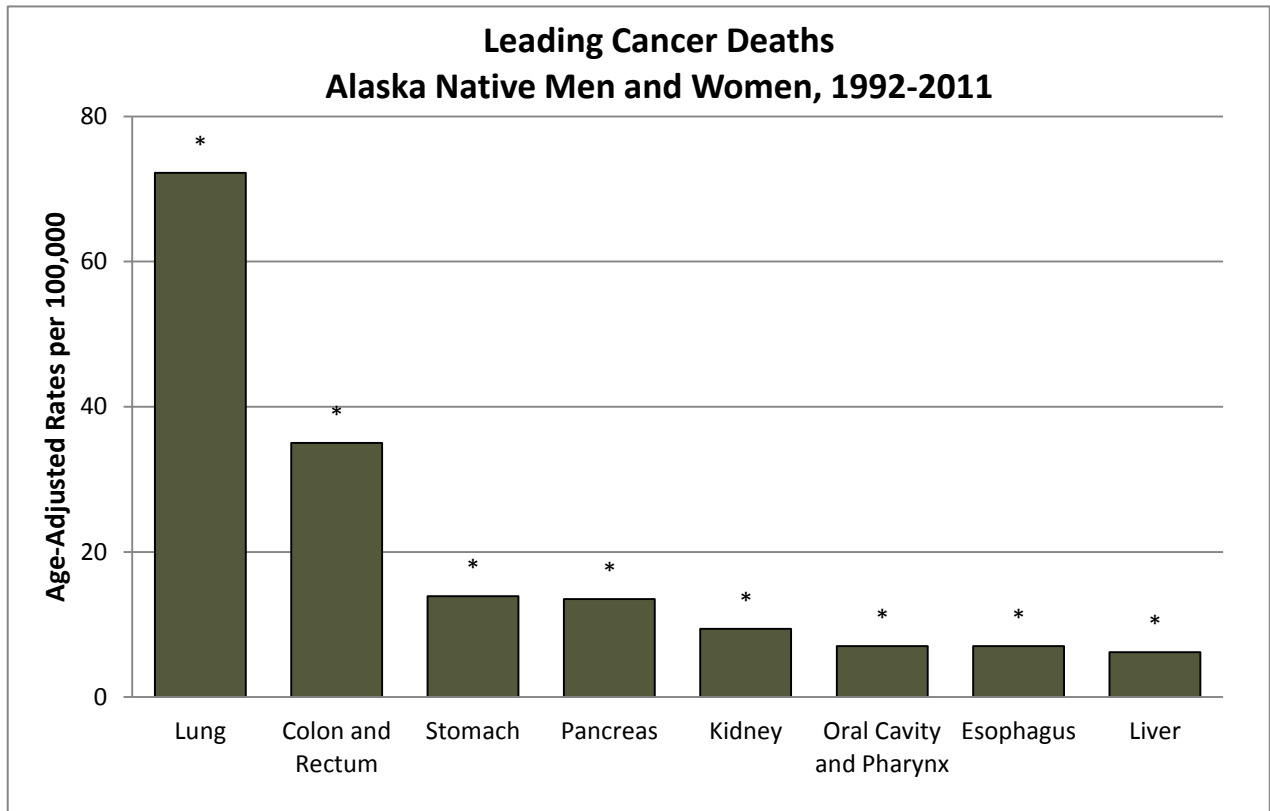
Age-Adjusted Cancer Mortality Rates per 100,000 Alaska Native and US White, 1992-2011

	Alaska Native Women				US White Women			AN/US
	Rate	Lower CI	Upper CI	Count	Rate	Lower CI	Upper CI	Rate Ratio
All Sites	213.9 *	202.0	226.4	1327	160.0	159.9	160.1	1.3
Oral Cavity and Pharynx	4.3 *	2.8	6.5	27	1.5	1.5	1.6	2.9
Nasopharynx	2.3 *	1.3	4.1	15	0.1	0.1	0.1	23.0
Digestive System	69.4 *	62.7	76.8	423	34.5	34.5	34.6	2.0
Esophagus	4.3 *	2.7	6.6	25	1.6	1.6	1.6	2.7
Stomach	10.1 *	7.8	13.0	71	2.7	2.6	2.7	3.7
Colon and Rectum	32.7 *	28.0	38.1	186	15.9	15.8	15.9	2.1
Colon excluding Rectum	28.5 *	24.0	33.5	159	13.6	13.5	13.6	2.1
Rectosigmoid Junction	4.3 *	2.7	6.4	27	2.3	2.3	2.3	1.9
Liver	4.0 *	2.5	6.1	26	1.9	1.9	2.0	2.1
Gallbladder	1.9 *	0.9	3.5	11	0.8	0.8	0.8	2.4
Other Biliary	^				0.5	0.5	0.5	
Pancreas	11.6	9.0	14.7	75	9.1	9.1	9.1	1.3
Respiratory System	55.5 *	49.5	62.2	329	41.5	41.4	41.5	1.3
Larynx	^				0.5	0.5	0.5	
Lung and Bronchus	55.4 *	49.3	62.0	328	40.8	40.7	40.8	1.4
Bones and Joints	^				0.4	0.4	0.4	
Soft Tissue including Heart	^				1.2	1.2	1.2	
Melanoma of the Skin	^				2.0	2.0	2.0	
Other Non-Epithelial Skin	^				0.5	0.4	0.5	
Breast	25.7	21.8	30.1	175	25.4	25.3	25.4	1.0
Female Genital System	14.1	11.3	17.4	98	16.3	16.2	16.3	0.9
Cervix Uteri	3.8	2.5	5.7	30	2.4	2.4	2.5	1.6
Corpus and Uterus, NOS	^				3.9	3.9	4.0	
Ovary	7.3	5.4	9.9	50	8.9	8.9	9.0	0.8
Urinary System	8.3 *	6.0	11.3	45	5.2	5.2	5.2	1.6
Urinary Bladder	^			8	2.3	2.3	2.3	
Kidney and Renal Pelvis	6.6 *	4.6	9.4	37	2.8	2.8	2.8	2.4
Eye and Orbit	0.0	0.0	0.9	0	0.1	0.1	0.1	0.0
Brain & Nervous System	^			9	3.9	3.9	4.0	
Endocrine System	^				0.7	0.7	0.8	
Thyroid	^				0.5	0.5	0.5	
Lymphoma	3.8	2.3	6.0	22	6.7 *	6.7	6.8	0.6
Hodgkin Lymphoma	^				0.4	0.4	0.4	
Non-Hodgkin Lymphoma	3.7	2.2	5.9	21	6.4 *	6.3	6.4	0.6
Myeloma	2.8	1.6	4.5	19	2.8	2.7	2.8	1.0
Leukemia	3.6	2.3	5.5	27	5.8 *	5.8	5.8	0.6
Lymphocytic Leukemia	1.4	0.7	2.9	10	1.6	1.6	1.6	0.9
Myeloid & Monocytic Leukemia	1.6	0.8	3.0	12	2.8	2.7	2.8	0.6
Acute Myeloid	1.3	0.6	2.6	10	2.2	2.1	2.2	0.6
Chronic Myeloid	^				0.4	0.4	0.4	
Miscellaneous	22.6 *	18.7	27.0	134	11.5	11.4	11.5	2.0

^ Fewer than 10 deaths, mortality rate not calculated

*Rate is statistically different than comparison rate; confidence intervals are 95%.

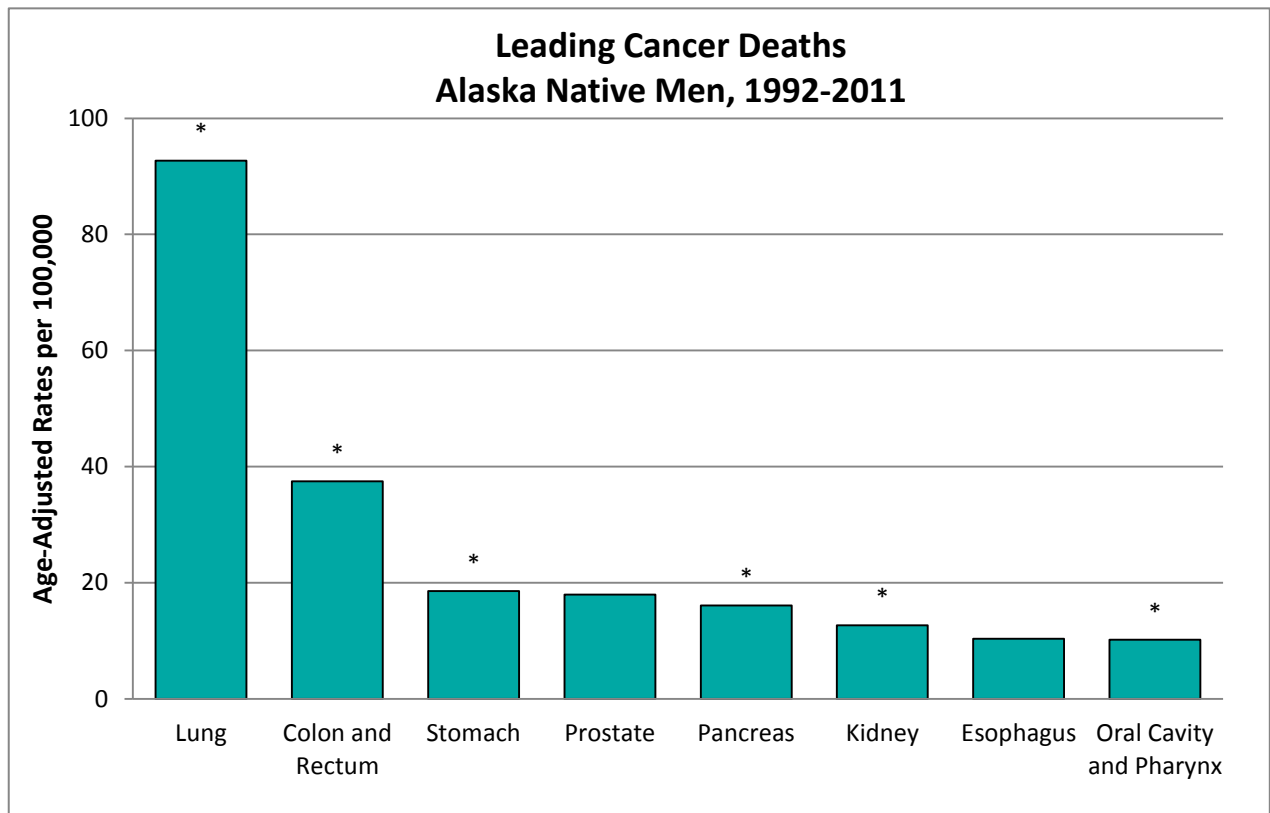
Rates are per 100,000 and age-adjusted to the 2000 US Standard Population.



Ten Leading Cancer Deaths, 1992 - 2011
Alaska Native People and US Whites

Alaska Native Men and Women			US White Men and Women	
	Count	Rate		Rate
Lung	794	72.2 *	Lung	53.9
Colon and Rectum	371	35.0 *	Colon and Rectum	18.8
Stomach	182	13.9 *	Pancreas	10.5
Pancreas	159	13.5 *	Non-Hodgkin Lymphoma	7.8 *
Kidney	95	9.4 *	Leukemia	7.7 *
Oral Cavity and Pharynx	81	7.0 *	Brain & Nervous System	4.8 *
Esophagus	77	7.0 *	Urinary Bladder	4.5 *
Liver	72	6.2 *	Kidney	4.2
Leukemia	66	4.6	Esophagus	4.2
Non-Hodgkin Lymphoma	50	4.4	Stomach	3.8

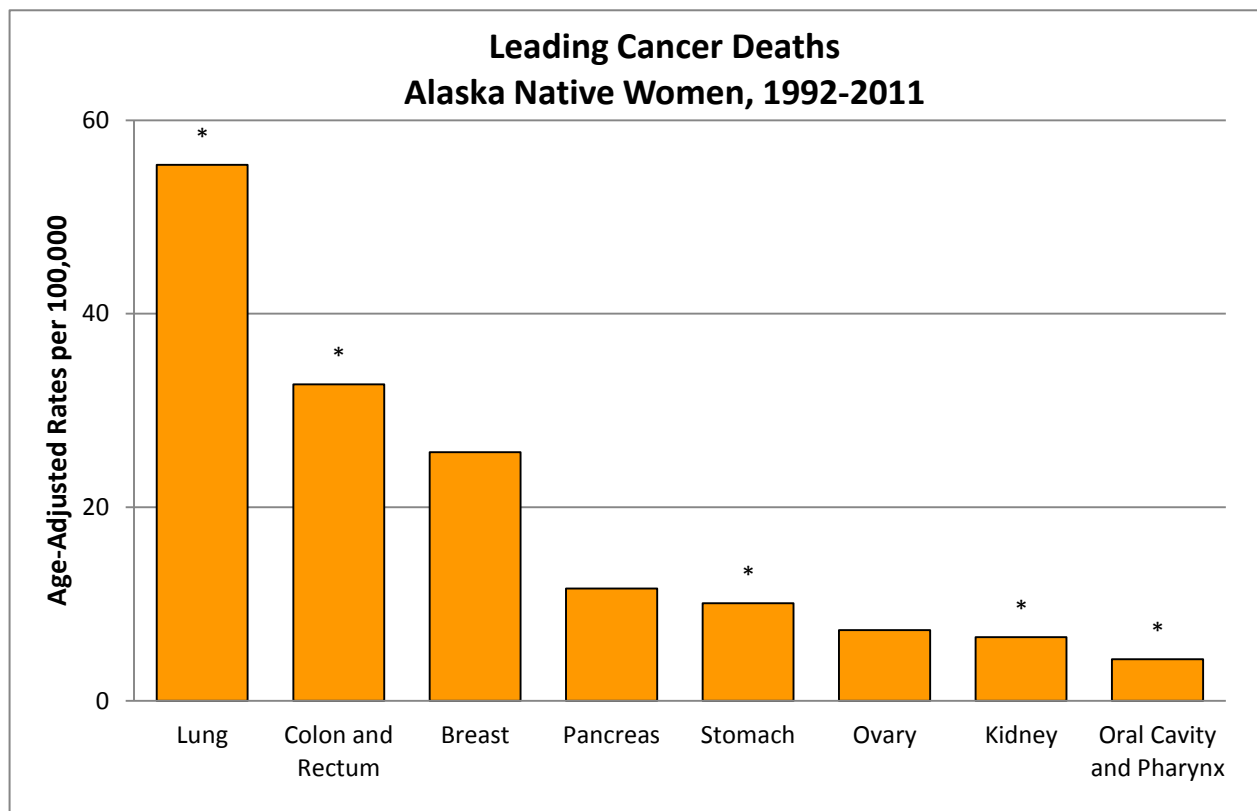
* Rate is statistically higher than comparison rate; $p < 0.05$.



**Ten Leading Cancer Deaths, 1992 - 2011
Alaska Native People and US Whites**

Alaska Native Men			US White Men	
	Count	Rate		Rate
Lung	466	92.7 *	Lung	72.1
Colon and Rectum	185	37.5 *	Prostate	26.6 *
Stomach	111	18.6 *	Colon and Rectum	22.7
Prostate	62	18.0	Pancreas	12.2
Pancreas	84	16.1 *	Leukemia	10.3 *
Kidney	58	12.7 *	Non-Hodgkin Lymphoma	9.8 *
Esophagus	52	10.4	Urinary Bladder	8.1 *
Oral Cavity and Pharynx	54	10.2 *	Esophagus	7.5
Liver	46	9.2 *	Kidney	6.1
Nasopharynx	33	6.4 *	Brain & Nervous System	5.9 *

* Rate is statistically higher than comparison rate; $p < 0.05$.

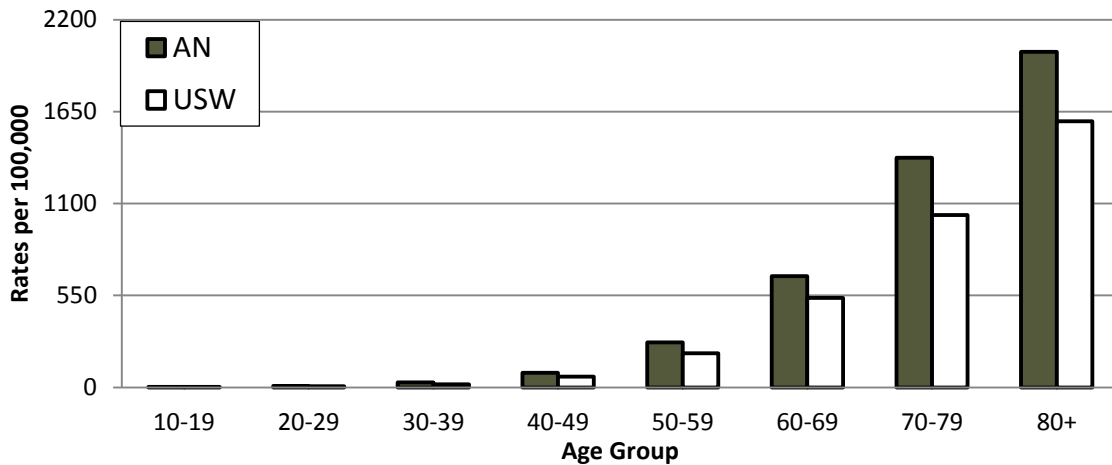


Ten Leading Cancer Deaths, 1992 - 2011
Alaska Native People and US Whites

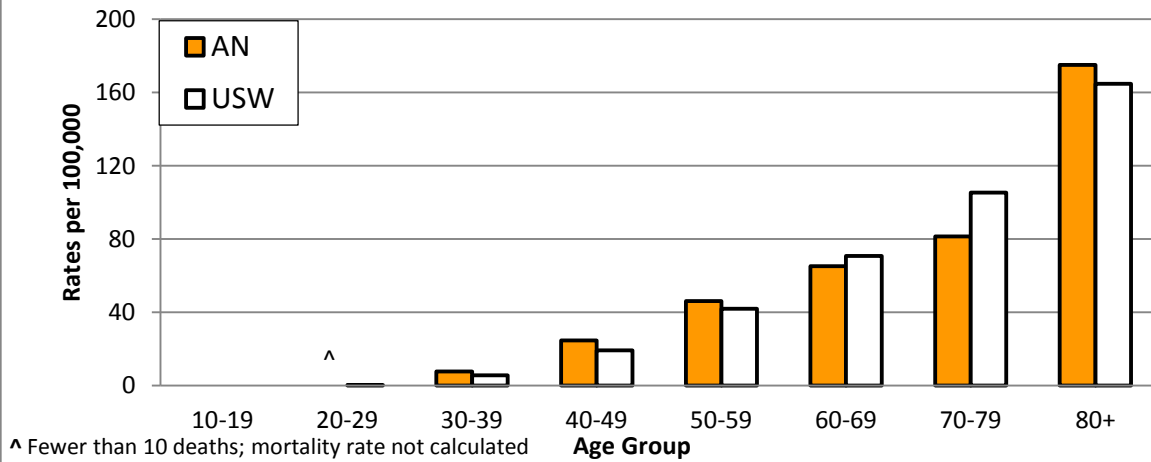
Alaska Native Women			US White Women	
	Count	Rate		Rate
Lung	328	55.4 *	Lung	40.8
Colon and Rectum	186	32.7 *	Breast	25.4
Breast	175	25.7	Colon and Rectum	15.9
Pancreas	75	11.6	Pancreas	9.1
Stomach	71	10.1 *	Ovary	8.9
Ovary	50	7.3	Non-Hodgkin Lymphoma	6.4 *
Kidney	37	6.6 *	Leukemia	5.8 *
Oral Cavity and Pharynx	27	4.3 *	Corpus and Uterus, NOS	3.9
Esophagus	25	4.3 *	Brain & Nervous System	3.9
Liver	26	4.0 *	Kidney	2.8

* Rate is statistically higher than comparison rate; $p < 0.05$.

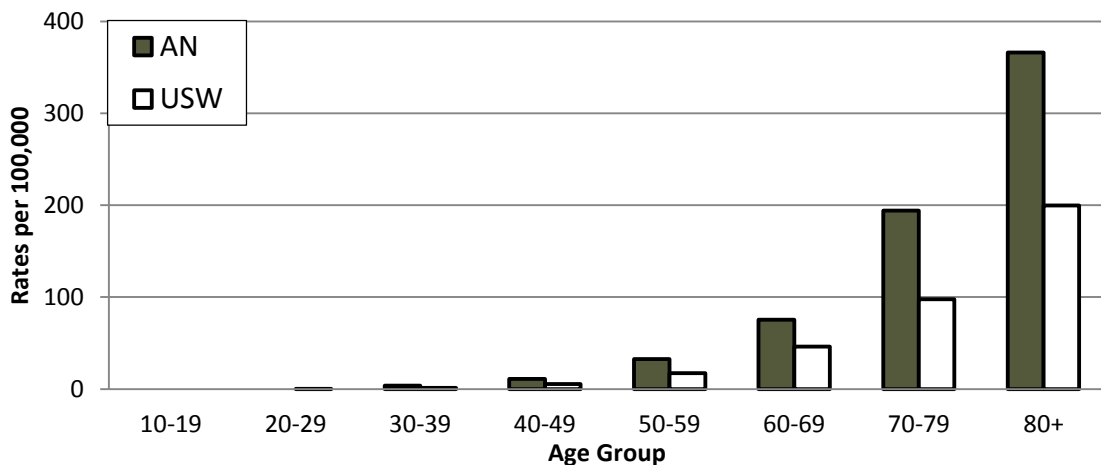
All Cancer Sites Age-Specific Mortality Rates
Alaska Native and US White, Men and Women, 1992-2011

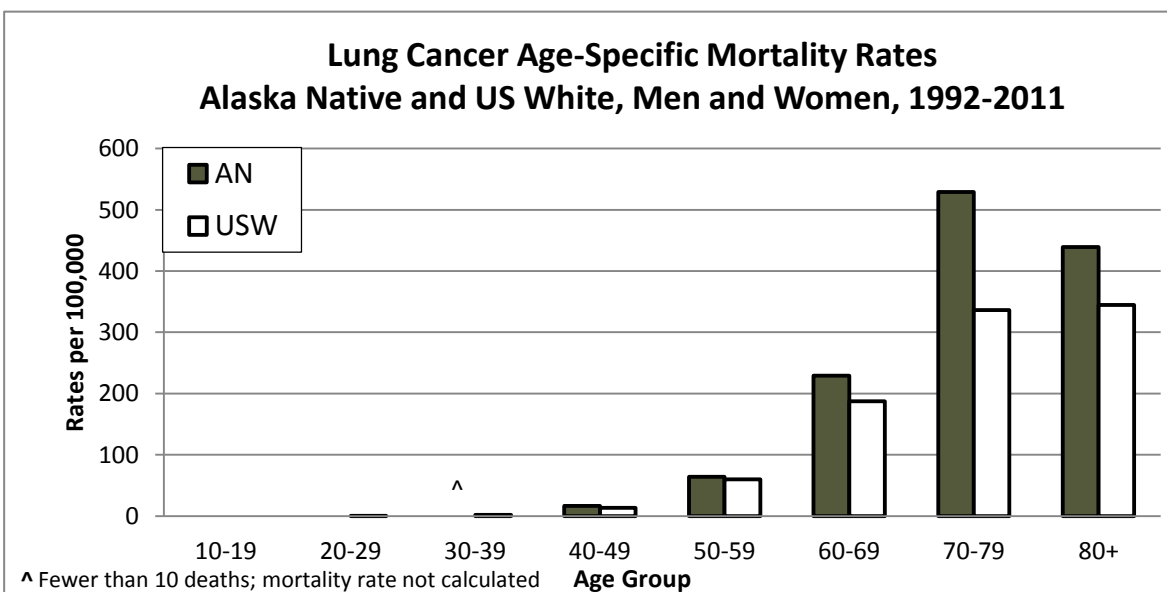
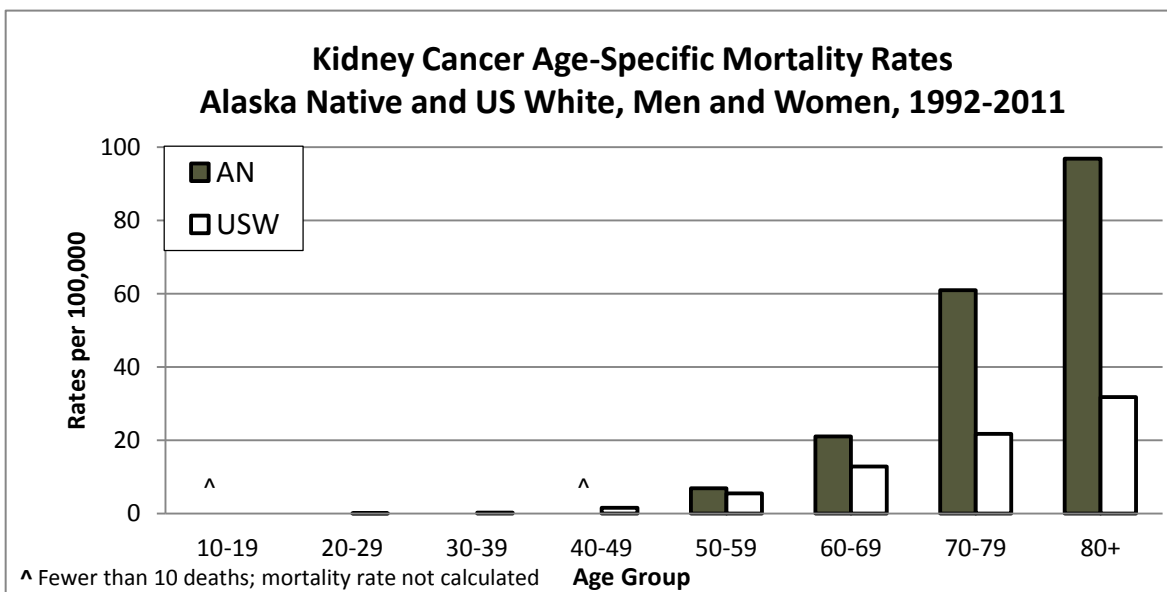
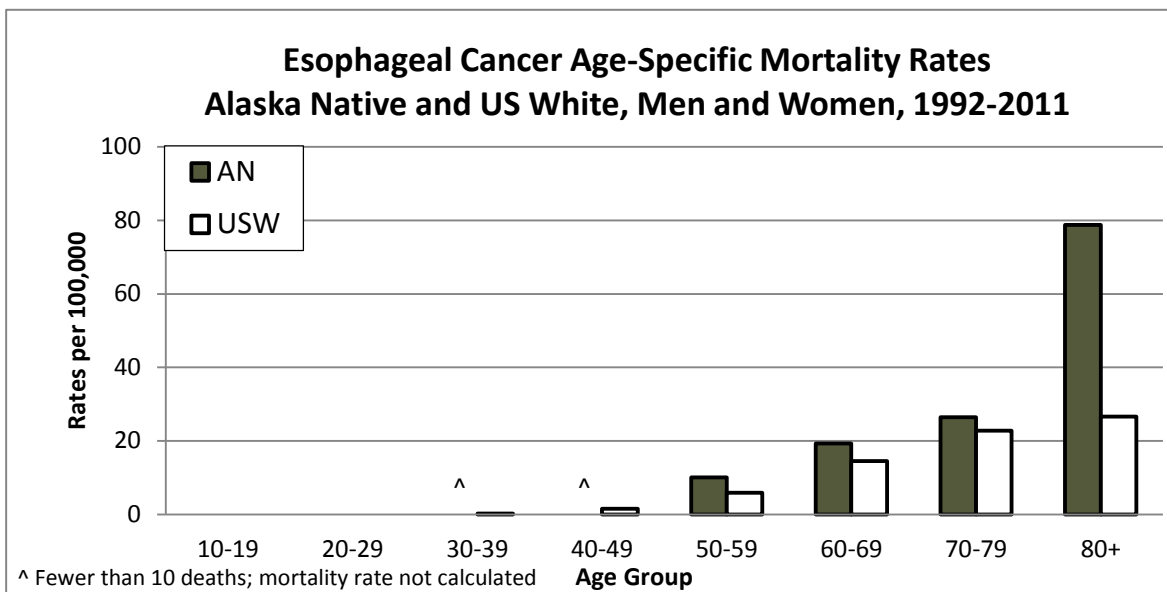


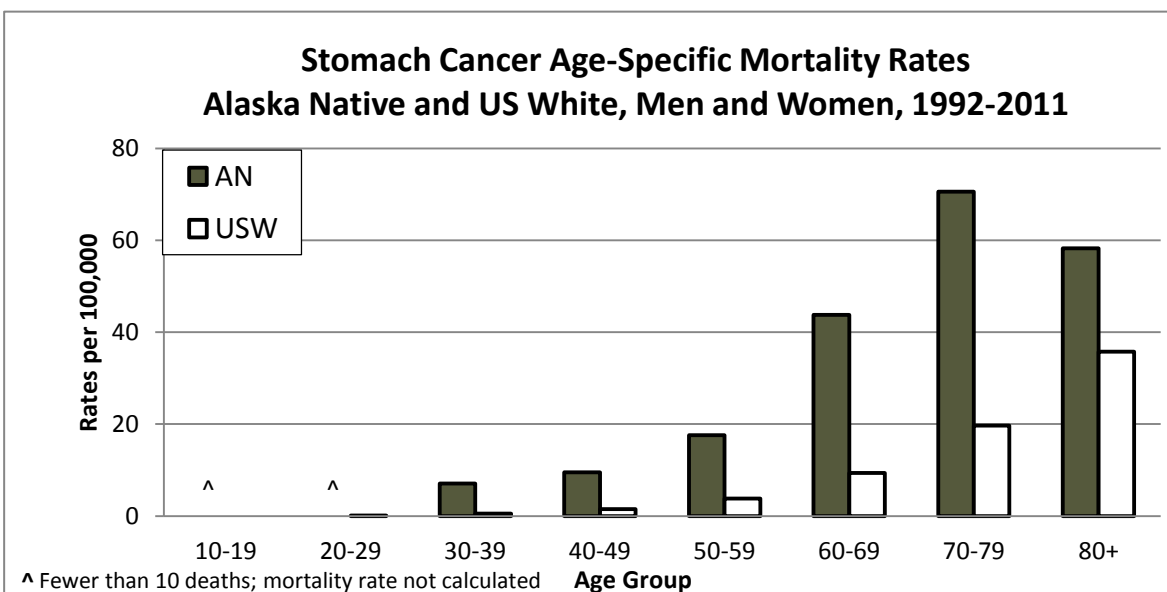
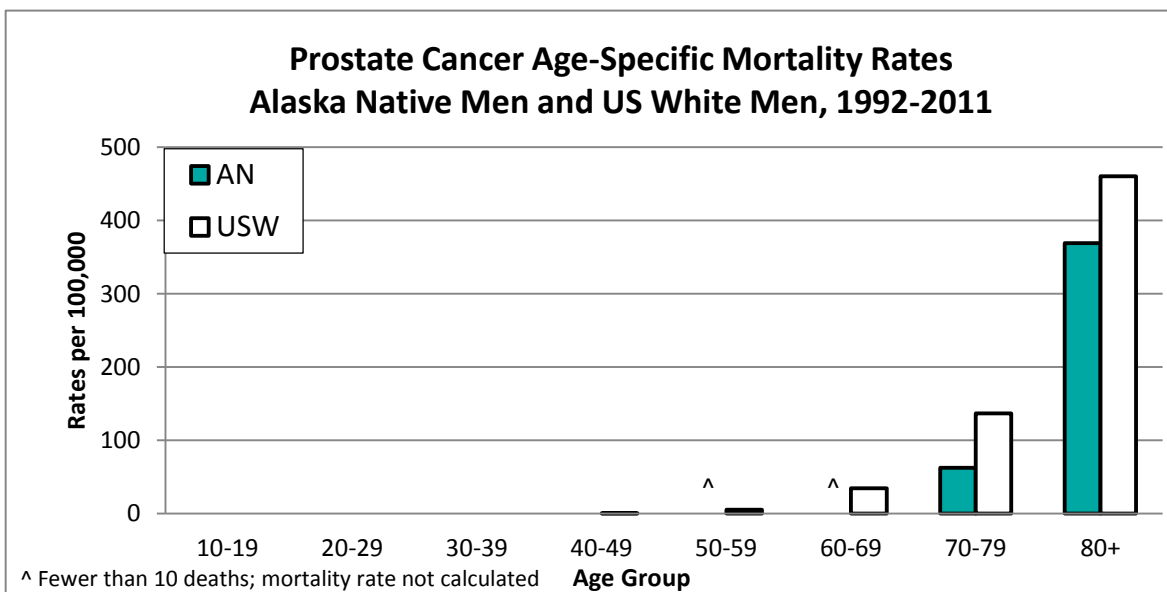
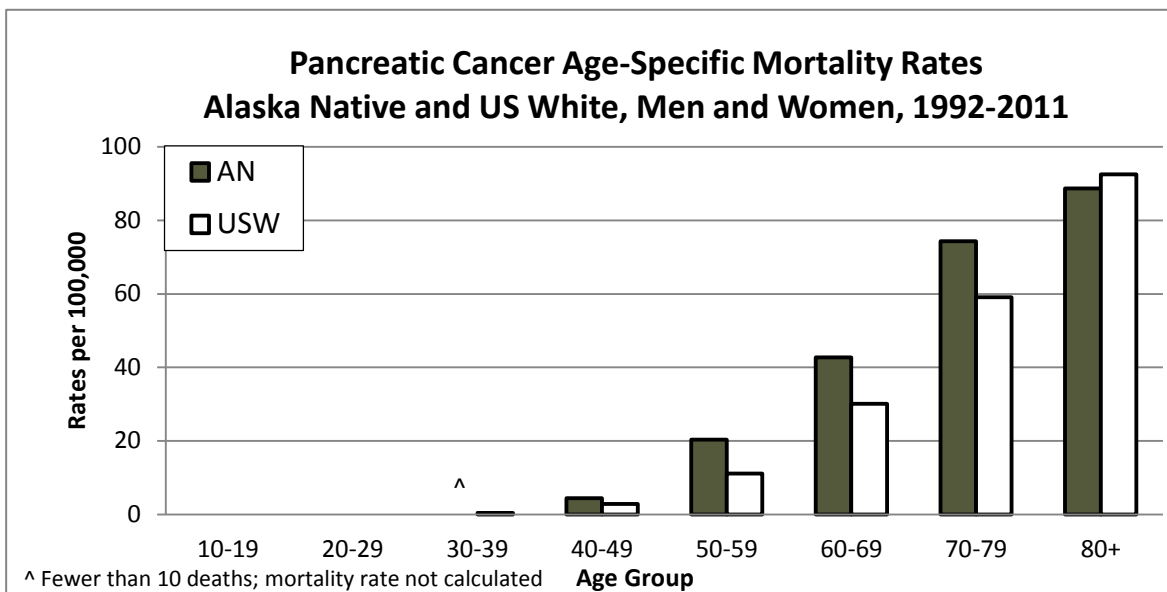
Breast Cancer Age-Specific Mortality Rates
Alaska Native Women and US White Women, 1992-2011



Colorectal Cancer Age-Specific Mortality Rates
Alaska Native and US White, Men and Women, 1992-2011







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Cancer Mortality Rates

Alaska Native Men and Women, 1992-2011

		1992-1996			1997-2001			2002-2006			2007-2011		
		Rate	CI Lower	CI Upper	Rate	CI Lower	CI Upper	Rate	CI Lower	CI Upper	Rate	CI Lower	CI Upper
All Sites	AN	241.0	219.3	264.6	252.0	231.8	273.7	245.2	226.5	265.2	245.4	228.1	263.8
	USW	207.1	206.8	207.4	197.1	196.8	197.3	186.3	186.0	186.5	173.3	173.1	173.5
Oral Cavity and Pharynx	AN	10.1	6.1	16.4	9.0	5.6	14.2	7.1	4.2	11.6	3.6	2.0	6.4
	USW	3.0	2.9	3.0	2.6	2.6	2.7	2.5	2.4	2.5	2.4	2.4	2.4
Esophagus	AN	5.1	2.4	10.1	8.4	5.1	13.4	10.7	6.9	16.1	3.9	2.0	7.3
	USW	3.9	3.8	3.9	4.2	4.1	4.2	4.4	4.4	4.4	4.3	4.3	4.4
Stomach	AN	13.8	9.5	20.1	16.1	11.7	22.0	14.6	10.4	20.3	11.6	8.4	16.0
	USW	4.8	4.8	4.9	4.1	4.0	4.1	3.5	3.4	3.5	3.0	3.0	3.0
Colon and Rectum	AN	36.0	27.6	46.6	37.0	29.2	46.5	32.3	25.6	40.5	35.4	29.0	43.1
	USW	22.4	22.3	22.5	20.4	20.3	20.4	17.8	17.8	17.9	15.5	15.4	15.5
Liver	AN	4.3	2.0	8.8	5.9	3.1	10.5	7.9	4.8	12.6	6.0	3.6	9.7
	USW	3.0	3.0	3.1	3.3	3.2	3.3	3.6	3.5	3.6	4.0	4.0	4.0
Pancreas	AN	8.7	5.1	14.6	16.4	11.7	22.8	14.9	10.6	20.8	12.8	9.3	17.5
	USW	10.3	10.2	10.3	10.3	10.2	10.4	10.5	10.5	10.6	10.8	10.7	10.8
Lung and Bronchus	AN	79.3	67.0	93.7	67.1	56.9	78.8	68.9	59.4	79.9	74.5	65.1	85.2
	USW	58.2	58.0	58.3	56.2	56.1	56.3	53.8	53.7	53.9	49.1	48.9	49.2
δ Breast	AN	27.4	18.4	40.1	21.8	15.1	31.1	24.8	17.9	33.8	28.3	21.1	37.5
	USW	30.4	30.3	30.6	26.4	26.3	26.5	24.0	23.9	24.1	21.7	21.6	21.8
Ovary	AN	10.2	5.4	18.7	^	^	^	5.7	2.6	11.2	8.5	4.8	14.4
	USW	9.5	9.4	9.5	9.2	9.1	9.2	9.1	9.0	9.2	8.2	8.1	8.3
Prostate	AN	^	^	^	27.7	16.1	44.9	16.4	8.5	29.7	16.1	9.2	27.1
	USW	35.1	34.9	35.3	28.9	28.8	29.1	24.2	24.0	24.3	20.6	20.5	20.7
Kidney and Renal Pelvis	AN	15.4	10.2	22.8	7.9	4.7	12.9	6.2	3.5	10.6	9.5	6.2	14.3
	USW	4.3	4.3	4.4	4.3	4.2	4.3	4.2	4.2	4.3	4.0	4.0	4.1
Non-Hodgkin Lymphoma	AN	^	^	^	5.3	2.9	9.4	4.3	2.0	8.4	4.4	2.2	8.1
	USW	8.9	8.8	8.9	8.7	8.7	8.8	7.4	7.4	7.5	6.6	6.5	6.6
Leukemia	AN	3.4	1.4	7.9	4.5	2.3	8.4	4.9	2.8	8.5	5.1	3.1	8.5
	USW	8.0	8.0	8.1	7.8	7.8	7.9	7.6	7.5	7.6	7.3	7.2	7.3

Rates are per 100,000 and age-adjusted to the 2000 US standard population

δ Rates calculated for women only

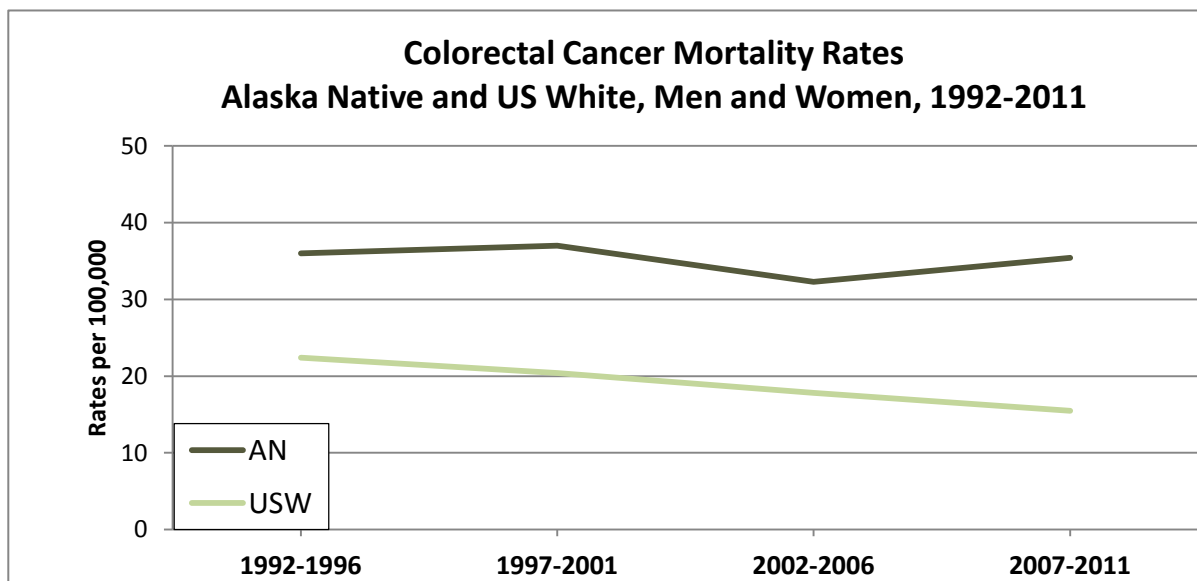
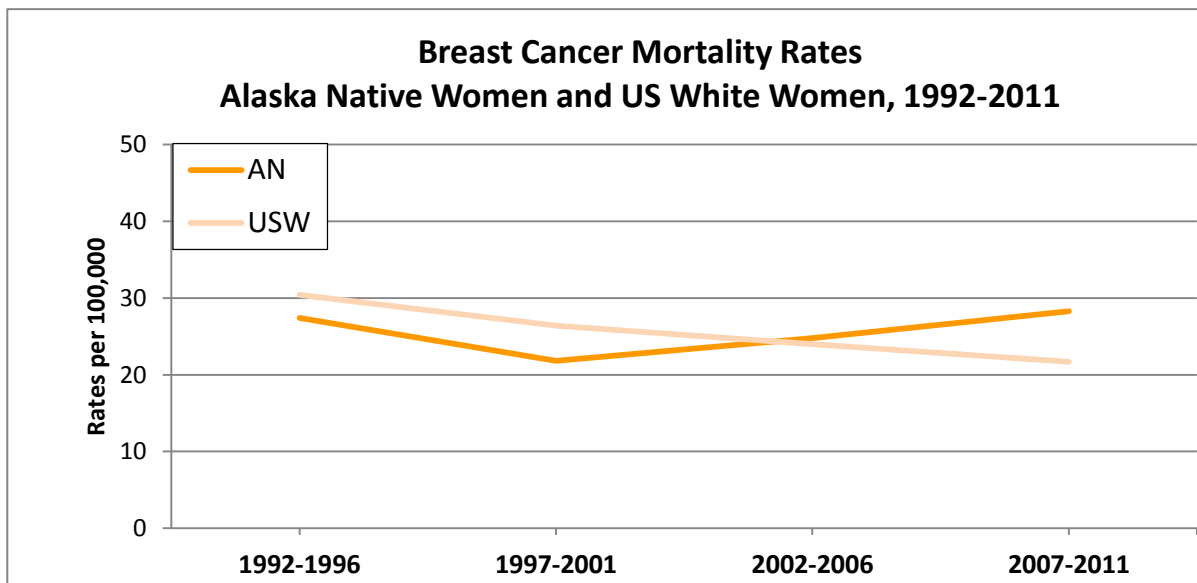
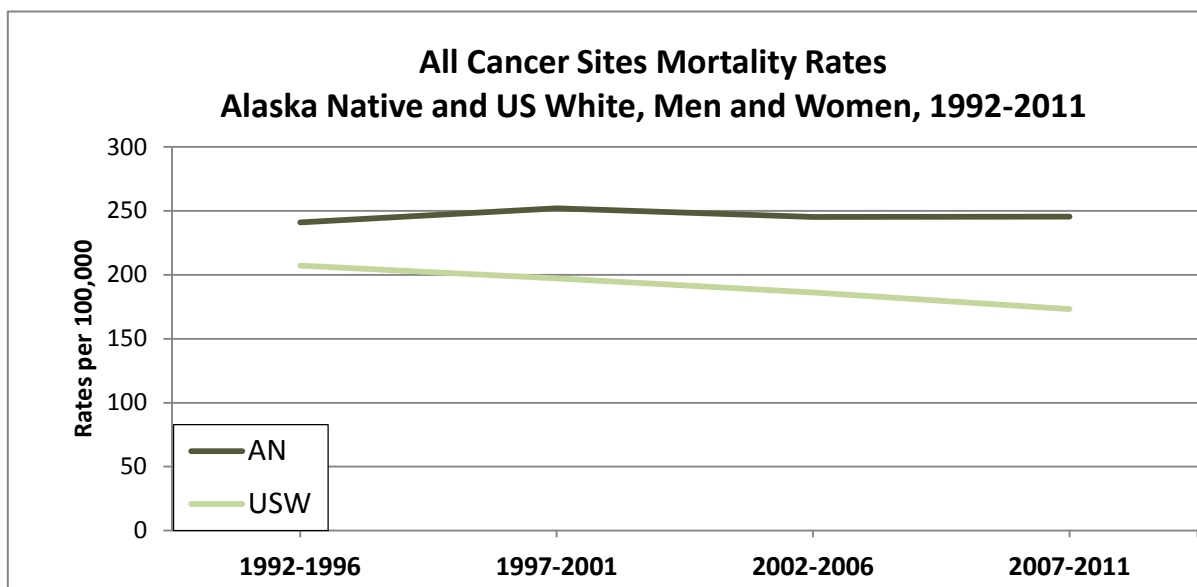
^ Fewer than 10 deaths; mortality rate not calculated

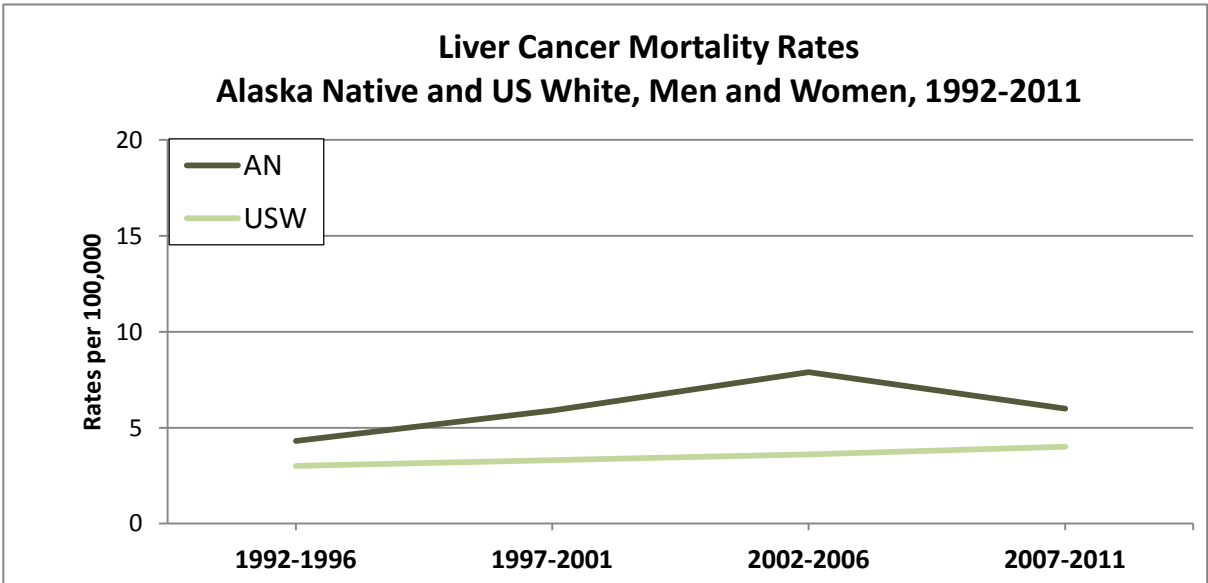
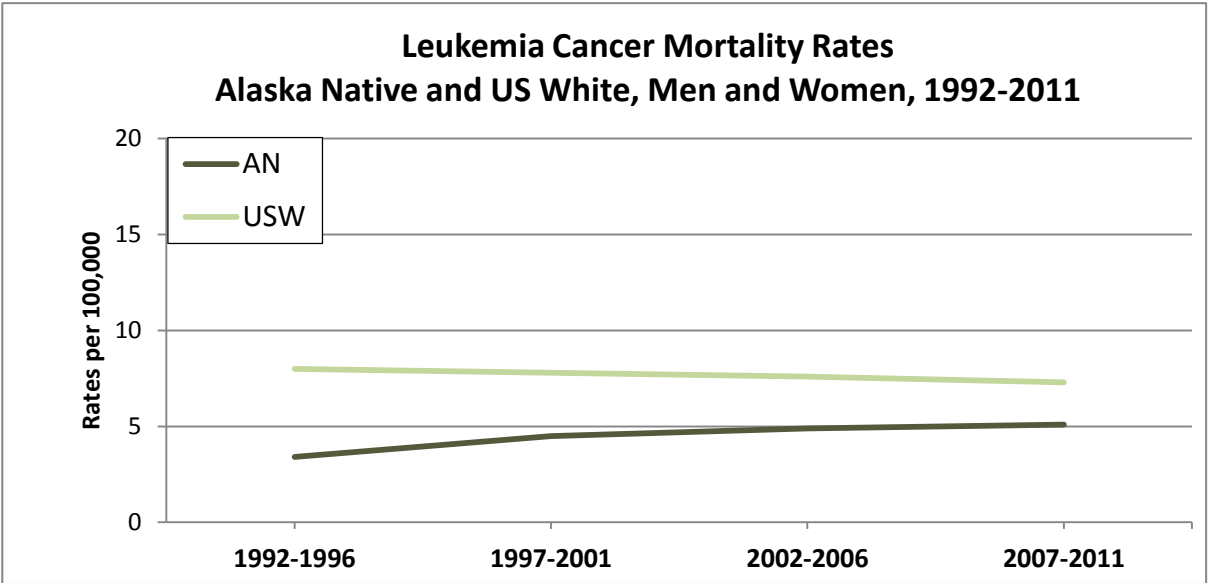
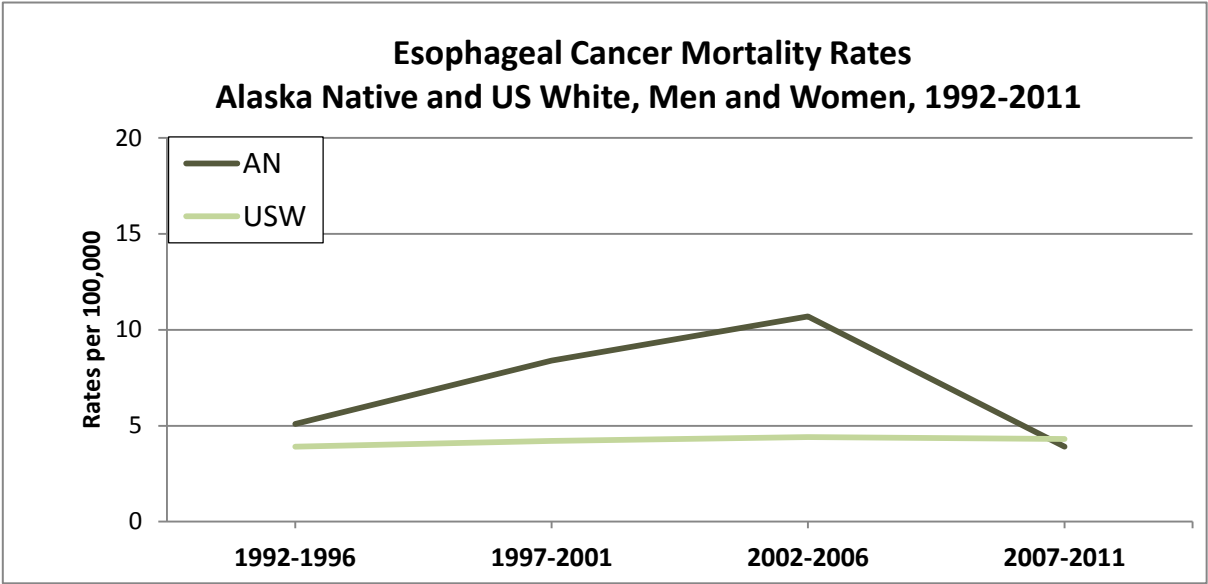
Cancer Mortality Numbers

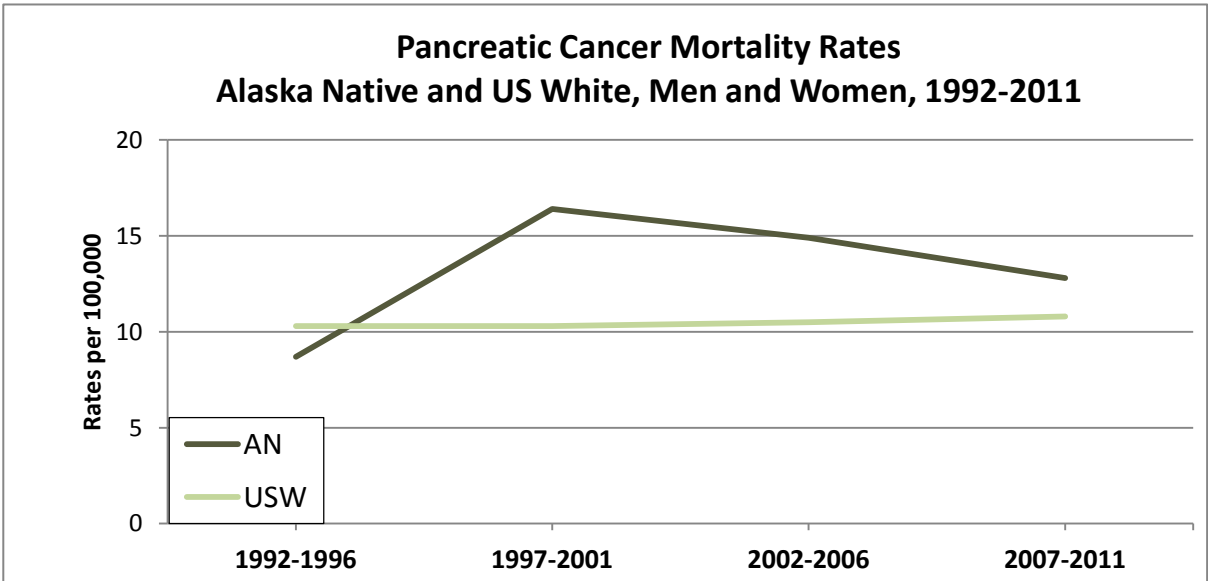
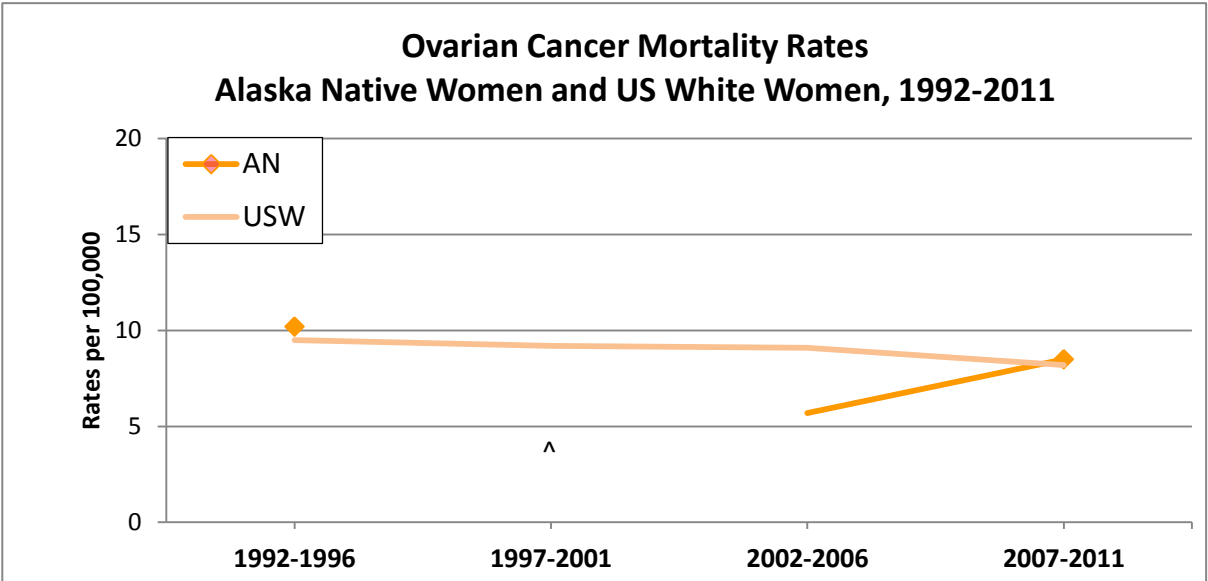
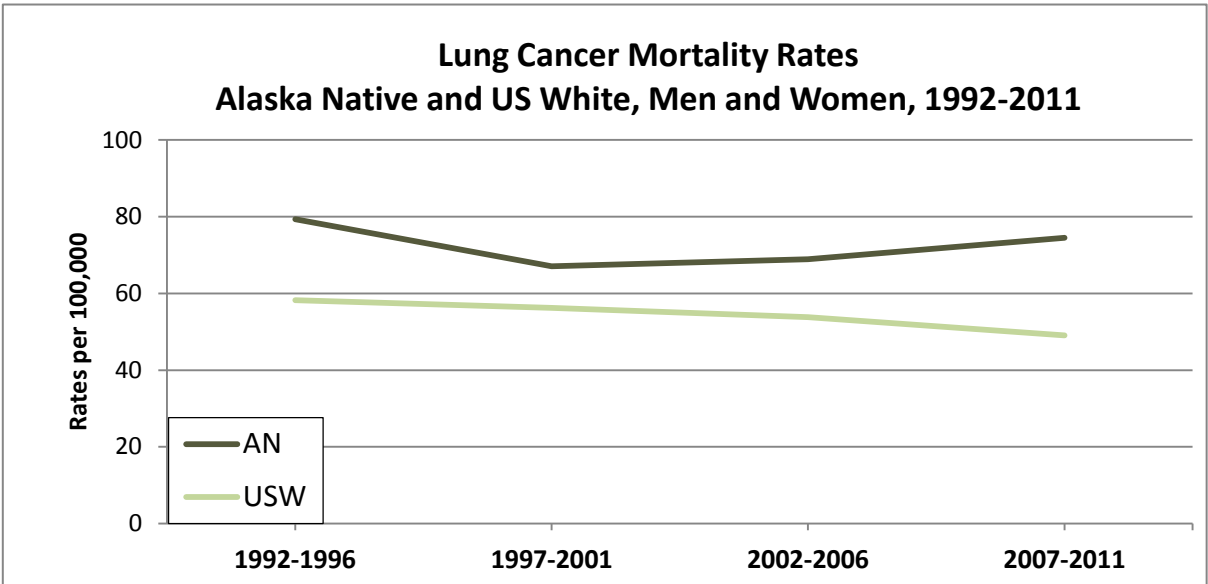
Alaska Native Men and Women, 1992-2011

	1992-1996	1997-2001	2002-2006	2007-2011
All Sites	525	660	733	866
Oral Cavity and Pharynx	22	23	20	16
Esophagus	12	22	29	14
Stomach	37	51	47	47
Colon and Rectum	70	88	92	121
Liver	12	16	23	21
Pancreas	20	44	43	52
Lung and Bronchus	164	171	206	253
δ Breast	33	37	48	57
Ovary	14	9	10	17
Prostate	8	20	14	20
Kidney and Renal Pelvis	30	20	17	28
Non-Hodgkin Lymphoma	8	17	12	13
Leukemia	10	15	19	22

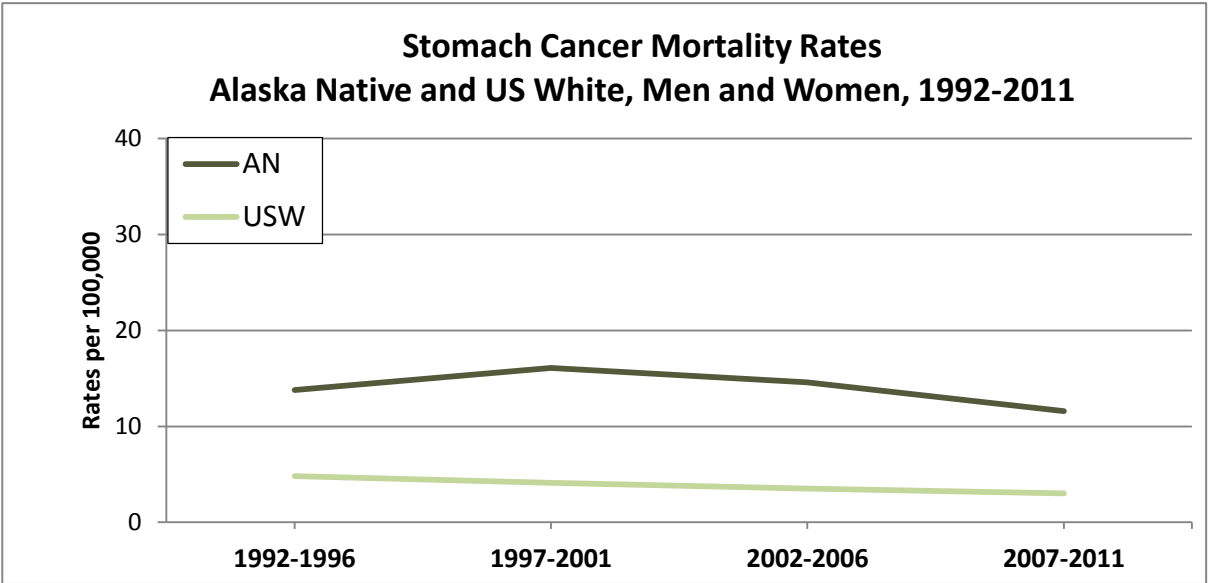
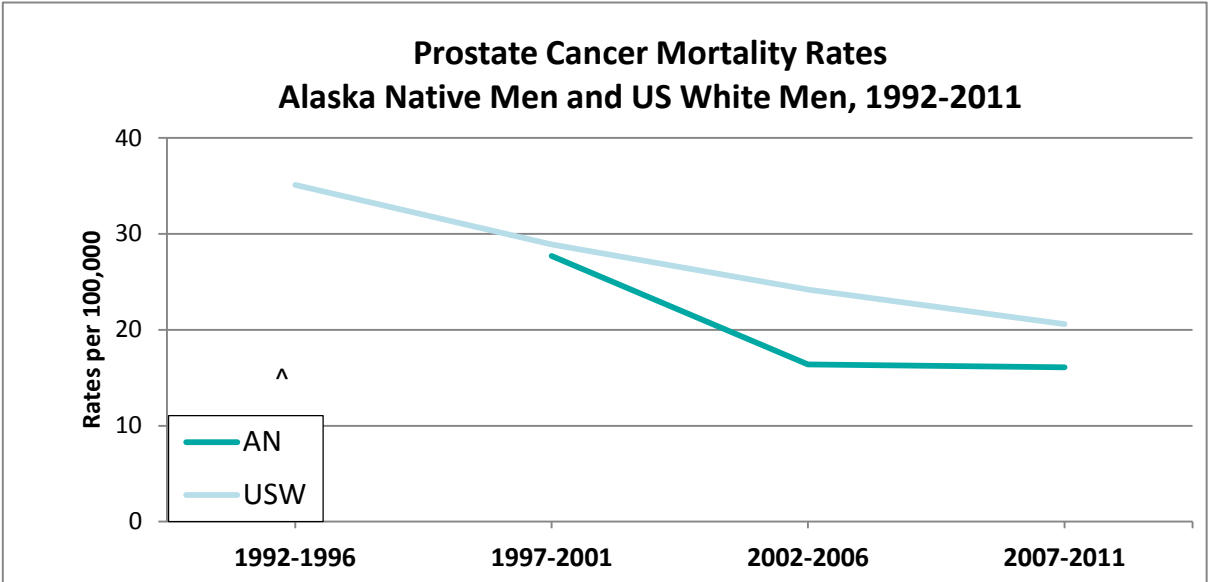
δ Counts for women only







^ Fewer than 10 deaths; mortality rate not calculated



^ Fewer than 10 deaths; mortality rate not calculated

Tribal Health Regions



The tribal health regions within this report are based upon census areas and boroughs. In general, these regions closely align with the Alaska Tribal Health Organizations' service areas. However, the regions used in this report do not include the exceptions noted on the following page.

Tribal Health Regions

Tribal Health Region	Title I and V THOs in Region	Census Area/Borough included in Region	Exceptions to Census Areas/Boroughs	
			(villages in addition)	(villages removed)
Aleutians and Pribilofs	Aleutian Pribilof Islands Association (APIA), Eastern Aleutian Tribes Inc., St. George Traditional Council	Aleutians East Borough, Aleutians West Borough		
Anchorage/Mat-Su	Southcentral Foundation (SCF), Chickaloon Village, Native Village of Eklutna, Knik Tribal Council	Anchorage Municipality, Matanuska-Susitna Borough		
Arctic Slope	Arctic Slope Native Association (ASNA), Ukpeagvik Inupiat Corporation	North Slope Borough		Point Hope (Northwest Arctic), Anaktuvak
Bristol Bay	Bristol Bay Area Health Corporation (BBAHC)	Dillingham, Lake and Peninsula Borough, Bristol Bay Borough	Goodnews Bay, Platinum	
Copper River/Prince William Sound	Chugachmiut Inc. (part)**, Chitina Traditional Council, Copper River Native Association (CRNA), Mt. Sanford Tribal Consortium, Valdez Native Tribe	Valdez/Cordova	Cantwell	
Interior	Tanana Chiefs Conference (TCC), Council of Athabascan Tribal Governments, Fairbanks Native Assoc., Tanana IRA Native Council	Denali Borough, Fairbanks North Star Borough, Southeast Fairbanks, Yukon-Koyukuk	Anaktuvak Pass	Cantwell (Copper River/Prince William Sound); Grayling, Anvik Shageluk, Holy Cross (Yukon-Kuskokwim)
Kenai Peninsula	Chugachmiut (part)**, Kenaitze Indian Tribe IRA, Ninilchik Traditional Council, Seldovia Village Tribe	Kenai Peninsula Borough		
Kodiak Area	Kodiak Area Native Assoc. (KANA), Native Village of Karluk	Kodiak Island Borough		
Northwest Arctic	Maniilaq Association	Northwest Arctic Borough	Point Hope	
Norton Sound	Norton Sound Health Corp. (NSHC), Native Village of Diomed	Nome		
Southeast	Southeast Alaska Regional Health Corp. (SEARHC), Hoonah Indian Association, Ketchikan Indian Corporation, Metlakatla Indian Community, Yakutat Tlingit Tribe	Yakutat Borough, Skagway-Hoonah-Angoon, Haines Borough, Juneau Borough, Sitka Borough, Wrangell-Petersburg, Prince of Wales/Outer Ketchikan, Ketchikan-Gateway Borough, Yakutat Borough		
Yukon-Kuskokwim	Akiachak Native Community, Native Village of Quinhagak, Yukon Kuskokwim Health Corp.	Bethel, Wade Hampton	Grayling, Anvik, Shageluk, Holy Cross	Goodnews Bay, Platinum (Bristol Bay)

*** Chugachmiut is separated into 2 regions: Chenega Bay, Tatitlek, Valdez and Cordova are included in Copper River/Prince William Sound; Port Graham, Nanwalek and Seward are included in Kenai Peninsula.*

SEER Site Recode ICD-O-3 (1/27/2003) Definition

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode	
Oral Cavity and Pharynx				
Lip	C000-C009	excluding 9590-9989, and sometimes 9050-9055, 9140+	20010	
Tongue	C019-C029		20020	
Salivary Gland	C079-C089		20030	
Floor of Mouth	C040-C049		20040	
Gum and Other Mouth	C030-C039, C050-C059, C060-C069		20050	
Nasopharynx	C110-C119		20060	
Tonsil	C090-C099		20070	
Oropharynx	C100-C109		20080	
Hypopharynx	C129, C130-C139		20090	
Other Oral Cavity and Pharynx	C140, C142-C148		20100	
Digestive System				
Esophagus	C150-C159	excluding 9590-9989, and sometimes 9050-9055, 9140+	21010	
Stomach	C160-C169		21020	
Small Intestine	C170-C179		21030	
Colon and Rectum				
Colon excluding Rectum				
Cecum	C180	excluding 9590-9989, and sometimes 9050-9055, 9140+	21041	
Appendix	C181		21042	
Ascending Colon	C182		21043	
Hepatic Flexure	C183		21044	
Transverse Colon	C184		21045	
Splenic Flexure	C185		21046	
Descending Colon	C186		21047	
Sigmoid Colon	C187		21048	
Large Intestine, NOS	C188-C189, C260		21049	
Rectum and Rectosigmoid Junction				
Rectosigmoid Junction	C199		excluding 9590-9989, and sometimes 9050-9055, 9140+	21051
Rectum	C209	21052		
Anus, Anal Canal and Anorectum	C210-C212, C218	21060		
Liver and Intrahepatic Bile Duct				
Liver	C220	excluding 9590-9989, and sometimes 9050-9055, 9140+	21071	
Intrahepatic Bile Duct	C221		21072	
Gallbladder	C239		21080	
Other Biliary	C240-C249		21090	
Pancreas	C250-C259		21100	
Retroperitoneum	C480		21110	
Peritoneum, Omentum and Mesentery	C481-C482		21120	
Other Digestive Organs	C268-C269, C488		21130	
Respiratory System				
Nose, Nasal Cavity and Middle	C300-C301, C310-C319	excluding 9590-9989, and sometimes 9050-9055, 9140+	22010	
Larynx	C320-C329		22020	
Lung and Bronchus	C340-C349		22030	
Pleura	C384		22050	

Trachea, Mediastinum and Other Respiratory Organs	C339, C381-C383, C388, C390, C398, C399	excluding 9590-9989, and sometimes 9050-9055, 9140+	22060
Bones and Joints	C400-C419	excluding 9590-9989, and sometimes 9050-9055, 9140+	23000
Soft Tissue including Heart	C380, C470-C479, C490-C499	excluding 9590-9989, and sometimes 9050-9055, 9140+	24000
Skin excluding Basal and Squamous			
Melanoma of the Skin	C440-C449	8720-8790	25010
Other Non-Epithelial Skin	C440-C449	excluding 8000-8005, 8010-8045, 8050-8084, 8090-8110, 8720-8790, 9590-9989, and sometimes 9050-9055, 9140+	25020
Breast	C500-C509	excluding 9590-9989, and sometimes 9050-9055, 9140+	26000
Female Genital System			
Cervix Uteri	C530-C539	excluding 9590-9989, and sometimes 9050-9055, 9140+	27010
Corpus and Uterus, NOS			
Corpus Uteri	C540-C549	excluding 9590-9989, and sometimes 9050-9055, 9140+	27020
Uterus, NOS	C559		27030
Ovary	C569		27040
Vagina	C529		27050
Vulva	C510-C519		27060
Other Female Genital Organs	C570-C589		27070
Male Genital System			
Prostate	C619	excluding 9590-9989, and sometimes 9050-9055, 9140+	28010
Testis	C620-C629		28020
Penis	C600-C609		28030
Other Male Genital Organs	C630-C639		28040
Urinary System			
Urinary Bladder	C670-C679	excluding 9590-9989, and sometimes 9050-9055, 9140+	29010
Kidney and Renal Pelvis	C649, C659		29020
Ureter	C669		29030
Other Urinary Organs	C680-C689		29040
Eye and Orbit	C690-C699	excluding 9590-9989, and sometimes 9050-9055, 9140+	30000
Brain and Other Nervous System			
Brain	C710-C719	excluding 9530-9539, 9590-9989, and sometimes 9050-9055, 9140+	31010
Cranial Nerves Other Nervous System	C710-C719	9530-9539	31040
	C700-C709, C720-C729	excluding 9590-9989, and sometimes 9050-9055, 9140+	
Endocrine System			
Thyroid	C739	excluding 9590-9989, and sometimes 9050-9055, 9140+	32010
Other Endocrine including Thymus	C379, C740-C749, C750-C759		32020

Lymphoma			
Hodgkin Lymphoma			
Hodgkin - Nodal	C024, C098-C099, C111, C142, C379, C422, C770- C779	9650-9667	33011
Hodgkin - Extranodal	All other sites		33012
Non-Hodgkin Lymphoma			
NHL - Nodal	C024, C098, C099, C111, C142, C379, C422, C770-C779	9590-9596, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9689-9691, 9695, 9698-9702, 9705, 9708-9709, 9714-9719, 9727-9729, 9823, 9827	33041
NHL - Extranodal	All sites except C024, C098-C099, C111, C142, C379, C422, C770-C779	9590-9596, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9689-9691, 9695, 9698-9702, 9705, 9708-9709, 9714-9719, 9727-9729	33042
	All sites except C024, C098-C099, C111, C142, C379, C420-C422, C424, C770- C779	9823, 9827	
Myeloma		9731-9732, 9734	34000
Leukemia			
Lymphocytic Leukemia			
Acute Lymphocytic Leukemia		9826, 9835-9837	35011
Chronic Lymphocytic Leukemia	C420, C421, C424	9823	35012
Other Lymphocytic Leukemia		9820, 9832-9834, 9940	35013
Myeloid and Monocytic Leukemia			
Acute Myeloid Leukemia		9840, 9861, 9866, 9867, 9871-9874, 9895-9897, 9910, 9920	35021
Acute Monocytic Leukemia		9891	35031
Chronic Myeloid Leukemia		9863, 9875, 9876, 9945, 9946	35022
Other Myeloid/Monocytic Leukemia		9860, 9930	35023
Other Leukemia			
Other Acute Leukemia		9801, 9805, 9931	35041
Aleukemic, subleukemic and NOS		9733, 9742, 9800, 9831, 9870, 9948, 9963, 9964	35043
	C420, C421, C424	9827	
Mesothelioma +		9050-9055	36010
Kaposi Sarcoma +		9140	36020
Miscellaneous		9740-9741, 9750-9758, 9760-9769, 9950, 9960-9962, 9970, 9975, 9980, 9982-9987, 9989	37000
	C760-C768, C809	excluding 9590-9989, and sometimes 9050-9055, 9140	
	C420-C424		
	C770-C779		
Invalid	Site or histology code not within valid range or site code not found in this table.		99999

GLOSSARY OF CANCER TERMS

AGE-ADJUSTED RATES: Rates have been mathematically weighted to allow comparisons of populations with different age distributions. Adjustment is usually made to a standard population. In this report the Census 2000 U.S. standard population is used.

AGE-SPECIFIC RATES: Rates are calculated using the number of cases occurring in a specified age group, divided by the population for that age group.

AVERAGE ANNUAL RATE: Cases for a given number of years are added together and divided by the numbers of years to give an average annual number. This number of cases is then divided by the population to determine the rate.

BENIGN: A growth which generally is not life threatening.

BIOPSY: The removal of a sample of tissue to be examined under a microscope to look for cancer cells.

CANCER: A harmful growth of cells that if allowed to keep growing will interfere with body function and eventually cause death. Cancer is also known as malignant neoplasm or malignant tumor.

CARCINOGEN: A cancer causing substance.

CORPUS UTERI: Body of the uterus, in contrast to the cervix.

DYSPLASIA: Abnormal development of cells which may precede the development of cancer.

GENETIC: Inherited; having to do with cell information passed from parents to children through DNA.

HYPERPLASIA: Abnormal growth of cells resulting in the increase in size of a tissue or organ. Hyperplasia may become cancerous.

INCIDENCE: New cases of a specific disease occurring in a specified time period, usually expressed as new cases per 100,000 persons per year.

IN SITU: The growth, tumor, cancer has not extended beyond the level of tissue in which it began.

INVASIVE: The growth extends beyond where it started, into other tissues and organs in the body.

LEUKEMIAS: Cancers of the organs that make the blood, bone marrow and lymph.

LOCALIZED: Cancer found only in the organ where the cancer started.

MALIGNANT: A tumor that is cancerous and has the ability to spread to other parts of the body.

METASTASIS: The spread of cancer from one part of the body to another part of the body.

MORBIDITY: Illness or disease.

MORTALITY: Numbers of deaths occurring in a certain time period usually expressed as number of deaths per 100,000 persons. Mortality data are based on death certificates.

NEOPLASM: Any growth, benign or malignant. A tumor.

ONCOLOGIST: A doctor who specializes in cancer treatment.

POLYP: A small, noncancerous growth in the mucous membrane, most commonly found in the colon.

PRIMARY CANCER: The organ of the body in which the cancer is thought to have started.

RATE: The number of occurrences of a disease in a population in a given time period.

RATE RATIO: Comparison of one rate with another to show how many times larger or smaller one is compared to the other. Generally the rate in the population of interest is compared with that of a standard population (for which data are available and published).

RISK: An individual's chance of developing cancer.

RISK FACTORS: Factors which increase an individual's chance of getting cancer. These may genetic, environmental, cultural or behavioral.

SCREENING: Tests or examinations done to detect cancer very early, before the person is aware of the cancer or before the person has symptoms.

SEER (STATISTICS, EPIDEMIOLOGY AND END RESULTS): A program sponsored by the National Cancer Institute designed to collect very detailed information on cancer occurrence, treatment and outcome in select states and regions in the U.S.

SITE: In the cancer field, site refers to a body organ.

SITE-SPECIFIC RATE: Rate or risk of developing cancer in a specific site (body organ).

STAGE OF DISEASE: The disease (cancer) is categorized by how far the disease has spread. Generally, the terms local, regional, or distant are used. More detailed staging systems are also available specific to the cancer site.

SURVIVAL RATE: The proportion of patients alive following diagnosis of cancer at a specific time period after diagnosis. Often expressed as the percent of patients alive after five years or the five year survival rate.

TUMOR: A general term used for a growth, malignant or benign.

TUMOR REGISTRAR: The person who collects and reports tumor registry information; those who have had special training and an examination to become a Certified Tumor Registrars (CTR).

TUMOR REGISTRY: A standard system of collecting information on patients with cancer. Benign tumors are usually not entered into the registry.