

Alaska Regional Hospital

Cancer Registry

2009

Annual Report

2008 DATA

ARH Cancer Registry Statistics for 2008 Data

N=354

Top 7 Sites by Year and Gender

	2005	
Site	Male	Female
Prostate	74	0
Breast	0	53
Lung	28	15
Bladder	8	2
Colorectal	7	12
Thyroid	7	12
Lymphoma	3	7

	2006	
Site	Male	Female
Prostate	99	0
Breast	0	36
Lung	30	18
Bladder	21	1
Thyroid	7	14
Kidney	13	5
Colorectal	12	12

	2007	
Site	Male	Female
Prostate	90	0
Breast	0	35
Lung	22	19
Colorectal	15	12
Thyroid	6	13
Kidney	12	5
Lymphoma	10	2

BODY SYSTEM BY FREQUENCY BY GENDER
2008 Analytical Data

Alaska Regional Cancer Registry Data

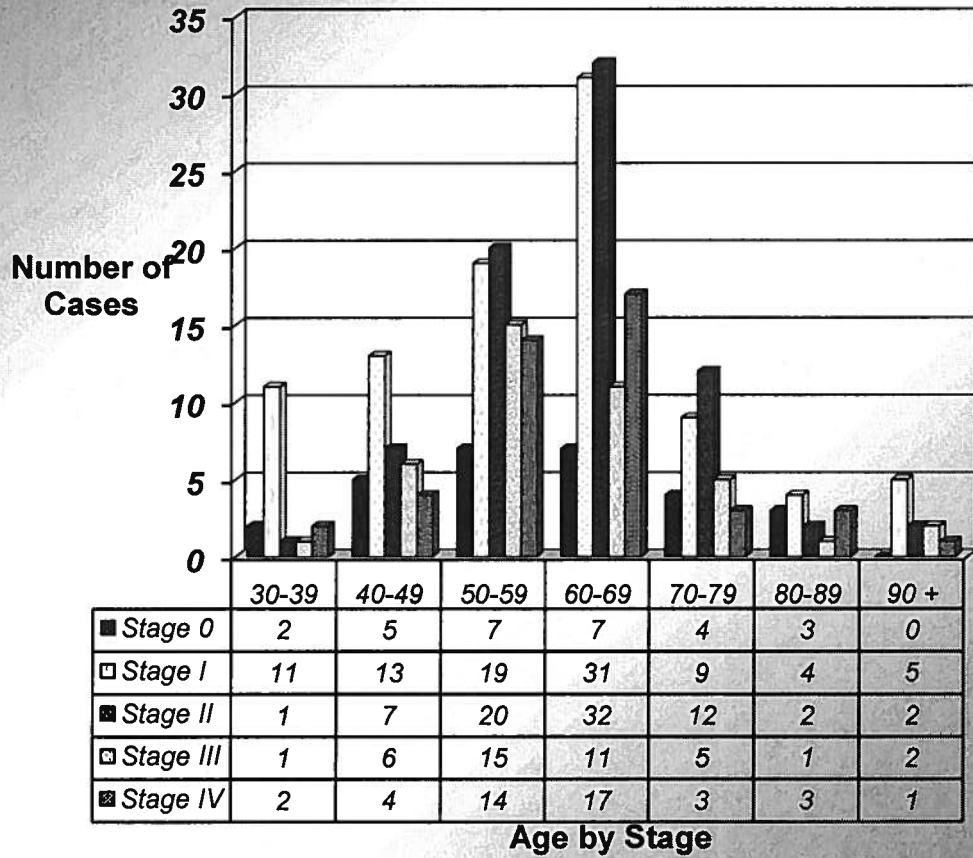
N=354

Total	Primary Site	Male	Female
61	DIGESTIVE SYSTEM	31	30
62	MALE GENITAL SYSTEM	62	0
59	RESPIRATORY SYSTEM	26	33
39	URINARY SYSTEM	26	13
37	BREAST	0	37
28	ENDOCRINE SYSTEM	10	18
24	FEMALE GENITAL SYSTEM	0	24
13	LYMPHOMAS	7	6
11	BRAIN & OTHER NERVOUS SYSTEM	3	8
5	ORAL CAVITY & PHARYNX	5	0
1	SKIN EXCLUDING BASAL & SC	0	1
5	LEUKEMIAS	4	1
5	MISCELLANEOUS	4	1
1	BONES & JOINTS	1	0
1	MULTIPLE MYELOMA	1	0
1	MESOTHELIOMA	0	1
	TOTAL	180	173

Top 10 Sites 2008	
Lung	58
Prostate	58
Breast	37
Thyroid	25
Colo/rectal	25
U Bladder	20
Kidney	18
Brain	11
Pancreas	9
NH Lymphoma	9

Primary Site	Total	Male	Female	STAGE				
				0	I	II	III	IV
FEMALE GENITAL SYSTEM	24	0	24	2	10	3	5	2
Cervix Uteri	8	0	8		3	2	1	1
Corpus & Uterus, NOS	8	0	8		5		3	
Ovary	3	0	3		1		1	1
Vulva	4	0	4	2	1	1		
Other Female Genital Organs	1	0	1					
MALE GENITAL SYSTEM	62	62	0	0	3	52	6	1
Prostate	58	58	0			52	6	
Testis	3	3	0		3			
Penis	1	1	0					1
URINARY SYSTEM	39	26	13	14	11	3	5	2
Urinary Bladder	20	15	5	14	1	1	2	1
Kidney & Renal Pelvis	18	10	8		10	2	3	1
Ureter	1	0	1					1
BRAIN & OTHER NERVOUS SYSTEM	11	3	8	0	0	0	0	0
Brain	8	3	5					
Other Nervous System	3	0	3					
ENDOCRINE SYSTEM	28	10	18	0	18	2	1	3
Thyroid	25	7	18		18	2	1	2
Other Endocrine (including Thymus)	3	3	0					
LYMPHOMAS	13	7	6	0	2	2	0	3
Hodgkin Lymphoma	4	2	2		1	2		
Non-Hodgkin Lymphoma	9	5	4		1			3
NHL - Nodal	7	4	3					3
NHL - Extranodal	2	1	1		1			
MULTIPLE MYELOMA	1	1	0					
Multiple Myeloma	1	1	0					
LEUKEMIAS	5	4	1					
Lymphocytic Leukemia	3	2	1					
Myeloid & Monocytic Leukemia	1	1	0					
Other Leukemia	1	1	0					
MESOTHELIOMA	1	0	1					
Mesothelioma	1	0	1					
MISCELLANEOUS	4	3	1					
Miscellaneous Sites	4	3	1					

Age at Diagnosis by Best AJCC Stage
2008 Cancer Registry Data Alaska Regional Hospital
(N=364, male=183, female=181)



Colon/Rectum Cancer Study 2008 Data

RISKS

According to the 2009 Cancer Facts and Figures *, colorectal cancers are the third most common cancer in the US with a 5-year relative survival rate of 64%. The SEER multiple primary study found that the most common second cancers among colon cancer survivors are new cancers of the colon and rectum. The O/E ratio for subsequent colon primaries is 1.57 and 1.36 for rectal. Colon cancer initially diagnosed <40 yrs of age has the highest O/E ratio for subsequent primaries and declines with age leveling off at age 70. "Among patients diagnosed with colon cancer before age 40, the O/E is 12.46 for subsequent colon cancer, and 12.24 for subsequent rectal cancer."

This increased risk is due, in part, to two genetic susceptibility syndromes: FAP and HNPCC. Both are inherited diseases and are responsible for <1% to 3-6% of the total colon cancers respectively. Additional risk factors include those common to all cancer patients such as chemotherapy, radiation, diet, obesity, physical inactivity, and hormonal factors.

US INCIDENCE/MORTALITY BY RACE AND ETHNICITY 2001-2005

	<u>Incidence*</u>				
	<u>White</u>	<u>Af. Am.</u>	<u>Asian/PI</u>	<u>Am In</u>	<u>Latino/His</u>
Colon/Rectum					
Male	58.9	71.2	48.0	46.0	47.3
Female	43.2	54.5	35.4	41.2	32.8
	<u>Mortality*</u>				
Colon/Rectum					
Male	22.1	31.8	14.4	20.5	16.5
Female	15.3	22.4	10.2	14.2	10.8

*per 100,000, age adjusted to the 2000 US standard population. American Cancer Society Cancer Facts and Figures.

Colon/Rectum Cancer Study 2008 Data

According to the American Cancer Society, “No single factor (such as education or income) fully captures all of the important characteristics that may influence the association between socioeconomic status and health, but for most cancers, the risk is inversely related to socioeconomic status, regardless of which measure is used.”

Cancer Death Rates by Educational Attainment, Race, and Sex, US 2001*

	Men		Women	
	African Am	Non-Hisp White	African Am	Non-Hisp White
Colorectal				
≤ 12 yrs education	20.6	14.2	14.1	9.4
> 12 yrs education	11.3	7.9	10.8	5.4
RR (95%CL)	1.81(1.63-2.02)	1.81(1.73-1.89)	1.31(1.18-1.45)	1.72(1.63-1.83)

RR=Relative Risk, CI=confidence interval

*rates for individuals 25-64 yrs at death, per 100,000 and age-adjusted to the 2000 US standard population. ACS Cancer Facts and Figures 2009.

Colon/Rectum Cancer Study 2008 Data

As has been stated, colorectal cancer is the third most common cancer in both men and women nationally even though there has been a decline in incidence over the last couple of decades. Per the American Cancer Society there will be an estimated 106,100 new cases of colon and 40,870 new cases of rectal cancer nationally and 250 new colorectal cases in Alaska in 2009. An estimated 49,920 individuals will die from colorectal cancer in 2009 nationally and 70 in the state of Alaska.

Five-year Relative Survival Rates For colon Cancer 1996-2004*

Nationally by Stage

<u>All Stages</u>	<u>Local</u>	<u>Regional</u>	<u>Distant</u>
64.4	89.7	68.4	10.8

Local Alaska Regional Hospital (N=256)

<u>All Stages</u>	<u>Local</u>	<u>Regional</u>	<u>Distant</u>
72.4	89.5	84.2	16.9

*rates are adjusted for normal life expectancy and are based on cases diagnosed in the SEER 17 areas from 1996-2004 followed through 2005. ACOS Cancer Facts and Figures 2009.