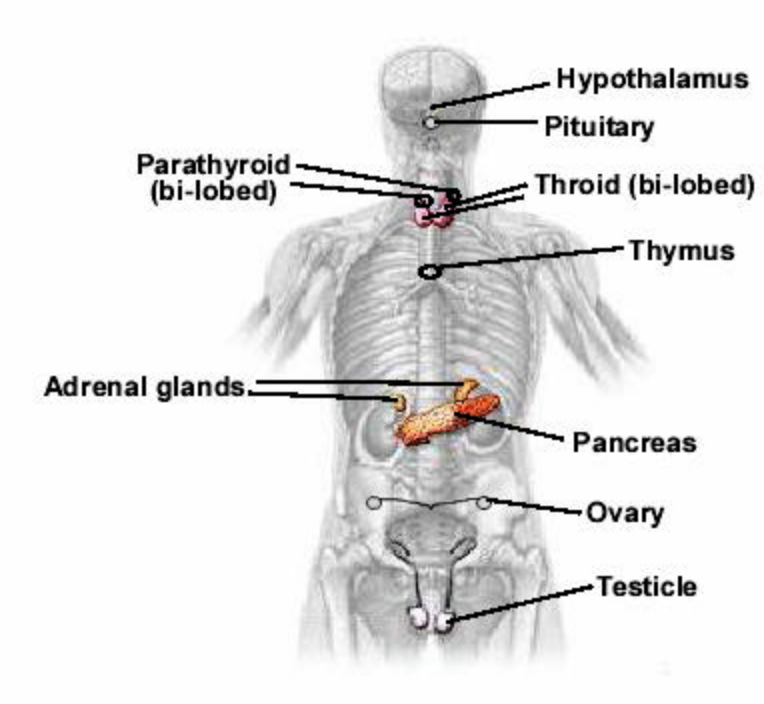
PANCREATIC CANCER

PANCREATIC CANCER

GENERAL PROFILE[4]

Figure 153. Anatomy of the Endocrine System[5]



General Anatomy: The pancreas is a gland located deep in the abdomen between the stomach and the spine (backbone). The pancreas is about 6 inches long and is shaped like a flat pear. The pancreas makes insulin and other hormones that travel throughout the body to help the body use or store the energy that comes from food.

Risk Factors: Age, smoking, diabetes, male gender, Black race/ethnicity, family history of pancreatic cancer, and chronic pancreatitis.

Signs and Symptoms: Pancreatic cancer is sometimes called a "silent disease" because early pancreatic cancer often does not cause symptoms. But, as the cancer grows, symptoms may include: Pain in the upper abdomen or upper back, yellow skin and eyes, and dark urine from jaundice, weakness, loss of appetite, nausea and vomiting, and weight loss.

Diagnosing the Cancer: Physical exam, blood, stool and urine tests (Bilirubin levels), computed tomography (CAT) scan, ultrasonography (transabdominal, endoscopic), endoscopic retrograde cholangiopancreatography (ERCP), percutaneous transhepatic cholangiography (PTC), and fine-needle aspiration.

Treatment: Surgery (Whipple procedure, distal pancreatectomy, total pancreatectomy, bypass), radiation therapy, and chemotherapy.

HIGHLIGHTS

- The ratio of the age-adjusted incidence rate, 10.8, to the age-adjusted mortality rate, 9.8 (per 100,000 – 2000 US Standard population), for Pancreatic Cancer was 1.12 during the 1996 to 2001 period, which means that for every 1.10 Pancreatic Cancer cases there was one death due to this type of cancer in Nevada. Both females and males were similar with ratios of 1.05 and 1.20 during this period.

- The median age at diagnosis of Pancreatic Cancer for Nevada residents was 69 years of age, while the median age for males and females was 67 and 70 years during the 1997 to 2001 period. The median age at time of death due to cancer of the pancreas was 70 years for Nevada overall, 69 years for males and 72 years of age for females.

INCIDENCE

- There were 951 cases of Pancreatic Cancer reported in Nevada from 1997 to 2001. Nevada's age-adjusted incidence rate for Pancreatic Cancer (10.8) was slightly lower than the national rate of 11.0 (per 100,000 – 2001 US Standard population) from 1997 to 2001.

- While regional comparisons showed only slight variations between the age-adjusted incidence rates of Pancreatic Cancer for Clark County (11.0), Washoe County (10.5) and All Other Counties (10.4) from 1997 to 2001, statistical analysis shows no statistically significant difference between the three regions. This was the same for males and females in Nevada who had rates of 12.2 and 9.8 (per 100,000 – 2000 US Standard population), respectively.

- Blacks, as a racial/ethnic group, had the highest statistically significant age-adjusted incidence rate for Pancreatic Cancer, 14.7 (11.0-19.6), of any racial/ethnic group from 1996 to 2001. Whites, Hispanics and Asians followed with rates of 11.1 (10.4-11.9), 9.9 (6.8-14.2) and 4.8 (2.8-10.2) (per 100,000 – 2000 US Standard population), respectively, during this time.

INPATIENT HOSPITAL DISCHARGES

- Billed charges from Pancreatic Cancer inpatient hospital discharges accounted for greater than 29.8 million dollars from 1997 to 2001. Nevadans in the 65-74 and 75-84 age groups accounted for 56.8% of the total inpatient discharges and 54.4% of the total billed charges during this period. The overall daily billed amount for Pancreatic Cancer inpatient hospital discharges was approximately $4,197 in Nevada during this period.

- There were 741 inpatient hospital discharges for Pancreatic Cancer to residents in Nevada from 1997 to 2001. Washoe County had the highest age-adjusted inpatient discharge rate, 8.9 (7.4-10.6), for Pancreatic Cancer and showed statistical significance over the All Other Counties region's rate of 6.3 (5.0-7.8), which was the lowest age-adjusted inpatient discharge rate of any region in Nevada during the 1997 to 2001 period.

- The median total billed charges in Nevada for inpatient discharges due to cancer of the pancreas were $24824 from 1997 to 2001. Washoe and Clark County had the highest median total billed charges, $43,301 and $42,844, which were more than double the All Other Counties' median billed amount of $21,438.

MORTALITY

- There were 845 resident Pancreatic Cancer deaths from 1997 to 2001. Regional comparisons were fairly similar between All Other Counties, Clark County and Washoe County with rates of 10.2, 9.9 and 8.9 (per 100,000 – 2000 US Standard population), respectively.

- Blacks, as a racial/ethnic group, had the highest age-adjusted Pancreatic Cancer mortality rate, (12.3); followed by Whites (10.0), Hispanics (9.0), and Asians (4.8) (per 100,000 – 2000 US Standard population). However, statistical analysis does not show any statistical significance between any of the racial/ethnic groups.

SURVIVAL RATE

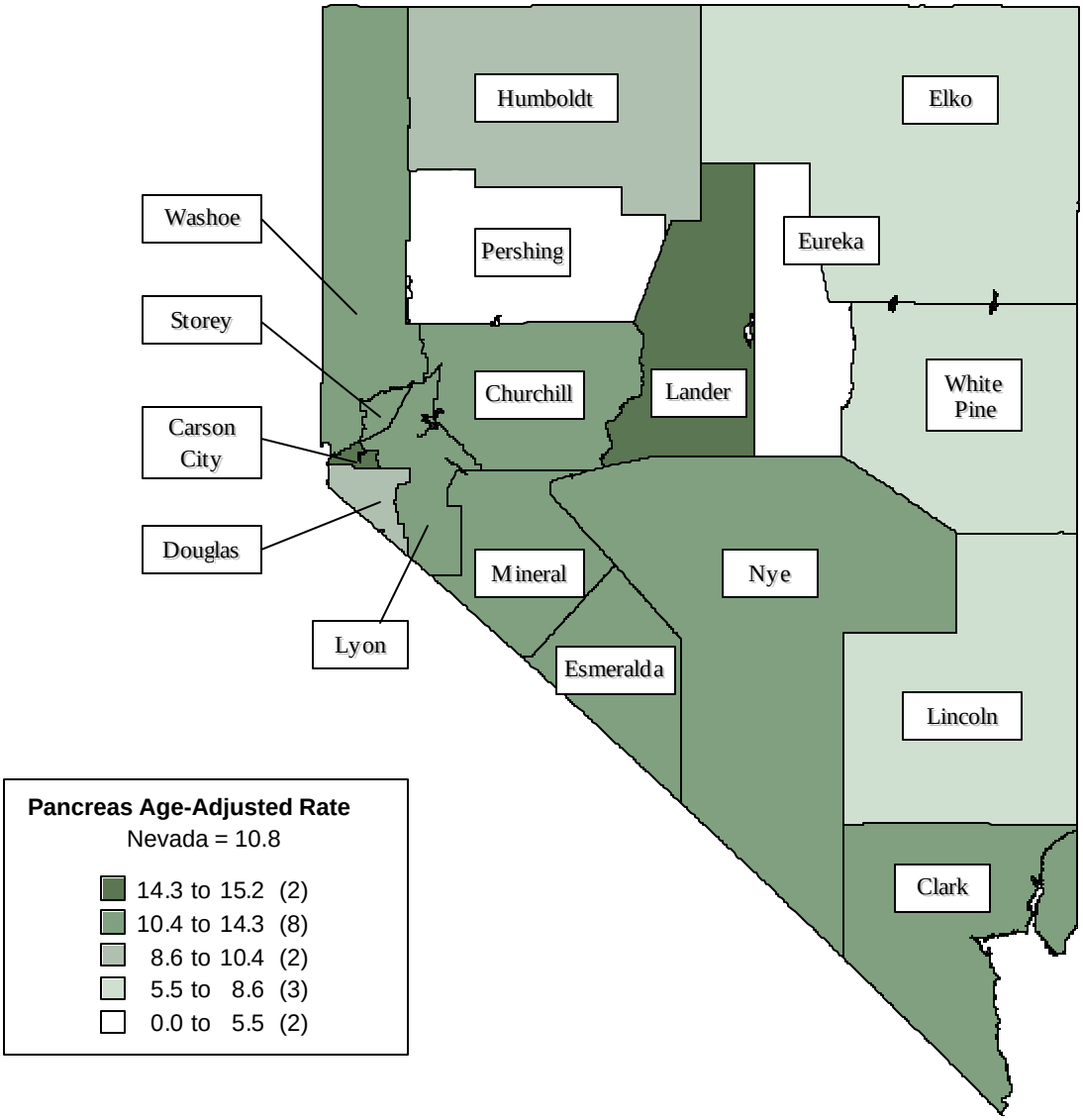
- While the one-year survival rate for Nevada females with Pancreatic Cancer (38.3%) was slightly higher than the rate for males (37.4%) during the 1997 to 2001 period, the five-year survival rate decreased to 15.9% for females and 13.4% for males from 1997 to 2001.

- The one-year survival rate for those diagnosed with Pancreatic Cancer at the localized stage was 36.1%, while those diagnosed at the regional, distant and unstaged stages had rates of 43.8%, 36.8 % and 30.3%, respectively, during the 1996 to 2001 period.

- From 1997 to 2001, the median survival time for Pancreatic Cancer diagnosed at the localized stage was 0.81 years, while those diagnosed at the regional, distant and unstaged levels had median survival times of 0.98, 0.82 and 0.67 years, respectively.

INCIDENCE

Figure 154. Pancreatic Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001



Note: Rates are per 100,000 population and age-adjusted to 2001 US Standard population. Caution should be used when interpreting rates based upon small numbers. See Technical notes for more information.

Figure 155. Pancreatic Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001

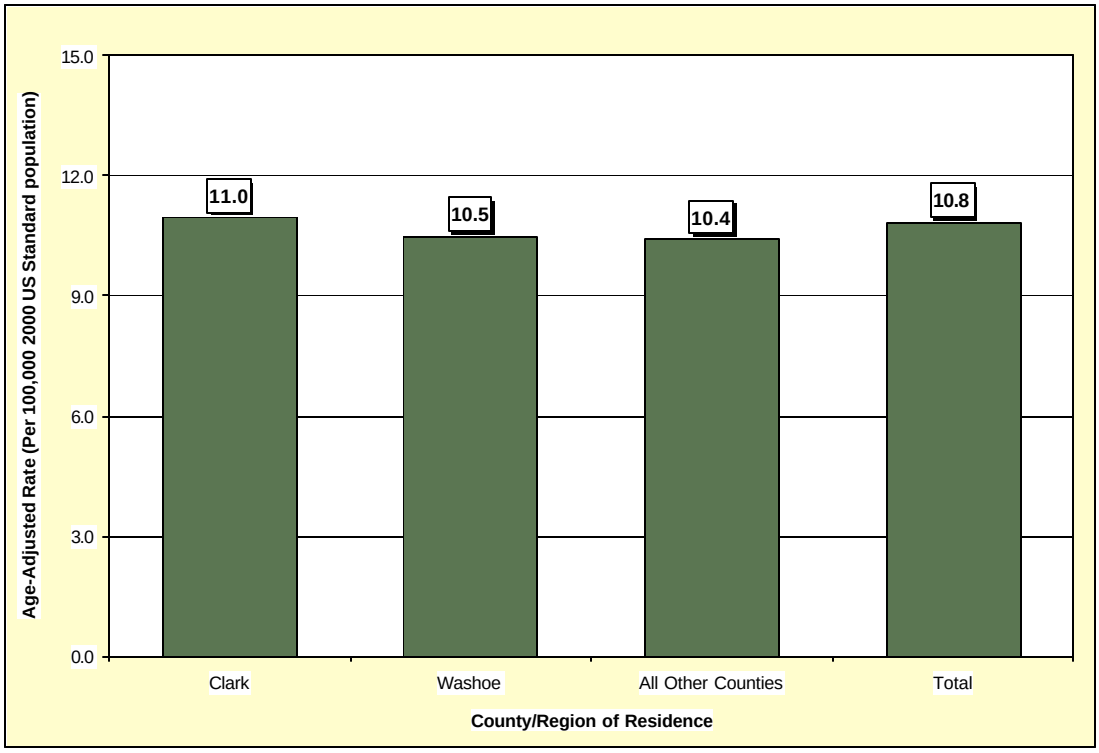


Figure 156. Pancreatic Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001

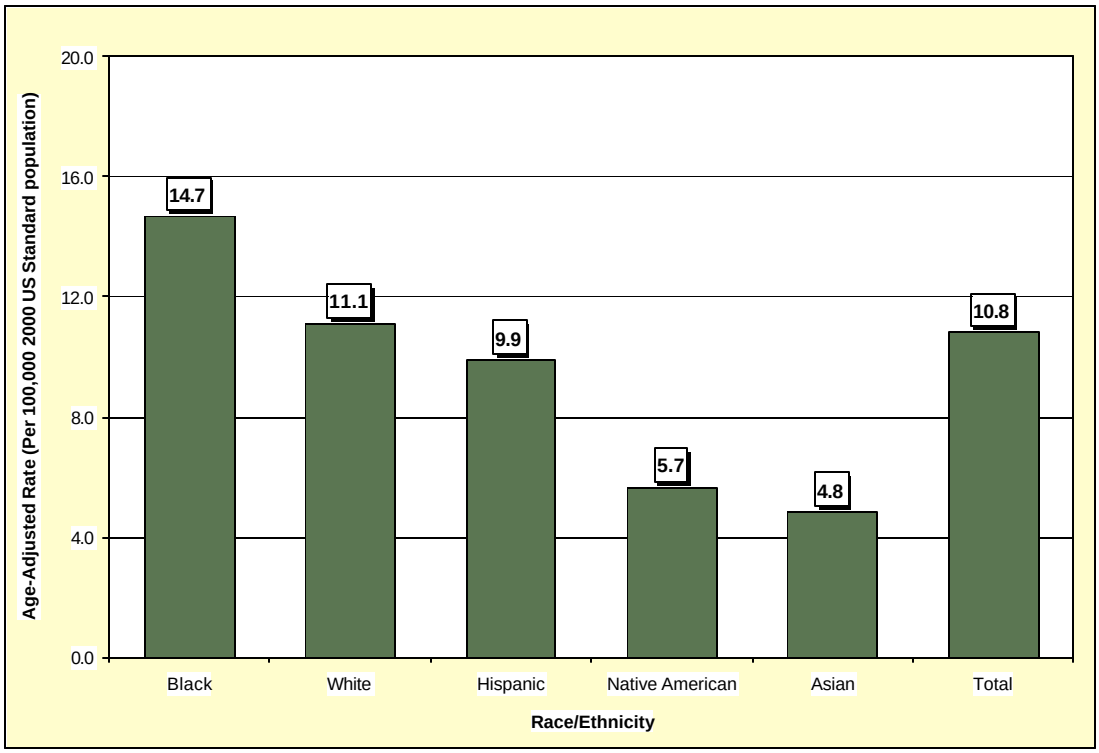


Table 234. Pancreatic Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001)

Category	County/Region of Residence					
	Nevada Total	Clark	Washoe	All Other Counties	Unknown	SEER 11 (1997-2001)
Total						
Cases	951	644	154	150	3	18,790
Rate*	10.8	11.0	10.5	10.4	---	11.0
95% C.I.	(10.1-11.6)	(10.1-11.9)	(8.9-12.3)	(8.8-12.3)	---	(10.8-11.2)
Gender						
Male	502	348	75	78	1	9,214
Rate*	12.2	12.6	11.1	11.6	---	12.6
95% C.I.	(11.1-13.4)	(11.2-14.2)	(8.6-14.3)	(9.0-14.8)	---	(12.3-12.8)
Female	449	296	79	72	2	9,576
Rate*	9.8	9.6	10.0	9.6	---	9.7
95% C.I.	(8.9-10.7)	(8.6-10.8)	(7.9-12.6)	(7.5-12.1)	---	(9.5-9.9)
Other/Unknown	0	0	0	0	0	0
Race/Ethnicity						
White	817	541	134	140	2	14,999
Rate*	11.1	11.4	10.4	10.5	---	10.8
95% C.I.	(10.4-11.9)	(10.5-12.5)	(8.7-12.4)	(8.8-12.5)	---	(10.6-11.0)
Black	61	49	11	1	0	2,116
Rate*	14.7	12.8	47.3	---	---	15.4
95% C.I.	(11.0-19.6)	(9.3-17.7)	(23.0-88.9)	---	---	(14.7-16.1)
Native American	5	2	2	1	0	121
Rate*	---	---	---	---	---	8.3
95% C.I.	---	---	---	---	---	(6.8-6.8)
Asian	18	13	2	2	1	1,524
Rate*	4.8	4.4	---	---	---	9.3
95% C.I.	(2.8-10.2)	(2.2-11.1)	---	---	---	(8.9-9.8)
Hispanic	47	36	5	6	0	1,470
Rate*	9.9	9.4	---	---	---	9.7
95% C.I.	(6.8-14.2)	(6.1-14.5)	---	---	---	(9.2-10.2)
Other/Unknown	3	3	0	0	0	30

* Rates are per 100,000 population and are age-adjusted to the 2001 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 235. Pancreatic Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001)

Category	County/Region of Residence					
	Nevada Total	Clark	Washoe	All Other Counties	Unknown	SEER 11 (1997-2001)
Total						
Cases	951	644	154	150	3	18,790
Rate*	9.8	9.7	9.2	10.7	---	10.1
95% C.I.	(9.1-10.4)	(8.9-10.4)	(7.7-10.6)	(9.0-12.5)	---	(10.0-10.3)
Age Group						
<1	0	0	0	0	0	---
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
1-4	0	0	0	0	0	---
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
5-14	1	0	1	0	0	6
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
15-24	3	3	0	0	0	22
Rate*	---	---	---	---	---	0.1
95% C.I.	---	---	---	---	---	(0.0-0.1)
25-34	4	2	1	1	0	73
Rate*	---	---	---	---	---	0.2
95% C.I.	---	---	---	---	---	(0.2-0.3)
35-44	23	16	5	2	0	513
Rate*	1.5	1.5	---	---	---	1.6
95% C.I.	(0.9-2.1)	(0.8-2.3)	---	---	---	(1.5-1.8)
45-54	102	68	19	15	0	1,826
Rate*	7.9	8.0	8.0	7.5	---	8.0
95% C.I.	(6.4-9.5)	(6.1-9.9)	(4.4-11.6)	(3.7-11.3)	---	(7.6-8.3)
55-64	210	148	33	29	0	3,199
Rate*	22.9	23.8	22.0	20.1	---	22.8
95% C.I.	(19.8-26.0)	(20.0-27.6)	(14.5-29.5)	(12.8-27.4)	---	(22.1-23.6)
65-74	304	208	42	53	1	5,314
Rate*	47.3	48.1	41.0	49.4	---	46.1
95% C.I.	(42.0-52.7)	(41.6-54.6)	(28.6-53.4)	(36.1-62.7)	---	(44.8-47.3)
75-84	246	165	41	38	2	5,567
Rate*	70.0	70.6	70.9	63.4	---	76.6
95% C.I.	(61.3-78.8)	(59.9-81.4)	(49.2-92.6)	(43.3-83.6)	---	(74.6-78.6)
85+	58	34	12	12	0	2,270
Rate*	76.1	72.8	77.4	85.5	---	91.5
95% C.I.	(56.5-95.7)	(48.3-97.3)	(33.6-121.2)	(37.1-133.9)	---	(87.8-95.3)
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 236. Pancreatic Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001

County of Residence at Diagnosis	1997-2001 Incidence				
	Cases	Rate*		Age-Adjusted Rate**	
		Rate	95% C.I.	Rate	95% C.I.
Carson City	42	16.9	(11.8-22.0)	14.4	(10.3-19.6)
Churchill	12	9.9	(4.3-15.6)	11.4	(5.8-20.4)
Clark	644	9.7	(8.9-10.4)	11.0	(10.1-11.9)
Douglas	21	10.2	(5.9-14.6)	9.3	(5.6-15.1)
Elko	7	---	---	---	---
Esmeralda	1	---	---	---	---
Eureka	0	---	---	---	---
Humboldt	5	---	---	---	---
Lander	3	---	---	---	---
Lincoln	1	---	---	---	---
Lyon	21	12.3	(7.1-17.6)	11.0	(6.7-17.4)
Mineral	4	---	---	---	---
Nye	27	17.2	(10.7-23.7)	12.2	(7.9-19.1)
Pershing	0	---	---	---	---
Storey	3	---	---	---	---
Washoe	154	9.2	(7.7-10.6)	10.5	(8.9-12.3)
White Pine	3	---	---	---	---
Unknown	3	---	---	---	---
Total	951	9.8	(9.1-10.4)	10.8	(10.1-11.6)

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 2001 US Standard population.

Table 237. Pancreatic Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity		Gender			
		Male	Female	Other/ Unknown	Total
White	Incidence	431	386	0	817
	Rate*	12.4	10.0	---	11.1
	95% C.I.	(11.2-13.7)	(9.0-11.1)	---	(10.4-11.9)
Black	Incidence	31	30	0	61
	Rate*	13.8	14.5	---	14.7
	95% C.I.	(9.3-22.5)	(9.6-21.3)	---	(11.0-19.6)
Native American	Incidence	2	3	0	5
	Rate*	---	---	---	---
	95% C.I.	---	---	---	---
Asian	Incidence	8	10	0	18
	Rate*	---	4.6	---	4.8
	95% C.I.	---	(2.0-13.6)	---	(2.8-10.2)
Hispanic	Incidence	29	18	0	47
	Rate*	15.0	6.9	---	9.9
	95% C.I.	(8.5-25.4)	(3.8-11.9)	---	(6.8-14.2)
Other/Unknown		1	2	0	3
Total	Incidence	502	449	0	951
	Rate*	12.2	9.8	---	10.8
	95% C.I.	(11.1-13.4)	(8.9-10.7)	---	(10.1-11.6)

Note: The "---" is used for rates calculated on numbers less than ten. *Rates are per 100,000 population and are age-adjusted to the 2001 US Standard population.

Table 238. Pancreatic Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001

Age Group	Gender			
	Male	Female	Other/ 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	1	3	0	4
Rate*	---	---	---	---
95% C.I.	---	---	---	---
35-44	14	9	0	23
Rate*	1.7	---	---	1.5
95% C.I.	(0.8-2.6)	---	---	(0.9-2.1)
45-54	66	36	0	102
Rate*	10.2	5.7	---	7.9
95% C.I.	(7.7-12.6)	(3.8-7.5)	---	(6.4-9.5)
55-64	113	97	0	210
Rate*	24.8	21.0	---	22.9
95% C.I.	(20.3-29.4)	(16.8-25.2)	---	(19.8-26.0)
65-74	177	127	0	304
Rate*	55.8	39.0	---	47.3
95% C.I.	(47.6-64.1)	(32.3-45.8)	---	(42.0-52.7)
75-84	101	145	0	246
Rate*	63.7	75.2	---	70.0
95% C.I.	(51.3-76.1)	(63.0-87.5)	---	(61.3-78.8)
85+	28	30	0	58
Rate*	113.1	58.3	---	76.1
95% C.I.	(71.2-155.1)	(37.4-79.1)	---	(56.5-95.7)
Unknown	0	0	0	0
Total	502	449	0	951
Rate*	10.1	9.4	---	9.8
95% C.I.	(9.3-11.0)	(8.5-10.2)	---	(9.1-10.4)

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

Table 239. Pancreatic Cancer Cases by Age Group and Stage, Nevada Residents, 1997-2001

Age Group		Stage					
		In situ	Localized	Regional	Distant	Unstaged	Total
<1	Number	0	0	0	0	0	0
	Percent	---	---	---	---	---	---
1-4	Number	0	0	0	0	0	0
	Percent	---	---	---	---	---	---
5-14	Number	0	0	1	0	0	1
	Percent	---	---	100.0%	---	---	100.0%
15-24	Number	0	1	1	1	0	3
	Percent	---	33.3%	33.3%	33.3%	---	100.0%
25-34	Number	0	0	2	0	2	4
	Percent	---	---	50.0%	---	50.0%	100.0%
35-44	Number	0	1	7	9	6	23
	Percent	---	4.3%	30.4%	39.1%	26.1%	100.0%
45-54	Number	0	6	33	35	28	102
	Percent	---	5.9%	32.4%	34.3%	27.5%	100.0%
55-64	Number	0	10	61	74	65	210
	Percent	---	4.8%	29.0%	35.2%	31.0%	100.0%
65-74	Number	0	25	86	88	105	304
	Percent	---	8.2%	28.3%	28.9%	34.5%	100.0%
75-84	Number	0	18	39	73	116	246
	Percent	---	7.3%	15.9%	29.7%	47.2%	100.0%
85+	Number	0	8	10	10	30	58
	Percent	---	13.8%	17.2%	17.2%	51.7%	100.0%
Unknown	Number	0	0	0	0	0	0
	Percent	---	---	---	---	---	---
Total	Number	0	69	240	290	352	951
	Percent	---	7.3%	25.2%	30.5%	37.0%	100.0%

Table 240. Pancreatic Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001

Stage		Race/Ethnicity						
		White	Black	Native American	Asian	Hispanic	Other/ Unknown	Total
In situ	Number	0	0	0	0	0	0	0
	Percent	---	---	---	---	---	---	---
Localized	Number	64	3	0	1	1	0	69
	Percent	7.8%	4.9%	---	5.6%	2.1%	---	7.3%
Regional	Number	203	16	2	6	13	0	240
	Percent	24.8%	26.2%	40.0%	33.3%	27.7%	---	25.2%
Distant	Number	247	20	0	4	18	1	290
	Percent	30.2%	32.8%	---	22.2%	38.3%	33.3%	30.5%
Unstaged	Number	303	22	3	7	15	2	352
	Percent	37.1%	36.1%	60.0%	38.9%	31.9%	66.7%	37.0%
Total	Number	817	61	5	18	47	3	951
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

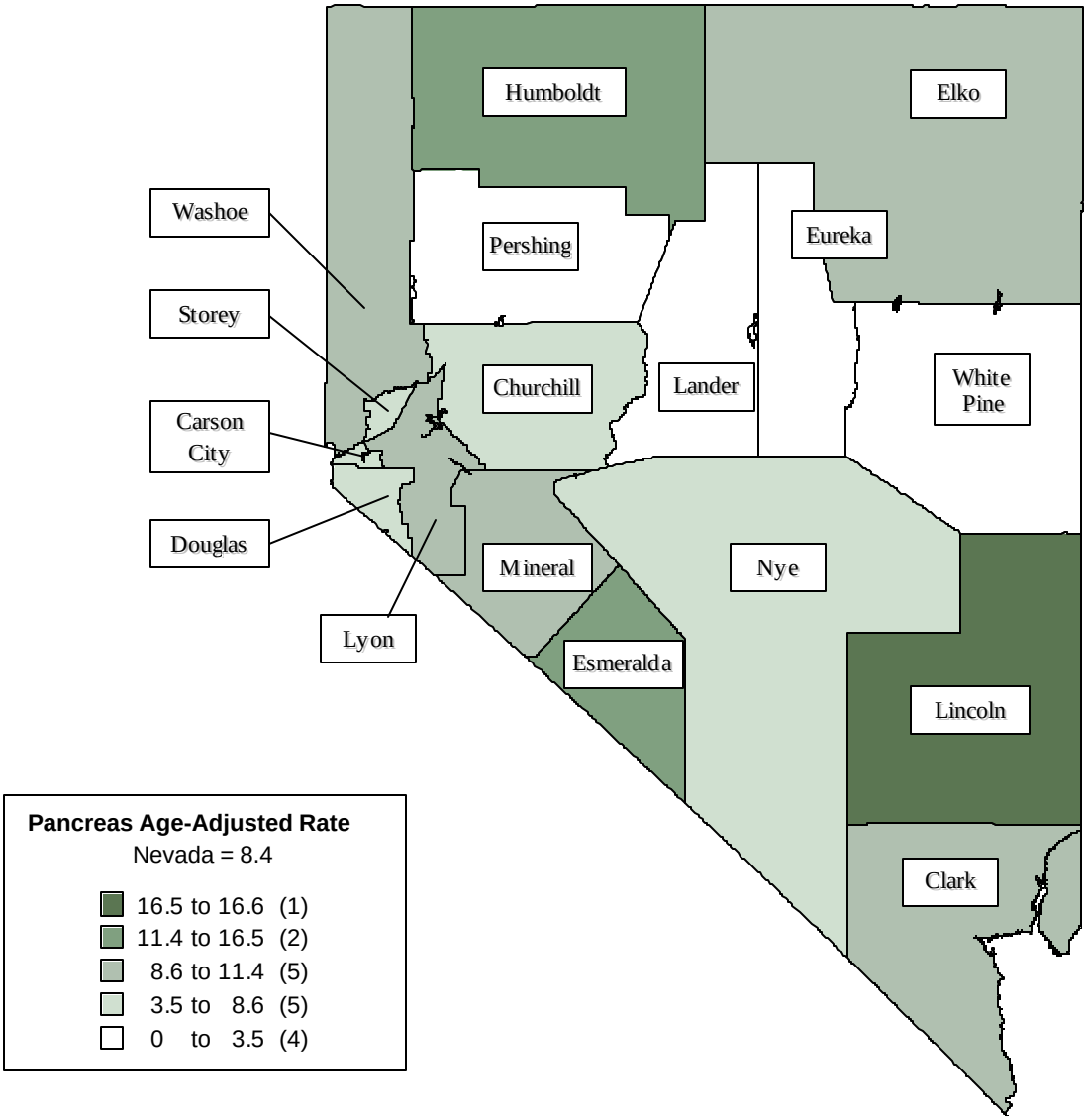
Table 241. Median Age at Diagnosis of Pancreatic Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity	Gender					
	Male		Female		Total	
	Incidence	Median Age	Incidence	Median Age	Incidence	Median Age
White	431	68.0	386	70.5	817	69.0
Black	31	67.0	30	69.5	61	67.0
Native American	2	---	3	---	5	67.0
Asian	8	65.0	10	73.0	18	69.0
Hispanic	29	66.0	18	70.0	47	66.0
Other/Unknown	1	---	2	---	3	---
Total	502	67.0	449	70.0	951	69.0

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 157. Pancreatic Cancer Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001



Note: Rates are per 100,000 population and age-adjusted to 2001 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 158. Pancreatic Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001

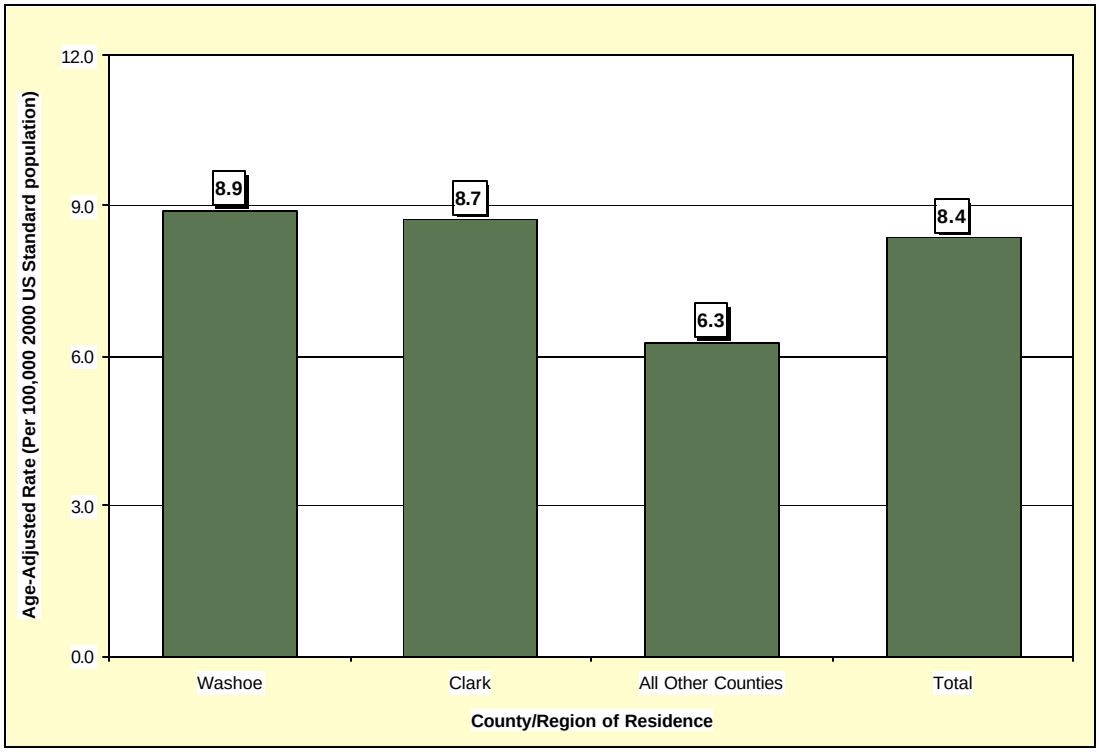


Figure 159. Median Charges for Pancreatic Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001

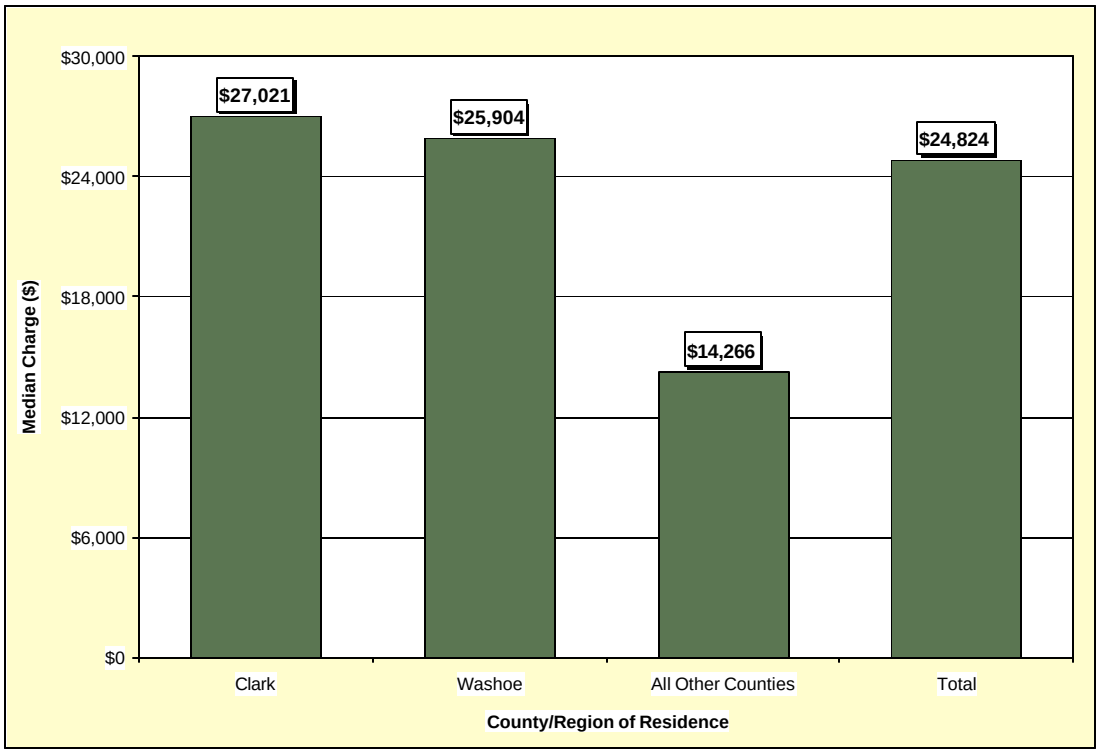


Figure 160. Average Length of Stay for Pancreatic Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001

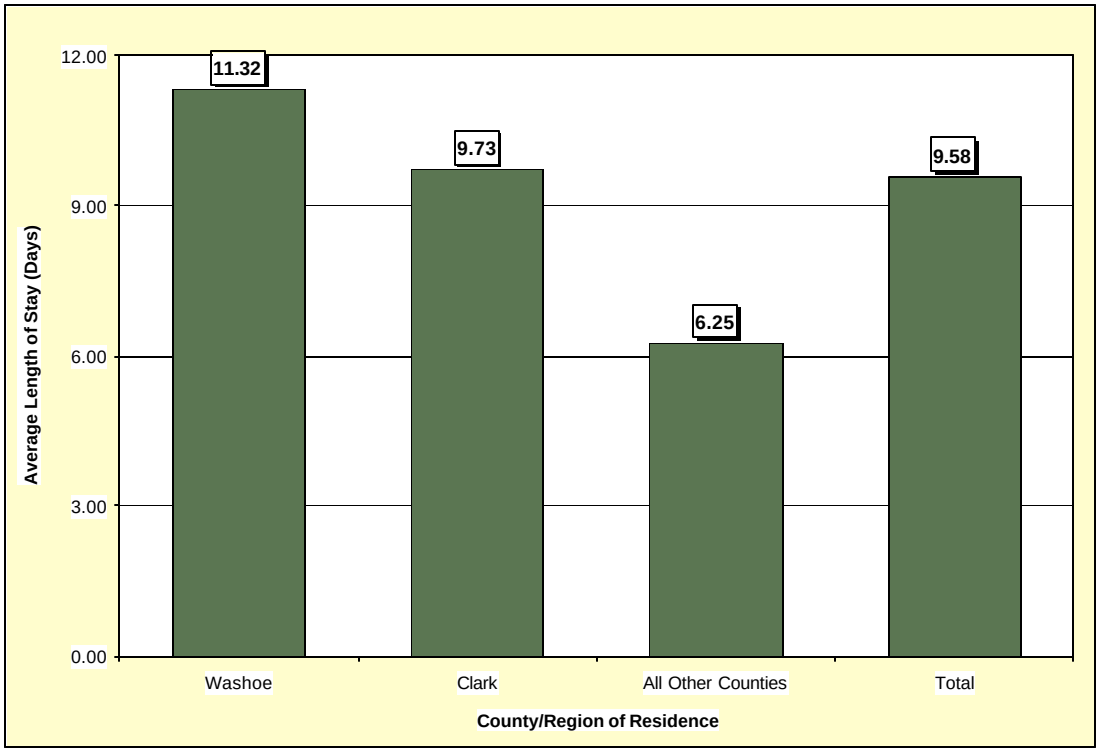


Table 242. Pancreatic Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence				
	Nevada Total	Clark	Washoe	All Other Counties	Unknown
Total					
Discharges	741	518	132	91	0
Rate*	8.4	8.7	8.9	6.3	---
95% C.I.	(7.8-9.0)	(8.0-9.5)	(7.4-10.6)	(5.0-7.8)	---
Gender					
Male	390	279	57	54	0
Rate*	9.2	9.8	8.0	7.9	---
95% C.I.	(8.2-10.3)	(8.6-11.3)	(6.0-10.7)	(5.8-10.8)	---
Female	351	239	75	37	0
Rate*	7.6	7.8	9.5	4.9	---
95% C.I.	(6.8-8.5)	(6.8-8.8)	(7.5-12.0)	(3.4-6.8)	---
Other/Unknown	0	0	0	0	0
Inpatient Discharge Charges ($)					
Total Charges	$29,859,856	$22,193,207	$5,715,771	$1,950,878	---
Average Charges	$40,297	$42,844	$43,301	$21,438	---
Median Charges	$24,824	$27,021	$25,904	$14,266	---
Discharge Length of Stay (LOS) (Days)					
Total LOS	7,101	5,038	1,494	569	---
Average LOS	9.6	9.7	11.3	6.3	---
Median LOS	7.0	7.0	9.5	5.0	---

* Rates are per 100,000 population and are age-adjusted to the 2001 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 243. Pancreatic Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence				
	Nevada Total	Clark	Washoe	All Other Counties	Unknown
Total					
Discharges	741	518	132	91	0
Rate*	7.6	7.8	7.9	6.5	---
95% C.I.	(7.1-8.2)	(7.1-8.4)	(6.5-9.2)	(5.2-7.8)	---
Age Group					
<1	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
1-4	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
5-14	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
15-24	4	4	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
25-34	5	3	2	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
35-44	17	11	5	1	0
Rate*	1.1	1.1	---	---	---
95% C.I.	(0.6-1.6)	(0.4-1.7)	---	---	---
45-54	85	64	13	8	0
Rate*	6.6	7.6	5.5	---	---
95% C.I.	(5.2-8.0)	(5.7-9.4)	(2.5-8.5)	---	---
55-64	166	112	30	24	0
Rate*	18.1	18.0	20.0	16.0	---
95% C.I.	(15.4-20.9)	(14.7-21.4)	(12.8-27.1)	(9.6-22.4)	---
65-74	254	181	42	31	0
Rate*	39.5	41.8	41.0	30.2	---
95% C.I.	(34.7-44.4)	(35.8-47.9)	(28.6-53.4)	(19.6-40.9)	---
75-84	167	118	30	19	0
Rate*	47.5	50.5	51.9	32.9	---
95% C.I.	(40.3-54.8)	(41.4-59.6)	(33.3-70.4)	(18.1-47.6)	---
85+	43	25	10	8	0
Rate*	56.4	53.5	64.5	---	---
95% C.I.	(39.5-73.3)	(32.6-74.5)	(24.5-104.4)	---	---
Unknown	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. 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 244. Pancreatic Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001

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	3	1	4
Rate*	---	---	---
95% C.I.	---	---	---
25-34	3	2	5
Rate*	---	---	---
95% C.I.	---	---	---
35-44	9	8	17
Rate*	---	---	1.1
95% C.I.	---	---	(0.6-1.6)
45-54	57	28	85
Rate*	8.8	4.4	6.6
95% C.I.	(6.5-11.0)	(2.8-6.1)	(5.2-8.0)
55-64	92	74	166
Rate*	20.2	16.0	18.1
95% C.I.	(16.1-24.4)	(12.4-19.7)	(15.4-20.9)
65-74	145	109	254
Rate*	45.7	33.5	39.5
95% C.I.	(38.3-53.2)	(27.2-39.8)	(34.7-44.4)
75-84	62	105	167
Rate*	39.1	54.5	47.5
95% C.I.	(29.4-48.8)	(44.1-64.9)	(40.3-54.8)
85+	19	24	43
Rate*	76.8	46.6	56.4
95% C.I.	(42.3-111.3)	(28.0-65.3)	(39.5-73.3)
Unknown	0	0	0
Total	390	351	741
Rate*	7.9	7.3	7.6
95% C.I.	(7.1-8.7)	(6.6-8.1)	(7.1-8.2)

* 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 245. Pancreatic Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001

County of Residence	1997-2001 Inpatient Hospital Discharges				
	Number	Rate*		Age-Adjusted Rate**	
		Rate	95% C.I.	Rate	95% C.I.
Carson City	11	4.4	(1.8-7.0)	3.6	(1.8-6.7)
Churchill	7	---	---	---	---
Clark	518	7.8	(7.1-8.4)	8.7	(8.0-9.5)
Douglas	14	6.8	(3.3-10.4)	6.1	(3.2-11.3)
Elko	9	---	---	---	---
Esmeralda	1	---	---	---	---
Eureka	0	---	---	---	---
Humboldt	8	---	---	---	---
Lander	0	---	---	---	---
Lincoln	3	---	---	---	---
Lyon	16	9.4	(4.8-14.0)	8.7	(4.9-14.7)
Mineral	3	---	---	---	---
Nye	17	10.8	(5.7-16.0)	7.3	(4.2-13.1)
Pershing	0	---	---	---	---
Storey	1	---	---	---	---
Washoe	132	7.9	(6.5-9.2)	8.9	(7.4-10.6)
White Pine	1	---	---	---	---
Unknown	0	---	---	---	---
Total	741	7.6	(7.1-8.2)	8.4	(7.8-9.0)

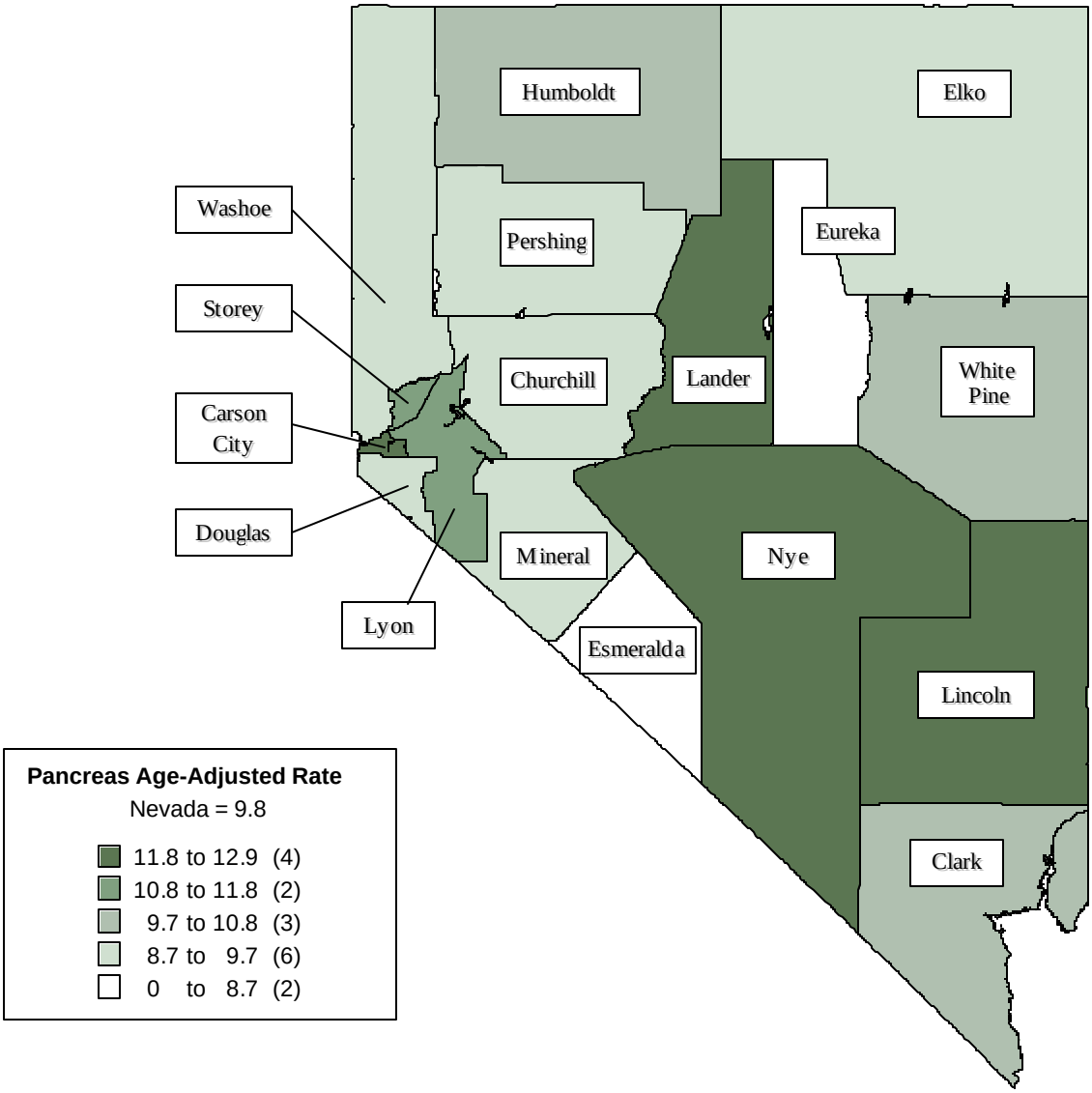
Note: The "---" is used for rates calculated on numbers less than ten. *Rates are per 100,000 population. **Rates are per 100,000 population and are age-adjusted to the 2001 US Standard population.

Table 246. Pancreatic Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001

Age Group	Discharges	Charges ($)			Length of Stay (Days)		
		Total	Average	Median	Total	Average	Median
<1	0	---	---	---	---	---	---
1-4	0	---	---	---	---	---	---
5-14	0	---	---	---	---	---	---
15-24	4	---	---	---	---	---	---
25-34	5	212,989	42,598	17,232	53	10.6	7.0
35-44	17	1,370,490	80,617	43,760	237	13.9	8.0
45-54	85	3,337,046	39,259	26,167	789	9.3	7.0
55-64	166	7,258,277	43,725	27,733	1,707	10.3	7.0
65-74	254	10,385,416	40,887	23,996	2,394	9.4	7.0
75-84	167	5,877,206	35,193	23,432	1,526	9.1	7.0
85+	43	1,111,018	25,838	16,374	316	7.3	6.0
Unknown	0	---	---	---	---	---	---
Total	741	515,178	708	37,747	92	708.0	9.4

MORTALITY

Figure 161. Pancreatic Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001



Note: Rates are per 100,000 population and age-adjusted to 2001 US Standard population. Caution should be used when interpreting rates based upon small numbers. See Technical notes for more information.

Figure 162. Pancreatic Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001

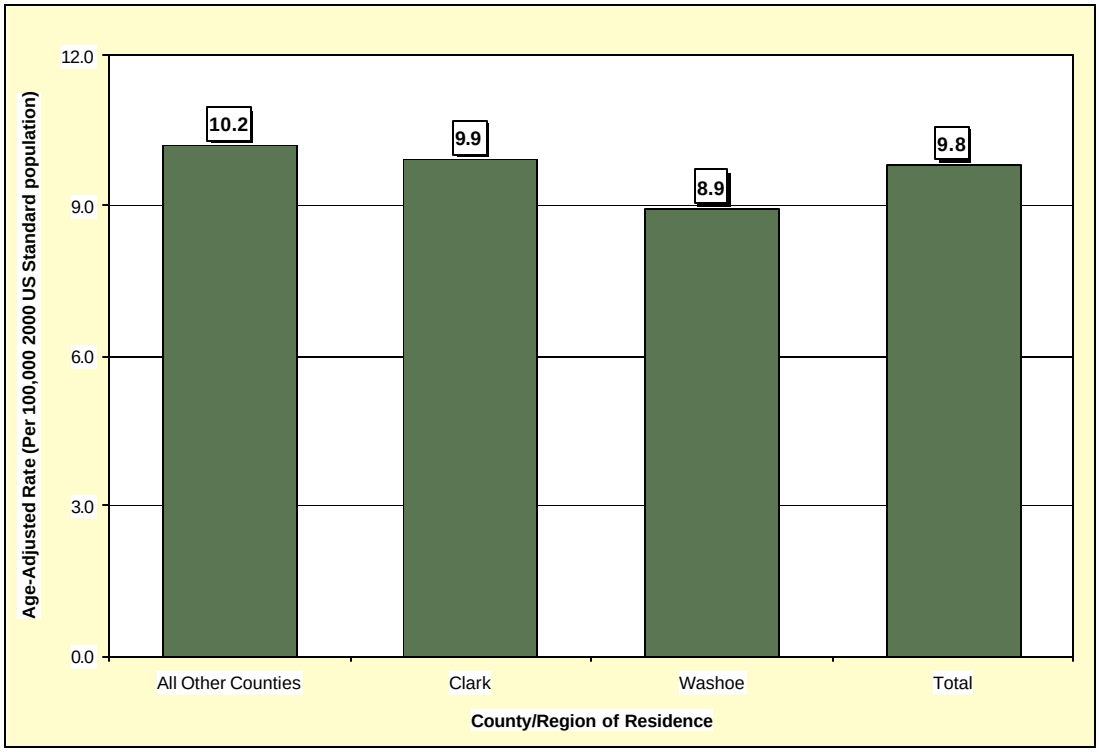


Figure 163. Pancreatic Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001

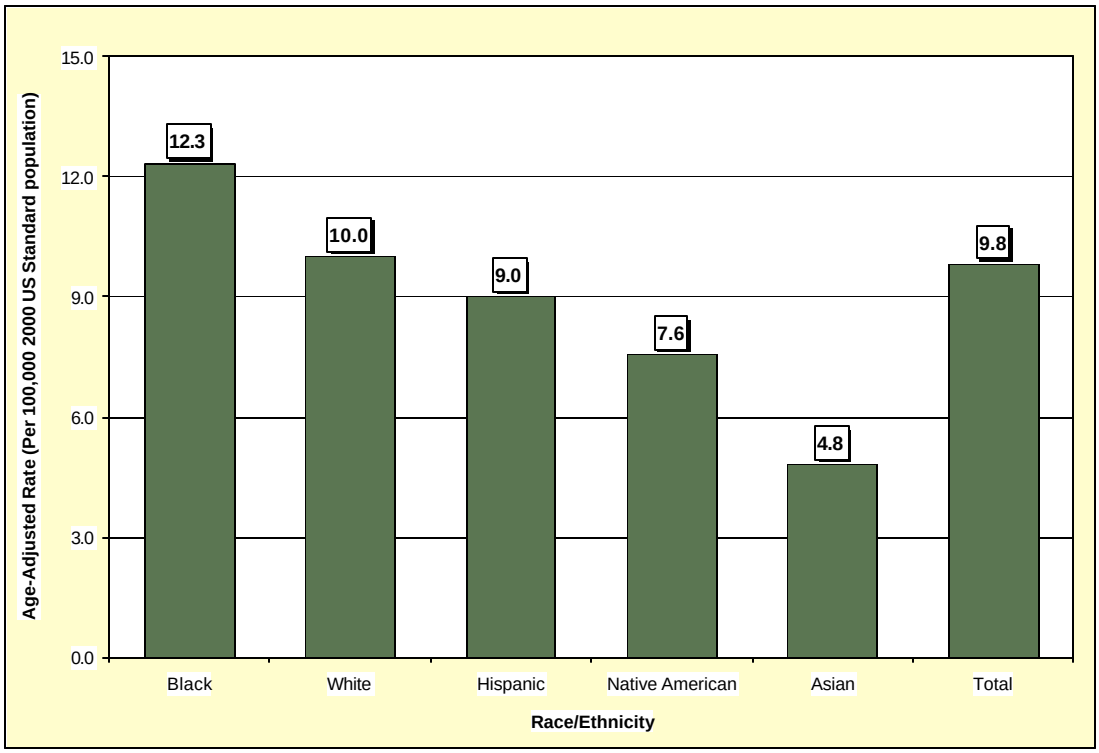


Table 247. Pancreatic Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence			
	Nevada Total	Clark	Washoe	All Other Counties
Total				
Mortality	845	572	127	146
Rate*	9.8	9.9	8.9	10.2
95% C.I.	(9.1-10.5)	(9.1-10.8)	(7.4-10.7)	(8.6-12.1)
Gender				
Male	419	283	58	78
Rate*	10.5	10.6	8.8	11.7
95% C.I.	(9.4-11.7)	(9.3-12.2)	(6.6-11.7)	(9.1-15.0)
Female	426	289	69	68
Rate*	9.3	9.5	8.9	9.1
95% C.I.	(8.5-10.3)	(8.4-10.7)	(6.9-11.3)	(7.0-11.6)
Other/Unknown	0	0	0	0
Race/Ethnicity				
White	726	474	116	136
Rate*	10.0	10.1	9.2	10.3
95% C.I.	(9.3-10.8)	(9.2-11.1)	(7.6-11.1)	(8.6-12.2)
Black	50	47	2	1
Rate*	12.3	12.6	---	---
95% C.I.	(8.9-17.0)	(9.0-17.6)	---	---
Native American	7	2	2	3
Rate*	---	---	---	---
95% C.I.	---	---	---	---
Asian	17	15	0	2
Rate*	4.8	5.3	---	---
95% C.I.	(2.7-10.2)	(2.9-12.3)	---	---
Hispanic	42	31	7	4
Rate*	9.0	8.4	---	---
95% C.I.	(6.0-13.2)	(5.2-13.3)	---	---
Other/Unknown	3	3	0	0

*Rates are per 100,000 population and are age-adjusted to the 2001 US Standard population.
Note: The "---" is used for rates calculated on numbers less than ten.

Table 248. Pancreatic Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence			
	Nevada Total	Clark	Washoe	All Other Counties
Total				
Mortality	845	572	127	146
Rate*	8.7	8.6	7.6	10.4
95% C.I.	(8.1-9.3)	(7.9-9.3)	(6.3-8.9)	(8.8-12.1)
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	1	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
25-34	4	2	1	1
Rate*	---	---	---	---
95% C.I.	---	---	---	---
35-44	11	8	3	0
Rate*	0.7	---	---	---
95% C.I.	(0.3-1.1)	---	---	---
45-54	77	57	10	10
Rate*	6.0	6.7	4.2	5.0
95% C.I.	(4.7-7.3)	(5.0-8.5)	(1.6-6.9)	(1.9-8.1)
55-64	169	121	22	26
Rate*	18.4	19.5	14.7	18.0
95% C.I.	(15.7-21.2)	(16.0-22.9)	(8.5-20.8)	(11.1-24.9)
65-74	281	189	38	54
Rate*	43.8	43.7	37.1	50.4
95% C.I.	(38.6-48.9)	(37.5-49.9)	(25.3-48.9)	(36.9-63.8)
75-84	237	155	39	43
Rate*	67.5	66.4	67.4	71.8
95% C.I.	(58.9-76.1)	(55.9-76.8)	(46.3-88.6)	(50.3-93.2)
85+	65	39	14	12
Rate*	85.3	83.5	90.3	85.5
95% C.I.	(64.5-106.0)	(57.3-109.7)	(43.0-137.6)	(37.1-133.9)
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.

Table 249. Pancreatic Cancer Mortality by County of Residence, Nevada Residents, 1997-2001

County of Residence	1997-2001 Mortality				
	Cases	Rate*		Age-Adjusted Rate**	
		Rate	95% C.I.	Rate	95% C.I.
Carson City	35	14.1	(9.4-18.7)	11.8	(8.2-16.6)
Churchill	10	8.3	(3.2-13.4)	8.8	(4.2-16.8)
Clark	572	8.6	(7.9-9.3)	9.9	(9.1-10.8)
Douglas	22	10.7	(6.2-15.2)	9.3	(5.7-14.9)
Elko	9	---	---	---	---
Esmeralda	0	---	---	---	---
Eureka	0	---	---	---	---
Humboldt	5	---	---	---	---
Lander	2	---	---	---	---
Lincoln	3	---	---	---	---
Lyon	20	11.8	(6.6-16.9)	10.8	(6.5-17.4)
Mineral	3	---	---	---	---
Nye	27	17.2	(10.7-23.7)	11.9	(7.7-18.7)
Pershing	2	---	---	---	---
Storey	3	---	---	---	---
Washoe	127	7.6	(6.3-8.9)	8.9	(7.4-10.7)
White Pine	5	---	---	---	---
Unknown	0	---	---	---	---
Total	845	8.7	(8.1-9.3)	9.8	(9.1-10.5)

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 2001 US Standard population.

Table 250. Pancreatic Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity		Gender		
		Male	Female	Total
White	Mortality	363	363	726
	Rate*	10.7	9.5	10.0
	95% C.I.	(9.5-12.0)	(8.5-10.5)	(9.3-10.8)
Black	Mortality	24	26	50
	Rate*	11.0	12.6	12.3
	95% C.I.	(6.9-19.3)	(8.1-19.2)	(8.9-17.0)
Native American	Mortality	5	2	7
	Rate*	---	---	---
	95% C.I.	---	---	---
Asian	Mortality	4	13	17
	Rate*	---	6.8	4.8
	95% C.I.	---	(3.4-16.2)	(2.7-10.2)
Hispanic	Mortality	22	20	42
	Rate*	12.6	7.3	9.0
	95% C.I.	(6.5-22.9)	(4.2-12.3)	(6.0-13.2)
Other/Unknown		1	2	3
Total	Mortality	419	426	845
	Rate*	10.5	9.3	9.8
	95% C.I.	(9.4-11.7)	(8.5-10.3)	(9.1-10.5)

Note: The "---" is used for rates calculated on numbers less than ten. *Rates are per 100,000 population and are age-adjusted to the 2001 US Standard population.

Table 251. Pancreatic Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001

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	1	0	1
Rate*	---	---	---
95% C.I.	---	---	---
25-34	1	3	4
Rate*	---	---	---
95% C.I.	---	---	---
35-44	3	8	11
Rate*	---	---	0.7
95% C.I.	---	---	(0.3-1.1)
45-54	49	28	77
Rate*	7.5	4.4	6.0
95% C.I.	(5.4-9.6)	(2.8-6.1)	(4.7-7.3)
55-64	87	82	169
Rate*	19.1	17.8	18.4
95% C.I.	(15.1-23.1)	(13.9-21.6)	(15.7-21.2)
65-74	156	125	281
Rate*	49.2	38.4	43.8
95% C.I.	(41.5-56.9)	(31.7-45.2)	(38.6-48.9)
75-84	93	144	237
Rate*	58.7	74.7	67.5
95% C.I.	(46.7-70.6)	(62.5-86.9)	(58.9-76.1)
85+	29	36	65
Rate*	117.2	69.9	85.3
95% C.I.	(74.5-159.8)	(47.1-92.8)	(64.5-106.0)
Unknown	0	0	0
Total	419	426	845
Rate*	8.5	8.9	8.7
95% C.I.	(7.7-9.3)	(8.1-9.7)	(8.1-9.3)

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

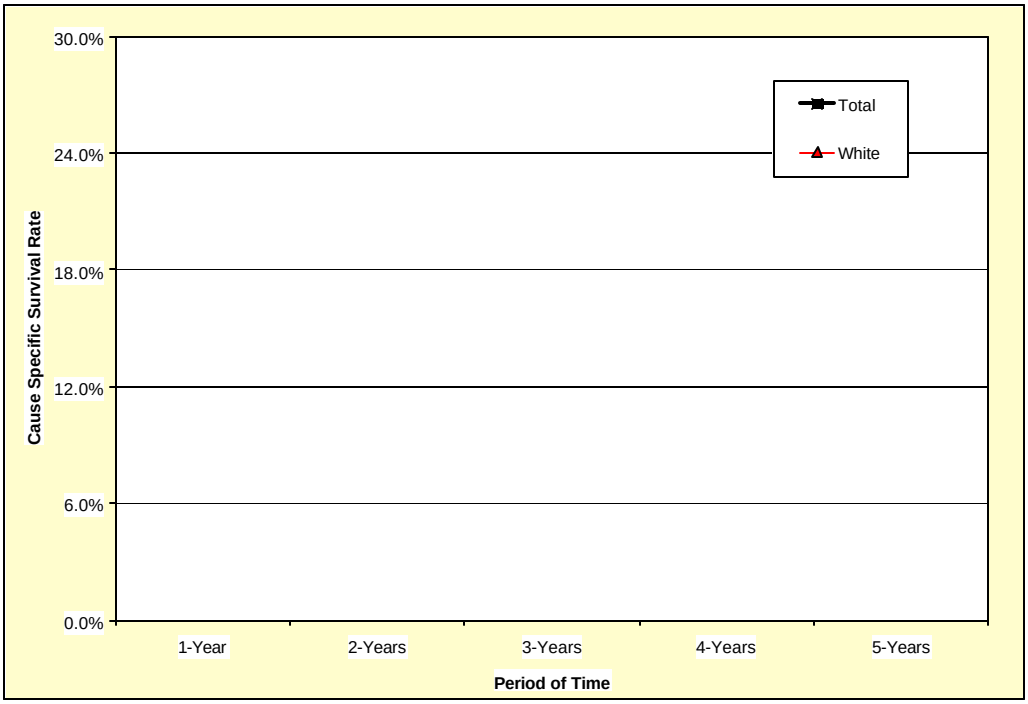
Table 252. Median Age at Death from Pancreatic Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity	Gender					
	Male		Female		Total	
	Deaths	Median Age	Deaths	Median Age	Deaths	Median Age
White	363	70.0	363	72.0	726	71.0
Black	24	67.0	26	69.5	50	68.0
Native American	5	68.0	2	---	7	68.0
Asian	4	---	13	68.0	17	68.0
Hispanic	22	65.5	20	70.5	42	68.0
Other/Unknown	1	---	2	---	3	---
Total	419	69.0	426	72.0	845	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.

SURVIVAL RATE

Figure 164. Survival Rates for Pancreatic Cancer by Race/Ethnicity, Nevada Residents, 1997-2001



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

Figure 165. Survival Rates for Pancreatic Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001

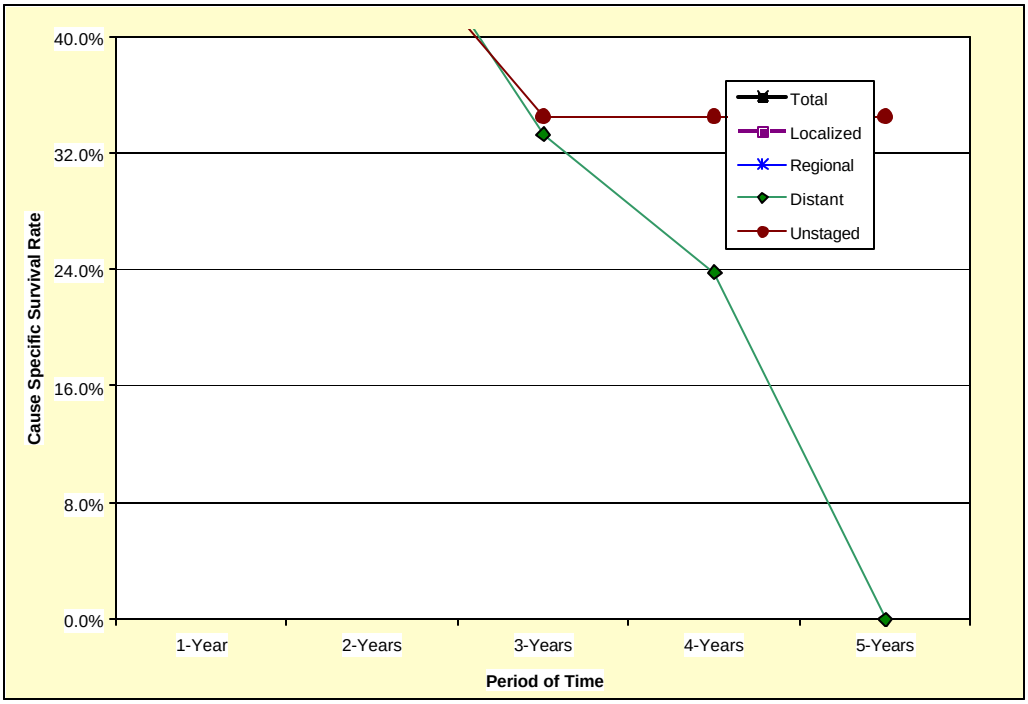


Table 253. Cause-Specific Survival Rates for Pancreatic Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

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	632	37.8%	21.9%	14.6%	14.6%	14.6%	0.80
Male	359	37.4%	21.6%	13.4%	13.4%	13.4%	0.80
Female	273	38.3%	22.3%	15.9%	15.9%	15.9%	0.81
Race/Ethnicity							
White	545	37.0%	21.3%	13.4%	13.4%	13.4%	0.79
Male	305	36.9%	21.2%	12.3%	12.3%	12.3%	0.79
Female	240	37.1%	21.3%	14.6%	14.6%	14.6%	0.80
Black	39	---	---	---	---	---	---
Male	23	---	---	---	---	---	---
Female	16	---	---	---	---	---	---
Native American	3	---	---	---	---	---	---
Male	1	---	---	---	---	---	---
Female	2	---	---	---	---	---	---
Asian	11	---	---	---	---	---	---
Male	6	---	---	---	---	---	---
Female	5	---	---	---	---	---	---
Hispanic	31	---	---	---	---	---	---
Male	23	---	---	---	---	---	---
Female	8	---	---	---	---	---	---

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 254. Cause-Specific Survival Rates for Pancreatic Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001

Survival Rate of Stage at Diagnosis		Gender		
		Total	Male	Female
Total	Cases	632	359	273
	One Year	37.8%	37.4%	38.3%
	5 Years	14.6%	13.4%	15.9%
	Median Survival	0.80	0.80	0.81
Stage at Diagnosis				
In situ	Cases	0	0	0
	One Year	---	---	---
	5 Years	---	---	---
	Median Survival	---	---	---
Localized	Cases	44	27	17
	One Year	---	---	---
	5 Years	---	---	---
	Median Survival	---	---	---
Regional	Cases	181	107	74
	One Year	43.8%	40.1%	49.2%
	5 Years	15.9%	14.7%	17.2%
	Median Survival	0.89	0.83	0.98
Distant	Cases	193	109	84
	One Year	36.8%	35.2%	38.9%
	5 Years	16.7%	---	15.6%
	Median Survival	0.79	0.77	0.82
Unstaged	Cases	214	116	98
	One Year	30.3%	34.8%	25.6%
	5 Years	---	---	---
	Median Survival	0.72	0.77	0.67

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.