# BREAST CANCER

### **BREAST CANCER**

### **GENERAL PROFILE**<sup>4</sup>

### Figure 49. Anatomy of the Breast<sup>5</sup>



**General Anatomy:** Each breast has 15 to 20 sections called lobes. Within each lobe are many smaller lobules, which end in dozens of tiny bulbs that can produce milk. The lobes, lobules, and bulbs are all linked by thin tubes called ducts. These ducts lead to the nipple in the center of a dark area of skin called the areola. Fat surrounds the lobules and ducts. Each breast also contains blood vessels and lymph vessels. The lymph vessels carry colorless fluid called lymph, and lead to small bean-shaped organs called lymph nodes. Clusters of lymph nodes are found near the breast in the axilla (under the arm), above the collarbone, and in the chest. Lymph nodes are also found in many other parts of the body.

**Risk Factors:** Personal, and/or family, history of Breast Cancer, atypical hyperplasia, lobular carcinoma in situ, prolonged levels of estrogen, later childbearing, breast density, radiation therapy, and alcohol use are all important risk factors.

**Signs and Symptoms:** Common signs and symptoms include: A lump or thickening in or near the breast or in the underarm area, change in the size or shape of the breast, nipple discharge or tenderness, nipple inverted into breast, ridges or pitting of the breast, and a change in the way the skin of the breast, areola, or nipple looks or feels (for example, warm, swollen, red, or scaly).

**Diagnosing the Cancer:** The most common ways of diagnosing Breast Cancer are: clinical breast exam, mammography, ultrasonography, fine-needle aspiration, and needle or surgical biopsy.

**Treatment:** Treatment options include: surgery (Lumpectomy, Segmental Mastectomy, Simple Mastectomy, and Radical Mastectomy), radiation therapy, chemotherapy, hormonal therapy, and biological therapy.

### **HIGHLIGHTS**

- The ratio of the age-adjusted incidence rate, 124.3, to the age-adjusted mortality rate, 26.1 (per 100,000 2000 US Standard female population), for Female Breast Cancer was 4.76 during the 1996 to 2000 period, which means that for every 4.76 Female Breast Cancer cases there was one female death due to Breast Cancer in Nevada during this period.
- The median age at diagnosis of Breast Cancer for Nevada females was 61 years of age from 1996 to 2000. The median age at time of death due to Breast Cancer for females was 67 years.

#### **CANCER SCREENING**

- From 1996 to 2000, 93.9% of the 5,593 Nevadan females who responded had ever had a mammogram and/or a clinical breast exam to try and detect early signs of Breast Cancer.
- The percentage of women who stated their education level at less than high school, 89.8% (87.1%-92.5%), or high school, 91.3% (90.0%-92.6%), had a statistically significant lower rate of ever having had a mammogram and/or clinical breast exam than those who stated their education level at some post high school, 96.0% (95.1%-96.9%), or college graduate, 96.7% (95.7%-97.7%), during the 1996 to 2000 period.
- Those women whose age was 18 to 24 years, 80.7% (77.3%-84.1%), had the lowest statistically significant percentage of ever having a mammogram and/or a clinical breast exam of any age group surveyed from 1996 to 2000. However, those women 25 to 34 years of age also had a statistically significant lower percentage, 92.2% (90.6%-93.8%), than all other age groups surveyed.

#### **INCIDENCE**

- There were 5,582 cases of Female Breast Cancer reported in Nevada from 1996 to 2000. Regional comparisons showed that Washoe County's age-adjusted incidence rate, 148.1 (139.6-156.9), was statistically higher than the rate for Clark County, 119.6 (115.7-123.7), and the All Other Counties region, 117.8 (110.0-126.1), during this period. However, Nevada and all three regions had lower statistically significant rates than the National rate, 161.3 (160.4-162.1 - per 100,000 – 2000 US Standard female population) during this period.
- Asian females were considerably lower than the statewide median age at time of diagnosis for Breast Cancer (61 years) with a median age of 52 years, the lowest of any racial/ethnic group. The racial/ethnic group with the highest median age at diagnosis was White females with a median age of 62 years for the 1996 to 2000 period.
- White females accounted for 88.9% of all reported Female Breast Cancer cases in Nevada from 1996 to 2000. They had a statistically significant higher rate, 137.7 (133.9-

141.6), than Black females, 96.0 (83.5-110.3), Asian females, 52.5 (42.6-67.6), Hispanic females, 42.8 (35.8-51.3), and Native American females, 38.8 (23.6-61.7), per 100,000 - 2000 US Standard population, during this period.

#### **INPATIENT HOSPITAL DISCHARGES**

- There were 2,524 female hospital inpatient discharges with a primary diagnosis of Breast Cancer from 1996 to 2000. Washoe County had the highest age-adjusted inpatient discharge rate, 62.4, for Female Breast Cancer, and was followed by Clark County and the All Other Counties region with rates of 55.9 and 50.8 (per 100,000 – 2000 US Standard female population), respectively.
- Total billed charges for hospital inpatient discharges from Breast Cancer in Nevada totaled nearly 35 million dollars from 1996 to 2000. Washoe County had the highest median total charge (\$12,108) and average length of stay (2.8 days) during this time; once regional comparisons were made.
- The overall average billed charge per day for a Breast Cancer inpatient hospital discharge in Nevada was over \$5,600 from 1996 to 2000.

#### MORTALITY

- There were 1,128 female deaths in Nevada due to Breast Cancer from 1996 to 2000. While Washoe County had a higher age-adjusted mortality rate for Female Breast Cancer (28.8) than Clark County (26.4) and All Other Counties (21.7), statistical analysis does not indicate a statistical difference between the three regions or the statewide rate of 26.1 (per 100,000 – 2000 US Standard female population) for this period.
- Racial/ethnic comparisons showed that Black and White females had higher age-adjusted mortality rates, 32.8 and 27.8, respectively, when compared to Asians and Hispanics who had rates of 13.0 and 11.8 (per 100,000 – 2000 US Standard female population), respectively, from 1996 to 2000.

#### SURVIVAL RATE

- Hispanic females in Nevada had the highest one-year survival rate (96.7%) of any racial/ethnic group for Female Breast Cancer during the 1996 to 2000 period. They were followed by Asian, White and Black females with rates of 95.7%, 94.4% and 86.4%, respectively. However, Asian females had the highest five-year survival rate (87.8%) for Female Breast Cancer during this time, while White, Hispanic and Black females followed with rates of 73.9%, 62.8% and 47.4%, respectively.
- The five-year survival rate for females diagnosed with Breast Cancer at the in situ stage was 96.7% for Nevada from 1996 to 2000. The rate for those at the localized stage was 86.4%, while those recorded at the regional, distant and unstaged stages had rates of 68.1%, 6.0% and 21.6%, respectively.

### **SCREENING (BRFSS)**

### Table 63. Female Breast Cancer Screening by County/Region of Residence,Education, Age Group, and Income, Nevada Residents, 1996-2000

				Answers			
Responses		Yes			No		
	Number	Percent*	95% C.I.	Number	Percent*	95% C.I.	Total
Total							
Responses	5,248	93.9%	(93.3%-94.5%)	345	6.1%	(5.5%-6.7%)	5,593
County/Region of Resid	lence						
Clark County	1,687	94.2%	(93.1%-95.3%)	110	5.8%	(4.7%-6.9%)	1,797
Washoe County	1,745	94.6%	(93.6%-95.6%)	105	5.4%	(4.4%-6.4%)	1,850
All Other Counties	1,816	92.0%	(90.8%-93.2%)	130	8.0%	(6.8%-9.2%)	1,946
Education							
Less than High School	443	89.8%	(87.1%-92.5%)	56	10.2%	(7.5%-12.9%)	499
High School	1,668	91.3%	(90.0%-92.6%)	146	8.7%	(7.4%-10.0%)	1,814
Some Post High School	1,862	96.0%	(95.1%-96.9%)	104	4.0%	(3.1%-4.9%)	1,966
College Graduate	1,264	96.7%	(95.7%-97.7%)	38	3.3%	(2.3%-4.3%)	1,302
Age Group							
18-24 years old	398	80.7%	(77.3%-84.1%)	110	19.3%	(15.9%-22.7%)	508
25-34 years old	973	92.2%	(90.6%-93.8%)	66	7.8%	(6.2%-9.4%)	1,039
35-44 years old	1,248	95.5%	(94.4%-96.6%)	59	4.5%	(3.4%-5.6%)	1,307
45-54 years old	1,031	97.8%	(96.9%-98.7%)	23	2.2%	(1.3%-3.1%)	1,054
55-64 years old	671	96.9%	(95.6%-98.2%)	21	3.1%	(1.8%-4.4%)	692
65+ years old	904	95.5%	(94.2%-96.8%)	63	4.5%	(3.2%-5.8%)	967
Income							
Less than \$15,000	582	91.1%	(88.9%-93.3%)	69	8.9%	(6.7%-11.1%)	651
\$15,000 - \$24,999	467	90.0%	(87.4%-92.6%)	59	10.0%	(7.4%-12.6%)	526
\$25,000 - \$34,999	812	93.6%	(92.0%-95.2%)	52	6.4%	(4.8%-8.0%)	864
\$35,000 - \$49,999	1,024	95.0%	(93.7%-96.3%)	40	5.0%	(3.7%-6.3%)	1,064
\$50,000 or More	1,533	96.5%	(95.6%-97.4%)	36	3.5%	(2.6%-4.4%)	1,569

\*Denominator is persons age 18-64 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 mammogram is an x-ray of each breast to look for breast cancer. Have you ever had a mammogram?

2) A clinical breast exam is when a doctor, nurse, or other health professional feels the breast for lumps. Have you ever had a clinical breast exam?

### **INCIDENCE**

### Figure 50. Female Breast Cancer Age-Adjusted (2000) Incidence Rates, Nevada Residents, 1996-2000



Note: Rates are per 100,000 female 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 52. Female Breast Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1996-2000



### Table 64. Breast Cancer Cases by Gender, Race/Ethnicity and County/Region ofResidence at Diagnosis, Nevada Residents (1996-2000) and SEER-11 (1995-1999)

		County/Region of Residence							
Category	Nevada Total	Clark	Washoe	All Other Counties	Unknown	SEER 11 (1995-1999)			
Total									
Cases	5,643	3,605	1,170	867	1	148,611			
Rate*	64.8	62.4	78.0	60.9		87.9			
95% C.I.	(63.1-66.6)	(60.3-64.5)	(73.5-82.7)	(56.8-65.2)		(87.5-88.4)			
Gender									
Male	59	33	12	14	0	923			
Rate*	1.5	1.3	1.8	2.0					
95% C.I.	(1.1-2.0)	(0.9-2.0)	(0.9-3.6)	(1.1-3.7)					
Female	5,582	3,572	1,156	853	1	147,688			
Rate*	124.3	119.6	148.1	117.8		161.3			
95% C.I.	(121.0-127.6)	(115.7-123.7)	(139.6-156.9)	(110.0-126.1)		(160.4-162.1)			
Other/Unknown	2	0	2	0	0	0			
Race/Ethnicity									
White	4,962	3,054	1,084	823	1	122,654			
Rate*	137.7	134.3	161.2	126.0		166.8			
95% C.I.	(133.9-141.6)	(129.5-139.2)	(151.8-171.2)	(117.5-135.1)		(165.9-167.8)			
Black	229	212	13	4	0	12,369			
Rate*	96.0	95.8	106.6			145.9			
95% C.I.	(83.5-110.3)	(82.7-110.8)	(56.2-188.2)			(143.4-148.6)			
Native American	21	4	7	10	0	324			
Rate*	38.8			46.4		46.7			
95% C.I.	(23.6-61.7)			(22.0-88.7)		(41.6-52.3)			
Asian	131	102	25	4	0	11,003			
Rate*	52.5	52.0	61.7			120.4			
95% C.I.	(42.6-67.6)	(40.8-70.0)	(38.4-128.1)			(118.1-122.7)			
Hispanic	164	127	26	11	0	9,833			
Rate*	42.8	41.7	53.7	38.1		95.2			
95% C.I.	(35.8-51.3)	(34.0-51.5)	(32.2-91.2)	(17.9-75.9)		(93.3-97.1)			
Other/Unknown	75	73	1	1	0	1,338			

\* Rates are per 100,000 population and age-adjusted to the 2000 US Standard population. Rates for race/ethnicity groups are per 100,000 female 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 65. Female Breast Cancer Cases by Age Group and County/Region ofResidence at Diagnosis, Nevada Residents (1996-2000) and SEER-11 (1995-1999)

			County/Regio	on of Residence		
Category	Nevada Total	Clark	Washoe	All Other Counties	Unknown	SEER 11 (1995-1999)
Total						
Cases	5,582	3,572	1,156	853	1	147,688
Rate*	122.1	115.5	143.2	126.7		157.0
95% C.I.	(118.9-125.3)	(111.7-119.3)	(135.0-151.5)	(118.2-135.2)		(156.2-157.8)
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	3	3	0	0	0	109
Rate*						0.9
95% C.I.						(0.7-1.0)
25-34	97	67	16	14	0	2,761
Rate*	14.1	13.7	13.2	18.0		19.0
95% C.I.	(11.3-16.9)	(10.5-17.0)	(6.7-19.6)	(8.6-27.4)		(18.3-19.7)
35-44	591	392	132	67	0	16,467
Rate*	81.9	82.7	97.0	59.9		104.9
95% C.I.	(75.3-88.5)	(74.5-90.9)	(80.4-113.5)	(45.5-74.2)		(103.3-106.5)
45-54	1,225	793	264	168	0	33,764
Rate*	205.3	201.8	240.7	178.6		290.6
95% C.I.	(193.8-216.8)	(187.7-215.8)	(211.7-269.8)	(151.6-205.6)		(287.5-293.7)
55-64	1,298	845	248	205	0	30,854
Rate*	300.4	286.3	356.1	304.4		423.6
95% C.I.	(284.0-316.7)	(267.0-305.6)	(311.8-400.4)	(262.7-346.1)		(418.9-428.3)
65-74	1,372	868	275	228	1	33,105
Rate*	436.7	413.6	528.6	436.2		518.7
95% C.I.	(413.6-459.8)	(386.1-441.1)	(466.1-591.1)	(379.6-492.8)		(513.1-524.3)
75-84	795	481	173	141	0	24,254
Rate*	441.0	406.7	549.9	461.6		555.0
95% C.I.	(410.3-471.6)	(370.3-443.0)	(468.0-631.9)	(385.4-537.8)		(548.0-561.9)
85+	200	122	48	30	0	7,294
Rate*	418.6	416.0	479.3	355.7		419.5
95% C.I.	(360.6-476.6)	(342.2-489.8)	(343.7-614.9)	(228.4-483.0)		(409.8-429.1)
Unknown	1	1	0	0	0	0

\*Rates are per 100,000 age-specific female 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 66. Female Breast Cancer Cases by County of Residence at Diagnosis,Nevada Residents, 1996-2000 (Revised)

County of	1996-2000 Incidence					
Residence	Cases	Rat	te*	Age-Adjust	ted Rate**	
at Diagnosis	Cases	Rate	95% C.I.	Rate	95% C.I.	
Carson City	276	221.3	(195.2-247.4)	183.1	(161.9-206.6)	
Churchill	82	139.5	(109.3-169.7)	142.5	(113.3-177.3)	
Clark	3,572	115.5	(111.7-119.3)	119.6	(115.7-123.7)	
Douglas	123	124.2	(102.2-146.1)	99.9	(82.8-120.7)	
Elko	41	37.5	(26.0-49.0)	52.0	(36.6-72.9)	
Esmeralda	3					
Eureka	4					
Humboldt	28	69.9	(44.0-95.8)	83.5	(54.6-123.5)	
Lander	13	83.5	(38.1-128.9)	112.5	(58.4-200.5)	
Lincoln	8					
Lyon	132	165.5	(137.3-193.8)	142.6	(119.1-170.0)	
Mineral	20	146.9	(82.5-211.3)	124.0	(74.9-199.5)	
Nye	83	115.5	(90.7-140.4)	81.1	(64.0-103.2)	
Pershing	15	108.6	(53.6-163.6)	122.3	(68.3-203.3)	
Storey	6					
Washoe	1,156	143.2	(135.0-151.5)	148.1	(139.6-156.9)	
White Pine	19	87.8	(48.3-127.2)	76.7	(45.8-124.7)	
Unknown	1					
Total	5,582	122.1	(118.9-125.3)	124.3	(121.0-127.6)	

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

### Table 67. Breast Cancer Cases by Race/Ethnicity and Gender, Nevada Residents,1996-2000

			Gei	nder	
Rac	e/Ethnicity	Male	Female	Other/ Unknown	Total
White	Incidence	51	4,962	2	5,015
	Rate*	1.5	137.7		71.0
	95% C.I.	(1.1-2.1)	(133.9-141.6)		(69.0-73.0)
Black	Incidence	6	229	0	235
	Rate*		96.0		53.0
	95% C.I.		(83.5-110.3)		(45.9-61.4)
Native	Incidence	0	21	0	21
American	Rate*		38.8		21.0
	95% C.I.		(23.6-61.7)		(12.6-34.5)
Asian	Incidence	1	131	0	132
	Rate*		52.5		30.5
	95% C.I.		(42.6-67.6)		(24.8-39.0)
Hispanic	Incidence	1	164	0	165
	Rate*		42.8		22.2
	95% C.I.		(35.8-51.3)		(18.4-27.1)
Other/Unkr	nown	0	75	0	75
Total	Incidence	59	5,582	2	5,643
	Rate*	1.5	124.3		64.8
	95% C.I.	(1.1-2.0)	(121.0-127.6)		(63.1-66.6)

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

# Table 68. Breast Cancer Cases by Age Group and Gender, Nevada Residents,1996-2000

4.00		Ger	nder	
Age Group	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	0	0	0
Rate*				
95% C.I.				
15-24	0	3	0	3
Rate*				
95% C.I.				
25-34	1	97	0	98
Rate*		14.1		6.8
95% C.I.		(11.3-16.9)		(5.5-8.2)
35-44	3	591	0	594
Rate*		81.9		39.8
95% C.I.		(75.3-88.5)		(36.6-43.0)
45-54	7	1,225	1	1,233
Rate*		205.3		102.0
95% C.I.		(193.8-216.8)		(96.3-107.7)
55-64	15	1,298	0	1,313
Rate*	3.5	300.4		152.5
95% C.I.	(1.7-5.3)	(284.0-316.7)		(144.3-160.8)
65-74	14	1,372	1	1,387
Rate*	4.6	436.7		223.7
95% C.I.	(2.2-7.0)	(413.6-459.8)		(212.0-235.5)
75-84	17	795	0	812
Rate*	11.5	441.0		247.7
95% C.I.	(6.0-17.0)	(410.3-471.6)		(230.7-264.8)
85+	2	200	0	202
Rate*		418.6		286.7
95% C.I.		(360.6-476.6)		(247.2-326.3)
Unknown	0	1	0	1
Total	59	5,582	2	5,643
Rate*	1.2	122.1		60.7
95% C.I.	(0.9-1.6)	(118.9-125.3)		(59.1-62.2)

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

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

# Table 69. Breast Cancer Cases by Age Group and Stage, Nevada Residents,1996-2000

Arro	<b>C</b> = 0 = 1			St	Stage					
Age	Group	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	0	0	0	0			
	Percent									
15-24	Number	0	1	1	0	1	3			
	Percent		33.3%	33.3%		33.3%	100.0%			
25-34	Number	9	39	36	5	9	98			
	Percent	9.2%	39.8%	36.7%	5.1%	9.2%	100.0%			
35-44	Number	72	256	201	37	28	594			
	Percent	12.1%	43.1%	33.8%	6.2%	4.7%	100.0%			
45-54	Number	208	566	316	50	93	1,233			
	Percent	16.9%	45.9%	25.6%	4.1%	7.5%	100.0%			
55-64	Number	179	642	349	60	83	1,313			
	Percent	13.6%	48.9%	26.6%	4.6%	6.3%	100.0%			
65-74	Number	191	705	288	71	132	1,387			
	Percent	13.8%	50.8%	20.8%	5.1%	9.5%	100.0%			
75-84	Number	75	459	154	51	73	812			
	Percent	9.2%	56.5%	19.0%	6.3%	9.0%	100.0%			
85+	Number	9	87	34	11	61	202			
	Percent	4.5%	43.1%	16.8%	5.4%	30.2%	100.0%			
Unknown	Number	0	0	1	0	0	1			
	Percent			100.0%			100.0%			
Total	Number Percent	743 13.2%	2,755 48.8%	1,380 24.5%	285 5.1%	480 8.5%	5,643 100.0%			

## Table 70. Breast Cancer Cases by Stage and Race/Ethnicity, Nevada Residents,1996-2000

			Race/Ethnicity					
S	itage	White	Black	Native American	Asian	Hispanic	Other/ Unknown	Total
In situ	Number	658	24	3	21	16	21	743
	Percent	13.1%	10.2%	14.3%	15.9%	9.7%	28.0%	13.2%
Localized	Number	2,467	98	9	67	75	39	2,755
	Percent	49.2%	41.7%	42.9%	50.8%	45.5%	52.0%	48.8%
Regional	Number	1,215	62	5	33	54	11	1,380
	Percent	24.2%	26.4%	23.8%	25.0%	32.7%	14.7%	24.5%
Distant	Number	245	25	2	3	8	2	285
	Percent	4.9%	10.6%	9.5%	2.3%	4.8%	2.7%	5.1%
Unstaged	Number	430	26	2	8	12	2	480
	Percent	8.6%	11.1%	9.5%	6.1%	7.3%	2.7%	8.5%
Total	Number	5,015	235	21	132	165	75	5,643
	Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

# Table 71. Median Age at Diagnosis of Breast Cancer by Race/Ethnicity and<br/>Gender, Nevada Residents, 1996-2000

	Gender								
Race/Ethnicity	Ма	le	Fem	ale	Total				
	Incidence	Median Age	Incidence	Median Age	Incidence	Median Age			
White	51	67.0	4,961	62.0	5,012	62.0			
Black	6	70.0	229	55.0	235	56.0			
Native American	0		21	60.0	21	60.0			
Asian	1		131	52.0	132	52.0			
Hispanic	1		164	53.0	165	53.0			
Other/Unknown	0		75	56.0	75	56.0			
Total	59	66.0	5,581	61.0	5,640	61.0			

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 53. Female Breast Cancer Age-Adjusted (2000) Inpatient Discharge Rates, Nevada Residents, 1996-2000



Note: Rates are per 100,000 female 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 55. Median Charges for Breast Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1996-2000



Figure 56. Average Length of Stay for Breast Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1996-2000



# Table 72. Breast Cancer Inpatient Discharges by Gender, Charges, Length of Stay,<br/>and County/Region of Residence, Nevada Residents, 1996-2000

		Coun	ty/Region of Resid	ence	
Category	Nevada Total	Clark	Washoe	All Other Counties	Unknown
Total					
Discharges	2,542	1,679	493	368	2
Rate*	29.2	29.1	32.6	26.1	
95% C.I.	(28.1-30.4)	(27.7-30.6)	(29.8-35.7)	(23.5-29.0)	
Gender					
Male	18	11	4	3	0
Rate*	0.5	0.5			
95% C.I.	(0.3-0.9)	(0.2-1.0)			
Female	2,524	1,668	489	365	2
Rate*	56.2	55.9	62.4	50.8	
95% C.I.	(54.0-58.5)	(53.2-58.7)	(57.0-68.3)	(45.7-56.3)	
Other/Unknown	0	0	0	0	0
Inpatient Discharge Cl	harges (\$)				
Total Charges	\$34,663,372	\$22,210,278	\$8,194,104	\$4,236,598	\$22,392
Average Charges	\$13,636	\$13,228	\$16,621	\$11,512	\$11,196
Median Charges	\$10,622	\$10,515	\$12,108	\$8,597	\$11,196
Discharge Length of S	stay (LOS) (Days)				
Total LOS	6,155	3,975	1,403	774	
Average LOS	2.4	2.4	2.8	2.1	
Median LOS	1.0	1.0	2.0	1.0	

\* Rates are per 100,000 female 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 73. Female Breast Cancer Inpatient Discharges by Age Group and<br/>County/Region of Residence, Nevada Residents, 1996-2000

		Count	y/Region of Residen	ice	
Category	Nevada Total	Clark	Washoe	All Other Counties	Unknown
Total					
Cases	2,524	1,668	489	365	2
Rate*	55.2	53.9	60.6	54.2	
95% C.I.	(53.0-57.3)	(51.3-56.5)	(55.2-66.0)	(48.7-59.8)	
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	1	0	0	1	0
Rate*					
95% C.I.					
25-34	56	38	11	7	0
Rate*	8.2	7.8	9.0		
95% C.I.	(6.0-10.3)	(5.3-10.3)	(3.7-14.4)		
35-44	290	192	62	36	0
Rate*	40.2	40.5	45.5	32.2	
95% C.I.	(35.5-44.8)	(34.8-46.2)	(34.2-56.9)	(21.7-42.7)	
45-54	511	348	94	69	0
Rate*	85.6	88.6	85.7	73.4	
95% C.I.	(78.2-93.1)	(79.3-97.9)	(68.4-103.0)	(56.1-90.7)	
55-64	578	393	113	70	2
Rate*	133.8	133.2	162.2	103.9	
95% C.I.	(122.9-144.7)	(120.0-146.3)	(132.3-192.2)	(79.6-128.3)	
65-74	615	394	121	100	0
Rate*	195.8	187.7	232.6	191.3	
95% C.I.	(180.3-211.2)	(169.2-206.3)	(191.1-274.0)	(153.8-228.8)	
75-84	387	248	71	68	0
Rate*	214.7	209.7	225.7	222.6	
95% C.I.	(193.3-236.0)	(183.6-235.8)	(173.2-278.2)	(169.7-275.6)	
85+	85	55	16	14	0
Rate*	177.9	187.5	159.8	166.0	
95% C.I.	(140.1-215.7)	(138.0-237.1)	(81.5-238.0)	(79.0-253.0)	
Unknown	1	0	1	0	0

\* Rates are per 100,000 female 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 74. Breast Cancer Inpatient Discharges by Age Group and Gender, NevadaResidents, 1996-2000

Age		Gender	
Group	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	1	56	57
Rate*		8.2	4.0
95% C.I.		(6.0-10.3)	(2.9-5.0)
35-44	1	290	291
Rate*		40.2	19.5
95% C.I.		(35.5-44.8)	(17.2-21.7)
45-54	1	511	512
Rate*		85.6	42.3
95% C.I.		(78.2-93.1)	(38.7-46.0)
55-64	4	578	582
Rate*		133.8	67.6
95% C.I.		(122.9-144.7)	(62.1-73.1)
65-74	3	615	618
Rate*		195.8	99.7
<u>95% C.I.</u>		(180.3-211.2)	(91.8-107.6)
75-84	1	387	394
Rate* 95% C.I.		214.7 (193.3-236.0)	120.2 (108.3-132.1)
85+	1	85	86
Rate* 95% C.I.		177.9 (140.1-215.7)	122.1 (96.3-147.9)
Unknown	0	(140.1-215.7)	(30.3-147.3)
Total	18	2,524	2,542
Rate*	0.4	55.2	2,542
95% C.I.	(0.2-0.6)	(53.0-57.3)	(26.3-28.4)
	(0.2 0.0)	(00.0 01.0)	(20.0 20.4)

\* Rates are per 100,000 female 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 75. Female Breast Cancer Inpatient Discharges by County/Region ofResidence, Nevada Residents, 1996-2000

0f	1996-2000 Inpatient Hospital Admissions						
County of Residence	Casaa	Rat	Age-Adjus	Age-Adjusted Rate**			
	Cases –	Rate	95% C.I.	Rate	95% C.I.		
Carson City	56	44.9	(33.1-56.7)	37.3	(28.1-49.0)		
Churchill	41	69.7	(48.4-91.1)	70.9	(50.9-96.6)		
Clark	1,668	53.9	(51.3-56.5)	55.9	(53.2-58.7)		
Douglas	44	44.4	(31.3-57.5)	36.1	(26.1-50.2)		
Elko	32	29.3	(19.1-39.4)	42.9	(28.8-62.8)		
Esmeralda	2						
Eureka	3						
Humboldt	13	32.5	(14.8-50.1)	40.5	(21.1-71.8)		
Lander	12	77.1	(33.5-120.7)	105.7	(53.2-192.5)		
Lincoln	3						
Lyon	82	102.8	(80.6-125.1)	91.4	(72.5-114.2)		
Mineral	9						
Nye	46	64.0	(45.5-82.5)	47.9	(34.7-66.1)		
Pershing	8						
Storey	2						
Washoe	489	60.6	(55.2-66.0)	62.4	(57.0-68.3)		
White Pine	12	55.4	(24.1-86.8)	44.0	(22.6-82.6)		
Unknown	2						
Total	2,524	55.2	(53.0-57.3)	56.2	(54.0-58.5)		

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

### Table 76. Breast Cancer Inpatient Discharges by Age Group, Charges and Lengthof Stay, Nevada Residents, 1996-2000

Age	Discharges	C	harges (\$)		Len	gth of Stay (Da	iys)
Group	Discharges	Total	Average	Median	Total	Average	Median
<1	0						
1-4	0						
5-14	0						
15-24	1						
25-34	57	872,333	15,304	12,555	142	2.5	2.0
35-44	291	5,221,101	17,942	11,916	841	2.9	2.0
45-54	512	7,750,123	15,137	12,046	1,228	2.4	2.0
55-64	582	7,839,350	13,470	10,669	1,353	2.3	1.0
65-74	618	7,165,575	11,595	9,898	1,240	2.0	1.0
75-84	394	4,612,504	11,707	9,479	1,023	2.6	2.0
85+	86	1,079,458	12,552	9,977	307	3.6	2.0
Unknown	1						
Total	2,542	34,663,372	13,636	10,622	6,155	2.4	1.0

### MORTALITY

#### Figure 57. Female Breast Cancer Age-Adjusted (2000) Mortality Rates, Nevada Residents, 1996-2000



Note: Rates are per 100,000 female 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 59. Female Breast Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1996-2000



# Table 77. Breast Cancer Mortality by Gender, Race/Ethnicity and County/Regionof Residence, Nevada Residents, 1996-2000

	County/Region of Residence							
Category	Nevada Total	Clark	Washoe	All Other Counties				
Total								
Cases	1,139	767	219	153				
Rate*	14.1	14.3	15.8	11.6				
95% C.I.	(13.3-15.0)	(13.3-15.4)	(13.7-18.1)	(9.8-13.7)				
Gender								
Male	11	8	1	2				
Rate*	0.3							
95% C.I.	(0.1-0.6)							
Female	1,128	759	218	151				
Rate*	26.1	26.4	28.8	21.7				
95% C.I.	(24.6-27.7)	(24.6-28.4)	(25.1-32.9)	(18.4-25.6)				
Other/Unknown	0	0	0	0				
Race/Ethnicity								
White	987	632	206	149				
Rate*	27.8	27.9	31.1	23.7				
95% C.I.	(26.1-29.6)	(25.8-30.2)	(27.0-35.7)	(20.0-28.0)				
Black	69	65	3	1				
Rate*	32.8	33.5						
95% C.I.	(25.2-42.4)	(25.5-43.8)						
Native American	5	3	1	1				
Rate*								
95% C.I.								
Asian	26	24	2	0				
Rate*	13.0	14.7						
95% C.I.	(7.0-25.7)	(7.6-30.3)						
Hispanic	41	35	6	0				
Rate*	11.8	13.3						
95% C.I.	(8.1-17.3)	(8.8-20.3)						
Other/Unknown	0	0	0	0				

\* Rates are per 100,000 population and age-adjusted to the 2000 US Standard population. Rates for race/ethnicity groups are per 100,000 female population and age-adjusted to the 2000 US Standard population.

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

# Table 78. Female Breast Cancer Mortality by Age Group and County/Region ofResidence, Nevada Residents, 1996-2000

		County/Region	n of Residence	
Category	Nevada Total	Clark	Washoe	All Other Counties
Total				
Cases	1,128	759	218	151
Rate*	24.7	24.5	27.0	22.4
95% C.I.	(23.2-26.1)	(22.8-26.3)	(23.4-30.6)	(18.9-26.0)
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	2	1	0	1
Rate*				
95% C.I.				
25-34	8	7	0	1
Rate*				
95% C.I.				
35-44	89	57	22	10
Rate*	12.3	12.0	16.2	8.9
95% C.I.	(9.8-14.9)	(8.9-15.1)	(9.4-22.9)	(3.4-14.5)
45-54	173	106	36	31
Rate*	29.0	27.0	32.8	33.0
95% C.I.	(24.7-33.3)	(21.8-32.1)	(22.1-43.6)	(21.4-44.6)
55-64	236	162	41	33
Rate*	54.6	54.9	58.9	49.0
95% C.I.	(47.6-61.6)	(46.4-63.3)	(40.8-76.9)	(32.3-65.7)
65-74	276	209	42	25
Rate*	87.8	99.6	80.7	47.8
95% C.I.	(77.5-98.2)	(86.1-113.1)	(56.3-105.1)	(29.1-66.6)
75-84	230	149	51	30
Rate*	127.6	126.0	(117 6 206 6)	98.2
95% C.I.	(111.1-144.1)	(105.7-146.2)	(117.6-206.6)	(63.1-133.4)
85+	114	68	26	20
Rate*	238.6	231.9	259.6	(122 2 241 1)
95% C.I.	(194.8-282.4)	(176.7-287.0)	(159.8-359.4)	(133.2-341.1)
Unknown	0	0	0	0

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

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

### Table 79. Female Breast Cancer Mortality by County of Residence, NevadaResidents, 1996-2000

Country of	1996-2000 Mortality						
County of Residence	Deaths	Rat	te*	Age-Adjus	Age-Adjusted Rate**		
	Deaths	Rate	95% C.I.	Rate	95% C.I.		
Carson City	35	28.1	(18.8-37.4)	23.5	(16.3-33.2)		
Churchill	8						
Clark	759	24.5	(22.8-26.3)	26.4	(24.6-28.4)		
Douglas	16	16.2	(8.2-24.1)	13.4	(7.7-23.6)		
Elko	14	12.8	(6.1-19.5)	19.3	(10.1-34.7)		
Esmeralda	1						
Eureka	1						
Humboldt	11	27.5	(11.2-43.7)	32.7	(16.1-61.0)		
Lander	3						
Lincoln	2						
Lyon	25	31.3	(19.1-43.6)	28.8	(18.5-43.3)		
Mineral	5						
Nye	19	26.4	(14.6-38.3)	20.1	(11.7-34.1)		
Pershing	2						
Storey	1						
Washoe	218	27.0	(23.4-30.6)	28.8	(25.1-32.9)		
White Pine	8						
Unknown	0						
Total	1,128	24.7	(23.2-26.1)	26.1	(24.6-27.7)		

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

### Table 80. Breast Cancer Mortality by Race/Ethnicity and Gender, NevadaResidents, 1996-2000

			Gender					
Race/Ethnicity		Male	Female	Total				
White	Mortality Rate* 95% C.I.	9	987 27.8 (26.1-29.6)	996 14.9 (14.0-15.9)				
Black	Mortality Rate* 95% C.I.	1	69 32.8 (25.2-42.4)	70 18.3 (13.9-24.0)				
Native American	Mortality Rate* 95% C.I.	1	5  	6  				
Asian	Mortality Rate* 95% C.I.	0  	26 13.0 (7.0-25.7)	26 7.4 (4.1-14.5)				
Hispanic	Mortality Rate* 95% C.I.	0	41 11.8 (8.1-17.3)	41 6.2 (4.2-9.4)				
Other/Unkr	nown	0	0	0				
Total	Mortality Rate* 95% C.I.	11 0.3 (0.1-0.6)	1,128 26.1 (24.6-27.7)	1,139 14.1 (13.3-15.0)				

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 81. Breast Cancer Mortality by Age Group and Gender, Nevada Residents,1996-2000

Age	Gender						
Group	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	2	2				
Rate*							
95% C.I.							
25-34	0	8	8				
Rate*							
95% C.I.							
35-44	1	89	90				
Rate*		12.3	6.0				
95% C.I.		(9.8-14.9)	(4.8-7.3)				
45-54	1	173	174				
Rate*		29.0	14.4				
95% C.I.		(24.7-33.3)	(12.3-16.5)				
55-64	5	236	241				
Rate*		54.6	28.0				
95% C.I.		(47.6-61.6)	(24.5-31.5)				
65-74	1	276	277				
Rate*		87.8	44.7				
95% C.I.		(77.5-98.2)	(39.4-49.9)				
75-84	3	230	233				
Rate*		127.6	71.1				
95% C.I.		(111.1-144.1)	(62.0-80.2)				
85+	0	114	114				
Rate*		238.6	161.8				
95% C.I.		(194.8-282.4)	(132.1-191.5)				
Unknown	0	0	0				
Total	11	1,128	1,139				
Rate*	0.2	24.7	12.2				
95% C.I.	(0.1-0.4)	(23.2-26.1)	(11.5-13.0)				

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

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

# Table 82. Median Age at Death from Breast Cancer by Race/Ethnicity and<br/>Gender, Nevada Residents, 1996-2000

	Gender								
Race/Ethnicity	Ма	le	Fem	ale	Total				
	Deaths	Median Age	Deaths	Median Age	Deaths	Median Age			
White	9	64.0	987	68.0	996	68.0			
Black	1		69	63.0	70	62.5			
Native American	1		5	57.0	6	58.0			
Asian	0		26	54.5	26	54.5			
Hispanic	0		41	59.0	41	59.0			
Other/Unknown	0		0		0				
Total	11	61.0	1,128	67.0	1,139	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**





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

#### Figure 61. Survival Rates for Breast Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1996-2000



## Table 83. Cause-Specific Survival Rates for Breast Cancer by Race/Ethnicityand Gender, Nevada Residents, 1996-2000

Race/			Cause Specific Survival Rate				
Ethnicity and Gender		One Year	Two Years	Three Years	Four Years	Five Years	Survival Time (years)
Total	3,910	94.2%	88.3%	81.8%	74.3%	72.8%	>5 years
Male	41						
Female	3,868	94.2%	88.4%	81.8%	74.3%	72.8%	>5 years
Race/Ethnicity							
White	3,462	94.4%	88.7%	82.4%	74.8%	73.9%	>5 years
Male	38						
Female	3,423	94.4%	88.9%	82.5%	74.8%	73.9%	>5 years
Black	170	86.5%	74.4%	69.8%	61.1%	47.5%	4.82
Male	2						
Female	168	86.4%	74.3%	69.7%	61.0%	47.4%	4.81
Native American	11						
Male	0						
Female	11						
Asian	96	95.7%	92.8%	87.8%	87.8%	87.8%	>5 years
Male	1						
Female	95	95.7%	92.8%	87.8%	87.8%	87.8%	>5 years
Hispanic	124	96.7%	86.8%	68.8%	62.8%	62.8%	>5 years
Male	0						
Female	124	96.7%	86.8%	68.8%	62.8%	62.8%	>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 84. Cause-Specific Survival Rates for Breast Cancer by Stage of Cancerat Diagnosis and Gender, Nevada Residents, 1996-2000

Survival Rate of Stage		Gender				
	t Diagnosis	Total	Male	Female		
Total	Cases	3,910	41	3,868		
	One Year	94.2%	96.4%	94.2%		
	5 Years	72.8%	71.3%	72.8%		
	Median Survival	>5 years	>5 years	>5 years		
Stage at Di	iagnosis					
In situ	Cases	581	4	577		
	One Year	100.0%	100.0%	100.0%		
	5 Years	96.7%	0.0%	96.7%		
	Median Survival	>5 years	0.00	>5 years		
Localized	Cases	1,962	24	1,937		
	One Year	99.1%	100.0%	99.1%		
	5 Years	86.4%	0.0%	86.4%		
	Median Survival	>5 years	0.00	>5 years		
Regional	Cases	964	7	957		
	One Year	97.0%	80.0%	97.1%		
	5 Years	68.1%	0.0%	68.1%		
	Median Survival	>5 years	0.00	>5 years		
Distant	Cases	208	2	206		
	One Year	52.6%	100.0%	52.4%		
	5 Years	6.0%	0.0%	6.0%		
	Median Survival	1.18	0.00	1.16		
Unstaged	Cases	195	4	191		
	One Year	71.8%	100.0%	71.0%		
	5 Years	24.9%	50.0%	21.6%		
	Median Survival	2.25	2.00	2.28		

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.