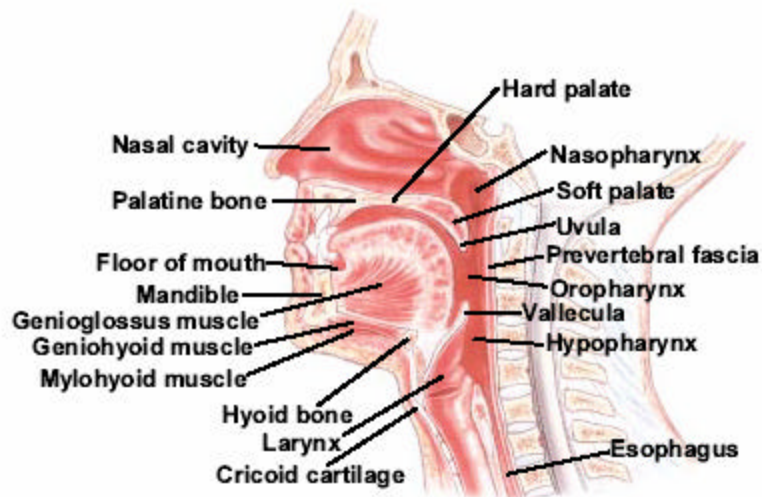


LIP, ORAL CAVITY AND PHARYNX CANCER

LIP, ORAL CAVITY AND PHARYNX CANCER

GENERAL PROFILE⁴

Figure 140. Anatomy of the Oral Cavity⁵



General Anatomy: The oral cavity includes many parts: the lips; the lining inside the lips and cheeks, called the buccal mucosa; the teeth; the bottom (floor) of the mouth under the tongue; the front two-thirds of the tongue; the bony top of the mouth (hard palate); the gums; and the small area behind the wisdom teeth. The oropharynx includes the back one-third of the tongue, the soft palate, the tonsils, and the part of the throat behind the mouth. Salivary glands throughout the oral cavity make saliva, which keeps the mouth moist and helps digest food.

Risk Factors: Tobacco use (especially smokeless tobacco), chronic and/or heavy alcohol use, sun exposure (Lip), history of leukoplakia (whitish patch inside the mouth associated with tobacco use), and erythroplakia (reddish patches usually in those over 60 years old)

Signs and Symptoms: Oral cancer usually occurs in people over the age of 45 but can develop at any age. These are some symptoms to watch for: A sore on the lip or in the mouth that does not heal, a lump on the lip or in the mouth or throat, a white or red patch on the gums, tongue, or lining of the mouth, unusual bleeding, pain, or numbness in the mouth, a sore throat that does not go away, or a feeling that something is caught in the throat, difficulty or pain with chewing or swallowing, swelling of the jaw that causes dentures to fit poorly or become uncomfortable, a change in the voice, and/or, pain in the ear.

Diagnosing the Cancer: Health exam, dental x-rays, head and chest x-rays, computed tomography (CAT) scan, ultrasonography, magnetic resonance imaging (MRI).

Treatment: Surgery, radiation therapy, chemotherapy, and clinical trials.

HIGHLIGHTS

- The ratio of the age-adjusted incidence rate, 10.6, to the age-adjusted mortality rate, 2.5 (per 100,000 – 2000 US Standard population), for Lip, Oral Cavity and Pharynx Cancer was 4.24 during the 1996 to 2001 period, which means that for every 4.24 cases of Lip, Oral Cavity and Pharynx Cancer there was one death for this type of cancer in Nevada during this period.
- Nevadan males had a higher ratio than females when the age-adjusted incidence and age-adjusted mortality rates for Lip, Oral Cavity and Pharynx Cancer were compared. For every male death due to this type of cancer there were 4.89 male cases, while there were 3.60 female cases for every female death due to Lip, Oral Cavity and Pharynx Cancer from 1997 to 2001.
- The median age at diagnosis of Lip, Oral Cavity and Pharynx Cancer for Nevada residents was 62 years of age from 1997 to 2001 while the median age for males and females was 62 and 65 years, respectively. The median age at time of death due to Lip, Oral Cavity and Pharynx Cancer was 67 years statewide, 65.5 years of age for males and 72 years of age for females.

INCIDENCE

- Nevada's age-adjusted incidence rate for Lip, Oral Cavity and Pharynx Cancer (10.6) was only slightly lower than the National rate of 10.7 (per 100,000 – 2000 US Standard population) from 1997 to 2001.
- The statistically significant age-adjusted incidence rate for male Lip, Oral Cavity and Pharynx Cancer, 15.3 (14.1-16.6), was more than double the rate for females, 6.3 (5.6-7.1), per 100,000 – 2000 US Standard population, during the 1997 to 2001 period.
- While regional comparisons showed that Washoe County's age-adjusted incidence rate for Lip, Oral Cavity and Pharynx Cancer (11.5) was higher than the rate for Clark County (10.7) and All Other Counties (9.6) (per 100,000 – 2000 US Standard population) from 1997 to 2001, these differences were not statistically significant.
- Whites had the highest age-adjusted incidence rate of all racial/ethnic groups at 11.7, and were followed by Blacks, Hispanics and Asians with rates of 9.4, 4.6 and 4.1 (per 100,000 – 2000 US Standard population), respectively.

INPATIENT HOSPITAL DISCHARGES

- There were 526 Lip, Oral Cavity and Pharynx Cancer inpatient discharges in Nevada from 1997 to 2001. The statistically significant age-adjusted inpatient discharge rate for males, 7.6 (6.8-8.5), was twice the inpatient discharge rate for females, 3.6 (3.1-4.2) (per 100,000 – 2000 US Standard population), in Nevada during this period.

- Total billed charges for hospital inpatient discharges from Lip, Oral Cavity and Pharynx Cancer in Nevada totaled over 18.3 million dollars from 1997 to 2001. Clark County had the highest median total charge (\$34,388), and also had the longest average length of stay (7.7 days) during this time period.
- The overall average billed charge per day for an inpatient hospital discharge for Lip, Oral Cavity, and Pharynx Cancer in Nevada was nearly \$4,643 from 1997 to 2001.

MORTALITY

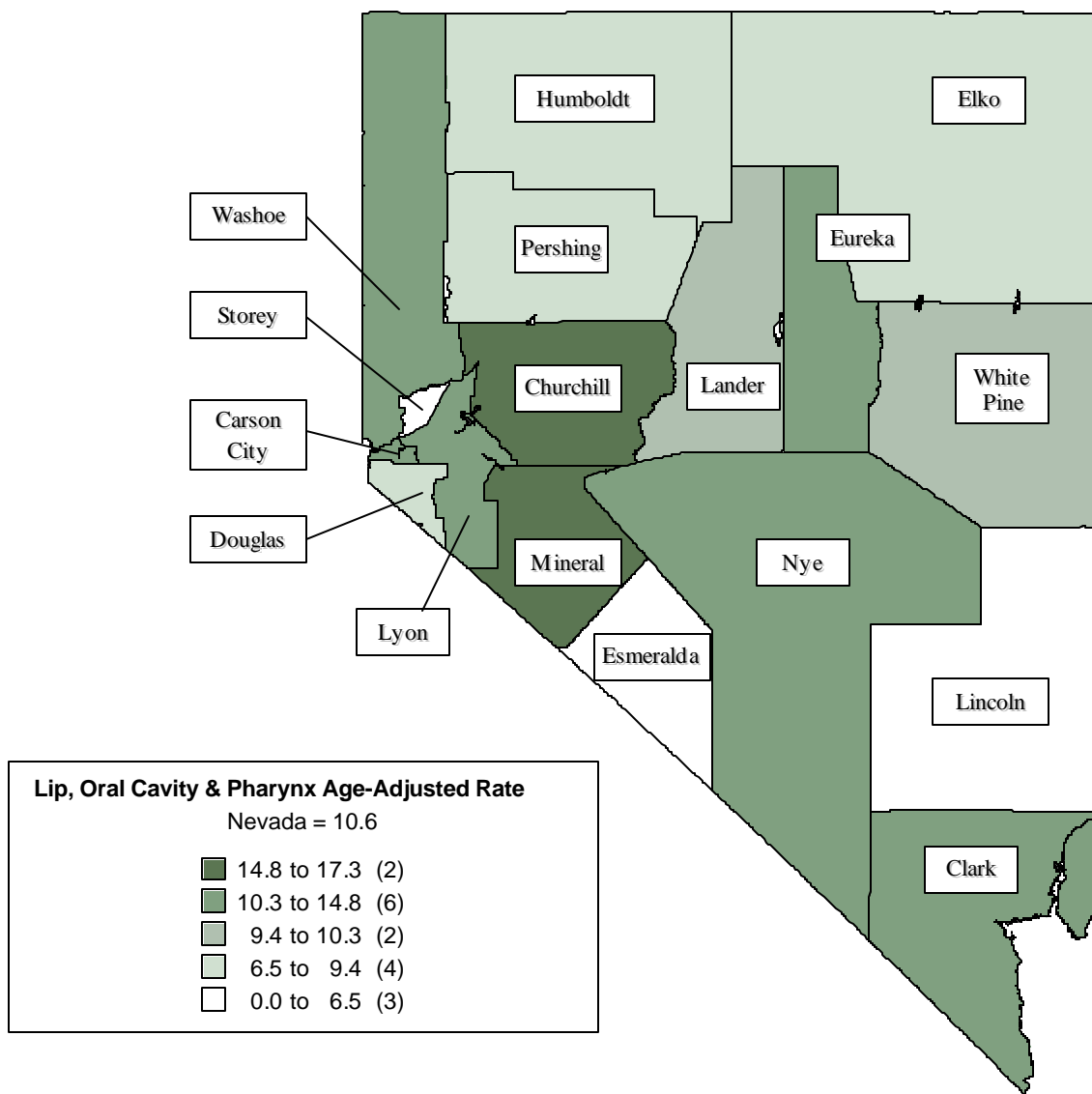
- There were 225 deaths due to Lip, Oral Cavity and Pharynx Cancer in Nevada from 1997 to 2001. While age-adjusted mortality rates were higher in All Other Counties (2.9) and Clark County (2.5), compared to Washoe County (2.3), statistical analysis shows that there is not a statistically significant difference between the three regions.
- Males had a statistically significant higher age-adjusted mortality rate due to Lip, Oral Cavity and Pharynx Cancer, 3.2 (2.7-3.9), than their female counterparts, 1.8 (1.5-2.3) (per 100,000 – 2000 US Standard population), during the 1997 to 2001 period.

SURVIVAL RATE

- Females in Nevada had a slightly higher one- and five year survival rate (78.7% and 53.5%) than males (78.5% and 47.6%) for Lip, Oral Cavity and Pharynx Cancer during the 1997 to 2001 period. Females median survival time was greater than the survival time for males at over five years and 3.73 years, respectively.
- The one-year survival rate for those diagnosed with Lip, Oral Cavity and Pharynx Cancer at the localized stage was 86.9%, while those diagnosed at the regional, distant and unstaged stages had rates of 81.6%, 63.8% and 66.4%, respectively.
- The five-year survival rate for Lip, Oral Cavity and Pharynx Cancer with those at the localized stage was 64.7%, and was followed by those at the regional stage with rates of 49.2%.
- The median survival time for those diagnosed with Lip, Oral Cavity and Pharynx Cancer at the localized and regional stage was over five years, while those diagnosed at the unstaged levels had median survival times of 1.23 years.

INCIDENCE

Figure 141. Lip, Oral Cavity and Pharynx 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 142. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001

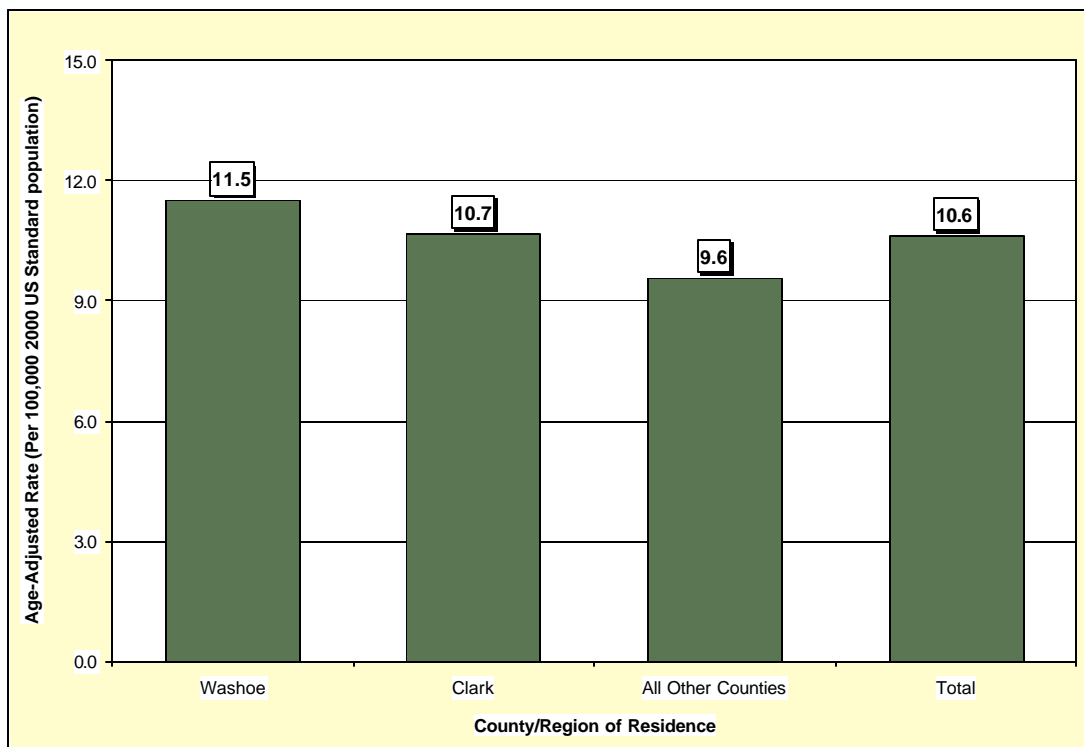


Figure 143. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001

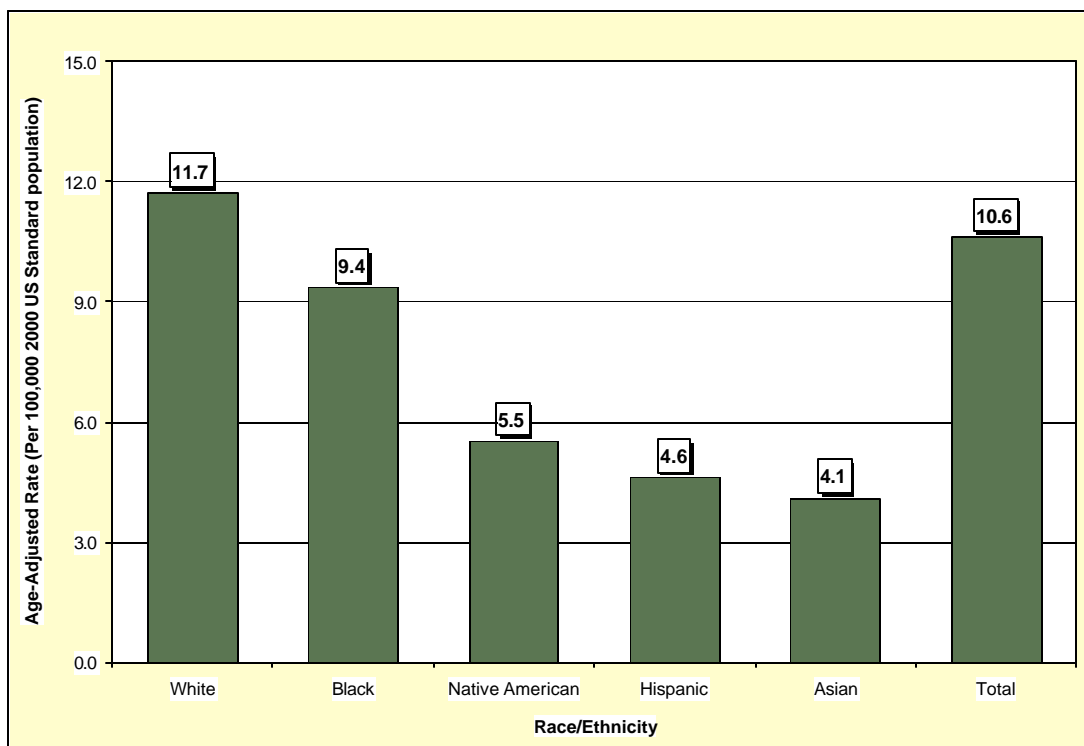


Table 213. Lip, Oral Cavity and Pharynx Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001)

Category	County/Region of Residence					SEER 11 (1997-2001)
	Nevada Total	Clark	Washoe	All Other Counties	Unknown	
Total						
Cases	994	670	180	143	1	18,668
Rate*	10.6	10.7	11.5	9.6	---	10.7
95% C.I.	(10.0-11.3)	(9.9-11.6)	(9.9-13.4)	(8.1-11.3)	---	(10.5-10.8)
Gender						
Male	695	472	119	104	0	12,452
Rate*	15.3	15.6	15.7	13.9	---	15.7
95% C.I.	(14.1-16.6)	(14.1-17.3)	(12.9-19.2)	(11.3-17.2)	---	(15.5-16.0)
Female	299	198	61	39	1	6,216
Rate*	6.3	6.2	7.6	5.3	---	6.4
95% C.I.	(5.6-7.1)	(5.4-7.2)	(5.8-9.8)	(3.7-7.2)	---	(6.3-6.6)
Other/Unknown	0	0	0	0	0	0
Race/Ethnicity						
White	887	596	157	133	1	14,890
Rate*	11.7	12.3	11.6	10.0	---	10.7
95% C.I.	(11.0-12.5)	(11.3-13.3)	(9.9-13.7)	(8.3-11.9)	---	(10.5-10.8)
Black	42	32	8	2	0	1,888
Rate*	9.4	7.8	---	---	---	11.9
95% C.I.	(6.6-13.3)	(5.2-11.8)	---	---	---	(11.3-12.4)
Native American	5	1	3	1	0	121
Rate*	---	---	---	---	---	6.8
95% C.I.	---	---	---	---	---	(5.6-5.6)
Asian	13	9	4	0	0	1,618
Rate*	4.1	---	---	---	---	8.7
95% C.I.	(1.6-10.2)	---	---	---	---	(8.3-9.1)
Hispanic	35	20	8	7	0	1,190
Rate*	4.6	3.3	---	---	---	6.4
95% C.I.	(3.0-7.3)	(1.8-6.4)	---	---	---	(6.0-6.8)
Other/Unknown	12	12	0	0	0	151

* 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 214. Lip, Oral Cavity and Pharynx 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					SEER 11 (1997-2001)
	Nevada Total	Clark	Washoe	All Other Counties	Unknown	
Total						
Cases	994	670	180	143	1	18,668
Rate*	10.2	10.1	10.7	10.2	---	10.1
95% C.I.	(9.6-10.8)	(9.3-10.8)	(9.2-12.3)	(8.6-11.9)	---	(9.9-10.2)
Age Group						
<1	0	0	0	0	0	---
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
1-4	0	0	0	0	0	6
Rate*	---	---	---	---	---	---
95% C.I.	---	---	---	---	---	---
5-14	4	3	0	1	0	48
Rate*	---	---	---	---	---	0.2
95% C.I.	---	---	---	---	---	(0.1-0.2)
15-24	4	2	1	1	0	129
Rate*	---	---	---	---	---	0.5
95% C.I.	---	---	---	---	---	(0.4-0.6)
25-34	17	8	3	6	0	461
Rate*	1.2	---	---	---	---	1.6
95% C.I.	(0.6-1.7)	---	---	---	---	(1.4-1.7)
35-44	57	41	11	5	0	1,463
Rate*	3.7	3.9	3.9	---	---	4.7
95% C.I.	(2.7-4.6)	(2.7-5.1)	(1.6-6.2)	---	---	(4.4-4.9)
45-54	172	109	33	30	0	3,657
Rate*	13.4	12.9	14.0	14.9	---	16.0
95% C.I.	(11.4-15.4)	(10.5-15.3)	(9.2-18.7)	(9.6-20.3)	---	(15.5-16.5)
55-64	312	217	53	42	0	4,159
Rate*	34.1	34.9	35.3	29.1	---	29.7
95% C.I.	(30.3-37.8)	(30.3-39.6)	(25.8-44.8)	(20.3-37.9)	---	(28.8-30.6)
65-74	273	192	46	34	1	4,494
Rate*	42.5	44.4	44.9	31.7	---	39.0
95% C.I.	(37.5-47.6)	(38.1-50.7)	(31.9-57.8)	(21.1-42.4)	---	(37.8-40.1)
75-84	124	79	24	21	0	3,223
Rate*	35.3	33.8	41.5	35.1	---	44.3
95% C.I.	(29.1-41.5)	(26.4-41.3)	(24.9-58.1)	(20.1-50.1)	---	(42.8-45.9)
85+	30	19	8	3	0	1,025
Rate*	39.4	40.7	---	---	---	41.3
95% C.I.	(25.3-53.4)	(22.4-59.0)	---	---	---	(38.8-43.9)
Unknown	1	0	1	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 215. Lip, Oral Cavity and Pharynx 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	31	12.4	(8.1-16.8)	10.8	(7.3-15.5)
Churchill	20	16.6	(9.3-23.8)	17.3	(10.5-27.3)
Clark	670	10.1	(9.3-10.8)	10.7	(9.9-11.6)
Douglas	19	9.3	(5.1-13.4)	7.2	(4.3-12.1)
Elko	10	4.3	(1.6-7.0)	7.7	(3.2-16.1)
Esmeralda	0	---	---	---	---
Eureka	1	---	---	---	---
Humboldt	5	---	---	---	---
Lander	3	---	---	---	---
Lincoln	0	---	---	---	---
Lyon	22	12.9	(7.5-18.3)	11.1	(6.9-17.4)
Mineral	4	---	---	---	---
Nye	21	13.4	(7.6-19.1)	10.3	(6.2-17.2)
Pershing	2	---	---	---	---
Storey	0	---	---	---	---
Washoe	180	10.7	(9.2-12.3)	11.5	(9.9-13.4)
White Pine	5	---	---	---	---
Unknown	1	---	---	---	---
Total	994	10.2	(9.6-10.8)	10.6	(10.0-11.3)

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 216. Lip, Oral Cavity and Pharynx Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity		Gender			
		Male	Female	Other/Unknown	Total
White	Incidence	617	270	0	887
	Rate*	16.6	7.1	---	11.7
	95% C.I.	(15.2-18.0)	(6.2-8.0)	---	(11.0-12.5)
Black	Incidence	29	13	0	42
	Rate*	14.9	5.2	---	9.4
	95% C.I.	(9.3-24.7)	(2.7-9.6)	---	(6.6-13.3)
Native American	Incidence	4	1	0	5
	Rate*	---	---	---	---
	95% C.I.	---	---	---	---
Asian	Incidence	12	1	0	13
	Rate*	9.1	---	---	4.1
	95% C.I.	(3.4-23.0)	---	---	(1.6-10.2)
Hispanic	Incidence	22	13	0	35
	Rate*	6.9	2.8	---	4.6
	95% C.I.	(3.9-13.5)	(1.4-6.0)	---	(3.0-7.3)
Other/Unknown	Incidence	11	1	0	12
Total	Incidence	695	299	0	994
	Rate*	15.3	6.3	---	10.6
	95% C.I.	(14.1-16.6)	(5.6-7.1)	---	(10.0-11.3)

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 217. Lip, Oral Cavity and Pharynx 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	3	1	0	4
Rate*	---	---	---	---
95% C.I.	---	---	---	---
15-24	1	3	0	4
Rate*	---	---	---	---
95% C.I.	---	---	---	---
25-34	11	6	0	17
Rate*	1.4	---	---	1.2
95% C.I.	(0.6-2.3)	---	---	(0.6-1.7)
35-44	37	20	0	57
Rate*	4.6	2.7	---	3.7
95% C.I.	(3.1-6.1)	(1.5-3.8)	---	(2.7-4.6)
45-54	131	41	0	172
Rate*	20.2	6.5	---	13.4
95% C.I.	(16.7-23.6)	(4.5-8.5)	---	(11.4-15.4)
55-64	243	69	0	312
Rate*	53.4	15.0	---	34.1
95% C.I.	(46.7-60.1)	(11.4-18.5)	---	(30.3-37.8)
65-74	185	88	0	273
Rate*	58.4	27.1	---	42.5
95% C.I.	(50.0-66.8)	(21.4-32.7)	---	(37.5-47.6)
75-84	64	60	0	124
Rate*	40.4	31.1	---	35.3
95% C.I.	(30.5-50.3)	(23.3-39.0)	---	(29.1-41.5)
85+	19	11	0	30
Rate*	76.8	21.4	---	39.4
95% C.I.	(42.3-111.3)	(8.7-34.0)	---	(25.3-53.4)
Unknown	1	0	0	1
Total	695	299	0	994
Rate*	14.0	6.2	---	10.2
95% C.I.	(13.0-15.1)	(5.5-7.0)	---	(9.6-10.8)

* Rates are per 100,000 age-specific population.

Note: The "----" is used for rates calculated on numbers less than ten.

Table 218. Lip, Oral Cavity and Pharynx Cancer Cases by Age Group and Stage, Nevada Residents, 1997-2001

Age Group		Stage					Total
		In situ	Localized	Regional	Distant	Unstaged	
<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	3	4
	Percent	---	---	25.0%	---	75.0%	100.0%
15-24	Number	0	2	1	1	0	4
	Percent	---	50.0%	25.0%	25.0%	---	100.0%
25-34	Number	0	7	5	3	2	17
	Percent	---	41.2%	29.4%	17.6%	11.8%	100.0%
35-44	Number	0	24	22	4	7	57
	Percent	---	42.1%	38.6%	7.0%	12.3%	100.0%
45-54	Number	0	50	75	13	34	172
	Percent	---	29.1%	43.6%	7.6%	19.8%	100.0%
55-64	Number	0	88	122	33	69	312
	Percent	---	28.2%	39.1%	10.6%	22.1%	100.0%
65-74	Number	0	100	100	21	52	273
	Percent	---	36.6%	36.6%	7.7%	19.0%	100.0%
75-84	Number	0	41	35	13	35	124
	Percent	---	33.1%	28.2%	10.5%	28.2%	100.0%
85+	Number	0	9	11	2	8	30
	Percent	---	30.0%	36.7%	6.7%	26.7%	100.0%
Unknown	Number	0	1	0	0	0	1
	Percent	---	100.0%	---	---	---	100.0%
Total	Number	0	322	372	90	210	994
	Percent	---	32.4%	37.4%	9.1%	21.1%	100.0%

Table 219. Lip, Oral Cavity and Pharynx Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001

Stage		Race/Ethnicity						Total
		White	Black	Native American	Asian	Hispanic	Other/Unknown	
In situ	Number	0	0	0	0	0	0	0
	Percent	---	---	---	---	---	---	---
Localized	Number	290	14	2	4	9	3	322
	Percent	32.7%	33.3%	40.0%	30.8%	25.7%	25.0%	32.4%
Regional	Number	329	17	1	5	16	4	372
	Percent	37.1%	40.5%	20.0%	38.5%	45.7%	33.3%	37.4%
Distant	Number	79	5	1	2	3	0	90
	Percent	8.9%	11.9%	20.0%	15.4%	8.6%	---	9.1%
Unstaged	Number	189	6	1	2	7	5	210
	Percent	21.3%	14.3%	20.0%	15.4%	20.0%	41.7%	21.1%
Total	Number	887	42	5	13	35	12	994
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

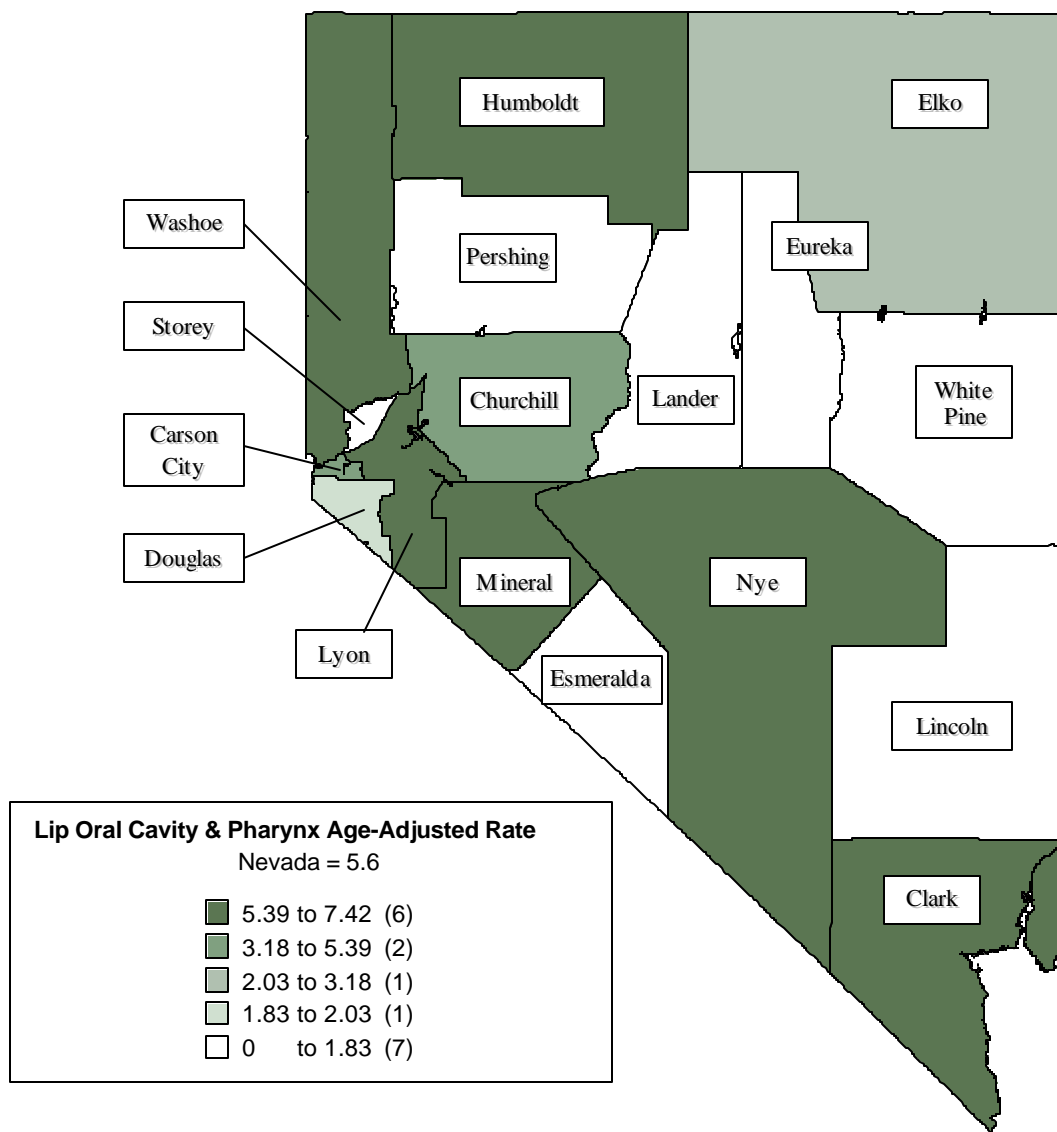
Table 220. Median Age at Diagnosis of Lip, Oral Cavity and Pharynx Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity	Gender					
	Male		Female		Total	
	Incidence	Median Age	Incidence	Median Age	Incidence	Median Age
White	616	61.0	270	66.0	886	62.0
Black	29	63.0	13	62.0	42	62.0
Native American	4	---	1	---	5	61.0
Asian	12	64.5	1	---	13	66.0
Hispanic	22	61.0	13	54.0	35	56.0
Other/Unknown	11	66.0	1	---	12	65.0
Total	694	62.0	299	65.0	993	62.0

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 144. Lip, Oral Cavity and Pharynx 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 145. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001

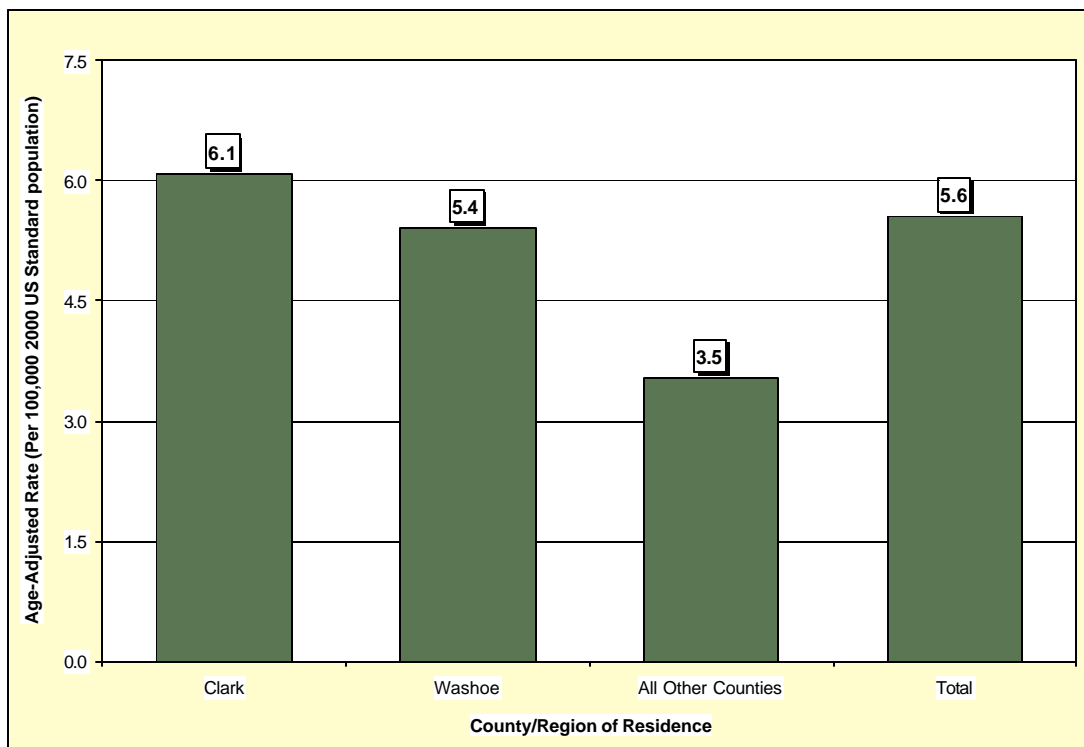


Figure 146. Median Charges for Lip, Oral Cavity and Pharynx Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001

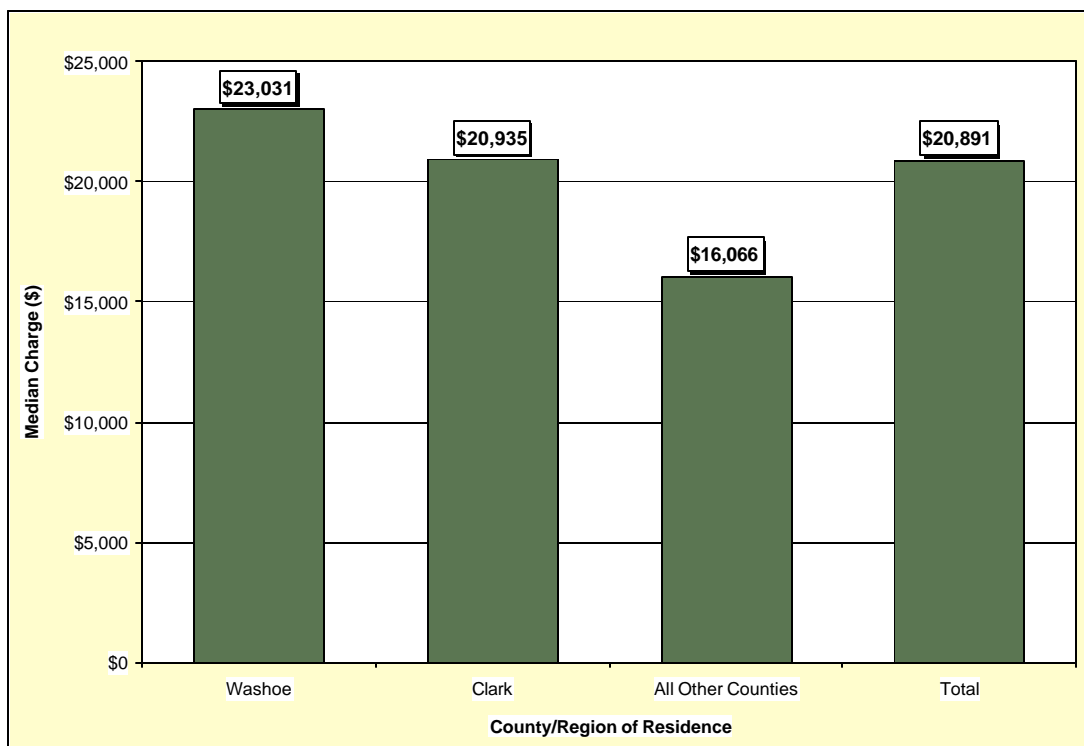


Figure 147. Average Length of Stay for Lip, Oral Cavity and Pharynx Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001

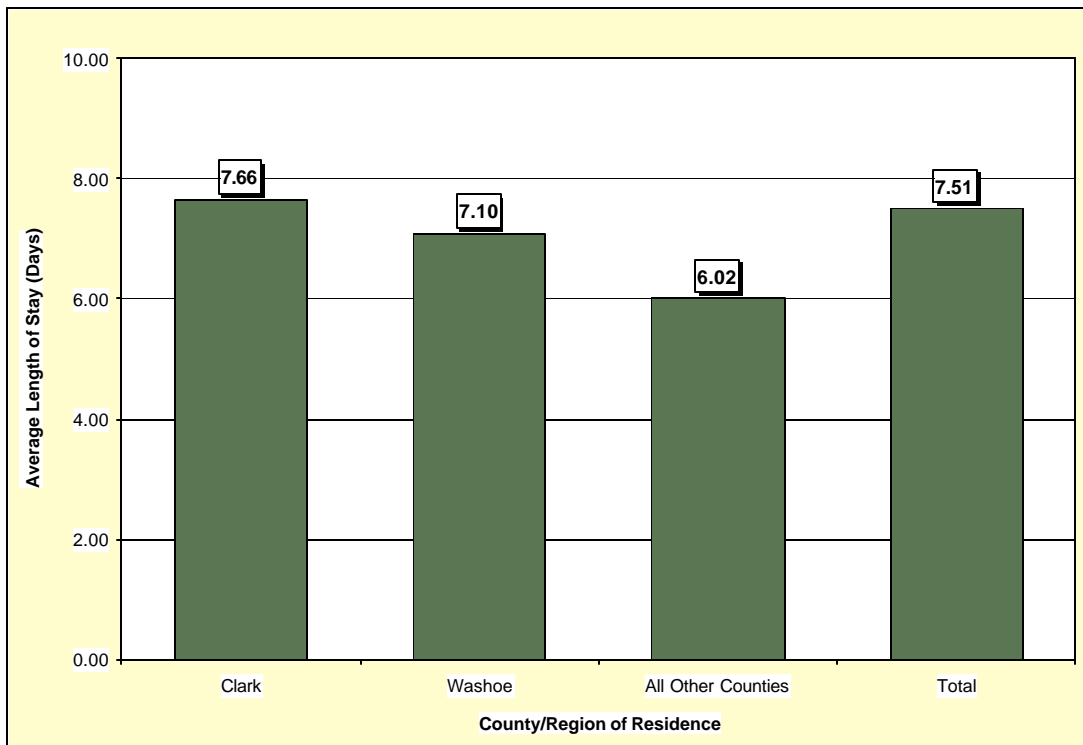


Table 221. Lip, Oral Cavity and Pharynx Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence				
	Nevada Total	Clark	Washoe	All Other Counties	Unknown
Total					
Discharges	526	387	84	54	1
Rate*	5.6	6.1	5.4	3.5	---
95% C.I.	(5.1-6.1)	(5.5-6.8)	(4.3-6.8)	(2.6-4.7)	---
Gender					
Male	352	265	49	37	1
Rate*	7.6	8.6	6.3	5.0	---
95% C.I.	(6.8-8.5)	(7.5-9.9)	(4.6-8.6)	(3.4-7.2)	---
Female	174	122	35	17	0
Rate*	3.6	3.8	4.4	2.2	---
95% C.I.	(3.1-4.2)	(3.1-4.6)	(3.1-6.2)	(1.3-3.6)	---
Other/Unknown	0	0	0	0	0
Inpatient Discharge Charges (\$)					
Total Charges	\$18,319,594	\$13,308,001	\$2,742,849	\$1,702,357	\$566,387
Average Charges	\$34,828	\$34,388	\$32,653	\$31,525	\$566,387
Median Charges	\$20,891	\$20,935	\$23,031	\$16,066	\$566,387
Discharge Length of Stay (LOS) (Days)					
Total LOS	3,951	2,964	596	325	66
Average LOS	7.5	7.7	7.1	6.0	66.0
Median LOS	4.0	4.0	5.0	3.5	66.0

* 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 222. Lip, Oral Cavity and Pharynx 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	526	387	84	54	1
Rate*	5.4	5.8	5.0	3.9	---
95% C.I.	(4.9-5.9)	(5.2-6.4)	(3.9-6.1)	(2.8-4.9)	---
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	1	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
15-24	0	0	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
25-34	4	4	0	0	0
Rate*	---	---	---	---	---
95% C.I.	---	---	---	---	---
35-44	27	21	4	2	0
Rate*	1.7	2.0	---	---	---
95% C.I.	(1.1-2.4)	(1.1-2.9)	---	---	---
45-54	85	67	8	10	0
Rate*	6.6	7.9	---	4.2	---
95% C.I.	(5.2-8.0)	(6.0-9.8)	---	(1.6-6.9)	---
55-64	181	132	25	23	1
Rate*	19.8	21.2	16.7	15.3	---
95% C.I.	(16.9-22.6)	(17.6-24.9)	(10.1-23.2)	(9.1-21.6)	---
65-74	155	113	30	12	0
Rate*	24.1	26.1	29.3	11.7	---
95% C.I.	(20.3-27.9)	(21.3-30.9)	(18.8-39.7)	(5.1-18.3)	---
75-84	62	41	16	5	0
Rate*	17.6	17.6	27.7	---	---
95% C.I.	(13.3-22.0)	(12.2-22.9)	(14.1-41.2)	---	---
85+	11	8	1	2	0
Rate*	14.4	---	---	---	---
95% C.I.	(5.9-23.0)	---	---	---	---
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 223. Lip, Oral Cavity and Pharynx 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	1	0	1
Rate*	---	---	---
95% C.I.	---	---	---
15-24	0	0	0
Rate*	---	---	---
95% C.I.	---	---	---
25-34	1	3	4
Rate*	---	---	---
95% C.I.	---	---	---
35-44	19	8	27
Rate*	2.4	---	1.7
95% C.I.	(1.3-3.4)	---	(1.1-2.4)
45-54	66	19	85
Rate*	10.2	3.0	6.6
95% C.I.	(7.7-12.6)	(1.7-4.3)	(5.2-8.0)
55-64	140	41	181
Rate*	30.8	8.9	19.8
95% C.I.	(25.7-35.9)	(6.2-11.6)	(16.9-22.6)
65-74	93	62	155
Rate*	29.3	19.1	24.1
95% C.I.	(23.4-35.3)	(14.3-23.8)	(20.3-27.9)
75-84	24	38	62
Rate*	15.1	19.7	17.6
95% C.I.	(9.1-21.2)	(13.4-26.0)	(13.3-22.0)
85+	8	3	11
Rate*	---	---	14.4
95% C.I.	---	---	(5.9-23.0)
Unknown	0	0	0
Total	352	174	526
Rate*	7.1	3.6	5.4
95% C.I.	(6.4-7.9)	(3.1-4.2)	(4.9-5.9)

* 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 224. Lip, Oral Cavity and Pharynx 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	9	---	---	---	---
Churchill	4	---	---	---	---
Clark	387	5.8	(5.2-6.4)	6.1	(5.5-6.8)
Douglas	5	---	---	---	---
Elko	3	---	---	---	---
Esmeralda	0	---	---	---	---
Eureka	0	---	---	---	---
Humboldt	5	---	---	---	---
Lander	0	---	---	---	---
Lincoln	0	---	---	---	---
Lyon	11	6.5	(2.6-10.3)	5.4	(2.7-10.3)
Mineral	2	---	---	---	---
Nye	15	9.5	(4.7-14.4)	7.3	(3.9-13.5)
Pershing	0	---	---	---	---
Storey	0	---	---	---	---
Washoe	84	5.0	(3.9-6.1)	5.4	(4.3-6.8)
White Pine	0	---	---	---	---
Unknown	1	---	---	---	---
Total	526	5.4	(4.9-5.9)	5.6	(5.1-6.1)

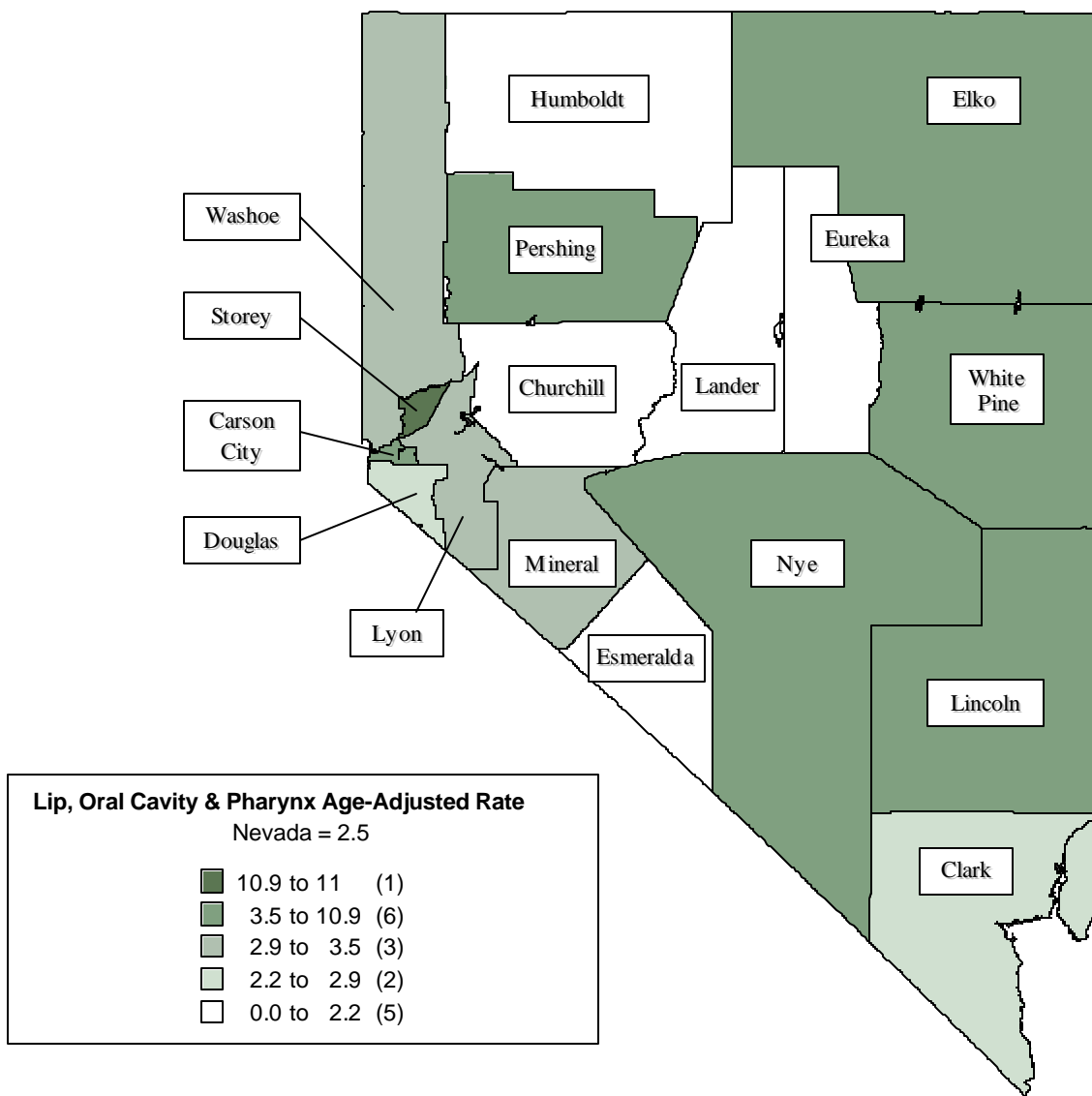
Note: The "----" is used for rates calculated on numbers less than ten. *Rates are per 100,000 population. **Rates are per 100,000 population and are age-adjusted to the 2001 US Standard population.

Table 225. Lip, Oral Cavity and Pharynx 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	1	---	---	---	---	---	---
15-24	0	---	---	---	---	---	---
25-34	4	---	---	---	---	---	---
35-44	27	681,766	25,251	17,785	116	4.3	3.0
45-54	85	2,270,755	26,715	21,283	559	6.6	4.0
55-64	181	7,579,784	41,877	22,047	1,744	9.6	5.0
65-74	155	5,217,946	33,664	20,948	997	6.4	4.0
75-84	62	1,990,007	32,097	18,724	414	6.7	4.0
85+	11	304,879	27,716	19,252	62	5.6	5.0
Unknown	0	---	---	---	---	---	---
Total	526	566,387	505	33,790	134	505.0	7.6

MORTALITY

Figure 148. Lip, Oral Cavity and Pharynx 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 149. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001

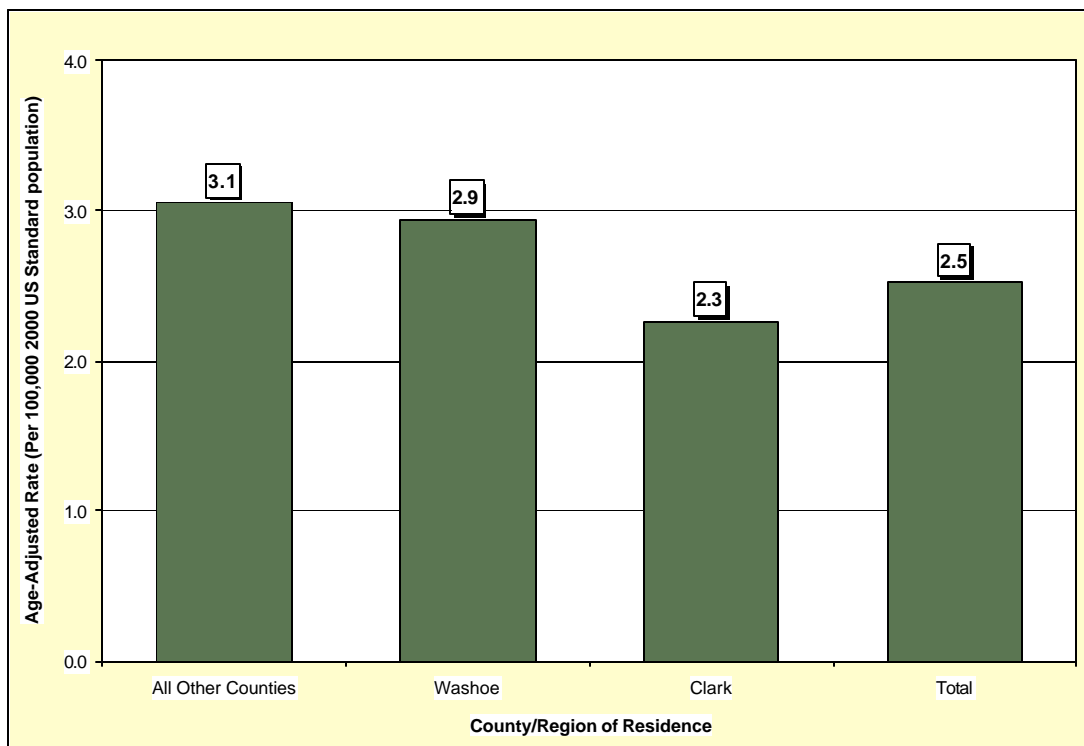


Figure 150. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001

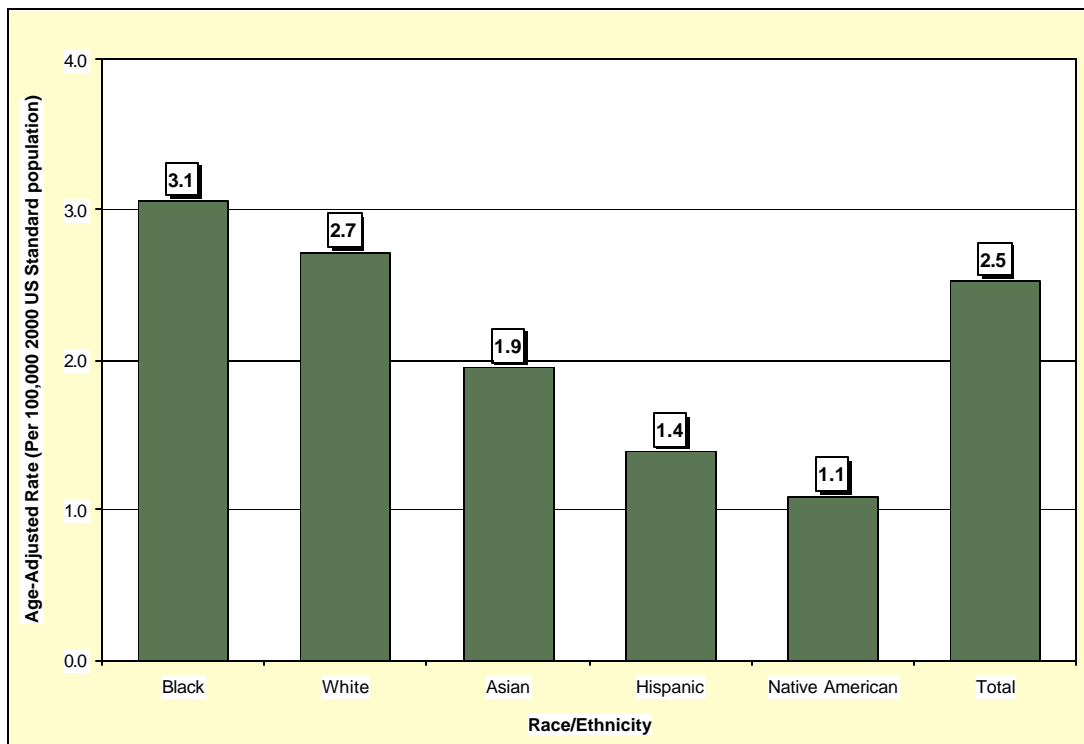


Table 226. Lip, Oral Cavity and Pharynx Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001

Category	County/Region of Residence			
	Nevada Total	Clark	Washoe	All Other Counties
Total				
Mortality	225	137	43	45
Rate*	2.5	2.3	2.9	3.1
95% C.I.	(2.2-2.9)	(1.9-2.7)	(2.1-4.0)	(2.2-4.2)
Gender				
Male	142	84	23	35
Rate*	3.2	2.9	3.0	4.7
95% C.I.	(2.7-3.9)	(2.3-3.8)	(1.9-4.9)	(3.2-6.9)
Female	83	53	20	10
Rate*	1.8	1.7	2.6	1.4
95% C.I.	(1.5-2.3)	(1.3-2.3)	(1.6-4.1)	(0.7-2.6)
Other/Unknown	0	0	0	0
Race/Ethnicity				
White	201	119	38	44
Rate*	2.7	2.5	3.0	3.3
95% C.I.	(2.3-3.1)	(2.0-3.0)	(2.1-4.1)	(2.4-4.5)
Black	13	11	2	0
Rate*	3.1	2.7	---	---
95% C.I.	(1.6-5.9)	(1.3-5.7)	---	---
Native American	1	0	1	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
Asian	3	2	1	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
Hispanic	7	5	1	1
Rate*	---	---	---	---
95% C.I.	---	---	---	---
Other/Unknown	0	0	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 227. Lip, Oral Cavity and Pharynx 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	225	137	43	45
Rate*	2.3	2.1	2.6	3.2
95% C.I.	(2.0-2.6)	(1.7-2.4)	(1.8-3.3)	(2.3-4.2)
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	1	1	0	0
Rate*	---	---	---	---
95% C.I.	---	---	---	---
35-44	6	4	1	1
Rate*	---	---	---	---
95% C.I.	---	---	---	---
45-54	26	13	7	6
Rate*	2.0	1.5	---	---
95% C.I.	(1.2-2.8)	(0.7-2.4)	---	---
55-64	60	39	10	11
Rate*	6.5	6.3	6.7	7.6
95% C.I.	(4.9-8.2)	(4.3-8.2)	(2.5-10.8)	(3.1-12.1)
65-74	66	39	11	16
Rate*	10.3	9.0	10.7	14.9
95% C.I.	(7.8-12.8)	(6.2-11.8)	(4.4-17.1)	(7.6-22.2)
75-84	53	36	9	8
Rate*	15.1	15.4	---	---
95% C.I.	(11.0-19.1)	(10.4-20.4)	---	---
85+	12	4	5	3
Rate*	15.7	---	---	---
95% C.I.	(6.8-24.6)	---	---	---
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 228. Lip, Oral Cavity and Pharynx 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	11	4.4	(1.8-7.0)	3.9	(1.9-7.2)
Churchill	1	---	---	---	---
Clark	137	2.1	(1.7-2.4)	2.3	(1.9-2.7)
Douglas	6	---	---	---	---
Elko	3	---	---	---	---
Esmeralda	0	---	---	---	---
Eureka	0	---	---	---	---
Humboldt	0	---	---	---	---
Lander	0	---	---	---	---
Lincoln	1	---	---	---	---
Lyon	6	---	---	---	---
Mineral	1	---	---	---	---
Nye	9	---	---	---	---
Pershing	1	---	---	---	---
Storey	3	---	---	---	---
Washoe	43	2.6	(1.8-3.3)	2.9	(2.1-4.0)
White Pine	3	---	---	---	---
Unknown	0	---	---	---	---
Total	225	2.3	(2.0-2.6)	2.5	(2.2-2.9)

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 229. Lip, Oral Cavity and Pharynx Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity	Gender			
	Male	Female	Total	
White	Mortality	130	71	201
	Rate*	3.5	1.9	2.7
	95% C.I.	(2.9-4.2)	(1.5-2.4)	(2.3-3.1)
Black	Mortality	6	7	13
	Rate*	---	---	3.1
	95% C.I.	---	---	(1.6-5.9)
Native American	Mortality	0	1	1
	Rate*	---	---	---
	95% C.I.	---	---	---
Asian	Mortality	2	1	3
	Rate*	---	---	---
	95% C.I.	---	---	---
Hispanic	Mortality	4	3	7
	Rate*	---	---	---
	95% C.I.	---	---	---
Other/Unknown	Mortality	0	0	0
Total	Mortality	142	83	225
	Rate*	3.2	1.8	2.5
	95% C.I.	(2.7-3.9)	(1.5-2.3)	(2.2-2.9)

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 230. Lip, Oral Cavity and Pharynx 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	0	1	1
Rate*	---	---	---
95% C.I.	---	---	---
25-34	0	1	1
Rate*	---	---	---
95% C.I.	---	---	---
35-44	2	4	6
Rate*	---	---	---
95% C.I.	---	---	---
45-54	17	9	26
Rate*	2.6	---	2.0
95% C.I.	(1.4-3.9)	---	(1.2-2.8)
55-64	45	15	60
Rate*	9.9	3.3	6.5
95% C.I.	(7.0-12.8)	(1.6-4.9)	(4.9-8.2)
65-74	48	18	66
Rate*	15.1	5.5	10.3
95% C.I.	(10.9-19.4)	(3.0-8.1)	(7.8-12.8)
75-84	26	27	53
Rate*	16.4	14.0	15.1
95% C.I.	(10.1-22.7)	(8.7-19.3)	(11.0-19.1)
85+	4	8	12
Rate*	---	---	15.7
95% C.I.	---	---	(6.8-24.6)
Unknown	0	0	0
Total	142	83	225
Rate*	2.9	1.7	2.3
95% C.I.	(2.4-3.3)	(1.4-2.1)	(2.0-2.6)

* Rates are per 100,000 age-specific population.

Note: The "---" is used for rates calculated on numbers less than ten.

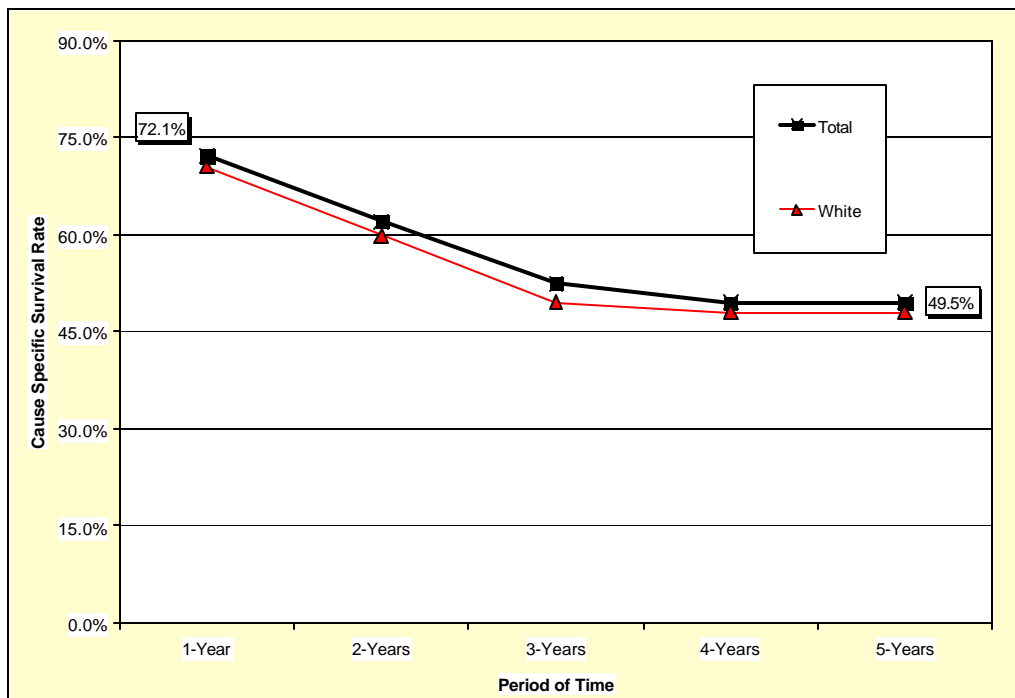
Table 231. Median Age at Death from Lip, Oral Cavity and Pharynx Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

Race/Ethnicity	Gender					
	Male		Female		Total	
	Deaths	Median Age	Deaths	Median Age	Deaths	Median Age
White	130	66.0	71	72.0	201	67.0
Black	6	58.5	7	68.0	13	64.0
Native American	0	---	1	---	1	---
Asian	2	---	1	---	3	---
Hispanic	4	---	3	---	7	72.0
Other/Unknown	0	---	0	---	0	---
Total	142	65.5	83	72.0	225	67.0

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 151. Survival Rates for Lip, Oral Cavity and Pharynx 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 152. Survival Rates for Lip, Oral Cavity and Pharynx Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001

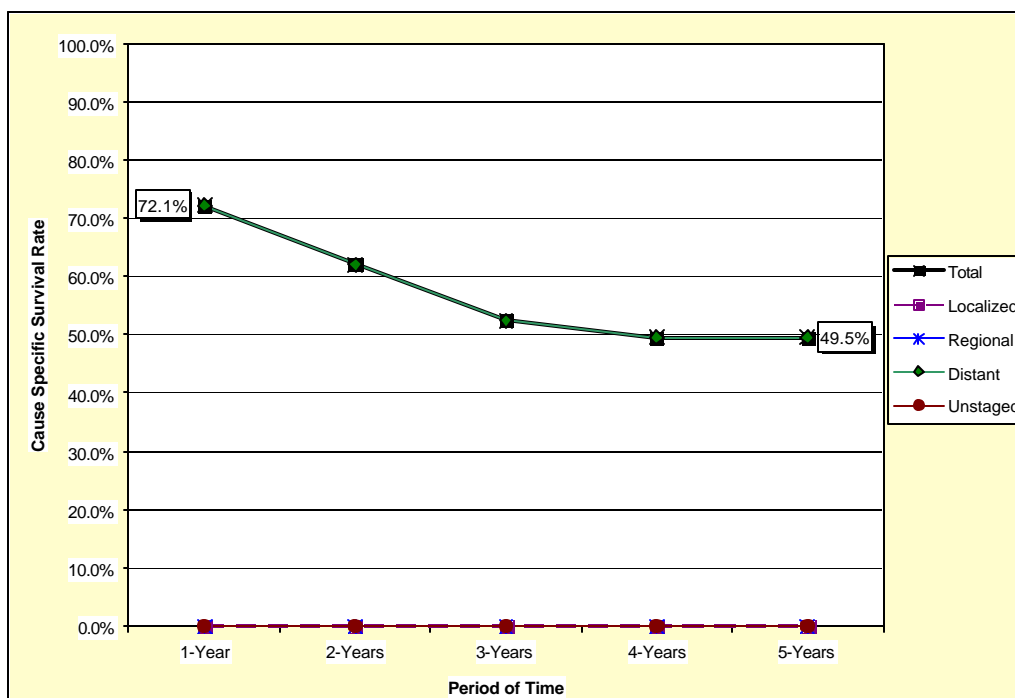


Table 232. Cause-Specific Survival Rates for Lip, Oral Cavity and Pharynx Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001

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	781	78.6%	65.6%	55.5%	48.8%	48.8%	3.82
Male	545	78.5%	67.0%	56.4%	47.6%	47.6%	3.73
Female	236	78.7%	62.2%	53.5%	53.5%	53.5%	>5 years
Race/Ethnicity							
White	691	78.6%	65.1%	53.7%	47.3%	47.3%	3.58
Male	481	78.6%	67.2%	55.3%	47.1%	47.1%	3.65
Female	210	78.3%	60.3%	49.9%	49.9%	49.9%	2.99
Black	33	---	---	---	---	---	---
Male	21	---	---	---	---	---	---
Female	12	---	---	---	---	---	---
Native American	4	---	---	---	---	---	---
Male	3	---	---	---	---	---	---
Female	1	---	---	---	---	---	---
Asian	11	---	---	---	---	---	---
Male	10	---	---	---	---	---	---
Female	1	---	---	---	---	---	---
Hispanic	30	---	---	---	---	---	---
Male	19	---	---	---	---	---	---
Female	11	---	---	---	---	---	---

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 233. Cause-Specific Survival Rates for Lip, Oral Cavity and Pharynx 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	781	545	236
	One Year	78.6%	78.5%	78.7%
	5 Years	48.8%	47.6%	53.5%
	Median Survival	3.82	3.73	>5 years
Stage at Diagnosis				
In situ	Cases	0	0	0
	One Year	---	---	---
	5 Years	---	---	---
	Median Survival	---	---	---
Localized	Cases	251	164	87
	One Year	86.9%	85.3%	89.8%
	5 Years	64.7%	61.6%	71.3%
	Median Survival	>5 years	>5 years	>5 years
Regional	Cases	300	219	81
	One Year	81.6%	80.2%	85.5%
	5 Years	49.2%	48.2%	54.6%
	Median Survival	3.87	3.77	>5 years
Distant	Cases	72	56	16
	One Year	63.8%	65.2%	---
	5 Years	---	---	---
	Median Survival	2.06	2.23	---
Unstaged	Cases	158	106	52
	One Year	66.4%	72.0%	55.6%
	5 Years	34.5%	38.0%	---
	Median Survival	1.91	2.37	1.23

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.