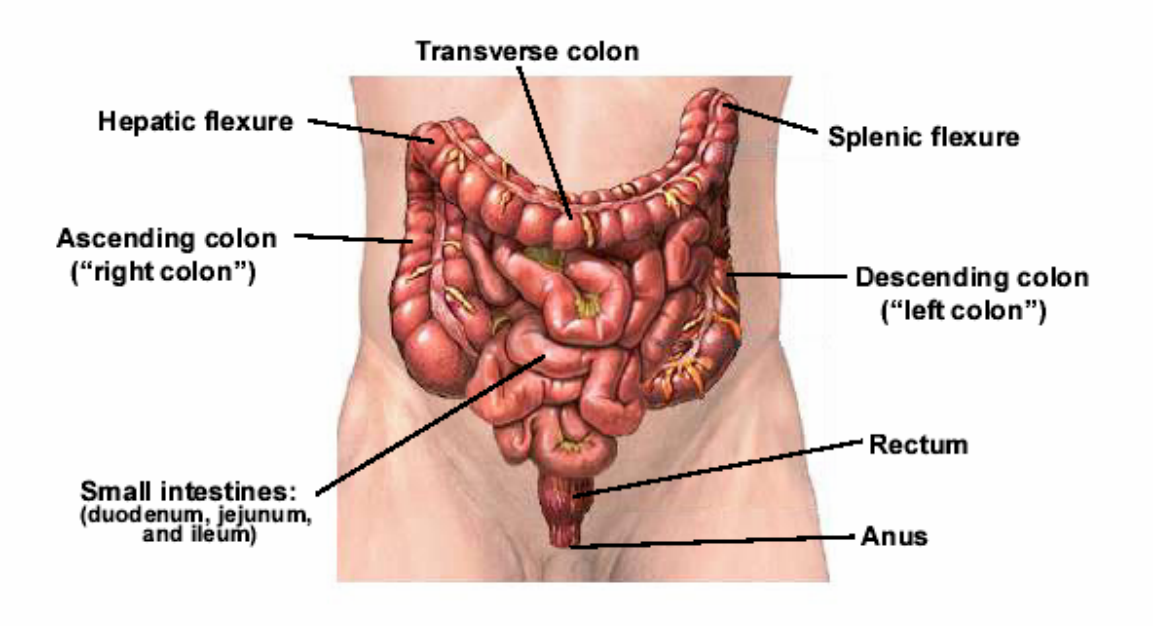
COLORECTAL CANCER

COLORECTAL CANCER

GENERAL PROFILE[4]

Figure 75. Anatomy of the Digestive System[5]



General Anatomy: The colon and rectum are parts of the body's digestive system, which removes nutrients from food and stores waste until it passes out of the body. Together, the colon and rectum form a long, muscular tube called the large intestine (also called the large bowel). The colon is the first 6 feet of the large intestine, and the rectum is the last 8 to 10 inches.

Risk Factors: Age, diet, polyps (benign growths on the inner wall of the colon and rectum), personal medical history, family medical history, and ulcerative colitis (the lining of the colon becomes inflamed).

Signs and Symptoms: A change in bowel habits, diarrhea, constipation, or feeling that the bowel does not empty completely, blood (either bright red or very dark) in the stool, stools that are narrower than usual, general abdominal discomfort (frequent gas pains, bloating, fullness, and/or cramps), weight loss with no known reason, constant tiredness, and vomiting.

Diagnosing the Cancer: Fecal occult blood test, sigmoidoscopy, colonscopy, double contrast barium enema (DCBE), polypectomy, biopsy, and a digital rectal exam.

Treatment: Treatment options include: surgery (Colostomy), chemotherapy, radiation therapy, biological therapy, and clinical trials.

HIGHLIGHTS

- The ratio of the age-adjusted incidence rate, 52.7, to the age-adjusted mortality rate, 21.7 (per 100,000 – 2000 US Standard population), for Colorectal Cancer was 2.43 during the 1999 to 2003 period, which means that for every 243 Colorectal Cancer cases during this period, there were 100 deaths due to Colorectal Cancer in Nevada.

- Nevadan females had a higher ratio (2.59) than males (2.30) when the age-adjusted incidence and age-adjusted mortality rates for Colorectal Cancer were compared. For every 259 female Colorectal Cancer cases, during the 1999-2003 period, there were 100 female deaths and for every 230 male Colorectal Cancer cases there were 100 male deaths in Nevada from 1999 to 2003.

- The median age at diagnosis of Colorectal Cancer was 70 years of age for Nevada residents from 1999 to 2003; the median age at time of death was 73 years.

CANCER SCREENING

- Of the 1,600 individuals in Nevada who were surveyed in 1999, 2001 and 2002, 45.9% responded No to ever having a blood stool test and/or a sigmoidoscopy or colonoscopy to try and detect early signs of Colorectal Cancer.

- Males had a slightly lower percentage of respondents who said yes to ever having a blood stool test and/or a sigmoidoscopy or colonoscopy than females (54.8%) with a percentage of 54.1% when the questions were asked in 1999, 2001 and 2002.

- Each age group showed statistical significance over the next age group for those respondents who said that they had never had a blood stool test and/or a sigmoidoscopy or colonoscopy, with the 45 to 54 age group having the highest percentage at 61.7% (55.2%-68.2%); being followed by the 55 to 64 and 65 and older age groups with percentages of 47.1% (42.9%-51.2%) and 34.5% (30.8%-38.2%), respectively, when these questions were included in the Behavorial Risk Factor Surveillance Survey.

INCIDENCE

- Nevada's incidence rate for Colorectal Cancer 52.7 was slightly lower than the national rate of 54.3 (per 100,000 – 2000 US Standard population) from 1999 to 2003.

- There were 5038 cases of Colorectal Cancer reported in Nevada from 1999 to 2003. Regional comparisons of Colorectal Cancer incidence showed that Washoe County had the highest age-adjusted incidence rate, 56.7, followed by Clark County, 53.5, and the All Other Counties region, 45.3 (per 100,000 – 2000 US Standard population), during the 1999 to 2003 period.

- Males had a statistically significant higher age-adjusted cancer incidence rate for Colorectal Cancer 61.1 (58.7-63.6) than the female rate of 45.4 (43.5-47.3) during the

1999 to 2003 period.

- The Colorectal Cancer age-adjusted incidence rates for Blacks, 59.8 (52.6-67.9), and Whites, 55.0 (53.3-63.6), showed statistical significance over all other racial/ethnic groups from 1999 to 2003. They were followed by Asians, Hispanics and Native Americans with rates of 41.2 (34.1-50.0), 28.5 (23.8-34.0) and 5.9 (2.3-13.8), respectively.

INPATIENT HOSPITAL DISCHARGES

- There were 4,364 hospital inpatient discharges for a primary diagnosis of Colorectal Cancer to Nevada residents from 1999 to 2003. Washoe County had the highest cancer age-adjusted inpatient discharge rate, 47.7 (44.2-51.4), followed by Clark County, 46.7 (45.0-48.5), when regional comparisons were made. Both Washoe and Clark Counties had statistically significant higher rates than the All Other Counties region that had the lowest age-adjusted discharge rate, 38.2 (35.2-41.5), during this same period.

- Total billed charges for Colorectal Cancer inpatient hospital discharges in Nevada totaled 192.9 million dollars from 1999 to 2003. The overall average billed charge per day for a hospital inpatient discharge due to Colorectal Cancer was approximately $5,170 in Nevada from 1999 to 2003.

- Washoe County had the highest median total billed amount ($33,635) and average length of stay (8.9 days) during this time, once regional comparisons were made.

MORTALITY

- There were 1,960 resident deaths due to Colorectal Cancer in Nevada from 1999 to 2003. Males had a higher statistically significant age-adjusted mortality rate, 26.6 (25.0-28.4), than females who had a rate of 17.5 (16.4-18.8), per 100,000 – 2000 US Standard population, during this period.

- Blacks, as a racial/ethnic group, had the highest age-adjusted mortality rate for Colorectal Cancer of any racial/ethnic group, 27.4, and were followed by Whites, Asians, Hispanics, and Native Americans with rates of 22.5, 15.3, 12.5, and 11.2 (per 100,000 – 2000 US Standard population) respectively, from 1999 to 2003.

SURVIVAL RATE

- The one-year survival rate for Colorectal Cancer in Nevada was 77.4% during the 1999 to 2003 period, while the five-year survival rate was 55.1% during this same time. The median survival rate in Nevada was greater than five years.

- Females in Nevada had a slightly higher one-year survival rate (78.6%) than males (76.3%) for Colorectal Cancer during the 1999 to 2003 period. This trend was similar for the five-year survival rate where females had a slightly higher survival rate (58.1%) for Colorectal Cancer than males (52.7%) during this time.

- The five-year survival rate for those diagnosed at the localized stage for Colorectal Cancer was 84.6% for Nevada from 1999 to 2003, while those recorded at the regional, distant and unstaged stages had rates of 64.8%, 11.9% and 25.6%, respectively.

SCREENING (BRFSS)

Table 107. Colorectal Cancer Screening by County/Region of Residence, Gender, Education, Age Group, and Income, Nevada Residents, 1999, 2001 and 2002

Responses	Answers						
	Yes			No			Total
	Number	Percent*	95% C.I.	Number	Percent*	95% C.I.	
Total							
Responses	877	54.1%	(50.3-57.8)	723	45.9%	(42.2-49.7)	1,600
County/Region of Residence							
Clark County	553	54.7%	(51.0-58.4)	467	45.3%	(41.6-49.0)	1,020
Washoe County	564	55.9%	(52.3-59.4)	401	44.1%	(40.6-47.7)	965
All Other Counties	663	52.1%	(48.8-55.4)	582	47.9%	(44.6-51.2)	1,245
Gender							
Male	877	54.1%	(50.3-57.8)	723	45.9%	(42.2-49.7)	1,600
Female	903	54.8%	(51.2-58.5)	727	45.2%	(41.5-48.8)	1,630
Education							
Less than High School	155	48.7%	(39.9-57.5)	150	51.3%	(42.5-60.1)	305
High School	480	48.8%	(44.3-53.2)	502	51.2%	(46.8-55.7)	982
Some Post High School	571	55.6%	(50.9-60.2)	433	44.4%	(39.8-49.1)	1,004
College Graduate	571	61.3%	(56.3-66.3)	361	38.7%	(33.7-43.7)	932
Age Group							
18-24 years old	---	---	---	---	---	---	---
25-34 years old	---	---	---	---	---	---	---
35-44 years old	---	---	---	---	---	---	---
45-54 years old	300	38.3%	(31.8-44.8)	481	61.7%	(55.2-68.2)	781
55-64 years old	573	52.9%	(48.8-57.1)	506	47.1%	(42.9-51.2)	1,079
65+ years old	907	65.5%	(61.8-69.2)	463	34.5%	(30.8-38.2)	1,370
Income							
Less than $15,000	137	47.6%	(39.0-56.2)	154	52.4%	(43.8-61.0)	291
$15,000-$24,999	286	54.0%	(47.8-60.3)	231	46.0%	(39.7-52.2)	517
$25,000-$34,999	212	50.4%	(43.0-57.8)	201	49.6%	(42.2-57.0)	413
$35,000-$49,999	276	54.8%	(48.7-60.9)	242	45.2%	(39.1-51.3)	518
$50,000 or More	566	54.7%	(50.3-59.0)	421	45.3%	(41.0-49.7)	987

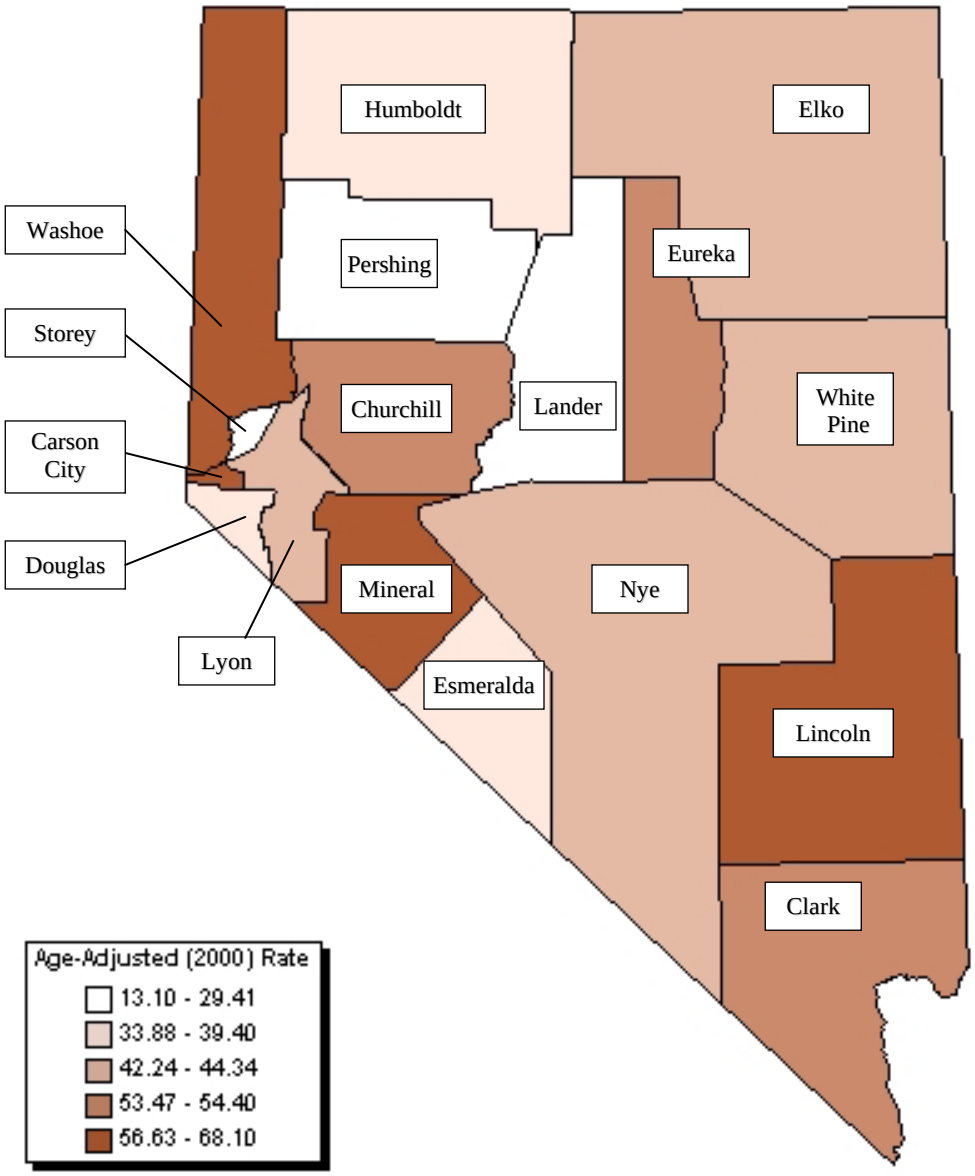
*Denominator is persons age 50-65+ and excludes missing, don't know, and refused responses.

Note: This table includes those respondents who answered "Yes" or "No" to either of the following questions:

1) A blood stool test is a test that may use a special kit at home to determine whether the stool contains blood. Have you ever had this test using a home kit?
2) A sigmoidoscopy or colonoscopy is when a tube is inserted in the rectum to view the bowel for signs of cancer and other health problems. Have you ever had this exam?

INCIDENCE

Figure 76. Colorectal Cancer Age-Adjusted (2000) Incidence Rates, Nevada Residents, 1999-2003



Note: Rates are per 100,000 population and age-adjusted to 2000 US Standard population. Caution should be used when interpreting rates based upon small numbers. See Technical Notes for more information.

Figure 77. Colorectal Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1999-2003

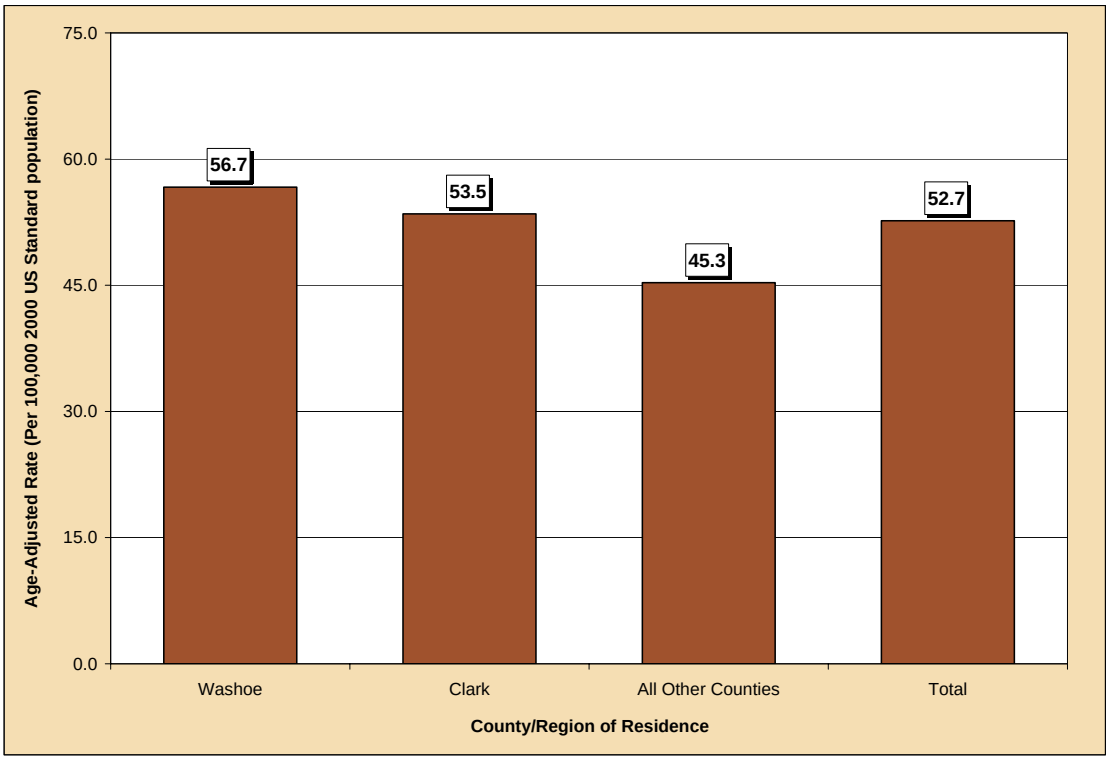


Figure 78. Colorectal Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1999-2003

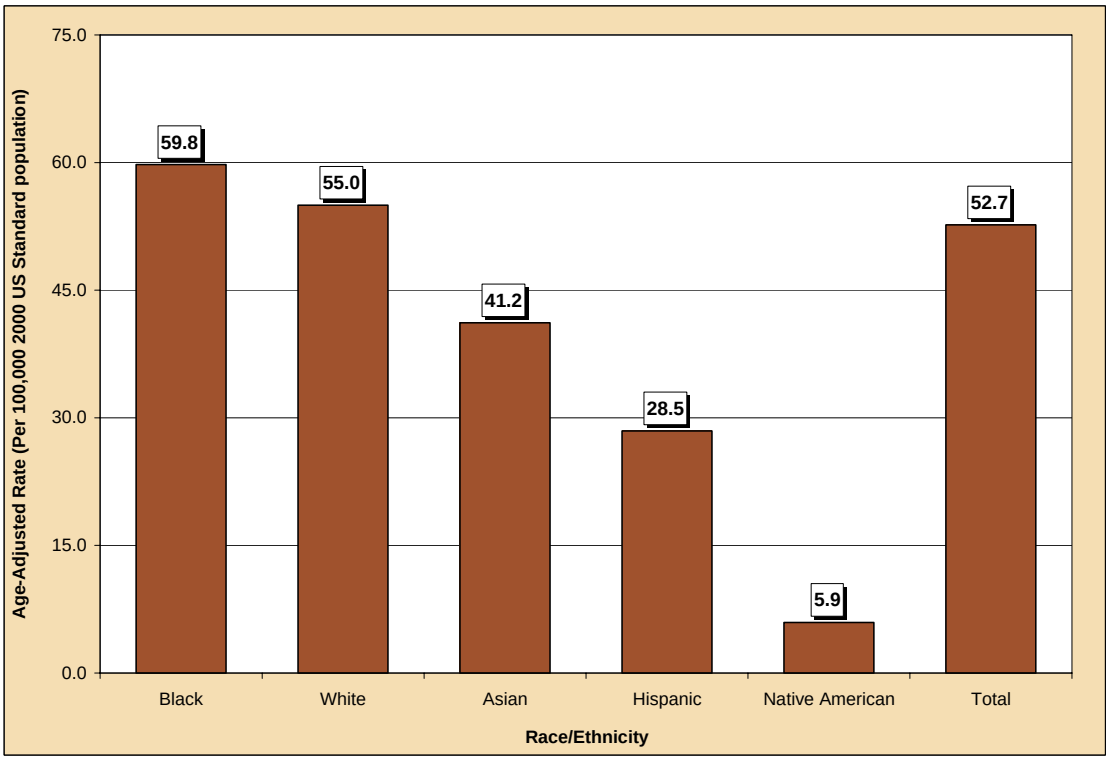


Table 108. Colorectal Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1999-2003) and SEER-13 (1998-2002)

Category	County/Region of Residence					
	Nevada Total	Clark	Washoe	All Other Counties	Unknown	SEER 13 (1998-2002)
Total						
Cases	5,038	3,472	864	702	0	94,907
Rate*	52.7	52.7	52.7	52.7	---	54.3
95% C.I.	(51.2-54.2)	(51.2-54.2)	(51.2-54.2)	(51.2-54.2)	---	(53.9-54.6)
Gender						
Male	2,760	2,760	2,760	2,760	0	47,054
Rate*	61.1	61.1	61.1	61.1	---	64.5
95% C.I.	(58.7-63.6)	(58.7-63.6)	(58.7-63.6)	(58.7-63.6)	---	(63.9-65.1)
Female	2,278	2,278	2,278	2,278	0	46,862
Rate*	45.4	45.4	45.4	45.4	---	47.7
95% C.I.	(43.5-47.3)	(43.5-47.3)	(43.5-47.3)	(43.5-47.3)	---	(47.2-48.1)
Other/Unknown	0	0	0	0	0	0
Race/Ethnicity						
White	4,333	2,862	806	665	0	76,262
Rate*	55.0	55.0	55.0	55.0	---	54.8
95% C.I.	(53.3-56.7)	(53.3-56.7)	(53.3-56.7)	(53.3-56.7)	---	(54.4-55.1)
Black	286	268	13	5	0	9,007
Rate*	59.8	59.8	59.8	---	---	64.6
95% C.I.	(52.6-67.9)	(52.6-67.9)	(52.6-67.9)	---	---	(63.2-65.9)
Native American	7	0	1	6	0	546
Rate*	---	---	---	---	---	35.9
95% C.I.	---	---	---	---	---	(32.7-32.7)
Asian	174	142	26	6	0	7,948
Rate*	41.2	41.2	41.2	---	---	46.8
95% C.I.	(34.1-50.0)	(34.1-50.0)	(34.1-50.0)	---	---	(45.8-47.9)
Hispanic	195	170	13	12	0	6,450
Rate*	28.5	28.5	28.5	28.5	---	40.3
95% C.I.	(23.8-34.0)	(23.8-34.0)	(23.8-34.0)	(23.8-34.0)	---	(39.3-41.4)
Other/Unknown	43	30	5	8	0	453

* Rates are per 100,000 population and age-adjusted to the 2000 US Standard population.
Note: The "---" is used for rates calculated on numbers less than ten and SEER numbers less than five. Caution should be used when comparing rates for racial/ethnic groups to the national (SEER) rates. See Technical Notes for more information.

Table 109. Colorectal Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1999-2003) and SEER-13 (1998-2002)

Category	County/Region of Residence					
	Nevada Total	Clark	Washoe	All Other Counties	Unknown	SEER 13 (1998-2002)
Total						
Cases	5,038	3,472	864	702	0	94,907
Rate*	52.7	53.5	56.7	45.3	---	54.3
95% C.I.	(51.2-54.2)	(51.7-55.4)	(52.9-60.7)	(42.0-48.9)	---	(53.9-54.6)
Age Group						
<1	0	0	0	0	0	0
Rate*	---	---	---	---	---	0.0
95% C.I.	---	---	---	---	---	(0.0-0.1)
1-4	0	0	0	0	0	1
Rate*	---	---	---	---	---	0.0
95% C.I.	---	---	---	---	---	(0.0-0.1)
5-14	1	0	1	0	0	9
Rate*	---	---	---	---	---	0.0
95% C.I.	---	---	---	---	---	(0.0-0.1)
15-24	3	2	1	0	0	128
Rate*	---	---	---	---	---	0.5
95% C.I.	---	---	---	---	---	(0.4-0.6)
25-34	37	27	10	0	0	830
Rate*	2.4	2.4	3.9	---	---	2.8
95% C.I.	(1.61-3.13)	(1.46-3.24)	(1.49-6.34)	---	---	(2.6-3.0)
35-44	163	122	19	22	0	3,606
Rate*	9.9	10.6	6.7	9.9	---	11.5
95% C.I.	(8.34-11.36)	(8.73-12.50)	(3.68-9.70)	(5.78-14.07)	---	(11.1-11.9)
45-54	539	375	88	76	0	10,119
Rate*	37.9	39.4	34.8	35.2	---	39.2
95% C.I.	(34.73-41.13)	(35.40-43.37)	(27.51-42.04)	(27.31-43.15)	---	(38.4-39.9)
55-64	1,034	734	173	127	0	16,159
Rate*	100.5	104.1	105.3	80.0	---	102.6
95% C.I.	(94.41-106.66)	(96.53-111.59)	(89.56-120.93)	(66.08-93.90)	---	(101.0-104.2)
65-74	1,541	1,052	243	246	0	24,795
Rate*	224.0	223.3	232.7	219.3	---	223.9
95% C.I.	(212.85-235.22)	(209.76-236.74)	(203.42-261.93)	(191.90-246.72)	---	(221.1-226.7)
75-84	1,338	916	246	176	0	27,407
Rate*	341.1	345.2	400.1	269.3	---	358.3
95% C.I.	(322.84-359.40)	(322.80-367.50)	(350.08-450.07)	(229.50-309.07)	---	(354.1-362.6)
85+	382	244	83	55	0	11,853
Rate*	434.2	438.7	499.6	349.3	---	442.5
95% C.I.	(390.64-477.72)	(383.64-493.73)	(392.10-607.06)	(256.95-441.56)	---	(434.5-450.5)
Unknown	0	0	0	0	0	0

* Rates are per 100,000 age-specific population.
Note: The "---" is used for rates calculated on numbers less than ten and SEER numbers less than five. See Technical Notes for more information.

Table 110. Colorectal Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1999-2003

County of Residence at Diagnosis	1999-2003 Incidence				
	Cases	Rate*		Age-Adjusted Rate**	
		Rate	95% C.I.	Rate	95% C.I.
Carson City	170	67.2	(57.08-77.28)	56.6	(48.4-66.0)
Churchill	63	51.3	(38.61-63.93)	53.5	(41.0-69.0)
Clark	3,472	47.4	(45.80-48.96)	53.5	(51.7-55.4)
Douglas	104	48.5	(39.20-57.85)	39.4	(32.0-48.4)
Elko	55	24.2	(17.78-30.55)	42.8	(31.1-58.0)
Esmeralda	2	---	---	---	---
Eureka	3	---	---	---	---
Humboldt	22	27.1	(15.80-38.49)	33.9	(20.7-53.4)
Lander	7	---	---	---	---
Lincoln	15	81.9	(40.48-123.42)	64.7	(36.0-109.8)
Lyon	92	49.6	(39.48-59.77)	42.4	(34.1-52.5)
Mineral	23	94.4	(55.82-132.99)	68.1	(42.6-106.5)
Nye	114	67.3	(54.91-79.61)	44.3	(36.2-54.4)
Pershing	7	---	---	---	---
Storey	3	---	---	---	---
Washoe	864	49.4	(46.15-52.75)	56.7	(52.9-60.7)
White Pine	22	56.5	(32.87-80.05)	42.2	(26.3-66.1)
Unknown	0	---	---	---	---
Total	5,038	48.0	(46.67-49.32)	52.7	(51.2-54.2)

Note: The "---" is used for rates calculated on numbers less than ten. *Rates are per 100,000 population. **Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 111. Colorectal Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1999-2003

Race/Ethnicity		Gender			
		Male	Female	Other/ Unknown	Total
White	Incidence	2,391	1,942	0	4,333
	Rate*	63.6	47.4	---	55.0
	95% C.I.	(60.9-66.3)	(45.3-49.5)	---	(53.3-56.7)
Black	Incidence	160	126	0	286
	Rate*	74.0	49.0	---	59.8
	95% C.I.	(61.3-89.9)	(40.5-59.1)	---	(52.6-67.9)
Native American	Incidence	2	5	0	7
	Rate*	---	---	---	---
	95% C.I.	---	---	---	---
Asian	Incidence	78	96	0	174
	Rate*	47.0	37.2	---	41.2
	95% C.I.	(35.0-64.1)	(29.0-48.6)	---	(34.1-50.0)
Hispanic	Incidence	103	92	0	195
	Rate*	31.9	25.8	---	28.5
	95% C.I.	(24.3-42.5)	(20.1-32.9)	---	(23.8-34.0)
Other/Unknown		26	17	0	43
Total	Incidence	2,760	2,278	0	5,038
	Rate*	61.1	45.4	---	52.7
	95% C.I.	(58.7-63.6)	(43.5-47.3)	---	(51.2-54.2)

Note: The "---" is used for rates calculated on numbers less than ten. *Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 112. Colorectal Cancer Cases by Age Group and Gender, Nevada Residents, 1999-2003

Age Group	Gender			
	Male	Female	Unknown	Total
<1	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
1-4	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
5-14	0	1	0	1
Rate*	---	---	---	---
95% C.I.	---	---	---	---
15-24	2	1	0	3
Rate*	---	---	---	---
95% C.I.	---	---	---	---
25-34	17	20	0	37
Rate*	2.09	2.67	---	2.37
95% C.I.	(1.10-3.09)	(1.50-3.85)	---	(1.61-3.13)
35-44	85	78	0	163
Rate*	9.90	9.79	---	9.85
95% C.I.	(7.80-12.01)	(7.62-11.97)	---	(8.34-11.36)
45-54	275	264	0	539
Rate*	38.19	37.67	---	37.93
95% C.I.	(33.67-42.70)	(33.12-42.21)	---	(34.73-41.13)
55-64	628	406	0	1,034
Rate*	123.62	78.01	---	100.54
95% C.I.	(113.95-133.28)	(70.42-85.59)	---	(94.41-106.66)
65-74	899	642	0	1,541
Rate*	264.91	184.23	---	224.04
95% C.I.	(247.60-282.23)	(169.98-198.48)	---	(212.85-235.22)
75-84	705	633	0	1,338
Rate*	397.72	294.45	---	341.12
95% C.I.	(368.36-427.08)	(271.51-317.39)	---	(322.84-359.40)
85+	149	233	0	382
Rate*	512.30	395.60	---	434.18
95% C.I.	(430.04-594.57)	(344.80-446.40)	---	(390.64-477.72)
Unknown	0	0	0	0
Total	2,760	2,278	0	5,038
Rate*	51.74	44.12	---	47.99
95% C.I.	(49.81-53.67)	(42.31-45.93)	---	(46.67-49.32)

Note: The "---" is used for rates calculated on numbers less than ten.
* Rates are per 100,000 age-specific population.

Table 113. Colorectal Cancer Cases by Age Group and Stage, Nevada Residents, 1999-2003

Age Group		Stage					
		In situ	Localized	Regional	Distant	Unstaged	Total
<1	Number	---	0	0	0	0	0
	Percent	---	---	---	---	---	---
1-4	Number	---	0	0	0	0	0
	Percent	---	---	---	---	---	---
5-14	Number	---	0	1	0	0	1
	Percent	---	---	100.0%	---	---	100.0%
15-24	Number	---	0	2	1	0	3
	Percent	---	---	66.7%	33.3%	---	100.0%
25-34	Number	---	13	17	1	6	37
	Percent	---	35.1%	45.9%	2.7%	16.2%	100.0%
35-44	Number	---	44	68	32	19	163
	Percent	---	27.0%	41.7%	19.6%	11.7%	100.0%
45-54	Number	---	163	205	112	59	539
	Percent	---	30.2%	38.0%	20.8%	10.9%	100.0%
55-64	Number	---	323	386	214	111	1,034
	Percent	---	31.2%	37.3%	20.7%	10.7%	100.0%
65-74	Number	---	492	557	299	193	1,541
	Percent	---	31.9%	36.1%	19.4%	12.5%	100.0%
75-84	Number	---	451	466	205	216	1,338
	Percent	---	33.7%	34.8%	15.3%	16.1%	100.0%
85+	Number	---	115	126	52	89	382
	Percent	---	30.1%	33.0%	13.6%	23.3%	100.0%
Unknown	Number	---	0	0	0	0	0
	Percent	---	---	---	---	---	---
Total	Number	---	1,601	1,828	916	693	5,038
	Percent	---	31.8%	36.3%	18.2%	13.8%	100.0%

Table 114. Colorectal Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1999-2003

Stage		Race/Ethnicity						
		White	Black	Native American	Asian	Hispanic	Other/ Unknown	Total
In situ	Number	---	---	---	---	---	---	---
	Percent	---	---	---	---	---	---	---
Localized	Number	1,394	77	4	49	59	18	1,601
	Percent	32.2%	26.9%	57.1%	28.2%	30.3%	41.9%	31.8%
Regional	Number	1,596	93	3	69	54	13	1,828
	Percent	36.8%	32.5%	42.9%	39.7%	27.7%	30.2%	36.3%
Distant	Number	766	68	0	33	45	4	916
	Percent	17.7%	23.8%	---	19.0%	23.1%	9.3%	18.2%
Unstaged	Number	577	48	0	23	37	8	693
	Percent	13.3%	16.8%	---	13.2%	19.0%	18.6%	13.8%
Total	Number	4,333	286	7	174	195	43	5,038
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

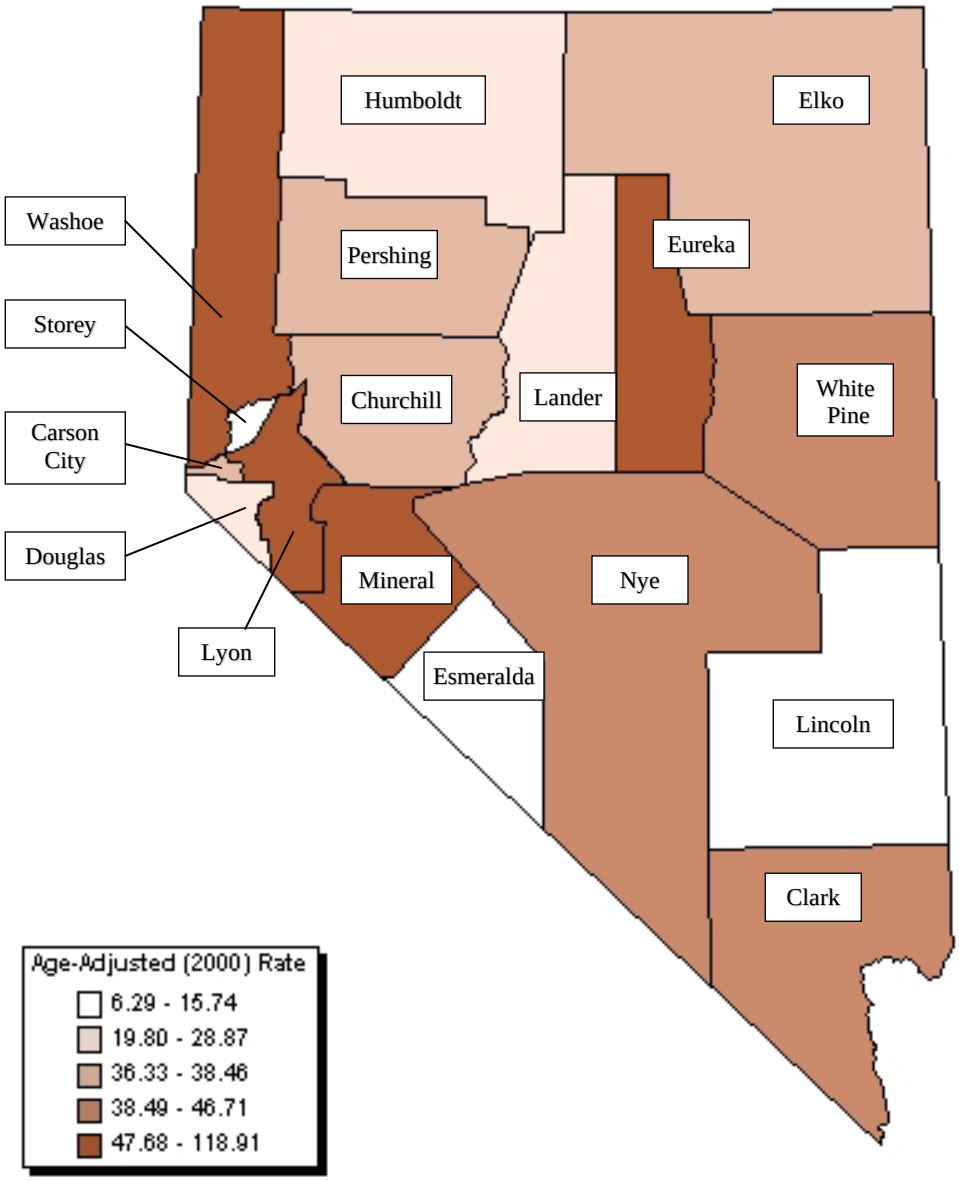
Table 115. Median Age at Diagnosis of Colorectal Cancer by Race/Ethnicity and Gender, Nevada Residents, 1999-2003

Race/Ethnicity	Gender					
	Male		Female		Total	
	Cases	Median Age	Cases	Median Age	Cases	Median Age
White	2,391	69.0	1,942	72.0	4,333	70.0
Black	160	66.0	126	65.5	286	66.0
Native American	2	---	5	57.0	7	57.0
Asian	78	66.0	96	63.5	174	65.0
Hispanic	103	63.0	92	63.5	195	63.0
Other/Unknown	26	66.5	17	72.0	43	69.0
Total	2,760	69.0	2,278	71.0	5,038	70.0

Note: Those cases of other/unknown gender and/or unknown ages are not included in this table. The median age was not calculated for those numbers less than five.

INPATIENT HOSPITAL DISCHARGES

Figure 79. Colorectal Cancer Age-Adjusted (2000) Inpatient Discharge Rates, Nevada Residents, 1999-2003



Note: Rates are per 100,000 population and age-adjusted to 2000 US Standard population. Caution should be used when interpreting rates based upon small numbers and comparing inpatient hospital discharge rates to other data sources, because it is occurrence based data. See Technical Notes for more information.

Figure 80. Colorectal Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1999-2003

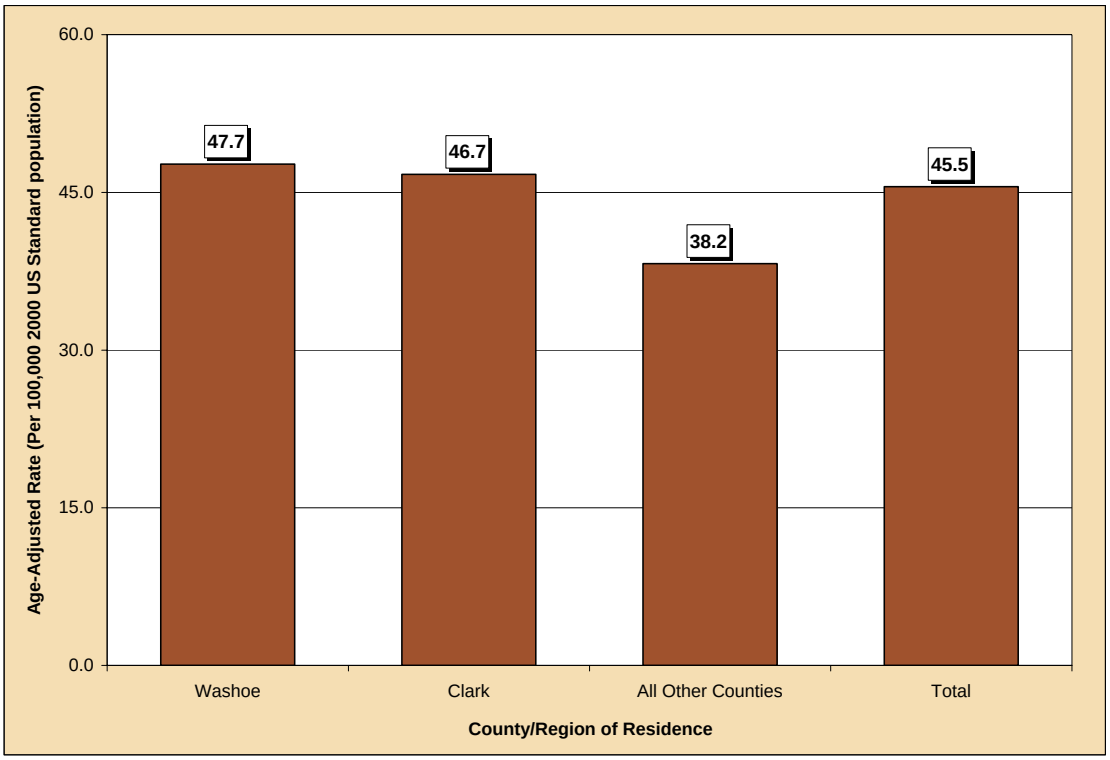


Figure 81. Median Charges for Colorectal Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1999-2003

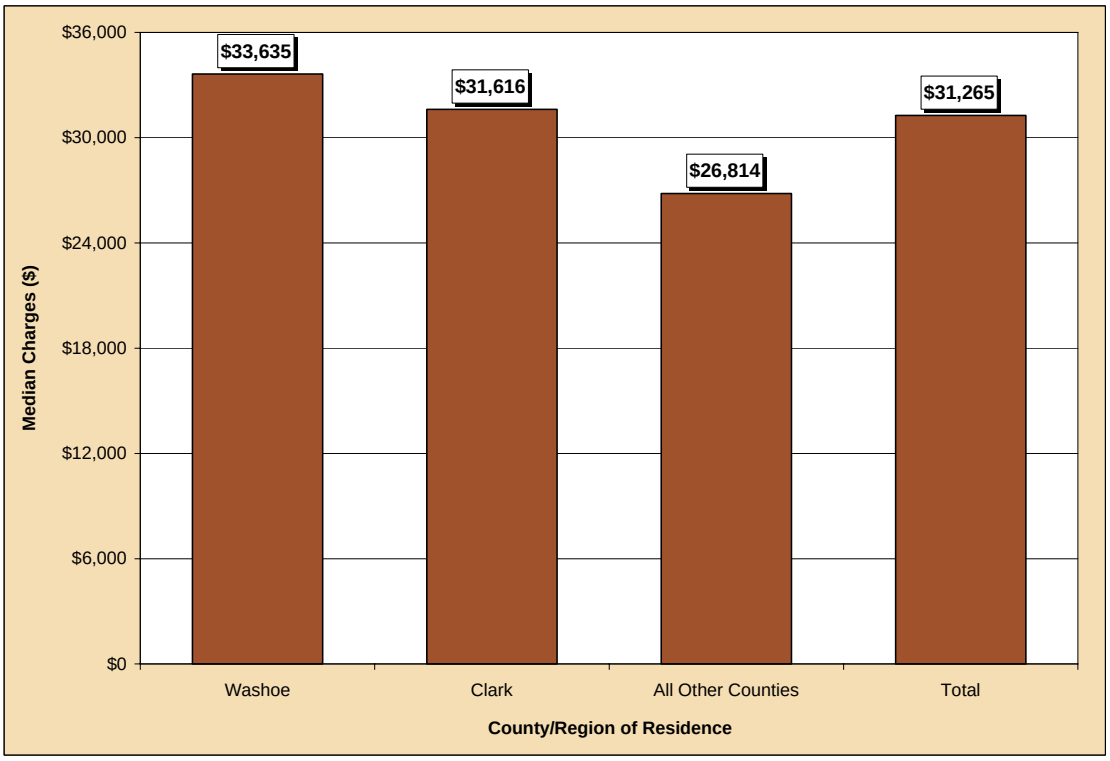


Figure 82. Average Length of Stay for Colorectal Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1999-2003

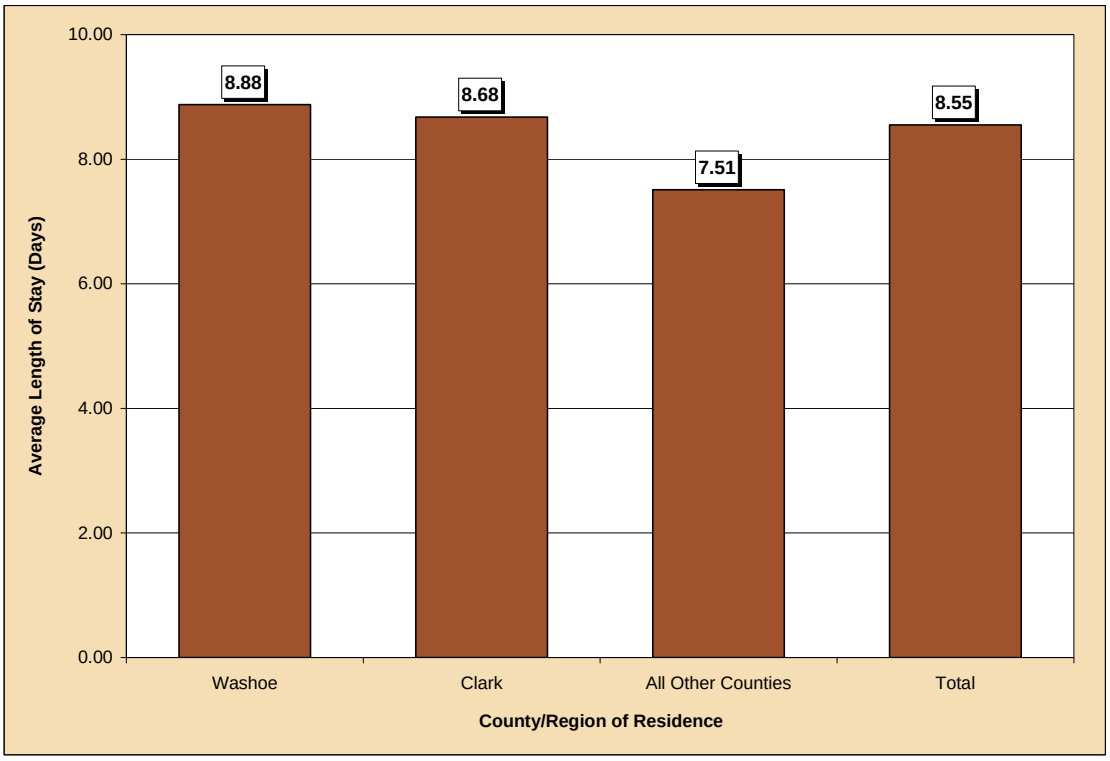


Table 116. Colorectal Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1999-2003

Category	County/Region of Residence				
	Nevada Total	Clark	Washoe	All Other Counties	Unknown
Total					
Discharges	4,364	3,046	722	596	0
Rate*	45.5	46.7	47.7	38.2	---
95% C.I.	(44.2-47.0)	(45.0-48.5)	(44.2-51.4)	(35.2-41.5)	---
Gender					
Male	2,300	1,607	352	341	0
Rate*	50.5	52.3	49.8	44.3	---
95% C.I.	(48.3-52.7)	(49.6-55.2)	(44.5-55.8)	(39.6-49.6)	---
Female	2,064	1,439	370	255	0
Rate*	41.1	42.1	45.3	32.0	---
95% C.I.	(39.3-42.9)	(39.9-44.3)	(40.8-50.2)	(28.2-36.2)	---
Other/Unknown	0	0	0	0	0
Inpatient Discharge Charges ($)					
Total Charges	$192,927,958	$141,299,026	$31,253,070	$20,375,862	$0
Average Charges	$44,209	$46,388	$43,287	$34,188	$0
Median Charges	$31,265	$31,616	$33,635	$26,814	$0
Discharge Length of Stay (LOS) (Days)					
Total LOS	37,317	26,432	6,409	4,476	0
Average LOS	8.6	8.7	8.9	7.5	0.0
Median LOS	7.0	7.0	7.0	6.0	0.0

* Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.
Note: The "---" is used for rates calculated on numbers less than ten. Caution should be used when comparing inpatient hospital discharge data to other data sources, since it is occurrence-based data. Please See Technical Notes for more information.

Table 117. Colorectal Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1999-2003

Category	County/Region of Residence			
	Nevada Total	Clark	Washoe	All Other Counties
Total				
Discharges	4,364	3,046	722	596
Rate*	41.6	41.6	41.3	41.9
95% C.I.	(40.34-42.80)	(40.09-43.04)	(38.31-44.34)	(38.54-45.26)
Age Group				
<1	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
1-4	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
5-14	1	0	1	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
15-24	5	2	3	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
25-34	29	21	7	1
Rate*	1.9	1.8	---	---
95% C.I.	(1.18-2.53)	(1.05-2.61)	---	---
35-44	133	102	12	19
Rate*	8.0	8.9	4.2	8.6
95% C.I.	(6.67-9.40)	(7.15-10.60)	(1.84-6.62)	(4.72-12.43)
45-54	466	333	76	57
Rate*	32.8	35.0	30.0	26.4
95% C.I.	(29.82-35.77)	(31.22-38.73)	(23.28-36.78)	(19.56-33.28)
55-64	899	661	144	94
Rate*	87.4	93.7	87.6	59.2
95% C.I.	(81.70-93.12)	(86.57-100.86)	(73.30-101.91)	(47.24-71.18)
65-74	1,359	920	202	237
Rate*	197.6	195.2	193.4	211.3
95% C.I.	(187.07-208.08)	(182.62-207.85)	(166.74-220.09)	(184.39-238.19)
75-84	1,148	807	192	149
Rate*	292.7	304.1	312.3	228.0
95% C.I.	(275.75-309.61)	(283.10-325.06)	(268.08-356.42)	(191.37-264.58)
85+	324	200	85	39
Rate*	368.3	359.6	511.6	247.7
95% C.I.	(328.16-408.36)	(309.74-409.42)	(402.85-620.38)	(169.93-325.38)
Unknown	0	0	0	0

* Rates are per 100,000 age-specific population.
Note: The "---" is used for rates calculated on numbers less than ten. Caution should be used when comparing inpatient hospital discharge data to other data sources, since it is occurrence-based data. Please See Technical Notes for more information.

Table 118. Colorectal Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1999-2003

Age Group	Gender		
	Male	Female	Total
<1	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
1-4	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
5-14	0	1	1
Rate*	---	---	---
95% C.I.	---	---	---
15-24	2	3	5
Rate*	---	---	---
95% C.I.	---	---	---
25-34	10	19	29
Rate*	1.23	2.54	1.86
95% C.I.	(0.47-1.99)	(1.40-3.68)	(1.18-2.53)
35-44	68	65	133
Rate*	7.92	8.16	8.04
95% C.I.	(6.04-9.80)	(6.18-10.14)	(6.67-9.40)
45-54	240	226	466
Rate*	33.33	32.24	32.79
95% C.I.	(29.11-37.54)	(28.04-36.45)	(29.82-35.77)
55-64	523	376	899
Rate*	102.95	72.24	87.41
95% C.I.	(94.12-111.77)	(64.94-79.55)	(81.70-93.12)
65-74	772	587	1,359
Rate*	227.49	168.45	197.58
95% C.I.	(211.44-243.54)	(154.82-182.07)	(187.07-208.08)
75-84	573	575	1,148
Rate*	323.25	267.47	292.68
95% C.I.	(296.78-349.72)	(245.61-289.33)	(275.75-309.61)
85+	112	212	324
Rate*	385.09	359.94	368.26
95% C.I.	(313.77-456.41)	(311.49-408.40)	(328.16-408.36)
Unknown	0	0	0
Total	2,300	2,064	4,364
Rate*	43.12	39.98	41.57
95% C.I.	(41.35-44.88)	(38.25-41.70)	(40.34-42.80)

* Rates are per 100,000 age-specific population.
Note: The "---" is used for rates calculated on numbers less than ten. Caution should be used when comparing inpatient hospital discharge data to other data sources, since it is occurrence-based data. Please See Technical Notes for more information.

Table 119. Colorectal Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1999-2003

County of Residence	1999-2003 Inpatient Hospital Discharges				
	Cases	Rate*		Age-Adjusted Rate**	
		Rate	95% C.I.	Rate	95% C.I.
Carson City	109	43.1	(34.99-51.16)	36.3	(29.8-44.0)
Churchill	46	37.4	(26.62-48.25)	38.5	(28.1-51.8)
Clark	3,046	41.6	(40.09-43.04)	46.7	(45.0-48.5)
Douglas	78	36.4	(28.32-44.47)	28.9	(22.7-36.6)
Elko	46	20.2	(14.37-26.05)	38.3	(27.2-52.9)
Esmeralda	1	---	---	---	---
Eureka	7	---	---	---	---
Humboldt	16	19.7	(10.07-29.42)	25.3	(14.2-42.3)
Lander	5	---	---	---	---
Lincoln	3	---	---	---	---
Lyon	130	70.1	(58.07-82.18)	61.0	(50.9-72.9)
Mineral	21	86.2	(49.33-123.06)	67.1	(40.7-106.9)
Nye	104	61.4	(49.57-73.15)	39.9	(32.2-49.5)
Pershing	9	---	---	---	---
Storey	1	---	---	---	---
Washoe	722	41.3	(38.31-44.34)	47.7	(44.2-51.4)
White Pine	20	51.3	(28.83-73.82)	38.5	(23.4-60.2)
Unknown	0	---	---	---	---
Total	4,364	41.6	(40.34-42.80)	45.5	(44.2-47.0)

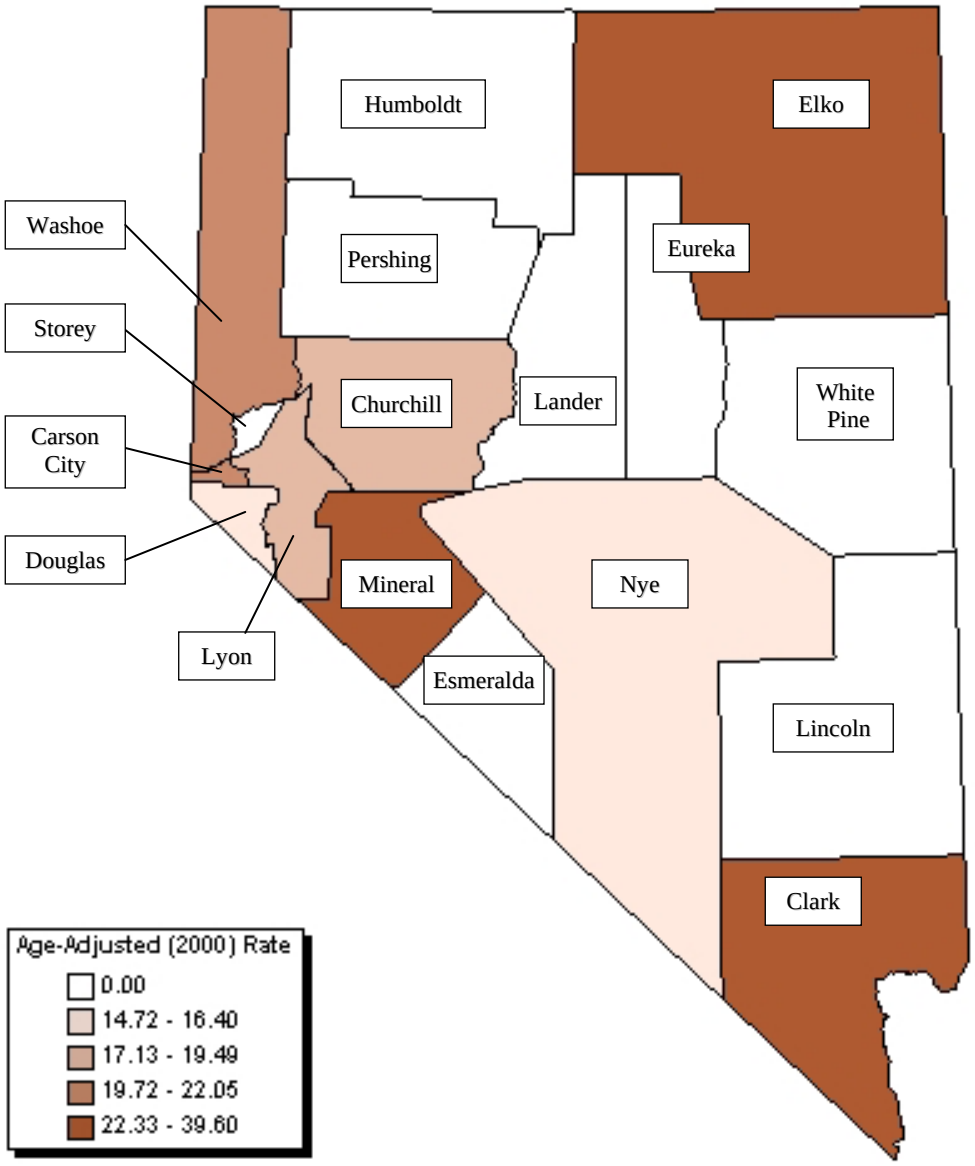
Note: The "---" is used for rates calculated on numbers less than ten. *Rates are per 100,000 population. **Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 120. Colorectal Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1999-2003

Age Group	Discharges	Charges ($)			Length of Stay (Days)		
		Total	Average	Median	Total	Average	Median
<1	0	---	---	---	---	---	---
1-4	0	---	---	---	---	---	---
5-14	1	---	---	---	---	---	---
15-24	5	---	---	---	---	---	---
25-34	29	1,119,124	38,590	34,639	239	8.2	7.0
35-44	133	4,883,088	36,715	30,017	1,032	7.8	7.0
45-54	466	20,020,737	42,963	30,954	4,027	8.6	7.0
55-64	899	36,628,583	40,744	30,646	7,201	8.0	7.0
65-74	1,359	57,513,511	42,320	29,484	10,960	8.1	6.0
75-84	1,148	53,867,601	46,923	32,933	10,446	9.1	7.0
85+	324	18,707,449	57,739	34,836	3,381	10.4	8.0
Unknown	0	---	---	---	---	---	---
Total	4,364	192,927,958	44,209	31,265	37,317	8.6	7.0

MORTALITY

Figure 83. Colorectal Cancer Age-Adjusted (2000) Mortality Rates, Nevada Residents, 1999-2003



Note: Rates are per 100,000 population and age-adjusted to 2000 US Standard population. Caution should be used when interpreting rates based upon small numbers. See Technical Notes for more information.

Figure 84. Colorectal Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1999-2003

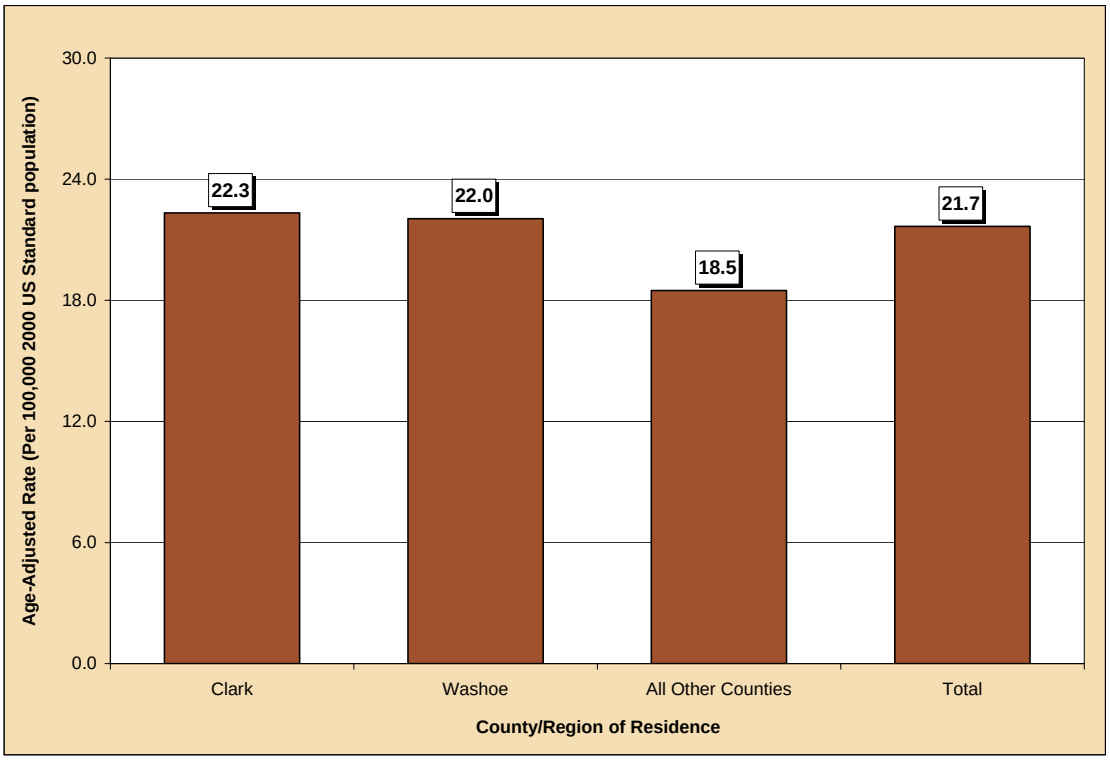


Figure 85. Colorectal Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1999-2003

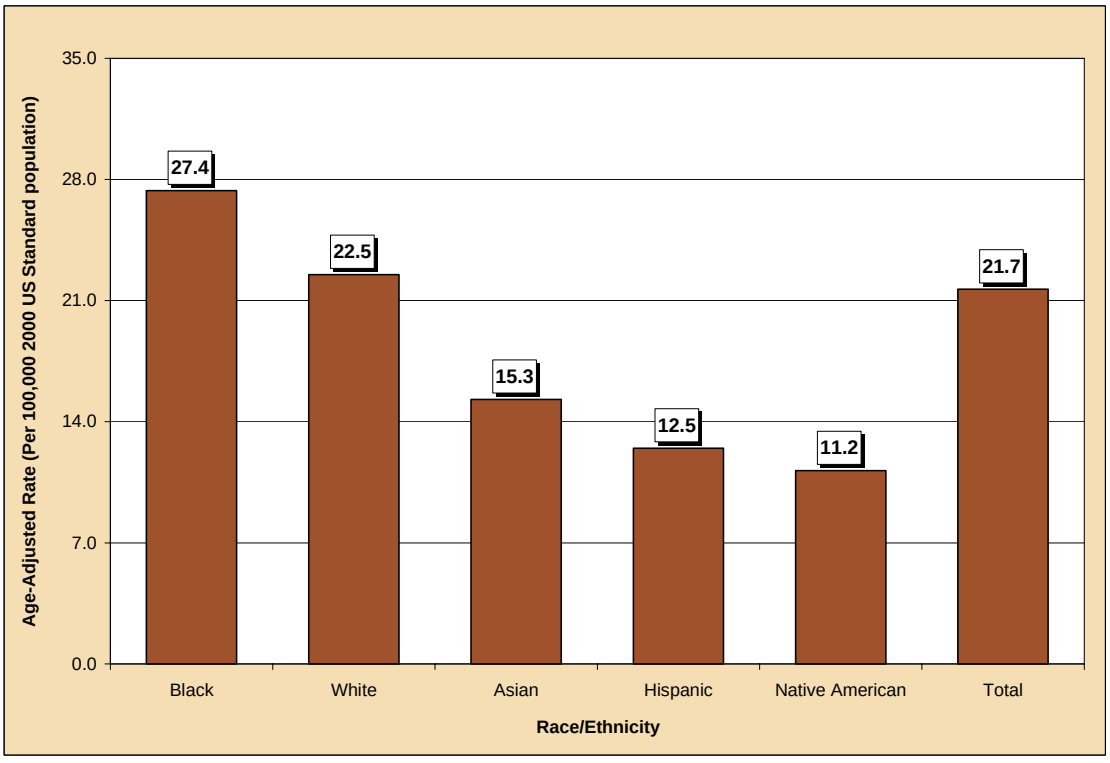


Table 121. Colorectal Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1999-2003

Category	County/Region of Residence			
	Nevada Total	Clark	Washoe	All Other Counties
Total				
Mortality	1,960	1,367	323	270
Rate*	21.7	22.3	22.0	18.5
95% C.I.	(20.7-22.7)	(21.1-23.6)	(19.7-24.7)	(16.3-20.9)
Gender				
Male	1,112	1,112	1,112	1,112
Rate*	26.6	27.8	29.4	20.1
95% C.I.	(25.0-28.4)	(25.7-30.1)	(25.2-34.2)	(16.8-24.0)
Female	848	848	848	848
Rate*	17.5	18.1	15.8	16.5
95% C.I.	(16.4-18.8)	(16.7-19.7)	(13.1-18.8)	(13.7-19.7)
Other/Unknown	0	0	0	0
Race/Ethnicity				
White	1,707	1,159	293	255
Rate*	22.5	23.4	22.6	19.1
95% C.I.	(21.4-23.6)	(22.0-24.8)	(20.1-25.4)	(16.7-21.7)
Black	114	106	5	3
Rate*	27.4	27.7	---	---
95% C.I.	(22.1-33.7)	(22.2-34.5)	---	---
Native American	11	2	4	5
Rate*	11.2	---	---	---
95% C.I.	(5.3-21.8)	---	---	---
Asian	59	45	13	1
Rate*	15.3	13.2	29.6	---
95% C.I.	(11.0-21.7)	(9.1-20.2)	(12.8-63.4)	---
Hispanic	68	54	8	6
Rate*	12.5	12.7	---	---
95% C.I.	(9.2-16.8)	(9.0-17.9)	---	---
Other/Unknown	1	1	0	0

Note: The "---" is used for rates calculated on numbers less than ten.
*Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 122. Colorectal Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1999-2003

Category	County/Region of Residence			
	Nevada Total	Clark	Washoe	All Other Counties
Total				
Deaths	1,960	1,367	323	270
Rate*	21.7	22.3	22.0	18.5
95% C.I.	(20.7-22.7)	(21.1-23.6)	(19.7-24.7)	(16.3-20.9)
Age Group				
<1	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
1-4	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
5-14	0	0	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
15-24	1	0	1	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
25-34	8	6	1	1
Rate*	---	---	---	---
95% C.I.	---	---	---	---
35-44	45	32	8	5
Rate*	2.7	2.8	---	---
95% C.I.	(1.92-3.51)	(1.82-3.75)	---	---
45-54	140	107	18	15
Rate*	9.9	11.2	7.1	7.0
95% C.I.	(8.22-11.48)	(9.11-13.37)	(3.83-10.40)	(3.43-10.47)
55-64	324	226	59	39
Rate*	31.5	32.0	35.9	24.6
95% C.I.	(28.07-34.93)	(27.86-36.22)	(26.73-45.05)	(16.85-32.27)
65-74	580	405	93	82
Rate*	84.3	86.0	89.1	73.1
95% C.I.	(77.46-91.18)	(77.58-94.32)	(70.95-107.15)	(57.28-88.93)
75-84	597	424	90	83
Rate*	152.2	159.8	146.4	127.0
95% C.I.	(139.99-164.41)	(144.56-174.97)	(116.13-176.61)	(99.67-154.31)
85+	265	167	53	45
Rate*	301.2	300.3	319.0	285.8
95% C.I.	(264.93-337.46)	(254.71-345.79)	(233.12-404.89)	(202.26-369.25)
Unknown	0	0	0	0

Note: The "---" is used for rates calculated on numbers less than ten.
* Rates are per 100,000 age-specific population.

Table 123. Colorectal Cancer Mortality by County of Residence, Nevada Residents, 1999-2003

County of Residence at Diagnosis	1999-2003 Mortality				
	Cases	Rate*		Age-Adjusted Rate**	
		Rate	95% C.I.	Rate	95% C.I.
Carson City	59	23.3	(17.37-29.27)	19.7	(15.0-25.6)
Churchill	23	18.7	(11.07-26.37)	19.5	(12.3-29.8)
Clark	1,367	18.7	(17.67-19.64)	22.3	(21.1-23.6)
Douglas	35	16.3	(10.92-21.74)	14.7	(10.1-21.2)
Elko	32	14.1	(9.19-18.93)	29.2	(19.2-43.1)
Esmeralda	1	---	---	---	---
Eureka	0	---	---	---	---
Humboldt	8	---	---	---	---
Lander	2	---	---	---	---
Lincoln	5	---	---	---	---
Lyon	35	18.9	(12.62-25.13)	17.1	(11.8-24.2)
Mineral	13	53.4	(24.35-82.37)	39.6	(20.8-69.6)
Nye	41	24.2	(16.79-31.59)	16.4	(11.5-23.5)
Pershing	9	---	---	---	---
Storey	0	---	---	---	---
Washoe	323	18.5	(16.47-20.50)	22.0	(19.7-24.7)
White Pine	7	---	---	---	---
Unknown	0	---	---	---	---
Total	1,960	18.7	(17.84-19.50)	21.7	(20.7-22.7)

Note: The "---" is used for rates calculated on numbers less than ten. *Rates are per 100,000 population. **Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 124. Colorectal Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1999-2003

Race/Ethnicity		Gender			
		Male	Female	Other/ Unknown	Total
White	Incidence	978	729	0	1,707
	Rate*	27.7	18.1	---	22.5
	95% C.I.	(25.8-29.6)	(16.8-19.5)	---	(21.4-23.6)
Black	Incidence	57	57	0	114
	Rate*	32.3	24.3	---	27.4
	95% C.I.	(22.9-45.3)	(18.2-32.2)	---	(22.1-33.7)
Native American	Incidence	7	4	0	11
	Rate*	---	---	---	11.2
	95% C.I.	---	---	---	(5.3-21.8)
Asian	Incidence	29	30	0	59
	Rate*	16.4	14.2	---	15.3
	95% C.I.	(10.8-24.2)	(8.4-23.7)	---	(11.0-21.7)
Hispanic	Incidence	41	27	0	68
	Rate*	17.2	9.1	---	12.5
	95% C.I.	(11.1-26.5)	(5.7-14.3)	---	(9.2-16.8)
Other/Unknown		0	1	0	1
Total	Incidence	1,112	848	0	1,960
	Rate*	26.6	17.5	---	21.7
	95% C.I.	(25.0-28.4)	(16.4-18.8)	---	(20.7-22.7)

Note: The "---" is used for rates calculated on numbers less than ten. *Rates are per 100,000 population and are age-adjusted to the 2000 US Standard population.

Table 125. Colorectal Cancer Mortality by Age Group and Gender, Nevada Residents, 1999-2003

Age Group	Gender		
	Male	Female	Total
<1	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
1-4	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
5-14	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
15-24	0	1	1
Rate*	---	---	---
95% C.I.	---	---	---
25-34	3	5	8
Rate*	---	---	---
95% C.I.	---	---	---
35-44	24	21	45
Rate*	2.80	2.64	2.72
95% C.I.	(1.68-3.91)	(1.51-3.76)	(1.92-3.51)
45-54	79	61	140
Rate*	10.97	8.70	9.85
95% C.I.	(8.55-13.39)	(6.52-10.89)	(8.22-11.48)
55-64	210	114	324
Rate*	41.34	21.90	31.50
95% C.I.	(35.75-46.93)	(17.88-25.92)	(28.07-34.93)
65-74	359	221	580
Rate*	105.79	63.42	84.32
95% C.I.	(94.85-116.73)	(55.06-71.78)	(77.46-91.18)
75-84	330	267	597
Rate*	186.17	124.20	152.20
95% C.I.	(166.08-206.25)	(109.30-139.10)	(139.99-164.41)
85+	107	158	265
Rate*	367.90	268.26	301.20
95% C.I.	(298.19-437.61)	(226.43-310.09)	(264.93-337.46)
Unknown	0	0	0
Total	1,112	848	1,960
Rate*	20.85	16.42	18.67
95% C.I.	(19.62-22.07)	(15.32-17.53)	(17.84-19.50)

Note: The "---" is used for rates calculated on numbers less than ten.
* Rates are per 100,000 age-specific population.

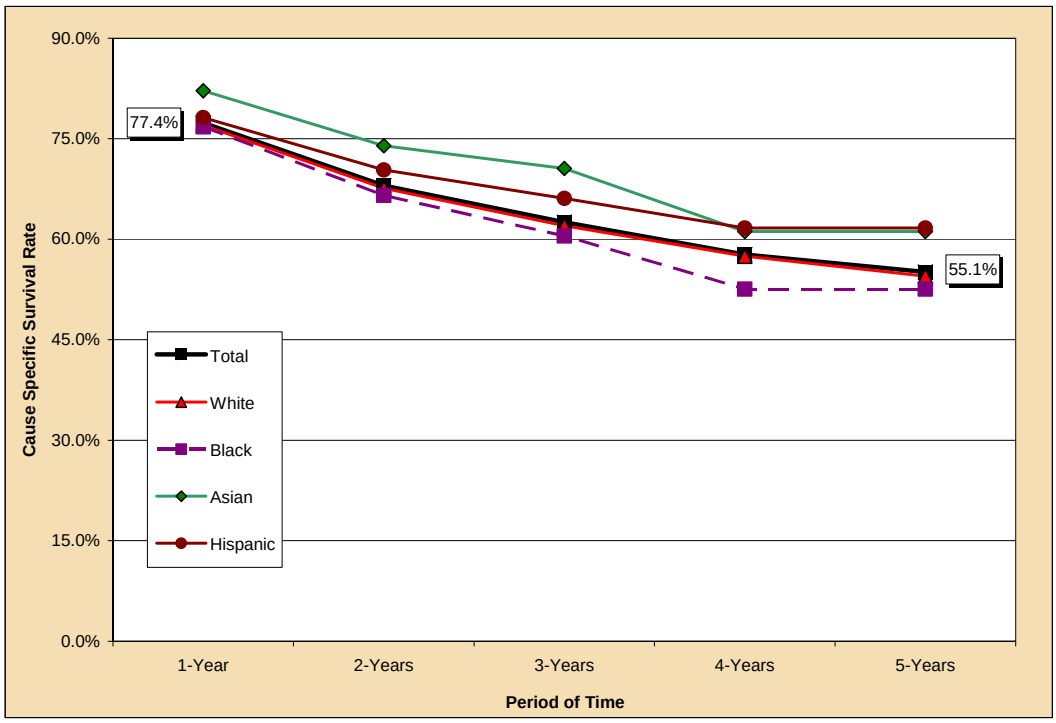
Table 126. Median Age at Death from Colorectal Cancer by Race/Ethnicity and Gender, Nevada Residents, 1999-2003

Race/Ethnicity	Gender					
	Male		Female		Total	
	Cases	Median Age	Cases	Median Age	Cases	Median Age
White	978	72.0	729	75.0	1,707	73.0
Black	57	67.0	57	69.0	114	68.0
Native American	7	58.0	4	---	11	66.0
Asian	29	69.0	30	67.0	59	68.0
Hispanic	41	70.0	27	69.0	68	69.5
Other/Unknown	0	---	1	---	1	---
Total	1,112	72.0	848	75.0	1,960	73.0

Note: Those cases of other/unknown gender and/or unknown ages are not included in this table. The median age was not calculated for those numbers less than five.

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Figure 86. Survival Rates for Colorectal Cancer by Race/Ethnicity, Nevada Residents, 1999-2003



Notes: The survival rate for those racial/ethnic groups not included in this chart could not be calculated due to small cell size.

Figure 87. Survival Rates for Colorectal Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1999-2003

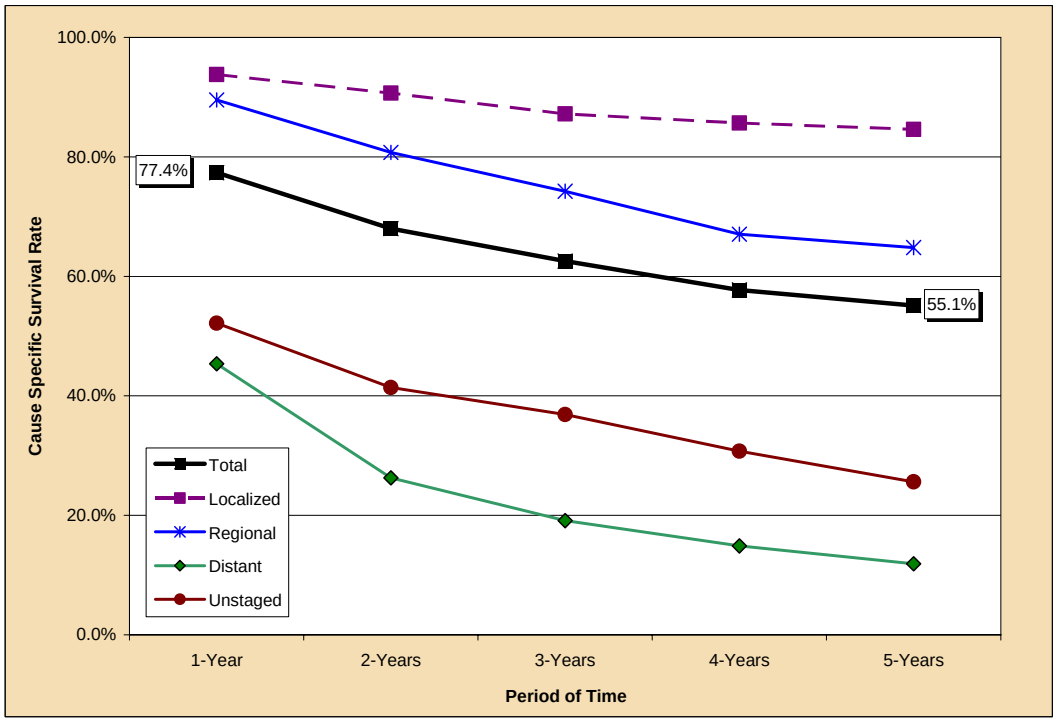


Table 127. Cause-Specific Survival Rates for Colorectal Cancer by Race/Ethnicity and Gender, Nevada Residents, 1999-2003

Race/ Ethnicity and Gender	Number of Cases	Cause Specific Survival Rate					Median Survival Time (years)
		One Year	Two Years	Three Years	Four Years	Five Years	
Total	4,027	77.4%	68.0%	62.5%	57.7%	55.1%	> 5 YEARS
Male	2,176	76.3%	66.7%	61.0%	55.7%	52.7%	> 5 YEARS
Female	1,851	78.6%	69.6%	64.3%	60.2%	58.1%	> 5 YEARS
Race/Ethnicity							
White	3,439	77.0%	67.6%	62.0%	57.5%	54.5%	> 5 YEARS
Male	1,881	75.9%	66.2%	60.4%	55.4%	52.2%	> 5 YEARS
Female	1,558	78.3%	69.3%	64.0%	60.0%	57.6%	> 5 YEARS
Black	231	76.8%	66.5%	60.5%	52.6%	52.6%	> 5 YEARS
Male	120	77.5%	66.7%	62.8%	55.2%	55.2%	> 5 YEARS
Female	111	76.0%	66.4%	58.0%	49.7%	49.7%	3.96
Native American	7	---	---	---	---	---	.
Male	2	---	---	---	---	---	.
Female	5	---	---	---	---	---	.
Asian	148	82.2%	73.9%	70.5%	61.1%	61.1%	> 5 YEARS
Male	64	84.4%	74.4%	70.1%	48.5%	0.0%	3.93
Female	84	80.5%	73.5%	70.7%	66.3%	66.3%	> 5 YEARS
Hispanic	166	78.2%	70.3%	66.1%	61.7%	61.7%	> 5 YEARS
Male	90	74.8%	69.3%	63.8%	59.0%	59.0%	> 5 YEARS
Female	76	82.1%	71.7%	68.8%	64.6%	64.6%	> 5 YEARS

Notes: 1) The "---" indicates that survival rate could not be calculated due to small cell size. Caution should be used when interpreting survival rates based upon categories with a small number of cases. 2) Those cases where the gender and/or race/ethnicity were other/unknown, are not shown separately, but are included in the category totals. 3) These rates may not be directly comparable to national rates because of different methodologies. Caution should be used when trying to compare rates for Nevada and the nation. For more information on the calculation of survival rates, please refer to Technical Notes section.

Table 128. Cause-Specific Survival Rates for Colorectal Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1999-2003

Survival Rate of Stage at Diagnosis		Gender		
		Total	Male	Female
Total	Cases	4,027	2,176	1,851
	One Year	77.4%	76.3%	78.6%
	5 Years	55.1%	52.7%	58.1%
	Median Survival	> 5 YEARS	> 5 YEARS	> 5 YEARS
Stage at Diagnosis				
In situ	Cases	---	---	---
	One Year	---	---	---
	5 Years	---	---	---
	Median Survival	---	---	---
Localized	Cases	1,277	676	601
	One Year	93.8%	93.1%	94.6%
	5 Years	84.6%	82.7%	87.1%
	Median Survival	> 5 YEARS	> 5 YEARS	> 5 YEARS
Regional	Cases	1,483	799	684
	One Year	89.5%	90.7%	88.1%
	5 Years	64.8%	64.3%	65.4%
	Median Survival	> 5 YEARS	> 5 YEARS	> 5 YEARS
Distant	Cases	764	433	331
	One Year	45.4%	41.6%	50.3%
	5 Years	11.9%	6.8%	18.5%
	Median Survival	0.91	0.86	1.02
Unstaged	Cases	503	268	235
	One Year	52.2%	51.2%	53.3%
	5 Years	25.6%	24.1%	27.4%
	Median Survival	1.20	1.12	1.29

Notes: 1) The "---" indicates that survival rate could not be calculated due to small cell size. Caution should be used when interpreting survival rates based upon categories with a small number of cases. 2) These rates may not be directly comparable to national rates because of different methodologies. Caution should be used when trying to compare rates for Nevada and the nation. For more information on the calculation of survival rates, please refer to Technical Notes section.