



**REPORT ON CANCER  
IN NEVADA  
1997-2001**

**A Comprehensive Report on Cancer from:  
Nevada Central Cancer Registry  
Nevada Death Registry  
Nevada Inpatient Hospital Discharge (UB92)  
Behavioral Risk Factor Surveillance Survey (BRFSS)**

Center for Health Data and Research  
Bureau of Health Planning and Statistics  
Nevada State Health Division  
Department of Human Resources

Kenny Guinn, Governor  
Michael J. Willden, Director  
Department of Human Resources

Alex Haartz, MPH, Administrator  
Bradford Lee, M.D., Health Officer  
Nevada State Health Division

# REPORT ON CANCER IN NEVADA 1997-2001

September 2004

Written, compiled and edited by:

Andrea Rivers, B.A.  
Contracting Clerical/ Management Assistant

Tim Pollard, B.A.  
Health Resource Analyst

Wei Yang, Ph.D.  
State Biostatistician and Director

Center for Health Data and Research  
Bureau of Health Planning and Statistics  
Emil DeJan, Bureau Chief  
Nevada State Health Division  
Department of Human Resources  
State of Nevada

---

## ACKNOWLEDGEMENTS

**Report Prepared by:**

Andrea Rivers, B.A.  
Contracting Clerical/ Management Assistant  
Center for Health Data and Research

Tim Pollard, B.A.  
Health Resource Analyst  
Center for Health Data and Research

Wei Yang, Ph.D.  
State Biostatistician and Director  
Center for Health Data and Research

**Data Provided By:**

Karen Power, M.P.H.  
Program Manager – Central Cancer Registry  
Bureau of Health Planning and Statistics  
3811 West Charleston, Suite 208  
Las Vegas, Nevada 89102  
Phone (702) 486-6260  
Fax (702) 486-7602  
<http://health2k.state.nv.us/cancer/>

Joseph Greenway, Director  
Center for Health Information Analysis  
University of Nevada, Las Vegas  
4505 Maryland Parkway, Box 455058  
Las Vegas, Nevada 89154-5058  
Phone (702) 895-4389  
Fax (702) 895-4276  
[http://www.unlv.edu/Research\\_Centers/chia/](http://www.unlv.edu/Research_Centers/chia/)

Jean Gunter, Program Officer  
Office of Vital Statistics  
Bureau of Health Planning and Statistics  
505 East King Street, Room 102  
Carson City, NV 89701  
Phone: (775) 684-4162  
Fax: (775) 684-4156  
<http://health2k.state.nv.us/vital/>

Judy Calder, Ed.D., Director  
Center for Applied Research  
College of Human and Community Sciences  
University of Nevada, Reno  
Reno, Nevada 89557-0017  
Phone: (775) 784-6718  
Fax: (775) 784-4506  
<http://sabcar.unr.edu/index.php>

## ACKNOWLEDGEMENTS

### (CONTINUED)

#### Editing Review and Comments:

Ihsan Azzam, M.P.H.  
Health Program Specialist  
Bureau of Community Health

Emil DeJan, M.P.H.  
Bureau Chief  
Bureau of Health Planning and Statistics

Bradford Lee, M.D.  
State Health Officer  
Nevada State Health Division

Deborah McBride, M.B.A.  
Health Program Manager  
Women's Health Connections  
Bureau of Community Health

Karen Power, M.P.H.  
Program Manager – Central Cancer Registry  
Bureau of Health Planning and Statistics

Randall Todd, Dr.P.H.  
State Epidemiologist

#### Cover Art Courtesy of:

Hardin MD online medical pictures at:  
<http://www.lib.uiowa.edu/hardin/md/pictures.html>.

More health information can be found online at the Center for Health Data and Research's Nevada Interactive Health Databases System at: <http://health2k.state.nv.us/nihds/center.htm>.

Readers of this publication are welcome to offer their suggestions and/or comments concerning this publication by filling out the attached form at the end of this report. Readers are also welcome to submit requests for additional information by submitting them to:

Center for Health Data and Research  
Bureau of Health Planning and Statistics  
Nevada State Health Division  
505 E. King Street, Room 102  
Carson City, NV 89701-4749  
Phone: (775) 684-4182  
Fax: (775) 684-4156  
E-mail: [wyang@nvhd.state.nv.us](mailto:wyang@nvhd.state.nv.us)

## PREFACE

This report provides a comprehensive overview of the risks and burden of cancer in Nevada from 1997 to 2001. Cancer represents a group of diseases that will affect nearly half of the population at some time during their lifetime. Nationally, cancer-related costs total billions of dollars in treatment annually. Cancer has also consistently been the second leading cause of death for Nevada and the Nation for the last 20 years. This report provides a variety of information on cancer from four different data sources and has been organized to focus on specific aspects of cancer, (e.g. screening, diagnosis, inpatient treatment, mortality, and survival rate) with each section adding to the overall picture of cancer in Nevada.

The first section provides a comparison of the 22 leading types of cancer that comprise 91.8% of all types of cancer in Nevada; including incidence, inpatient hospital discharges, mortality, and survival rate subsections for comparison.

The second section includes various statistics on all cancers, reported among Nevada residents, to provide a complete look at cancer in the state. There are subsections for diagnosis, treatment, mortality and survival rate statistics for the 1997 to 2001 period.

The top ten leading types of cancer diagnosed in Nevada from 1997 to 2001, which accounts for 74.9% of the total number of cancer cases, are then highlighted within their own section to provide a more detailed look at the types of cancer that are most prevalent in Nevada. The reader should note that these types of cancer are presented based on the number of cases reported. Therefore, those cancers whose ranking is within the top ten based on inpatient discharges or mortality are not necessarily highlighted within their own section.

Statistics on those cancers not highlighted in the top ten sections are available in the Overview section and in a general section for All Other Cancers at the end of this report, where the remaining twelve leading cancers are briefly profiled.

Each major section in this report includes regional, gender, racial/ethnic, and age statistics in order to draw attention to potential targets for prevention and treatment efforts. These efforts in prevention and treatment will help to achieve progress toward reducing the risks and burden of Cancer in Nevada.

For note, trend statistics are not included in this edition of the *Report on Cancer in Nevada* since the estimated completeness of earlier cancer reporting was significantly lower than in more recent years, which would significantly affect any trends that would be included in this report. However, trend information will be included in the next edition.

This report is also available online at the Center for Health Data and Research's website: <http://health2k.state.nv.us/nihds/publications/index.htm>

## TABLE OF CONTENTS

<b>ACKNOWLEDGEMENTS .....</b>	<b>i</b>
<b>PREFACE.....</b>	<b>1</b>
<b>TABLE OF CONTENTS .....</b>	<b>2</b>
<b>LIST OF FIGURES AND TABLES .....</b>	<b>6</b>
<b>TECHNICAL NOTES .....</b>	<b>29</b>
<b>OVERVIEW .....</b>	<b>36</b>
HIGHLIGHTS .....	37
INCIDENCE .....	45
HIGHLIGHTS .....	45
INPATIENT HOSPITAL DISCHARGES.....	58
HIGHLIGHTS .....	58
MORTALITY .....	66
HIGHLIGHTS .....	66
SURVIVAL RATE .....	75
HIGHLIGHTS .....	75
<b>ALL CANCERS .....</b>	<b>81</b>
HIGHLIGHTS .....	82
INCIDENCE .....	85
INPATIENT HOSPITAL DISCHARGES.....	93
MORTALITY .....	100
SURVIVAL RATE .....	107
<b>LUNG AND BRONCHUS CANCER.....</b>	<b>110</b>
GENERAL PROFILE.....	111
HIGHLIGHTS .....	112
INCIDENCE .....	114
INPATIENT HOSPITAL DISCHARGES.....	122
MORTALITY .....	129
SURVIVAL RATE .....	136
<b>BREAST CANCER .....</b>	<b>139</b>
GENERAL PROFILE.....	140
HIGHLIGHTS .....	141

SCREENING (BRFSS).....143

INCIDENCE .....144

INPATIENT HOSPITAL DISCHARGES.....152

MORTALITY .....159

SURVIVAL RATE .....166

**PROSTATE CANCER .....169**

    GENERAL PROFILE.....170

    HIGHLIGHTS .....171

    SCREENING (BRFSS).....174

    INCIDENCE .....175

    INPATIENT HOSPITAL DISCHARGES.....183

    MORTALITY .....190

    SURVIVAL RATE .....197

**COLORECTAL CANCER .....200**

    GENERAL PROFILE.....201

    HIGHLIGHTS .....202

    SCREENING (BRFSS).....205

    INCIDENCE .....206

    INPATIENT HOSPITAL DISCHARGES.....214

    MORTALITY .....221

    SURVIVAL RATE .....228

**URINARY BLADDER CANCER .....231**

    GENERAL PROFILE.....232

    HIGHLIGHTS .....233

    INCIDENCE .....235

    INPATIENT HOSPITAL DISCHARGES.....243

    MORTALITY .....250

    SURVIVAL RATE .....257

**NON-HODGKIN’S LYMPHOMA .....260**

    GENERAL PROFILE.....261

    HIGHLIGHTS .....262

    INCIDENCE .....264

    INPATIENT HOSPITAL DISCHARGES.....272

MORTALITY .....	279
SURVIVAL RATE .....	286
<b>KIDNEY AND RENAL PELVIS CANCER .....</b>	<b>289</b>
GENERAL PROFILE.....	290
HIGHLIGHTS .....	291
INCIDENCE .....	294
INPATIENT HOSPITAL DISCHARGES.....	302
MORTALITY .....	309
SURVIVAL RATE .....	316
<b>LEUKEMIA .....</b>	<b>319</b>
GENERAL PROFILE.....	320
HIGHLIGHTS .....	321
INCIDENCE .....	323
INPATIENT HOSPITAL DISCHARGES.....	331
MORTALITY .....	338
SURVIVAL RATE .....	345
<b>LIP, ORAL CAVITY AND PHARYNX CANCER.....</b>	<b>348</b>
GENERAL PROFILE.....	349
HIGHLIGHTS .....	350
INCIDENCE .....	352
INPATIENT HOSPITAL DISCHARGES.....	360
MORTALITY .....	367
SURVIVAL RATE .....	374
<b>PANCREATIC CANCER.....</b>	<b>377</b>
GENERAL PROFILE.....	378
HIGHLIGHTS .....	379
INCIDENCE .....	381
INPATIENT HOSPITAL DISCHARGES.....	389
MORTALITY .....	396
SURVIVAL RATE .....	403
<b>ALL OTHER CANCERS.....</b>	<b>406</b>
SKIN CANCER .....	408
UTERINE CANCER.....	412



OVARIAN CANCER .....416

THYROID GLAND CANCER.....420

BRAIN AND OTHER CENTRAL NERVOUS SYSTEM CANCER .....424

STOMACH CANCER .....428

LIVER AND INTRAHEPATIC BILE DUCTS CANCER .....432

CERVICAL CANCER.....436

ESOPHAGEAL CANCER .....441

LARYNX CANCER.....445

MULTIPLE MYELOMA .....449

HODGKIN’S LYMPHOMA .....453

ALL OTHER SITES .....457

**APPENDIX A – CODES USED FOR GROUPING .....460**

**APPENDIX B – FORMULAS .....465**

**REFERENCES.....468**

**FEEDBACK AND SUGGESTIONS .....469**

## LIST OF FIGURES AND TABLES

### HIGHLIGHTS

Figure 1. Top Ten Leading Types of Cancer by Percentage of Total Incidence, Discharges and Mortality, Nevada Residents, 1997-2001 .....	38
Figure 2. Highest Incidence to Mortality Age-Adjusted Rate Ratios by Type of Cancer, Nevada Residents, 1997-2001 .....	38
Figure 3. Lowest Incidence to Mortality Age-Adjusted Rate Ratios by Type of Cancer, Nevada Residents, 1997-2001 .....	39
Table 1. Nevada Incidence, Inpatient Hospital Discharges and Mortality by Type of Cancer, Nevada, 1997-2001 .....	40
Table 1. Nevada Incidence, Inpatient Hospital Discharges and Mortality by Type of Cancer, Nevada, 1997-2001 (Continued).....	41
Table 2. Leading Types of Cancer for Nevada Incidence, Inpatient Hospital Discharges and Mortality, Nevada Residents, 1997-2001 .....	42
Table 3. Top Ten Types of Cancer by Gender, Incidence, Hospital Discharges, and Mortality, Nevada Residents, 1997-2001 .....	43
Table 4. Incidence to Mortality Age-Adjusted Rate Ratios for the Leading Types of Cancer, Nevada Residents, 1997-2001 .....	44

### INCIDENCE

#### HIGHLIGHTS

Figure 4. Top Ten Leading Cancers as a Percentage of Total Cases, Nevada (1997-2001) and SEER-11 (1997-2001).....	46
Figure 5. Comparison of Age-Adjusted (2001) Incidence Rates of Blacks compared to Whites, Nevada Residents, 1997-2001 .....	46
Figure 6. Comparison of Age-Adjusted (2001) Incidence Rates of Native Americans compared to Whites, Nevada Residents, 1997-2001 .....	47
Figure 7. Comparison of Age-Adjusted (2001) Incidence Rates of Asians compared to Whites, Nevada Residents, 1997-2001 .....	47
Figure 8. Comparison of Age-Adjusted (2001) Incidence Rates of Hispanics compared to Whites, Nevada Residents, 1997-2001 .....	48
Table 5. Nevada Incidence by Type of Cancer, Nevada (1997-2001) and SEER-11 (1997-2001).....	49
Table 5. Nevada Incidence by Type of Cancer, Nevada (1997-2001) and SEER-11 (1997-2001) (Continued) .....	50
Table 6. Nevada Incidence by Type of Cancer and Gender, Nevada, 1997-2001 .....	51
Table 6. Nevada Incidence by Type of Cancer and Gender, Nevada, 1997-2001 (Continued).....	52
Table 7. Nevada Incidence by Type of Cancer and Stage of Cancer, Nevada, 1997-2001 .....	53
Table 7. Nevada Incidence by Type of Cancer and Stage of Cancer, Nevada, 1997-2001 (Continued).....	54
Table 8. Top Ten Types of Cancer Incidence by County/Region of Residence, Nevada Residents, 1997-2001 .....	55
Table 9. Top Ten Types of Cancer Incidence by Age Group, Nevada Residents, 1997-2001 .....	56

Table 10. Median Age at Time of Diagnosis by Leading Types of Cancer and Race/Ethnicity, Nevada Residents, 1997-2001 .....57

**INPATIENT HOSPITAL DISCHARGES**

**HIGHLIGHTS**

Figure 9. Top Ten Leading Cancers in Total Inpatient Discharge Charges, Nevada Residents, 1997-2001.....59

Figure 10. Top Ten Leading Cancers in Average Inpatient Discharge Charges, Nevada Residents, 1997-2001 .....59

Figure 11. Top Ten Leading Cancers in Median Inpatient Discharge Charges, Nevada Residents, 1997-2001 .....60

Figure 12. Top Ten Leading Cancers in Total Number of Days Stayed for Inpatient Hospital Discharges, Nevada Residents, 1997-2001 .....60

Figure 13. Top Ten Leading Cancers in Average Length of Stay (Days) for Inpatient Hospital Discharges, Nevada Residents, 1997-2001 .....61

Figure 14. Top Ten Leading Cancers in Median Length of Stay (Days) for Inpatient Hospital Discharges, Nevada Residents, 1997-2001 .....61

Table 11. Nevada Inpatient Hospital Discharges by Type of Cancer and Gender, Nevada, 1997-2001 62

Table 11. Nevada Inpatient Hospital Discharges by Type of Cancer and Gender, Nevada, 1997-2001 (Continued) .....63

Table 12. Top Ten Types of Cancer Inpatient Hospital Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....64

Table 13. Top Ten Types of Cancer Hospital Discharges by Age Group, Nevada Residents, 1997-2001.....65

**MORTALITY**

**HIGHLIGHTS**

Figure 15. Top Ten Leading Cancers by Percentage of Total Cancer Mortality, Nevada Residents, 1997-2001 .....67

Figure 16. Comparison of Age-Adjusted (2001) Mortality Rates of Blacks compared to Whites, Nevada Residents, 1997-2001 .....67

Figure 17. Comparison of Age-Adjusted (2001) Mortality Rates of Native Americans compared to Whites, Nevada Residents, 1997-2001 .....68

Figure 18. Comparison of Age-Adjusted (2001) Mortality Rates of Asians compared to Whites, Nevada Residents, 1997-2001 .....68

Figure 19. Comparison of Age-Adjusted (2001) Mortality Rates of Hispanics compared to Whites, Nevada Residents, 1997-2001 .....69

Table 14. Nevada Mortality by Type of Cancer and Gender,.....70

Nevada, 1997-2001 .....70

Table 14. Nevada Mortality by Type of Cancer and Gender,.....71

Nevada, 1997-2001 (Continued).....71

Table 15. Top Ten Types of Cancer Mortality by County/Region of Residence, Nevada Residents, 1997-2001 .....72

Table 16. Top Ten Types of Cancer Mortality by Age Group, Nevada Residents, 1997-2001 .....73

Table 17. Median Age at Time of Death by Leading Types of Cancer and Race/Ethnicity, Nevada Residents, 1997-2001 .....74

**SURVIVAL RATE**

**HIGHLIGHTS**

Figure 20. Ten Highest One-Year Survival Rates by Type of Cancer, Nevada Residents, 1997-2001 76  
 Figure 21. Ten Lowest One-Year Survival Rates by Type of Cancer, Nevada Residents, 1997-2001 76  
 Figure 22. Ten Highest Five-Year Survival Rates by Type of Cancer, Nevada Residents, 1997-2001 77  
 Figure 23. Ten Lowest Five-Year Survival Rates by Type of Cancer, Nevada Residents, 1997-2001 77  
 Table 18. One-Year, Five-Year and Median Survival Rates by Type of Cancer, Nevada Residents, 1997-2001 .....78  
 Table 19. One- and Five-Year Survival Rates by Type of Cancer and Gender, Nevada Residents, 1997-2001 .....79  
 Table 20. One- and Five-Year Survival Rates by Type of Cancer and Race/Ethnicity, Nevada Residents, 1997-2001 .....80

**ALL CANCERS**

**HIGHLIGHTS**

**INCIDENCE**

Figure 24. Age-Adjusted (2001) Incidence Rates for All Cancers, Nevada Residents, 1997-2001 ....85  
 Figure 25. All Cancers Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....86  
 Figure 26. All Cancers Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....86  
 Table 21. All Cancers Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....87  
 Table 22. All Cancers Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....88  
 Table 23. All Cancers Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001 ..89  
 Table 24. All Cancers Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....89  
 Table 25. All Cancers Cases by Age Group and Gender, Nevada Residents, .....90  
 1997-2001 .....90  
 Table 26. All Cancers Cases by Age Group and Stage, Nevada Residents, .....91  
 1997-2001 .....91  
 Table 27. Cancer Incidence by Stage and Race/Ethnicity, Nevada Residents, .....92  
 1997-2001 .....92  
 Table 28. Median Age at Diagnosis of All Cancers by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....92

**INPATIENT HOSPITAL DISCHARGES**

Figure 27. All Cancers Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001 .....93  
 Figure 28. All Cancers Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....94  
 Figure 29. Median Charges for All Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....94  
 Figure 30. Average Length of Stay for All Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....95  
 Table 29. All Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....96  
 Table 30. Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....97

Table 31. All Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001 98  
 Table 32. All Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001.....99  
 Table 33. All Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....99

**MORTALITY**

Figure 31. Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, .....100  
 1997-2001 .....100  
 Figure 32. Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....101  
 Figure 33. Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001 101  
 Table 34. All Cancers Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....101  
 Table 34. All Cancers Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....102  
 Table 35. All Cancers Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....103  
 Table 36. Cancer Mortality by County of Residence, Nevada Residents, .....104  
 1997-2001 .....104  
 Table 37. Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001.....104  
 Table 38. Cancer Mortality by Age Group and Gender, Nevada Residents, .....105  
 1997-2001 .....105  
 Table 39. Median Age at Death from All Cancers by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....106

**SURVIVAL RATE**

Figure 34. Survival Rates for All Cancers by Race/Ethnicity, Nevada Residents, 1997-2001 .....107  
 Figure 35. Survival Rates for All Cancers by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001.....107  
 Table 40. Cause-Specific Survival Rates for All Cancers by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....108  
 Table 41. Cause-Specific Survival Rates for All Cancers by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....109

**LUNG AND BRONCHUS CANCER**

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

Figure 36. Anatomy of the Respiratory Tract<sup>5</sup> .....111

**HIGHLIGHTS**

**INCIDENCE**

Figure 37. Lung and Bronchus Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001 .....114  
 Figure 38. Lung and Bronchus Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....115  
 Figure 39. Lung and Bronchus Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....115  
 Table 42. Lung and Bronchus Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001).....116

Table 43. Lung and Bronchus Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	117
Table 44. Lung and Bronchus Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001 .....	118
Table 45. Lung and Bronchus Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001.....	118
Table 46. Lung and Bronchus Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001.....	119
Table 47. Lung and Bronchus Cancer Cases by Age Group and Stage, Nevada Residents, 1997-2001.....	120
Table 48. Lung and Bronchus Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001.....	121
Table 49. Median Age at Diagnosis of Lung and Bronchus Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	121

#### INPATIENT HOSPITAL DISCHARGES

Figure 40. Lung and Bronchus Cancer Age-Adjusted (2001) Inpatient Hospital Discharge Rates, Nevada Residents, 1997-2001 .....	122
Figure 41. Lung and Bronchus Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	123
Figure 42. Median Charges for Lung and Bronchus Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	123
Figure 43. Average Length of Stay for Lung and Bronchus Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	124
Table 50. Lung and Bronchus Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	125
Table 51. Lung and Bronchus Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	126
Table 52. Lung and Bronchus Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001 .....	127
Table 53. Lung and Bronchus Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	128
Table 54. Lung and Bronchus Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....	128

#### MORTALITY

Figure 44. Lung and Bronchus Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001 .....	129
Figure 45. Lung and Bronchus Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	130
Figure 46. Lung and Bronchus Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	130
Table 55. Lung and Bronchus Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	130
Table 55. Lung and Bronchus Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	131
Table 56. Lung and Bronchus Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	132
Table 57. Lung and Bronchus Cancer Mortality by County of Residence, Nevada Residents, 1997-2001.....	133



Table 58. Lung and Bronchus Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....133

Table 59. Lung and Bronchus Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001.....134

Table 60. Median Age at Death from Lung and Bronchus Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....135

**SURVIVAL RATE**

Figure 47. Survival Rates for Lung and Bronchus Cancer by Race/Ethnicity, Nevada Residents, 1997-2001 .....136

Figure 48. Survival Rates for Lung and Bronchus Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....136

Table 61. Cause-Specific Survival Rates for Lung and Bronchus Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....137

Table 62. Cause-Specific Survival Rates for Lung and Bronchus Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....138

**BREAST CANCER**

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

Figure 49. Anatomy of the Breast<sup>5</sup> .....140

**HIGHLIGHTS**

**SCREENING (BRFSS)**

Table 63. Female Breast Cancer Screening by County/Region of Residence, Education, Age Group, and Income, Nevada Residents, 1997-2001 .....143

**INCIDENCE**

Figure 50. Female Breast Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001.....144

Figure 51. Female Breast Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....145

Figure 52. Female Breast Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....145

Table 64. Breast Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....146

Table 65. Female Breast Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....147

Table 66. Female Breast Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001 .....148

Table 67. Breast Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....148

Table 68. Breast Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001 .....149

Table 69. Breast Cancer Cases by Age Group and Stage, Nevada Residents, .....150

1997-2001 .....150

Table 70. Breast Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001 .....151

Table 71. Median Age at Diagnosis of Breast Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....151

**INPATIENT HOSPITAL DISCHARGES**

Figure 53. Female Breast Cancer Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001 .....152

Figure 54. Female Breast Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....153

Figure 55. Median Charges for Breast Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....153

Figure 56. Average Length of Stay for Breast Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....154

Table 72. Breast Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....155

Table 73. Female Breast Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....156

Table 74. Breast Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001.....157

Table 75. Female Breast Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....158

Table 76. Breast Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....158

**MORTALITY**

Figure 57. Female Breast Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001.....159

Figure 58. Female Breast Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....160

Figure 59. Female Breast Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....160

Table 77. Breast Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....160

Table 77. Breast Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....161

Table 78. Female Breast Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....162

Table 79. Female Breast Cancer Mortality by County of Residence, Nevada Residents, 1997-2001.....163

Table 80. Breast Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....163

Table 81. Breast Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001 .....164

Table 82. Median Age at Death from Breast Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....165

**SURVIVAL RATE**

Figure 60. Survival Rates for Breast Cancer by Race/Ethnicity, Nevada Residents, 1997-2001.....166

Figure 61. Survival Rates for Breast Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....166

Table 83. Cause-Specific Survival Rates for Breast Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....167

Table 84. Cause-Specific Survival Rates for Breast Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....168

**PROSTATE CANCER**

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

Figure 62. Anatomy of the Male Urogenital System<sup>5</sup> .....170



## HIGHLIGHTS

## SCREENING (BRFSS)

Table 85. Prostate Cancer Screening by County/Region of Residence, Education, Age Group, and Income, Nevada Residents, 1997, 1999 and 2001 .....	174
--	-----

## INCIDENCE

Figure 63. Prostate Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001 ..	175
Figure 64. Prostate Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	176
Figure 65. Prostate Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	176
Table 86. Prostate Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	177
Table 87. Prostate Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	178
Table 88. Prostate Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001 .....	179
Table 89. Prostate Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 ....	179
Table 90. Prostate Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001 .....	180
Table 91. Prostate Cancer Cases by Age Group and Stage, Nevada Residents, .....	181
1997-2001 .....	181
Table 92. Prostate Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001 .....	182
Table 93. Median Age at Diagnosis of Prostate Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	182

## INPATIENT HOSPITAL DISCHARGES

Figure 66. Prostate Cancer Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001 .....	183
Figure 67. Prostate Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	184
Figure 68. Median Charges for Prostate Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	184
Figure 69. Average Length of Stay for Prostate Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	185
Table 94. Prostate Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	186
Table 95. Prostate Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	187
Table 96. Prostate Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001 .....	188
Table 97. Prostate Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	189
Table 98. Prostate Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....	189

## MORTALITY

Figure 70. Prostate Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001 ..	190
Figure 71. Prostate Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	191

Figure 72. Prostate Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	191
Table 99. Prostate Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	191
Table 99. Prostate Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	192
Table 100. Prostate Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	193
Table 101. Prostate Cancer Mortality by County of Residence, Nevada Residents, 1997-2001 .....	194
Table 102. Prostate Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	194
Table 103. Prostate Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001 .....	195
Table 104. Median Age at Death from Prostate Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	196

#### SURVIVAL RATE

Figure 73. Survival Rates for Prostate Cancer by Race/Ethnicity, Nevada Residents, 1997-2001 ...	197
Figure 74. Survival Rates for Prostate Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....	197
Table 105. Cause-Specific Survival Rates for Prostate Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	198
Table 106. Cause-Specific Survival Rates for Prostate Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....	199

### COLORECTAL CANCER

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

Figure 75. Anatomy of the Digestive System <sup>5</sup> .....	201
---	-----

#### HIGHLIGHTS

#### SCREENING (BRFSS)

Table 107. Colorectal Cancer Screening by County/Region of Residence, Gender, Education, Age Group, and Income, Nevada Residents, 1997, 1999 and 2001 .....	205
---	-----

#### INCIDENCE

Figure 76. Colorectal Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001 .....	206
Figure 77. Colorectal Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	207
Figure 78. Colorectal Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	207
Table 108. Colorectal Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	208
Table 109. Colorectal Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	209
Table 110. Colorectal Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001 .....	210
Table 111. Colorectal Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	210
Table 112. Colorectal Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001 .....	211
Table 113. Colorectal Cancer Cases by Age Group and Stage, Nevada Residents, 1997-2001 .....	212
Table 114. Colorectal Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001 .....	213
Table 115. Median Age at Diagnosis of Colorectal Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	213

Residents, 1997-2001 .....	213
<b>INPATIENT HOSPITAL DISCHARGES</b>	
Figure 79. Colorectal Cancer Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001 .....	214
Figure 80. Colorectal Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	215
Figure 81. Median Charges for Colorectal Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	215
Figure 82. Average Length of Stay for Colorectal Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	216
Table 116. Colorectal Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	217
Table 117. Colorectal Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	218
Table 118. Colorectal Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001 .....	219
Table 119. Colorectal Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	220
Table 120. Colorectal Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....	220
<b>MORTALITY</b>	
Figure 83. Colorectal Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001	221
Figure 84. Colorectal Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	222
Figure 85. Colorectal Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	222
Table 121. Colorectal Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	222
Table 121. Colorectal Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	223
Table 122. Colorectal Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	224
Table 123. Colorectal Cancer Mortality by County of Residence, Nevada Residents, 1997-2001 .....	225
Table 124. Colorectal Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	225
Table 125. Colorectal Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001	226
Table 126. Median Age at Death from Colorectal Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	227
<b>SURVIVAL RATE</b>	
Figure 86. Survival Rates for Colorectal Cancer by Race/Ethnicity, Nevada Residents, 1997-2001	228
Figure 87. Survival Rates for Colorectal Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....	228
Table 127. Cause-Specific Survival Rates for Colorectal Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	229
Table 128. Cause-Specific Survival Rates for Colorectal Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....	230

**URINARY BLADDER CANCER****GENERAL PROFILE<sup>4</sup>**

Figure 88. Anatomy of the Urinary System <sup>5</sup> .....	232
---	-----

**HIGHLIGHTS****INCIDENCE**

Figure 89. Urinary Bladder Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001.....	235
Figure 90. Urinary Bladder Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	236
Figure 91. Urinary Bladder Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	236
Table 129. Urinary Bladder Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001).....	237
Table 130. Urinary Bladder Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001).....	238
Table 131. Urinary Bladder Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001 .....	239
Table 132. Urinary Bladder Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001.....	239
Table 133. Urinary Bladder Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001.....	240
Table 134. Urinary Bladder Cancer Cases by Age Group and Stage, Nevada Residents, 1997-2001.....	241
Table 135. Urinary Bladder Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001.....	242
Table 136. Median Age at Diagnosis of Urinary Bladder Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	242

**INPATIENT HOSPITAL DISCHARGES**

Figure 92. Urinary Bladder Cancer Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001 .....	243
Figure 93. Urinary Bladder Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	244
Figure 94. Median Charges for Urinary Bladder Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	244
Figure 95. Average Length of Stay for Urinary Bladder Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	245
Table 137. Urinary Bladder Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	246
Table 138. Urinary Bladder Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	247
Table 139. Urinary Bladder Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001.....	248
Table 140. Urinary Bladder Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001.....	249
Table 141. Urinary Bladder Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....	249

**MORTALITY**

Figure 96. Urinary Bladder Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-	
--	--

2001.....	250
Figure 97. Urinary Bladder Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	251
Figure 98. Urinary Bladder Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	251
Table 142. Urinary Bladder Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	251
Table 142. Urinary Bladder Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	252
Table 143. Urinary Bladder Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	253
Table 144. Urinary Bladder Cancer Mortality by County of Residence, Nevada Residents, 1997-2001.....	254
Table 145. Urinary Bladder Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	254
Table 146. Urinary Bladder Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001.....	255
Table 147. Median Age at Death from Urinary Bladder Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	256

#### SURVIVAL RATE

Figure 99. Survival Rates for Urinary Bladder Cancer by Race/Ethnicity, Nevada Residents, 1997-2001.....	257
Figure 100. Survival Rates for Urinary Bladder Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....	257
Table 148. Cause-Specific Survival Rates for Urinary Bladder Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	258
Table 149. Cause-Specific Survival Rates for Urinary Bladder Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....	259

#### NON-HODGKIN'S LYMPHOMA

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

Figure 101. Anatomy of the Lymphatic System.....	261
--	-----

##### HIGHLIGHTS

##### INCIDENCE

Figure 102. Non-Hodgkin's Lymphoma Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001 .....	264
Figure 103. Non-Hodgkin's Lymphoma Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	265
Figure 104. Non-Hodgkin's Lymphoma Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	265
Table 150. Non-Hodgkin's Lymphoma Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001).....	266
Table 151. Non-Hodgkin's Lymphoma Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	267
Table 152. Non-Hodgkin's Lymphoma Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001 .....	268



Table 153. Non-Hodgkin's Lymphoma Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	268
Table 154. Non-Hodgkin's Lymphoma Cases by Age Group and Gender, Nevada Residents, 1997-2001.....	269
Table 155. Non-Hodgkin's Lymphoma Cases by Age Group and Stage, Nevada Residents, 1997-2001.....	270
Table 156. Non-Hodgkin's Lymphoma Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001.....	271
Table 157. Median Age at Diagnosis of Non-Hodgkin's Lymphoma by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	271

#### INPATIENT HOSPITAL DISCHARGES

Figure 105. Non-Hodgkin's Lymphoma Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001 .....	272
Figure 106. Non-Hodgkin's Lymphoma Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001.....	273
Figure 107. Median Charges for Non-Hodgkin's Lymphoma Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	273
Figure 108. Average Length of Stay for Non-Hodgkin's Lymphoma Discharges by County/Region of Residence, Nevada Residents, 1997-2001.....	274
Table 158. Non-Hodgkin's Lymphoma Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	275
Table 159. Non-Hodgkin's Lymphoma Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	276
Table 160. Non-Hodgkin's Lymphoma Discharges by Age Group and Gender, Nevada Residents, 1997-2001 .....	277
Table 161. Non-Hodgkin's Lymphoma Discharges by County/Region of Residence, Nevada Residents, 1997-2001.....	278
Table 162. Non-Hodgkin's Lymphoma Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....	278

#### MORTALITY

Figure 109. Non-Hodgkin's Lymphoma Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001 .....	279
Figure 110. Non-Hodgkin's Lymphoma Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	280
Figure 111. Non-Hodgkin's Lymphoma Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001.....	280
Table 163. Non-Hodgkin's Lymphoma Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	280
Table 163. Non-Hodgkin's Lymphoma Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	281
Table 164. Non-Hodgkin's Lymphoma Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	282
Table 165. Non-Hodgkin's Lymphoma Mortality by County of Residence, Nevada Residents, 1997-2001.....	283
Table 166. Non-Hodgkin's Lymphoma Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	283
Table 167. Non-Hodgkin's Lymphoma Mortality by Age Group and Gender, Nevada Residents,	

1997-2001 .....	284
Table 168. Median Age at Death from Non-Hodgkin's Lymphoma by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	285

#### SURVIVAL RATE

Figure 112. Survival Rates for Non-Hodgkin's Lymphoma by Race/Ethnicity, Nevada Residents, 1997-2001 .....	286
Figure 113. Survival Rates for Non-Hodgkin's Lymphoma by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....	286
Table 169. Cause-Specific Survival Rates for Non-Hodgkin's Lymphoma by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	287
Table 170. Cause-Specific Survival Rates for Non-Hodgkin's Lymphoma by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....	288

### KIDNEY AND RENAL PELVIS CANCER

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

Figure 114. Anatomy of the Urinary System <sup>5</sup> .....	290
--	-----

#### HIGHLIGHTS

#### INCIDENCE

Figure 115. Kidney and Renal Pelvis Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001 .....	294
Figure 116. Kidney and Renal Pelvis Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	295
Figure 117. Kidney and Renal Pelvis Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	295
Table 171. Kidney and Renal Pelvis Cancer Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001).....	296
Table 172. Kidney and Renal Pelvis Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001).....	297
Table 173. Kidney and Renal Pelvis Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001 .....	298
Table 174. Kidney and Renal Pelvis Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	298
Table 175. Kidney and Renal Pelvis Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001 .....	299
Table 176. Kidney and Renal Pelvis Cancer Cases by Age Group and Stage, Nevada Residents, 1997-2001 .....	300
Table 177. Kidney and Renal Pelvis Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001 .....	301
Table 178. Median Age at Diagnosis of Kidney and Renal Pelvis Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	301

#### INPATIENT HOSPITAL DISCHARGES

Figure 118. Kidney and Renal Pelvis Cancer Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001 .....	302
Figure 119. Kidney and Renal Pelvis Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	303
Figure 120. Median Charges for Kidney and Renal Pelvis Cancer Inpatient Discharges by	

County/Region of Residence, Nevada Residents, 1997-2001 .....303

Figure 121. Average Length of Stay for Kidney and Renal Pelvis Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....304

Table 179. Kidney and Renal Pelvis Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....305

Table 180. Kidney and Renal Pelvis Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....306

Table 181. Kidney and Renal Pelvis Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001 .....307

Table 182. Kidney and Renal Pelvis Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....308

Table 183. Kidney and Renal Pelvis Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....308

**MORTALITY**

Figure 122. Kidney and Renal Pelvis Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001 .....309

Figure 123. Kidney and Renal Pelvis Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....310

Figure 124. Kidney and Renal Pelvis Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....310

Table 184. Kidney and Renal Pelvis Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....310

Table 184. Kidney and Renal Pelvis Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....311

Table 185. Kidney and Renal Pelvis Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....312

Table 186. Kidney and Renal Pelvis Cancer Mortality by County of Residence, Nevada Residents, 1997-2001 .....313

Table 187. Kidney and Renal Pelvis Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....313

Table 188. Kidney and Renal Pelvis Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001 .....314

Table 189. Median Age at Death from Kidney and Renal Pelvis Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....315

**SURVIVAL RATE**

Figure 125. Survival Rates for Kidney and Renal Pelvis Cancer by Race/Ethnicity, Nevada Residents, 1997-2001 .....316

Figure 126. Survival Rates for Kidney and Renal Pelvis Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....316

Table 190. Cause-Specific Survival Rates for Kidney and Renal Pelvis Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....317

Table 191. Cause-Specific Survival Rates for Kidney and Renal Pelvis Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....318

**LEUKEMIA**

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

Figure 127. Anatomy of Stem Cell Maturation .....320



HIGHLIGHTS

INCIDENCE

Figure 128. Leukemia Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001 .....323

Figure 129. Leukemia Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....324

Figure 130. Leukemia Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001.....324

Table 192. Leukemia Cases by Gender, Race/Ethnicity and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....325

Table 193. Leukemia Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....326

Table 194. Leukemia Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001.327

Table 195. Leukemia Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....327

Table 196. Leukemia Cases by Age Group and Gender, Nevada Residents, .....328

1997-2001 .....328

Table 197. Leukemia Incidence by Age Group and Stage, Nevada Residents, .....329

1997-2001 .....329

Table 198. Leukemia Cases by Stage and Race/Ethnicity, .....330

Nevada Residents, 1997-2001 .....330

Table 199. Median Age at Diagnosis of Leukemia by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....330

INPATIENT HOSPITAL DISCHARGES

Figure 131. Leukemia Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001.....331

Figure 132. Leukemia Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....332

Figure 133. Median Charges for Leukemia Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....332

Figure 134. Average Length of Stay for Leukemia Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....333

Table 200. Leukemia Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....334

Table 201. Leukemia Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....335

Table 202. Leukemia Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001 336

Table 203. Leukemia Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....337

Table 204. Leukemia Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....337

MORTALITY

Figure 135. Leukemia Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001 .....338

Figure 136. Leukemia Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....339

Figure 137. Leukemia Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001.....339

Table 205. Leukemia Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada

Residents, 1997-2001 .....339

Table 205. Leukemia Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....340

Table 206. Leukemia Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....341

Table 207. Leukemia Mortality by County of Residence, Nevada Residents, .....342  
1997-2001 .....342

Table 208. Leukemia Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....342

Table 209. Leukemia Mortality by Age Group and Gender, Nevada Residents, 1997-2001 .....343

Table 210. Median Age at Death from Leukemia by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....344

**SURVIVAL RATE**

Figure 138. Survival Rates for Leukemia by Race/Ethnicity, Nevada Residents, 1997-2001 .....345

Figure 139. Survival Rates for Leukemia by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....345

Table 211. Cause-Specific Survival Rates for Leukemia by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....346

Table 212. Cause-Specific Survival Rates for Leukemia by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....347

**LIP, ORAL CAVITY AND PHARYNX CANCER**

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

Figure 140. Anatomy of the Oral Cavity<sup>5</sup> .....349

**HIGHLIGHTS**

**INCIDENCE**

Figure 141. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001 .....352

Figure 142. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....353

Figure 143. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....353

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) .....354

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).....355

Table 215. Lip, Oral Cavity and Pharynx Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997-2001 .....356

Table 216. Lip, Oral Cavity and Pharynx Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....356

Table 217. Lip, Oral Cavity and Pharynx Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001 .....357

Table 218. Lip, Oral Cavity and Pharynx Cancer Cases by Age Group and Stage, Nevada Residents, 1997-2001 .....358

Table 219. Lip, Oral Cavity and Pharynx Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001 .....359

Table 220. Median Age at Diagnosis of Lip, Oral Cavity and Pharynx Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	359
---	-----

#### INPATIENT HOSPITAL DISCHARGES

Figure 144. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001 .....	360
Figure 145. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	361
Figure 146. Median Charges for Lip, Oral Cavity and Pharynx Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	361
Figure 147. Average Length of Stay for Lip, Oral Cavity and Pharynx Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	362
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 .....	363
Table 222. Lip, Oral Cavity and Pharynx Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	364
Table 223. Lip, Oral Cavity and Pharynx Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001 .....	365
Table 224. Lip, Oral Cavity and Pharynx Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	366
Table 225. Lip, Oral Cavity and Pharynx Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....	366

#### MORTALITY

Figure 148. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001 .....	367
Figure 149. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	368
Figure 150. Lip, Oral Cavity and Pharynx Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	368
Table 226. Lip, Oral Cavity and Pharynx Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....	369
Table 227. Lip, Oral Cavity and Pharynx Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	370
Table 228. Lip, Oral Cavity and Pharynx Cancer Mortality by County of Residence, Nevada Residents, 1997-2001 .....	371
Table 229. Lip, Oral Cavity and Pharynx Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	371
Table 230. Lip, Oral Cavity and Pharynx Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001 .....	372
Table 231. Median Age at Death from Lip, Oral Cavity and Pharynx Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	373

#### SURVIVAL RATE

Figure 151. Survival Rates for Lip, Oral Cavity and Pharynx Cancer by Race/Ethnicity, Nevada Residents, 1997-2001 .....	374
Figure 152. Survival Rates for Lip, Oral Cavity and Pharynx Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....	374
Table 232. Cause-Specific Survival Rates for Lip, Oral Cavity and Pharynx Cancer by	

Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	375
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 .....	376

## PANCREATIC CANCER

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

Figure 153. Anatomy of the Endocrine System <sup>5</sup> .....	378
--	-----

### HIGHLIGHTS

#### INCIDENCE

Figure 154. Pancreatic Cancer Age-Adjusted (2001) Incidence Rates, Nevada Residents, 1997-2001	381
Figure 155. Pancreatic Cancer Age-Adjusted Incidence Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	382
Figure 156. Pancreatic Cancer Age-Adjusted Incidence Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....	382
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) .....	383
Table 235. Pancreatic Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	384
Table 236. Pancreatic Cancer Cases by County of Residence at Diagnosis, Nevada Residents, 1997- 2001 .....	385
Table 237. Pancreatic Cancer Cases by Race/Ethnicity and Gender, Nevada Residents, 1997-2001	385
Table 238. Pancreatic Cancer Cases by Age Group and Gender, Nevada Residents, 1997-2001 .....	386
Table 239. Pancreatic Cancer Cases by Age Group and Stage, Nevada Residents, 1997-2001 .....	387
Table 240. Pancreatic Cancer Cases by Stage and Race/Ethnicity, Nevada Residents, 1997-2001 .....	388
Table 241. Median Age at Diagnosis of Pancreatic Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....	388

#### INPATIENT HOSPITAL DISCHARGES

Figure 157. Pancreatic Cancer Age-Adjusted (2001) Inpatient Discharge Rates, Nevada Residents, 1997-2001 .....	389
Figure 158. Pancreatic Cancer Age-Adjusted Inpatient Discharge Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....	390
Figure 159. Median Charges for Pancreatic Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	390
Figure 160. Average Length of Stay for Pancreatic Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	391
Table 242. Pancreatic Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	392
Table 243. Pancreatic Cancer Inpatient Discharges by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	393
Table 244. Pancreatic Cancer Inpatient Discharges by Age Group and Gender, Nevada Residents, 1997-2001 .....	394
Table 245. Pancreatic Cancer Inpatient Discharges by County/Region of Residence, Nevada Residents, 1997-2001 .....	395
Table 246. Pancreatic Cancer Inpatient Discharges by Age Group, Charges and Length of Stay, Nevada Residents, 1997-2001 .....	395

#### MORTALITY

Figure 161. Pancreatic Cancer Age-Adjusted (2001) Mortality Rates, Nevada Residents, 1997-2001 396

Figure 162. Pancreatic Cancer Age-Adjusted Mortality Rates by County/Region of Residence, Nevada Residents, 1997-2001 .....397

Figure 163. Pancreatic Cancer Age-Adjusted Mortality Rates by Race/Ethnicity, Nevada Residents, 1997-2001 .....397

Table 247. Pancreatic Cancer Mortality by Gender, Race/Ethnicity and County/Region of Residence, Nevada Residents, 1997-2001 .....398

Table 248. Pancreatic Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....399

Table 249. Pancreatic Cancer Mortality by County of Residence, Nevada Residents, 1997-2001 ...400

Table 250. Pancreatic Cancer Mortality by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....400

Table 251. Pancreatic Cancer Mortality by Age Group and Gender, Nevada Residents, 1997-2001 401

Table 252. Median Age at Death from Pancreatic Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....402

**SURVIVAL RATE**

Figure 164. Survival Rates for Pancreatic Cancer by Race/Ethnicity, Nevada Residents, 1997-2001 403

Figure 165. Survival Rates for Pancreatic Cancer by Stage of Cancer at Diagnosis, Nevada Residents, 1997-2001 .....403

Table 253. Cause-Specific Survival Rates for Pancreatic Cancer by Race/Ethnicity and Gender, Nevada Residents, 1997-2001 .....404

Table 254. Cause-Specific Survival Rates for Pancreatic Cancer by Stage of Cancer at Diagnosis and Gender, Nevada Residents, 1997-2001 .....405

**ALL OTHER CANCERS**

Table 255. Cancer Incidence, Inpatient Hospital Discharges and Mortality by Type of Cancer, Nevada Residents, 1997-2001 .....407

**SKIN CANCER**

Figure 166. Anatomy of the Skin<sup>4</sup> .....408

Table 256. Skin Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....409

Table 257. Skin Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....410

Table 258. Skin Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....411

**UTERINE CANCER**

Figure 167. Anatomical Drawing of Female Reproductive System<sup>4</sup> .....412

Table 259. Uterine Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....413

Table 260. Uterine Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....414

Table 261. Uterine Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....415

**OVARIAN CANCER**

Figure 168. Anatomical Drawing of Female Reproductive System<sup>4</sup> .....416



Table 262. Ovarian Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	417
Table 263. Ovarian Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	418
Table 264. Ovarian Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	419

### THYROID GLAND CANCER

Figure 169. Anatomical Drawing of the Thyroid Gland <sup>4</sup> .....	420
Table 265. Thyroid Gland Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	421
Table 266. Thyroid Gland Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	422
Table 267. Thyroid Gland Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	423

### BRAIN AND OTHER CENTRAL NERVOUS SYSTEM CANCER

Figure 170. Anatomical Drawing of the Brain and Nearby Structures <sup>4</sup> .....	424
Table 268. Brain and Other Central Nervous System Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	425
Table 269. Brain and Other Central Nervous System Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001.....	426
Table 270. Brain and Other Central Nervous System Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	427

### STOMACH CANCER

Figure 171. Anatomical Drawing of the Esophagus and Stomach <sup>5</sup> .....	428
Table 271. Stomach Cancer Mortality by Age Group and County/Region of Residence at Diagnosis, Nevada Residents, 1997-2001 .....	429
Table 272. Stomach Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	430
Table 273. Stomach Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	431

### LIVER AND INTRAHEPATIC BILE DUCTS CANCER

Figure 172. Anatomical Drawing of the Digestive System <sup>5</sup> .....	432
Table 274. Liver and Intrahepatic Bile Ducts Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001).....	433
Table 275. Liver and Intrahepatic Bile Ducts Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	434
Table 276. Liver and Intrahepatic Bile Ducts Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	435

### CERVICAL CANCER

Figure 173. Anatomical Drawing of the Female Reproductive System <sup>4</sup> .....	436
Table 277. Cervical Cancer Screening by County/Region of Residence, Education, Age Group, and Income, Nevada Residents, 1997-2001 .....	437
Table 278. Cervical Cancer Cases by Age Group and County/Region of Residence at Diagnosis,	

Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	438
Table 279. Cervical Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	439
Table 280. Cervical Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	440

### ESOPHAGEAL CANCER

Figure 174. Anatomical Drawing of the Esophagus and Stomach <sup>5</sup> .....	441
Table 281. Esophageal Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	442
Table 282. Esophageal Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	443
Table 283. Esophageal Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	444

### LARYNX CANCER

Figure 175. Anatomy of the Oral Cavity <sup>5</sup> .....	445
Table 284. Larynx Cancer Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	446
Table 285. Larynx Cancer Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	447
Table 286. Larynx Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	448

### MULTIPLE MYELOMA

Figure 176. Picture of Myeloma Cells <sup>4</sup> .....	449
Table 287. Multiple Myeloma Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	450
Table 288. Multiple Myeloma Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	451
Table 289. Multiple Myeloma Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	452

### HODGKIN'S LYMPHOMA

Figure 177. Anatomy of the Lymphatic System <sup>4</sup> .....	453
Table 290. Hodgkin's Lymphoma Cases by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	454
Table 291. Hodgkin's Lymphoma Inpatient Discharges by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	455
Table 292. Hodgkin's Lymphoma Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	456

### ALL OTHER SITES

Table 293. Cancer Cases for All Other Sites by Age Group and County/Region of Residence at Diagnosis, Nevada Residents (1997-2001) and SEER-11 (1997-2001) .....	457
Table 294. Inpatient Discharges for All Other Sites by Gender, Charges, Length of Stay, and County/Region of Residence, Nevada Residents, 1997-2001 .....	458
Table 295. All Other Sites Cancer Mortality by Age Group and County/Region of Residence, Nevada Residents, 1997-2001 .....	459

**APPENDIX A – CODES USED FOR GROUPING**

Table 296. ICD-O Codes Used .....461  
Table 296. ICD-O Codes Used (Continued) .....462  
Table 297. ICD-9 and ICD-10 Codes Used .....463  
Table 297. ICD-9 and ICD-10 Codes Used (Continued).....464

**APPENDIX B – FORMULAS**

**REFERENCES**

**FEEDBACK AND SUGGESTIONS**



## TECHNICAL NOTES

This report brings together information from four primary data sources. The Nevada Central Cancer Registry (NCCR) within the Bureau of Health Planning and Statistics provided cancer incidence data. The Center for Health Information Analysis at the University of Nevada, Las Vegas (UNLV) provided inpatient hospital discharge (UB92) data. The Office of Vital Records (OVR), also within the Bureau of Health Planning and Statistics, provided the mortality data for this report. The Center for Applied Research at the University of Nevada, Reno (UNR) provided the Behavioral Risk Factor Surveillance System (BRFSS) data that were used to determine the rates of cancer screening.

General considerations that were made for this report include:

- **Aggregation of Data**

This is a statistical report. Every attempt has been made to present the data in a format that does not allow the identification of any individual. While demographic information such as sex, race/ethnicity and age has been included in aggregate form, no attempt should be made to identify any individual detailed in this report.

- **Types of Cancer Classification Systems**

The classification of the types of cancer was based upon a different coding system for each data source. The NCCR uses the International Classification of Disease, Oncology coding structure (ICD-O) that includes Topography (Primary Site) as well as Morphology (Tumor Type). This is similar to the ICD-10 system used in the 1999 and 2001 mortality data, to classify types of cancers. The 1997 to 1998 mortality data were coded using the ICD-9 classification system, which was also used by the inpatient hospital discharge data. A more detailed description of the codes used for this report is listed under considerations for each data source below, as well as in Appendix B.

- **Each data source is exclusive**

While this report presents cancer data from four different sources, it is important to remember that each dataset is external to the others. Individual records were not linked for this report, so caution should be used when comparing data from each data source.

- **Selection of Residence**

Only those events where the person was recorded as a Nevada resident at the time of diagnosis, time of discharge or time of death were included in this report. Those individuals who were listed as an Out of State resident were excluded.

- **County/Region of Residence**

This report details regional data as: Clark County, Washoe County and All Other Counties, as regions. This aggregation of the 15 remaining counties within Nevada was implemented to accommodate the significantly smaller population

sizes in these counties. Aggregation of the smaller population minimizes any fluctuations in the disease rates presented in this report that may occur due to the large variance in the number of cancer events for each area due to the small size of the resident population for these remaining counties. The counties included in the All Other Counties region are: Carson City, Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lincoln, Lyon, Mineral, Nye, Pershing, Storey, and White Pine.

- **Map Representation**

The maps presented in this report are provided to facilitate visual comparisons of rates within the state. However, caution should be used when interpreting these rates due to the small cell size and large variance that are present within many of the smaller counties in Nevada.

- **Gender Specific Cancer Rates**

For gender specific cancers, such as Prostate, Female Breast, Cervix Uteri, Corpus Uteri & Uterus Not Otherwise Specified (NOS), and Ovary Cancers the rates listed in this report are per 100,000 gender-specific population, unless otherwise noted.

- **Calculation of Rates and Confidence Intervals**

Rates and their respective confidence intervals were not calculated for those categories where the number of events was less than ten.

- **Racial/Ethnic Groups**

Race/ethnicity groups used in this report: White, Black, Native American, Asian, and Hispanic were calculated to be mutually exclusive, except for the National rates where a similar population base could not be calculated. So, National rates for racial/ethnic groups are calculated based on either the race or ethnicity listed on the record. These rates may not be directly comparable with others listed in this report.

While every effort was made to develop reliable comparisons between all the data sources, each source had their own unique factors to consider. Below, in detail, are the specific differences between each source and how this report uses each type of information.

## **CANCER INCIDENCE STATISTICS:**

The cancer incidence statistics used for this report are from the NCCR, which compiles cancer cases that are reported by, or abstracted from, hospitals and pathology labs in Nevada. Both Chapter 457 of the Nevada Revised Statutes and those regulations adopted by the State Board of Health regulate the Nevada Central Cancer Registry. More information on the reporting of information on cancer can be found under Chapter 457 of the Nevada Administrative Code. The NCCR also receives information from other states on Nevada residents who were diagnosed, or are being treated, in other states. The main considerations for this data source include:

- **Cancer Registry Reporting**

The NCCR is a population-based registry. The validity of the numbers and rates used in this report depend on the completeness of cancer reporting, as well as the accuracy of the population estimates used. The North American Association of Central Cancer Registries (NAACCR) estimates the most current year of data presented in this report (2001) at 100% complete for case ascertainment and meets all other requirements for gold certification. The estimated average completeness for case ascertainment over the five years of data presented in this report is 93.2%, which exceeds the 90% case ascertainment requirement set by NAACCR for gold certification.

- **Updated Data**

The NCCR is constantly being updated with new information, so the numbers published in this report may not match, or be directly comparable, with previously published data. The data that are presented in this report are from the NCCR as of June 2004.

- **Type of Cancers Reported**

The number of cases included in this report are those reported as having an invasive disease, except for Breast and Urinary Bladder Cancer that also include those diagnosed with an in situ cancer. This distinction is not available in the other data sources.

- **Type of Cancer Classification System**

The type of cancer was classified based on ICD-O2 Topography and Morphology codes. These codes provide levels of detail to the type of cancer that are not included in either the inpatient hospital discharge or mortality data. A detailed list of the actual groupings used for cancer incidence data, using both Topography and Morphology codes, can be found in Appendix B.

- **Survival Rates & Calculation**

The survival rates listed in this report may not be directly comparable to National survival statistics. The reader should exercise caution in comparing statistics listed in this report to those nationally reported. Major factors that should be considered are:

1. The survival rates do not include those reported as an Autopsy Only or Death Certificate Only (DCO) case.
2. Only those individuals who died from cancer and those still alive at last update are included in these calculations. Those dying from other causes of death are not included. However, it should be noted that the cause of death is not necessarily specific to the type of cancer listed at time of diagnosis. This is to include those cases where the cancer may have metastasized to another site.
3. The NCCR actively matches registry records to the Nevada Death Registry on a continuous basis. National statistics are usually based on

data submitted at a certain point in time without future updates and data improvements. While calculations account for this difference, caution should be used when comparing the two areas.

4. Those individuals who are recorded as having multiple primaries are included for the first primary only.
5. Calculations exclude records with invalid dates and unknown ages.
6. National statistics typically exclude those cases not actively followed. This report does not make this exclusion.

## **INPATIENT HOSPITAL DISCHARGE STATISTICS:**

Inpatient Hospital Discharge data used for this report were compiled by the Center for Health Information Analysis (CHIA) at the University of Nevada, Las Vegas (UNLV/CHIA) from the universal billing form #92, (UB92) for inpatient hospital discharges. These data represent patients discharged from January 1, 1997 through December 31, 2002, inclusive. This information was gathered and computerized by UNLV/CHIA as part of a contractual agreement between the Department of Human Resources and the University of Nevada under the authority granted in Section 439B of the Nevada Revised Statutes. The information was then given to the Center for Health Data and Research where it was analyzed for this report.

The main considerations for this data source include:

- **Primary Diagnosis Selection**

The number of resident inpatient discharges detailed in this report is based on a primary diagnosis of cancer. However, the database contains up to fourteen additional diagnoses. The difference between the two classifications is that there were 59,688 inpatient discharges that had cancer as any of the fifteen diagnoses. The number drops to 33,235 for those with cancer as the primary diagnosis. So, approximately 58.6% of the inpatient discharges related to cancer are published in this report. This was done to minimize any confusion that might occur from someone being treated for different types of cancer, as well as to focus on those discharges where cancer was the primary reason for being admitted.

- **Occurrence Based Data**

These statistics are based on the occurrence of inpatient hospital discharges. An individual could be counted more than once had they been admitted to the hospital for cancer more than once during this period. So, caution should be used when comparing inpatient hospital discharge data to the other data sources in this report.

- **Type of Cancer Classification System**

The inpatient hospital discharge statistics were coded with the ICD-9 system. This is the same structure that is used for the 1997 to 1998 mortality data. However, mortality data changed in 1999 to the ICD-10 version. A detailed list of the codes used to produce the groupings provided in this report for inpatient hospital discharge statistics can be found in Appendix B.

- **Racial/Ethnic Groups**

Race/ethnicity information is not available in this database.

## **MORTALITY STATISTICS:**

Mortality statistics used in this report are from the Nevada Death Registry maintained by the Office of Vital Records. The OVR, within the Bureau of Health Planning and Statistics, is the official government entity that collects, processes and maintains the State of Nevada's vital records. Deaths are first recorded at the county level before being forwarded to the State Registrar. Funeral Directors, or persons acting as such, are legally charged with filing death certificates.

These certificates are checked for completeness and accuracy and then entered into a database on the State mainframe computer system. When a certificate is found to be inaccurate or incomplete, staff follow up with the providing entity in accordance with NRS 440.150 to make the necessary corrections and/or additions to make the record satisfactory and complete. It should be noted that the quality of mortality data presented in this report is directly related to the accuracy and completeness of the information contained on the death certificates.

The main considerations for this data source include:

- **Underlying Cause of Death**

The mortality data presented in this report are classified by the underlying (primary) cause responsible for death. Only those deaths where the underlying cause of death was cancer are included in this report.

- **Type of Cancer Classification System**

The 1997 to 1998 data used for this report were originally coded using the ICD-9 coding structure, while the 1999 and 2002 data were coded using the ICD-10 system. The ICD-9 system is a purely numeric coding system while the ICD-10 is an alphanumeric system. While there are many similarities between the ICD-9 and ICD-10 groupings, there are some differences between the types of cancer within the two versions. While there are comparability ratios available for the conversion between the two systems, the groups used in this report are based upon some customized groupings of which comparability ratios are unavailable. The mortality numbers in this report have not been adjusted for coding differences that may have occurred with the transition from the ICD-9 to ICD-10 system. A detailed list of the actual groupings used for cancer mortality data, with both the ICD-9 and ICD-10 codes, can be found in Appendix B.

## CANCER SCREENING STATISTICS:

The cancer screening data shown in this report come from the Behavioral Risk Factor Surveillance System (BRFSS), which is funded by the Center for Disease Control and Prevention (CDC). The data were compiled by the Center for Applied Research at the University of Nevada, Reno (UNR/CAR), through the nation's largest telephone survey. The survey covers years from 1996 to 2001. This information was gathered and computerized by the Center for Applied Research as part of a contractual agreement between the Department of Human Resources and the University of Nevada. The information was then given to the Center for Health Data and Research where it was analyzed for this report.

The main considerations for this data source include:

- **Age of Respondents**

The survey covers only those people 18 years of age and older.

- **Frequency of questions**

The tables presented in this report are not for 1996 to 2001 inclusively. Some of the questions were asked on alternate years, while some have only been asked once. So, caution should be used when comparing these data.

- **Weighted percentages**

The percentages listed in this report are weighted on the survey population characteristics and may not match percentages that are directly calculated from the numbers listed in the table.

## NATIONAL STATISTICS:

The only national cancer statistics provided in this report are for cancer incidence. This information is from the National Cancer Institute's Surveillance, Epidemiology and End Results (SEER) program. This program is the most comprehensive source of population-based cancer incidence information available for the United States. SEER covers approximately 14 percent of the US population through 11 population-based cancer registries and three supplemental registries.

The information presented in this report is based upon the customized use of SEER's public-use data featured within the SEER\*Stat program. The databases used for calculations were the "SEER 11 Registries Public-Use Nov 2001 Sub for Expanded Races (1992-2001)" and "SEER 11 Registries Public-Use Nov 2001 Sub for Hispanics (1992-2001)". These databases are based upon SEER's 11 population-based cancer registries, which are: Atlanta, Connecticut, Detroit, Hawaii, Iowa, Los Angeles, New Mexico, San Francisco-Oakland, San Jose-Monterey, Seattle-Puget Sound, and Utah. These registries have been designed to represent the incidence of cancer within the aggregate population of the United States.

The main considerations for this data source include:

- **Aggregation of Data**

National statistics published in this report follow the guidelines in the SEER Public-Use data agreement. Therefore, those categories where the number is less than five are not shown.

- **Cancer Registry Reporting**

The national data in this report are based upon data collected from population-based registries. The validity of the numbers and rates used in this report depend upon the completeness of the cancer reporting, as well as the accuracy of the population estimates used.

- **Period of Reportable Data**

The most recent SEER data available are for the 1995 to 2001 period. So, it should be noted that comparisons in this report are based upon the 1997 to 2002 period for Nevada and the 1996 to 2001 period nationally.

- **Type of Cancers Reported**

The number of cases listed in this report are those cases reported as having malignant behavior, except for Breast and Urinary Bladder Cancer that include those diagnosed with an in situ behavior, in order to be comparable with Nevada data.

- **Prostate Cancer Stage Revision**

Prostate Cancer cases where the stage of cancer at time of diagnosis was originally coded as “Localized/regional (Prostate Cases 1995+)” are shown as localized within this report. Therefore, there will not be any regionally diagnosed cases of Prostate Cancer for the Nation listed in this report.

- **Racial/Ethnic Groups**

Race/ethnicity groupings, similar to Nevada, were not available for rates, since the population estimates provided in SEER\*Stat were not organized in a similar format. Rates were available by either race or ethnicity, which means that the national rates presented in this report represent rates of Whites, Blacks, Native Americans and Asians (of any ethnicity) and Hispanics (of any race). Caution should be used when interpreting these rates, which may not be directly comparable with others listed in this report.

## **POPULATION ESTIMATES:**

The Nevada population data used in this report are based on the database established by the Nevada State Demographer’s Office and the Nevada Department of Taxations, as well as 1990 and 2001 Census data from the US Bureau of the Census.