

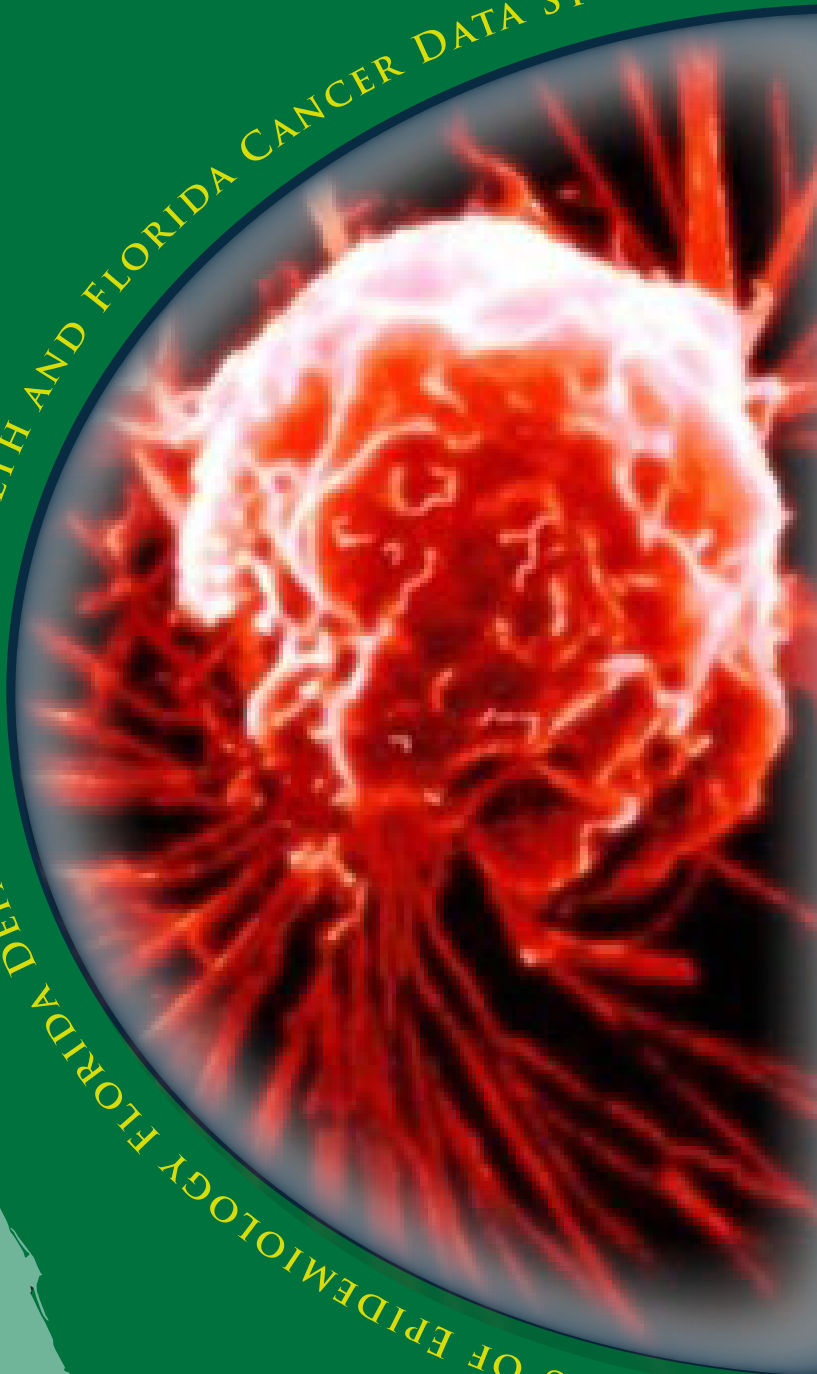
# FLORIDA ANNUAL

## CANCER REPORT:

● 2008 INCIDENCE AND MORTALITY



BUREAU OF EPIDEMIOLOGY FLORIDA DEPARTMENT OF HEALTH AND FLORIDA CANCER DATA SYSTEM





# FLORIDA ANNUAL CANCER REPORT: 2008 INCIDENCE AND MORTALITY

Rick Scott  
Governor

John H. Armstrong, M.D.  
State Surgeon General



## **Florida Department of Health**

### **Division of Disease Control, Bureau of Epidemiology**

Cizao Ren, M.D., M.S., Ph.D.

Sokny Lim, M.P.H.

Tara Hylton, M.P.H.

Youjie Huang, M.D., M.P.H., Dr.P.H.

### **Florida Cancer Data System**

Jaclyn Button, M.S.

Brad Wohler, M.S.

Gary Levin, B.A., C.T.R.

Jill MacKinnon, Ph.D., C.T.R.

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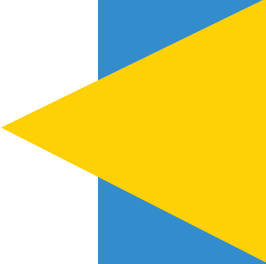
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**FLORIDA DEPARTMENT OF HEALTH  
DIVISION OF DISEASE CONTROL  
BUREAU OF EPIDEMIOLOGY  
AND  
FLORIDA CANCER DATA SYSTEM**

**Florida Department of Health  
4052 Bald Cypress Way, Bin A-12  
Tallahassee, FL 32399-1720**

Telephone: 850.245.4401; Fax: 850.922.9299  
Florida Department of Health: [www.doh.state.fl.us](http://www.doh.state.fl.us)  
Florida Cancer Data System: [fcds.med.miami.edu](http://fcds.med.miami.edu)





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## EXECUTIVE SUMMARY

## EXECUTIVE SUMMARY

During 2008, physicians diagnosed 105,207 primary cancers in Florida, compared to 103,075 cases in 2007. A total of 40,621 Floridians died of cancer in 2008, compared to 39,782 in 2007. Cancer was the second leading cause of death in Florida in 2008, surpassed only by heart disease. Of the leading causes of death, cancer ranked first in terms of years of potential life lost (YPLL) with 292,661 YPLL to age 75, surpassing heart disease and stroke combined (208,436 YPLL) and unintentional injuries (231,726 YPLL).

Cancers of the lung and bronchus, prostate, female breast, colon and rectum, bladder, head and neck, non-Hodgkin lymphoma, and melanoma in whites accounted for 68% of the incident cancer cases in Florida in 2008.

The age-adjusted incidence rate for all cancers combined in Florida in 2008 was 437.5 (CI 434.8-440.2) per 100,000 population, which was significantly lower (6%) than the SEER-9 (Surveillance, Epidemiology, and End Results Program, registered in Atlanta, Connecticut, Detroit, Hawaii, Iowa, New Mexico, San Francisco-Oakland, Seattle-Puget, and Utah) registries rate of 463.4 (CI 460.9-465.4) per 100,000 population.

Compared to whites, blacks in Florida had higher incidence rates of prostate and colorectal cancers, but lower rates of the lung and bronchus, bladder and head and neck, non-Hodgkin lymphoma, and ovarian cancers. Blacks had higher mortality rates for prostate, breast, colorectal, and cervical cancer, but lower rates of ovarian cancer in 2008.

In the past 28 years, the racial disparity in incidence rates decreased for cancer of the lung and bronchus and head and neck cancer in males; for breast cancer, non-Hodgkin lymphoma, and cervical cancer in females; and colorectal cancer in both sexes. The racial disparity in incidence rates increased for prostate cancer and non-Hodgkin lymphoma in males. The racial disparity in mortality rates decreased for cancer of the lung and bronchus and head and neck cancer in males, and increased for colorectal cancer in both sexes, and ovarian cancer.

Compared to the 2008 national mortality statistics from the National Center for Health Statistics (NCHS), Florida's age-adjusted mortality rates for all cancers combined were lower than national mortality rates for both sexes and races, and all sex-race groups. The Florida rates were 8% lower for white males and 13% lower for black males than national mortality rates reported by the Centers for Disease Control and Prevention (CDC) National Center for Health Statistics (NCHS). NCHS reported 216 deaths per 100,000 population among males and 148 deaths per 100,000 population among females compared to 199 per 100,000 population in males and 132 per 100,000 population in females in Florida, respectively.

In 2008, cancer accounted for 292,661 years of potential life lost (YPLL), 22% of the YPLL for all causes of death. The cancers contributing the most to YPLL were cancer of the lung and bronchus, breast cancer, colorectal cancer and non-Hodgkin lymphoma. The average YPLL per death from breast cancer (10.1 years) was more than four times the average YPLL from prostate cancer (2.4 years). Cervical cancer had the highest YPLL, 20.2 years for black females, and 18.5 years for white females. The largest racial disparities in YPLL were for non-Hodgkin lymphoma (19.0 years for blacks, 5.9 years for whites) and breast cancer (15.0 years for black females, 9.1 years for white females). For all cancers combined, the average YPLL for blacks was 11.8 years; for whites, 6.6 years.

The distribution of the types of cancer varies by age. Among children less than age 15, leukemia and cancer of the brain and nervous system had the highest age-specific incidence rates. In the group age 15 to 39, breast and thyroid cancers had the highest incidence rates in females; prostate and non-Hodgkin lymphoma were highest in males. For the group age 40 to 64, the rates for breast cancer in females and prostate cancer in males were the highest, and in the group age 65 and older, the incidence rate of cancer of the lung and bronchus is highest in both sexes, followed by breast cancer in females and prostate cancer in males.

Tobacco use is a key risk factor for cancer-related morbidity and mortality. In 2008, 19,247 tobacco-related cancers were diagnosed among those age 35 and older. Approximately 12,088 cancer deaths in 2008 were attributable to tobacco use.

Florida hospitals reported 85,139 hospital discharges with cancer as the primary diagnosis in 2008. Cancer patients stayed in hospitals for a total of 541,201 days in 2008. Total hospital charges for hospitalizations with cancer as the primary diagnosis were \$4.5 billion in 2008. Including charges for patients with cancer as a secondary diagnosis increases the total hospital charges for cancer to \$9.6 billion.

# INTRODUCTION

## BACKGROUND AND HISTORY

The Florida Department of Health (DOH) Bureau of Epidemiology, in collaboration with the Florida Cancer Data System (FCDS), publishes the Annual Cancer Report to provide information about cancer incidence, stage, mortality, screening, and hospitalization in Florida.

Cancer incidence data are collected, verified, and maintained by FCDS, the Florida statewide cancer registry. FCDS is administered by DOH and operated by the Sylvester Comprehensive Cancer Center at the University of Miami Miller School of Medicine.

FCDS began operation with a pilot project for cancer registration in 1979 and commenced statewide collection of cancer incidence data from all Florida hospitals in 1981. FCDS now collects incidence data from hospitals, freestanding ambulatory surgical centers, radiation therapy facilities, pathology laboratories, and dermatopathologists' offices.

More information about cancer incidence and mortality in Florida can be found on FCDS web site at: [www.fcds.med.miami.edu](http://www.fcds.med.miami.edu) and on DOH, Bureau of Epidemiology web site at: [www.doh.state.fl.us/disease\\_ctrl/epi/cancer/CancerIndex.htm](http://www.doh.state.fl.us/disease_ctrl/epi/cancer/CancerIndex.htm).

## PURPOSE

The purpose of this report is to present an overview of cancer in Florida for researchers, policy makers, health professionals, and the public. This publication is intended as a record of the current status of cancer in Florida and a tool for healthcare planning.

Trends in cancer incidence and mortality rates are included to provide a perspective from which to assess the effectiveness of cancer prevention and education initiatives, new screening procedures, and treatment modalities. The estimated prevalence of screening for several types of cancer in Florida is included to assist in planning and evaluating cancer prevention programs. Hospital discharge data present some components of the burden of cancer in the state.

This report provides cancer-related data to stimulate cancer research, to advance the state's cancer control and surveillance activities, and to help improve treatment for cancer patients and the efficacy of cancer prevention in Florida. DOH and FCDS welcome suggestions for enhancing the usefulness of this report to its readers.

## INTRODUCTION TO CONTENTS

The format of the current report remains similar to the previous report, *Florida Annual Cancer Report: 2007 Incidence and Mortality*. The tables and figures show new case and death counts, and incidence and mortality rates for all cancers combined, eight of the most frequently diagnosed cancers, and two other cancers of interest.

Cancer incidence and mortality data are presented in separate sections with counts and rates by sex, race, age group, and county. County tables show data for all the residents of each county, combining both sexes and all races. Maps of incidence and mortality rates for selected cancers by county are presented in Appendix E.

Stage at diagnosis is a factor in the prognosis of many cancers. This report presents data on cancer stage for the current year and stage trends since 1981. Additional figures show the percentage of advanced stage cancer by sex, race, and age group for all cancer and for individual cancers. These data may help to identify areas where further educational efforts should be most effective.

The mortality section includes data on years of potential life lost (YPLL) to cancer and other causes of premature death, and deaths-to-cases ratios. YPLL measures the years of life lost from death before age 75. This measure illustrates the cost of productive years eliminated by premature death and the importance of reducing those costs. Deaths-to-cases ratios are indicators of the prognosis for various cancers.

The cancer screening section presents data from the Florida Behavioral Risk Factor Surveillance System (BRFSS). Data on the prevalence of screening provide a means of assessing the effectiveness of efforts to promote early detection.

The section on tobacco-related cancers is presented to track the progress in eradicating a well-known destructive behavior. This section contains figures showing the prevalence of current cigarette use and the incidence and mortality rates for the cancers associated with tobacco use.

Data on the number of hospitalizations, length of hospital stay, and hospital charges for inpatients with cancer are included in an effort to describe one aspect of the burden of cancer in Florida. The data are derived from the Agency for Health Care Administration (AHCA) hospital discharge records for which cancer is coded as the primary diagnosis. Although hospitalizations account for only a fraction of the overall burden of cancer, these data are indicators of several other substantial components of that burden: the psychosocial burden of extended hospitalizations on patients and their families; the economic burden on patients and insurance providers; and the burden of providing care and expensive technology on hospital systems.

## ADJUSTMENTS SINCE THE LAST CANCER REPORT

Incidence Figures 2-3 and Mortality Figures 14-15 were modified to show data for all sex-race groups on the same scale to facilitate comparison among the groups. Incidence Figure 5 and Mortality Figure 17 were reorganized to display all sex-race groups for each age group together on one graph, to show the variation in age-specific rates by year within each age group. Tables were added to the incidence section to compare age-adjusted rates for 2008 for Florida and the SEER-9 (Surveillance, Epidemiology and End Results Program) registries, and to the mortality section to compare Florida with U.S. mortality, for both sexes, for blacks and whites, and for the four sex-race groups.

## METHODS

### SOURCES OF DATA

#### Incidence

FCDS provided data for this report on cancer incidence and stage at diagnosis. Hospitals, pathology laboratories, ambulatory surgical centers, radiation therapy facilities, and physicians' offices report new cancer cases to FCDS per section 385.202, *Florida Statutes (F.S.)*.

Incidence rates are based on cancers diagnosed in Florida residents during 2008. The data do not include cancers diagnosed before a person became a Florida resident. The majority of cancer cases in Florida residents diagnosed in other states are captured in the FCDS database through sharing of cancer incidence data among states, according to the North American Association of Central Cancer Registries (NAACCR) Procedure Guidelines (page two, Series I, Data Exchange). Cases are tallied according to the year of initial diagnosis. People with multiple primary cancers contribute multiple records to the database.

FCDS has implemented various case-finding strategies to ensure the completeness of the database. New procedures are introduced to adapt to changes in the diagnosis and treatment of cancer in outpatient settings.

A procedure referred to as "mortality follow-back" ascertains unreported cancer cases from death data. Death certificates are checked annually to identify cancer-related deaths. If a cancer-related death is found without a matching incidence record, it is investigated to obtain a cancer incidence abstract. An incidence record is created based on information from the death certificate only when information regarding a cancer-related death is not available from the hospital or physician. Death-certificate-only cases are included in the FCDS database for all years since 1991.

A similar process implemented by FCDS in 1995 uses hospital discharge data from the Florida Agency for Health Care Administration (AHCA) to identify missed cases. All hospital discharge records for patients in Florida with a diagnosis of cancer are compared to FCDS database. Cancer cases in AHCA data that are missing in FCDS database are "followed back" to the hospital to obtain complete reports. The follow-back procedure has also been employed to obtain new cancer cases from ambulatory surgical centers since 1997.

NAACCR has established guidelines to evaluate data from its member registries. Six criteria measure data quality, timeliness, and completeness. FCDS has achieved the highest standard defined by NAACCR, receiving "Gold Certification" for quality, completeness, and timeliness for data collected each year from 2000 to 2008.

#### Prevalence of Cancer Screening and Current Cigarette Use

Since 1986, Florida has used the BRFSS survey to collect data on the prevalence of cancer screening in Floridians. The Florida BRFSS is an anonymous telephone survey of adults age 18 years and older in households with telephones. The Florida survey is part of a larger, ongoing study sponsored by the CDC to survey and monitor major behavioral risks



for premature morbidity and mortality among adults. Respondents are randomly selected to ensure that survey data are representative of all adults.

Survey respondents were asked if they had ever received certain cancer screening tests and when their last screening examinations occurred. For breast cancer, females age 40 and older were asked if they received a mammogram test or a clinical breast examination within the past two years. Females age 18 and older were asked if they received a Pap smear testing for cervical cancer within the past two years. For colorectal cancer, residents age 50 and older were asked if they received a sigmoidoscopy examination within the past five years and fecal occult blood tests (FOBT) within the past two years. For prostate cancer, males age 40 and older were asked if they received a prostate specific antigen (PSA) test and digital rectal examination within the past two years.

The prevalence of current smoking was estimated based on the BRFSS survey data. Current smokers were defined as adults who had smoked at least 100 cigarettes during their life and were smokers on some or all of the past 30 days when the survey was conducted. More information about the Florida BRFSS can be found on DOH website: [www.doh.state.fl.us/disease\\_ctl/epi/brfss/index.htm](http://www.doh.state.fl.us/disease_ctl/epi/brfss/index.htm). BRFSS results by state since 1995 are available online at: <http://apps.nccd.cdc.gov/brfss/index.asp>.

## Mortality

The Florida DOH Office of Vital Statistics provides information on cancer deaths in Florida from death certificates. Cancer deaths are defined as those for which the underlying cause of death on the death certificate is cancer. The underlying cause of death is coded according to the International Classification of Diseases, Tenth Edition (ICD-10). All deaths are tabulated of Florida residents with an underlying cause of ICD-10 codes B21.\_, C00 through C97, and D45.\_ to D47.\_ that have been confirmed as cancer-related deaths through follow-back.

## Hospital Discharge

AHCA provides hospital inpatient discharge data that include length of hospital stay and charges for inpatients with a principal diagnosis of cancer. All acute care hospitals and short-term psychiatric hospitals licensed under Chapter 395, *F.S.*, are required to report inpatient discharge data to AHCA. The conditions leading to hospitalization are coded according to the International Classification of Diseases, Ninth Edition, Clinical Modification (ICD-9-CM). Cancer discharges are defined as those for which the principal diagnosis is cancer (ICD-9-CM code range from 140 through 239). These data are presented by patients' county of residence, as well as by sex and race.

## Population

The Florida Consensus Estimating Conference provided population estimates for 2008 as well as adjusted population estimates for 1981 to 2008. Population figures for 2008 are presented in Appendix A.1 for the state and for each sex, race, and age group. Appendix A.2 lists population figures for Florida counties. Appendix B shows population by race and sex from 1981 to 2008.

The 2000 United States (U.S.) standard million population was first used for *the 1998 Florida Annual Cancer Report* to calculate age-adjusted incidence and mortality rates, following national reporting guidelines. Incidence and mortality rates standardized to the 2000 U.S.

standard million population cannot be compared to rates standardized to another population, such as the 1970 U.S. standard million population. Therefore, the age-adjusted rates in this report cannot be meaningfully compared to those in Florida Annual Cancer Reports prior to 1998. For trend analyses, all rates in this report have been age-adjusted to the 2000 standard. For more information about the differences in rates due to age-adjustment with these standard populations, see “Age-adjusting to the Year 2000 Standard” under the heading “Education and Training, Training Modules Online” at NAACCR web site at: <http://www.naaccr.org>.

## DEFINITIONS

### County of Residence

In this report, the geographical variable is the county of residence at diagnosis. For the purpose of brevity and clarity in section, figure and table titles, the county of residence at diagnosis is referred to as “county” throughout.

### Deaths-to-Cases Ratios

The deaths-to-cases ratios in the mortality section are calculated by dividing the number of deaths with a particular cancer as the underlying cause in a given year by the number of new cancers of that type diagnosed in the same year. The deaths-to-cases ratio provides a simplified indication of the prognosis for patients with different types of cancer. A lower ratio indicates fewer deaths relative to the number of cases and suggests a better prognosis. A ratio approaching 1.0 indicates a poor prognosis. Ratios greater than 1.0 are possible when deaths due to cancers diagnosed in previous years cause the number of deaths to exceed the number of new cancers diagnosed in a particular year.

### Diagnosis

Primary diagnosis is the condition chiefly responsible for the admission of the patient to the hospital for care.

Secondary diagnosis is the condition that affects patient management and/or consumes hospital resources.

### Incidence

Incidence is defined as the number of new cancers diagnosed in the population at risk in 2008. The population considered at risk for cancer in this report is the entire resident population of Florida in 2008. Specifying other population characteristics such as sex, race, age, or county of residence further subdivides the population at risk of developing cancer.

### Median

The median is the middle value of an ordered set of numbers: half the values are greater than the median and half are less than the median. The median is less sensitive to extreme values than the mean, and a better measure of central tendency for data with skewed distributions.



## Mortality

Mortality is defined as the number of deaths from cancer in the population at risk in 2008. A cancer death is defined as a death for which cancer is determined to be the underlying cause of death based on the death certificate. The population considered at risk in this report is the entire resident population of Florida in 2008. Mortality is examined based on sex, race, age, and county of residence.

## Prevalence

Current cigarette use and cancer screening prevalence data from the Florida BRFSS are presented in this report. Prevalence is defined as the percentage of people who have received cancer screening or who currently smoke cigarettes in Florida's population at the time of survey. The prevalence data are weighted to represent the entire adult population of the state. Data weighting is a statistical procedure that incorporates factors such as the probability of the interviewee being selected for the survey, and the sex, race, and age distribution of the population. Since the Florida BRFSS survey is a random survey, sampling errors are inherent and a 95% confidence interval is calculated for each prevalence estimate.

## Race

FCDS collects information on the racial background of each person diagnosed with cancer in Florida. In this report, comparisons are made between two racial groups, black and white. Both black and white races include people of various ethnic origins. The remaining racial groups account for 2.7% of the population and 1.6% of cancer cases diagnosed in Florida in 2008. Cancers in people of "Other" races are included in Florida total rates and counts, as well as in the totals by sex.

## Rates

### *Crude Rates*

The crude rate is the total number of new cancer cases diagnosed, or cancer deaths, in a given period divided by the total population at risk in that period. Crude rates are expressed per 100,000 population per year. The calculation of the crude rate (**M**) can be written as:

$$M = N/P \times 100,000$$

where **N** is the total number of new cases or deaths in a period, and **P** is the population at risk in the same period.

### *Age-Specific Rates*

The age-specific rate is the number of new cancer cases or deaths occurring in people in a given age group divided by the population in that age group in a given period expressed per 100,000 population. For the rate calculations in this report, age groups are defined by each five-year interval of age: 0 to 4, 5 to 9, 10 to 14, .... 85+. The age-specific rate ( $\lambda_i$ ) is calculated as:

$$\lambda_i = n_i/p_i \times 100,000$$

where  $i$  is the age group,  $n_i$  is the number of new cancer cases or deaths in the age group in a given period, and  $p_i$  is the population at risk in the age group in the same period.

### Age-Adjusted Rates

Age is an important factor in cancer incidence and mortality. Since cancer occurs more often in the elderly, populations with a high proportion of older people will have more cancer cases and deaths than populations with a high proportion of younger people. Because age distributions differ greatly among Florida counties and races, the impact of age is standardized in this report in order to make valid comparisons of incidence and mortality. Age-adjustment is a process to correct for the differences in cancer cases and death counts caused by differing age composition among different populations and counties. The direct method of age-adjustment is used to calculate age-adjusted incidence and mortality rates in this report. The standard population used in this report is the 2000 U.S. standard population, in accordance with the 1998 U.S. Department of Health and Human Services recommendation. The age-adjusted rate ( $\Lambda$ ) is defined as:

$$\Lambda = \sum(\lambda_i w_i)$$

where  $i$  is the age group,  $\lambda_i$  is the age-specific rate for an age group, and  $w_i$  is the proportion of individuals in the 2000 U.S. standard population in that age group.

### Confidence Intervals

Confidence intervals (CIs) provide a measure of the stability of a calculated incidence rate, mortality rate, or prevalence. The report uses a 95% CI for all rates and prevalence calculations. A 95% confidence interval is the range within which the true rate or prevalence will be found 95% of the time. A narrower CI indicates greater accuracy of the rate. Calculation of the 95% CI follows the methods published in *Technical Appendix from Vital Statistics of United States: Mortality, National Center for Health Statistics, 1995*.

### Comparison of Rates

Age-adjusted incidence and mortality rates are compared for differences between sub-populations. In this report, one rate is significantly higher or lower than another when the 95% CI of the two rates do not overlap. This comparison is not a statistical test. See *Overlapping confidence intervals are not a statistical test* by Daniel Smith (2005) (<http://www.amstat.org/chapters/sacramento/Smithpresentation.pdf>) for the consequences of “significance” derived by the CI method.

### Union County Rates

In the county tables shown in this report Union County often has “the highest” age-adjusted incidence or mortality rate for all cancers combined or for many specific cancers. The Florida Department of Corrections (DOC) maintains a hospital at the correctional facility Reception and Medical Center (RMC) in Union County. That hospital provides inpatient medical care for the inmates of DOC facilities in the 51 counties comprising three of the four state prison systems. Inmates diagnosed with cancer at this hospital have an address in Union County and are counted as Union County cases. However, the total inmate population of the DOC facilities in those 51 counties is not included in the population at risk (e.g., current Union County population). Therefore, both incidence and mortality in Union County are inflated.

## Smoking-Attributable Cancer Deaths

### METHODS

Smoking-attributable cancer deaths were calculated using the methodology developed by the CDC. The methods involve calculation of smoking-attributable fractions (SAFs) of deaths for smoking-related cancers using sex-specific smoking prevalence and relative risk (RR) of death data for current and former smokers age 35 and older. SAFs for each disease and sex are derived from the following formula:

$$\text{SAF} = [(p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)) - 1] / [p_0 + p_1(\text{RR}_1) + p_2(\text{RR}_2)]$$

where  $p_0$  is the percentage of adults who never smoked,  $p_1$  is the percentage of adult current smokers,  $p_2$  is the percentage of adult former smokers,  $\text{RR}_1$  is the relative risk of death for adult current smokers relative to adults who never smoked, and  $\text{RR}_2$  is the relative risk of death for adult former smokers relative to adults who never smoked.

The smoking-attributable deaths (SAD) are then calculated by multiplying the age- and sex-specific SAFs and the number of deaths for each smoking-related cancer:

$$\text{SAD} = \text{Number of deaths} \times \text{SAF}$$

Summing across age categories provides the sex-specific estimate of SAD for each disease. Total SAD is the sum of the sex-specific SAD estimates.

The SAD estimates for each age category, stratified by sex and grouped by underlying disease category, are multiplied by the remaining life expectancy of people at the midpoint of each age range. The resulting numbers for all age categories are summed to obtain YPLL attributable to smoking. The total YPLL is the sum of the male and female YPLL within each disease category.

The details of the methodology, including the relative risks by sex and age group, can be found at the CDC web site: <http://apps.nccd.cdc.gov/sammec/methodology.asp>.

## Stage of Cancer

Advanced-stage cancer is categorized in this report as regional stage cancer or distant stage cancer. Regional stage cancer is defined as cancer that has spread beyond the primary (original) site to nearby lymph nodes, organs, or tissues. Distant stage cancer refers to cancer that has spread from the primary site to distant organs or distant lymph nodes. Hematopoietic diseases, such as leukemia and multiple myeloma, are considered distant stage cancers.

*In situ* cancers are tumors that fulfill all the microscopic criteria for malignancy except invasion through the basement membrane. *In situ* cancers are early cancers that have not spread to neighboring tissue. Classification of these tumors is not uniform across pathologists (Schottenfeld and Fraumeni, 1996, page 159), yielding less reliable reporting of *in situ* cancers than of later stage cancers. Therefore, cancer incidence figures reported here exclude *in situ* cancers, except for bladder cancer. For all other cancer sites, local, regional, distant, and cancers of unknown stage are included in the counts and the incidence rates.

## Suppression of Data

In the tables and maps, counts in cells with fewer than ten cases or deaths, and rates calculated from fewer than ten cases or deaths, are suppressed. When the number of cases or deaths is very small, the rates calculated are not stable. In addition, suppressing small numbers prevents possible identification of individuals, ensuring patient confidentiality.

## Trend Interpretation (Incidence)

To maintain consistency between this and the previous annual report, the incidence data used to prepare the 2008 report does not include the new cases for any diagnosis year preceding 2007 that were received after final closing for each year. After the final closing for any year, more than 3,500 new unduplicated cancer incidence cases are submitted to FCDS. The effect of excluding the cases diagnosed in previous diagnosis years but reported after final closing may be to suppress an increase of nearly 3% in incidence rate for all cancer combined in Florida residents. This increase may alter the slope and possibly the direction of the trends. Therefore, all incidence trends should be carefully examined and the conclusions of any analyses critically evaluated from this perspective.

## Years of Potential Life Lost

Counts or rates of incidence and mortality represent part of the burden of cancer. There are indirect costs to society due to cancer, such as diminished quality of life and years of potential life lost (YPLL). YPLL is a measurement of life lost due to premature death from cancer. DOH publications, such as Vital Statistics and Data Analysis, use age 75 as the average life expectancy in the YPLL calculations. That standard is used in this report. For each Florida resident who died at age 74 or younger, YPLL is calculated by subtracting age at death from 75. The individual YPLL numbers are then summed to generate the total YPLL.

## CLASSIFICATION

The cancer sites for which incidence data are presented are classified according to the International Classification of Diseases for Oncology, Third Edition (ICD-O-3). The International Classification of Diseases, Tenth Revision (ICD-10), is used to code cancer deaths, and the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), is used for classification of diagnoses in hospitals.

Rules for coding multiple tumors in one individual as a single cancer or as multiple primary cancers are specified in the Multiple Primary and Histology Coding Rules, SEER Program, National Institutes of Health, 2007. The site of origin, diagnosis dates, histology, and laterality are the major factors employed to determine if a group of tumors should be coded as single or multiple tumors. Special rules are used to define multiple primaries of the lymphatic and hematopoietic systems.

## REPORTED CANCER SITES

### Selected Sites

In this report, analysis is limited to the eight cancer sites with the highest number of incident cases, as well as cervical and ovarian cancer. The eight highest ranked sites – lung

and bronchus, prostate, female breast, colorectal, bladder, head and neck, non-Hodgkin lymphoma, and melanoma – account for 68% of the incident cancers in Florida in 2008. Cervical cancer was included as the ninth site because of the availability of a screening test and the potential to reduce advanced-stage occurrence and early deaths from this cancer. Cancer of the cervix has the highest average years of potential life lost of the ten reported cancers. Ovarian cancer is one of the cancers addressed statewide by the Florida Comprehensive Cancer Control Program.

Cancer of the uterus is one of the highest ranked cancers in females age 40 and older. However, it is not among the sites with the highest overall incidence and has been excluded from the selected cancer sites on that basis. Uterine cancer data appear in Tables 29 and 30, and in Figures 1, 13, 23, 24, and 25, in which comprehensive sets of cancers are displayed by age group as percentage of new cases and deaths.

Cancer of the pancreas is one of eight highest ranked cancers in terms of mortality, but not incidence. To maintain the consistency of the tables and figures, pancreatic cancer data is not presented individually in this report, except in Figures 1 and 13.

Data on melanoma in blacks are included only in Figures 1, 13, 23, 24, and 25, and as part of total counts and rates for Florida. There were 32 new cases and seven deaths from melanoma reported among blacks in 2008; these numbers are too small to perform any reliable analysis. For similar reasons, 228 new cases and 40 deaths from breast cancer in males are omitted from analyses, except as part of the Florida total counts and rates.

### Other Sites

The “All Other” cancer site category used in Figures 1 and 13 includes the following types of cancer: small intestine, anus, intrahepatic bile duct, gallbladder, other biliary, retroperitoneum, peritoneum, omentum, mesentery, other digestive organs, bones and joints, soft tissue and heart, nasal cavity, accessory sinuses, pleura, trachea, mediastinum and other respiratory organs, uterus not otherwise specified (NOS), vagina, vulva, other female genital organs, testis, penis and other male genital organs, ureter and other urinary organs, eye and orbit, thymus and other endocrine glands, Hodgkin disease, mesothelioma, Kaposi’s sarcoma, and ill-defined and unspecified sites. The ICD-O-3 codes and ICD-10 codes for these and other sites used in the report are shown in Appendix D.

### Tobacco-Related Cancers

The 2004 Surgeon General’s Report, *Health Consequences of Smoking: A Report of the Surgeon General* at: [www.cdc.gov/Tobacco/sgr/sgr\\_2004/index.htm](http://www.cdc.gov/Tobacco/sgr/sgr_2004/index.htm), presents strong scientific evidence that many cancers are associated with tobacco use. These cancers are acute myeloid leukemia, cancers of the lip, pancreas, trachea, lung and bronchus, larynx, esophagus, cervix, bladder, kidney, stomach, oral cavity, and pharynx.

# CANCER INCIDENCE

## NEW CASES

INCIDENCE

- There were 105,207 new primary cancers diagnosed in Florida residents in 2008, an increase of 2,132 from 2007.
- Forty-seven percent of new cancer cases were diagnosed in females, 53% in males.
- Among females, there were 1,342 more new cases than in 2007; among males, 772 more.
- In 2008, 9.7% of new cases were diagnosed in blacks and 87% in whites. The remaining 2.9% (3,121 cases) were diagnosed in persons of other races or reported without race information.
- The eight cancers with the largest number of cases were cancer of the lung and bronchus, prostate, breast, colorectal, bladder, non-Hodgkin lymphoma, head and neck, and melanoma. These cancers accounted for 68% of the new cancer cases in 2008.
- Fifty-nine percent of new cancer cases were diagnosed in the group age 65 and older; this group represents 18% of Florida's population.

**Table 1. Number of New Cancer Cases by Sex and Race, Florida, 2008**

|                    | All<br>Cancers | Lung &<br>Bronchus | Prostate      | Breast        | Colorectal    | Bladder      | Head &<br>Neck | Non-<br>Hodgkin(1) | Melanoma     | Ovary        | Cervix     |
|--------------------|----------------|--------------------|---------------|---------------|---------------|--------------|----------------|--------------------|--------------|--------------|------------|
| <b>Florida (2)</b> | <b>105,207</b> | <b>16,339</b>      | <b>14,391</b> | <b>13,749</b> | <b>10,199</b> | <b>4,817</b> | <b>4,162</b>   | <b>4,125</b>       | <b>4,002</b> | <b>1,498</b> | <b>907</b> |
| Female             | 49,456         | 7,504              |               | 13,749        | 4,891         | 1,126        | 1,106          | 1,871              | 1,494        | 1,498        | 907        |
| Male               | 55,634         | 8,812              | 14,391        |               | 5,283         | 3,690        | 3,051          | 2,249              | 2,507        |              |            |
| Black              | 10,158         | 1,174              | 2,032         | 1,429         | 1,134         | 200          | 332            | 354                |              | 116          | 161        |
| White              | 91,928         | 14,855             | 11,933        | 11,844        | 8,757         | 4,513        | 3,713          | 3,629              | 4,002        | 1,325        | 709        |
| Black Female       | 4,730          | 411                |               | 1,429         | 573           | 63           | 88             | 165                |              | 116          | 161        |
| White Female       | 43,157         | 6,949              |               | 11,844        | 4,169         | 1,037        | 996            | 1,641              | 1,494        | 1,325        | 709        |
| Black Male         | 5,421          | 763                | 2,032         |               | 559           | 137          | 244            | 189                |              |              |            |
| White Male         | 48,666         | 7,885              | 11,933        |               | 4,566         | 3,475        | 2,712          | 1,983              | 2,507        |              |            |

Source of data: Florida Cancer Data System

(1) Non-Hodgkin refers to Non-Hodgkin's lymphoma throughout this report.

(2) Florida incidence totals throughout this report include 1,693 new cancers in persons of "other" races, 1,428 cases with unknown race,

117 cases with unknown or unspecified sex. Totals by sex include cases with unknown or Other race. Totals by race include cases with unknown sex

Table 2. Number of New Cancer Cases by County, Florida, 2008

|                | All<br>Cancers | Lung &<br>Bronchus | Prostate      | Breast        | Colorectal    | Bladder      | Head &<br>Neck | Non-<br>Hodgkin | Melanoma     | Ovary        | Cervix     |
|----------------|----------------|--------------------|---------------|---------------|---------------|--------------|----------------|-----------------|--------------|--------------|------------|
| <b>Florida</b> | <b>105,207</b> | <b>16,339</b>      | <b>14,391</b> | <b>13,749</b> | <b>10,199</b> | <b>4,817</b> | <b>4,162</b>   | <b>4,125</b>    | <b>4,002</b> | <b>1,498</b> | <b>907</b> |
| Alachua        | 1,054          | 172                | 161           | 155           | 97            | 44           | 52             | 45              | 24           | 12           | ^          |
| Baker          | 110            | 23                 | 11            | 12            | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Bay            | 998            | 181                | 177           | 95            | 94            | 48           | 42             | 40              | 31           | 13           | ^          |
| Bradford       | 150            | 27                 | 22            | 19            | 21            | ^            | ^              | ^               | ^            | ^            | ^          |
| Brevard        | 3,877          | 663                | 466           | 493           | 346           | 203          | 179            | 168             | 127          | 48           | 28         |
| Broward        | 8,967          | 1,225              | 1,187         | 1,232         | 930           | 391          | 366            | 383             | 324          | 111          | 107        |
| Calhoun        | 57             | 15                 | 11            | ^             | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Charlotte      | 1,372          | 246                | 234           | 165           | 110           | 84           | 67             | 51              | 72           | 14           | ^          |
| Citrus         | 1,294          | 218                | 208           | 150           | 110           | 96           | 54             | 46              | 53           | 25           | ^          |
| Clay           | 887            | 162                | 127           | 102           | 67            | 49           | 33             | 41              | 26           | 10           | ^          |
| Collier        | 2,093          | 250                | 442           | 237           | 174           | 111          | 79             | 76              | 108          | 32           | 14         |
| Columbia       | 396            | 91                 | 37            | 47            | 36            | 16           | 20             | 11              | 16           | ^            | ^          |
| Miami-Dade     | 11,287         | 1,312              | 1,649         | 1,479         | 1,294         | 424          | 427            | 496             | 214          | 173          | 124        |
| Desoto         | 184            | 32                 | 32            | 25            | 13            | ^            | ^              | 10              | ^            | ^            | ^          |
| Dixie          | 86             | 25                 | 10            | ^             | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Duval          | 4,252          | 690                | 630           | 565           | 390           | 160          | 176            | 149             | 140          | 50           | 42         |
| Escambia       | 1,553          | 281                | 193           | 233           | 142           | 67           | 65             | 59              | 53           | 22           | 11         |
| Flagler        | 674            | 117                | 67            | 76            | 61            | 30           | 25             | 37              | 38           | 10           | 12         |
| Franklin       | 66             | 15                 | ^             | ^             | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Gadsden        | 212            | 26                 | 39            | 30            | 27            | ^            | ^              | ^               | ^            | ^            | ^          |
| Gilchrist      | 92             | 22                 | 14            | 11            | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Glades         | 65             | 12                 | 10            | 10            | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Gulf           | 92             | 20                 | 18            | 10            | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Hamilton       | 69             | ^                  | 10            | ^             | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Hardee         | 123            | 23                 | 14            | ^             | 15            | ^            | ^              | ^               | ^            | ^            | ^          |
| Hendry         | 140            | 24                 | 15            | 15            | 13            | ^            | 11             | ^               | ^            | ^            | ^          |
| Hernando       | 1,333          | 266                | 168           | 140           | 136           | 57           | 52             | 53              | 48           | 26           | ^          |
| Highlands      | 799            | 157                | 68            | 77            | 83            | 34           | 31             | 29              | 47           | ^            | ^          |
| Hillsborough   | 5,883          | 808                | 804           | 813           | 575           | 228          | 244            | 228             | 200          | 98           | 65         |
| Holmes         | 92             | 19                 | ^             | 10            | 15            | ^            | ^              | ^               | ^            | ^            | ^          |
| Indian River   | 1,084          | 172                | 131           | 130           | 101           | 67           | 51             | 35              | 77           | 12           | ^          |
| Jackson        | 264            | 53                 | 22            | 32            | 28            | 11           | 21             | ^               | ^            | ^            | ^          |
| Jefferson      | 87             | 13                 | 13            | ^             | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Lafayette      | 26             | ^                  | ^             | ^             | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Lake           | 2,392          | 420                | 390           | 282           | 231           | 105          | 86             | 89              | 116          | 44           | 12         |
| Lee            | 3,720          | 558                | 595           | 451           | 312           | 155          | 154            | 132             | 175          | 61           | 27         |
| Leon           | 920            | 125                | 142           | 192           | 75            | 16           | 32             | 27              | 27           | 15           | ^          |
| Levy           | 260            | 55                 | 29            | 31            | 26            | 15           | 10             | 14              | ^            | ^            | ^          |
| Liberty        | 28             | ^                  | ^             | ^             | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Madison        | 111            | 22                 | 17            | 12            | 11            | ^            | ^              | ^               | ^            | ^            | ^          |
| Manatee        | 1,966          | 322                | 256           | 269           | 189           | 118          | 68             | 67              | 83           | 37           | 15         |
| Marion         | 2,461          | 479                | 342           | 286           | 235           | 130          | 77             | 88              | 87           | 29           | 26         |
| Martin         | 1,101          | 190                | 186           | 128           | 109           | 68           | 47             | 30              | 53           | 15           | ^          |
| Monroe         | 397            | 64                 | 43            | 49            | 40            | 16           | 23             | ^               | 24           | ^            | ^          |
| Nassau         | 470            | 72                 | 70            | 76            | 44            | 15           | 16             | 18              | 15           | ^            | ^          |
| Okaloosa       | 950            | 135                | 104           | 140           | 92            | 63           | 38             | 37              | 47           | 15           | ^          |
| Okeechobee     | 224            | 44                 | 24            | 26            | 20            | 15           | 14             | ^               | ^            | ^            | ^          |
| Orange         | 4,602          | 649                | 600           | 639           | 461           | 166          | 167            | 184             | 153          | 68           | 55         |
| Osceola        | 1,046          | 134                | 145           | 139           | 117           | 42           | 38             | 34              | 31           | 18           | 11         |
| Palm Beach     | 8,481          | 1,188              | 1,083         | 1,170         | 781           | 474          | 283            | 378             | 405          | 115          | 54         |
| Pasco          | 3,032          | 530                | 413           | 356           | 296           | 168          | 103            | 104             | 141          | 46           | 19         |
| Pinellas       | 6,017          | 993                | 637           | 849           | 597           | 329          | 277            | 198             | 247          | 99           | 44         |
| Polk           | 3,841          | 630                | 526           | 408           | 415           | 162          | 140            | 155             | 187          | 35           | 35         |
| Putnam         | 489            | 86                 | 71            | 53            | 61            | 27           | 26             | 21              | 16           | ^            | ^          |
| Saint Johns    | 989            | 160                | 161           | 146           | 84            | 40           | 40             | 32              | 46           | 16           | 10         |
| Saint Lucie    | 1,584          | 298                | 189           | 198           | 144           | 89           | 43             | 60              | 62           | 29           | 11         |
| Santa Rosa     | 755            | 131                | 103           | 128           | 59            | 27           | 34             | 26              | 28           | ^            | ^          |
| Sarasota       | 3,145          | 512                | 472           | 433           | 257           | 153          | 118            | 143             | 143          | 50           | 23         |
| Seminole       | 1,690          | 236                | 220           | 261           | 143           | 64           | 51             | 68              | 65           | 24           | 13         |
| Sumter         | 855            | 138                | 173           | 106           | 69            | 40           | 31             | 32              | 34           | 14           | ^          |
| Suwannee       | 234            | 52                 | 18            | 33            | 18            | ^            | ^              | 13              | ^            | ^            | ^          |
| Taylor         | 98             | 18                 | 10            | 12            | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| Union          | 194            | 39                 | 24            | ^             | 23            | ^            | 20             | ^               | ^            | ^            | ^          |
| Volusia        | 2,962          | 581                | 263           | 398           | 304           | 110          | 121            | 120             | 121          | 41           | 27         |
| Wakulla        | 135            | 33                 | 26            | 12            | 10            | ^            | ^              | ^               | ^            | ^            | ^          |
| Walton         | 243            | 41                 | 37            | 36            | 18            | 13           | 12             | ^               | ^            | ^            | ^          |
| Washington     | 97             | 25                 | 10            | ^             | ^             | ^            | ^              | ^               | ^            | ^            | ^          |

^ Statistics for cells with fewer than 10 cases are not displayed.

Source of data: Florida Cancer Data System



**Table 3. Number of New Cancer Cases by Sex, Race, and Age Group, Florida, 2008**

|                     | All<br>Cancers | Lung &<br>Bronchus | Prostate      | Breast        | Colorectal    | Bladder      | Head &<br>Neck | Non-<br>Hodgkin | Melanoma     | Ovary        | Cervix     |
|---------------------|----------------|--------------------|---------------|---------------|---------------|--------------|----------------|-----------------|--------------|--------------|------------|
| <b>Florida</b>      | <b>105,207</b> | <b>16,339</b>      | <b>14,391</b> | <b>13,749</b> | <b>10,199</b> | <b>4,817</b> | <b>4,162</b>   | <b>4,125</b>    | <b>4,002</b> | <b>1,498</b> | <b>907</b> |
| 0-14                | 555            | ^                  | ^             | ^             | ^             | ^            | ^              | 31              | ^            | ^            | ^          |
| 15-39               | 4,061          | 73                 | 11            | 588           | 204           | 34           | 117            | 272             | 310          | 78           | 223        |
| 40-64               | 38,214         | 4,785              | 5,264         | 6,593         | 3,278         | 1,046        | 2,027          | 1,377           | 1,538        | 620          | 484        |
| 65+                 | 62,377         | 11,479             | 9,114         | 6,568         | 6,715         | 3,737        | 2,012          | 2,445           | 2,151        | 795          | 200        |
| <b>Female</b>       | <b>49,456</b>  | <b>7,504</b>       |               | <b>13,749</b> | <b>4,891</b>  | <b>1,126</b> | <b>1,106</b>   | <b>1,871</b>    | <b>1,494</b> | <b>1,498</b> | <b>907</b> |
| 0-14                | 252            | ^                  |               | ^             | ^             | ^            | ^              | 12              | ^            | ^            | ^          |
| 15-39               | 2,436          | 35                 |               | 588           | 97            | ^            | 48             | 122             | 187          | 78           | 223        |
| 40-64               | 18,719         | 2,139              |               | 6,593         | 1,425         | 255          | 452            | 576             | 614          | 620          | 484        |
| 65+                 | 28,048         | 5,328              |               | 6,568         | 3,367         | 864          | 605            | 1,161           | 692          | 795          | 200        |
| <b>Male</b>         | <b>55,634</b>  | <b>8,812</b>       | <b>14,391</b> |               | <b>5,283</b>  | <b>3,690</b> | <b>3,051</b>   | <b>2,249</b>    | <b>2,507</b> |              |            |
| 0-14                | 303            | ^                  | ^             |               | ^             | ^            | ^              | 19              | ^            |              |            |
| 15-39               | 1,621          | 38                 | 11            |               | 106           | 27           | 69             | 150             | 123          |              |            |
| 40-64               | 19,445         | 2,641              | 5,264         |               | 1,842         | 791          | 1,570          | 800             | 924          |              |            |
| 65+                 | 34,264         | 6,133              | 9,114         |               | 3,335         | 2,872        | 1,407          | 1,280           | 1,458        |              |            |
| <b>Black</b>        | <b>10,158</b>  | <b>1,174</b>       | <b>2,032</b>  | <b>1,429</b>  | <b>1,134</b>  | <b>200</b>   | <b>332</b>     | <b>354</b>      |              | <b>116</b>   | <b>161</b> |
| 0-14                | 108            | ^                  | ^             | ^             | ^             | ^            | ^              | 10              |              | ^            | ^          |
| 15-39               | 615            | 11                 | ^             | 112           | 44            | ^            | 25             | 61              |              | 11           | 45         |
| 40-64               | 4,966          | 493                | 990           | 857           | 548           | 62           | 194            | 162             |              | 54           | 83         |
| 65+                 | 4,468          | 669                | 1,039         | 460           | 542           | 135          | 113            | 121             |              | 50           | 33         |
| <b>White</b>        | <b>91,928</b>  | <b>14,855</b>      | <b>11,933</b> | <b>11,844</b> | <b>8,757</b>  | <b>4,513</b> | <b>3,713</b>   | <b>3,629</b>    | <b>4,002</b> | <b>1,325</b> | <b>709</b> |
| 0-14                | 428            | ^                  | ^             | ^             | ^             | ^            | ^              | 21              | ^            | ^            | ^          |
| 15-39               | 3,236          | 59                 | ^             | 440           | 147           | 31           | 87             | 195             | 310          | 65           | 171        |
| 40-64               | 31,966         | 4,190              | 4,110         | 5,477         | 2,608         | 956          | 1,770          | 1,161           | 1,538        | 536          | 380        |
| 65+                 | 56,297         | 10,605             | 7,814         | 5,927         | 6,000         | 3,526        | 1,851          | 2,252           | 2,151        | 720          | 158        |
| <b>Black Female</b> | <b>4,730</b>   | <b>411</b>         |               | <b>1,429</b>  | <b>573</b>    | <b>63</b>    | <b>88</b>      | <b>165</b>      |              | <b>116</b>   | <b>161</b> |
| 0-14                | 43             | ^                  |               | ^             | ^             | ^            | ^              | ^               |              | ^            | ^          |
| 15-39               | 385            | ^                  |               | 112           | 18            | ^            | 14             | 30              |              | 11           | 45         |
| 40-64               | 2,345          | 149                |               | 857           | 272           | 16           | 46             | 73              |              | 54           | 83         |
| 65+                 | 1,956          | 257                |               | 460           | 283           | 45           | 28             | 58              |              | 50           | 33         |
| <b>White Female</b> | <b>43,157</b>  | <b>6,949</b>       |               | <b>11,844</b> | <b>4,169</b>  | <b>1,037</b> | <b>996</b>     | <b>1,641</b>    | <b>1,494</b> | <b>1,325</b> | <b>709</b> |
| 0-14                | 200            | ^                  |               | ^             | ^             | ^            | ^              | ^               | ^            | ^            | ^          |
| 15-39               | 1,925          | 29                 |               | 440           | 72            | ^            | 34             | 86              | 187          | 65           | 171        |
| 40-64               | 15,697         | 1,952              |               | 5,477         | 1,104         | 232          | 396            | 482             | 614          | 536          | 380        |
| 65+                 | 25,335         | 4,967              |               | 5,927         | 2,991         | 800          | 566            | 1,065           | 692          | 720          | 158        |
| <b>Black Male</b>   | <b>5,421</b>   | <b>763</b>         | <b>2,032</b>  |               | <b>559</b>    | <b>137</b>   | <b>244</b>     | <b>189</b>      |              |              |            |
| 0-14                | 65             | ^                  | ^             |               | ^             | ^            | ^              | ^               |              |              |            |
| 15-39               | 229            | ^                  | ^             |               | 25            | ^            | 11             | 31              |              |              |            |
| 40-64               | 2,619          | 344                | 990           |               | 275           | 46           | 148            | 89              |              |              |            |
| 65+                 | 2,508          | 412                | 1,039         |               | 259           | 90           | 85             | 63              |              |              |            |
| <b>White Male</b>   | <b>48,666</b>  | <b>7,885</b>       | <b>11,933</b> |               | <b>4,566</b>  | <b>3,475</b> | <b>2,712</b>   | <b>1,983</b>    | <b>2,507</b> |              |            |
| 0-14                | 228            | ^                  | ^             |               | ^             | ^            | ^              | 13              | ^            |              |            |
| 15-39               | 1,308          | 30                 | ^             |               | 75            | 26           | 53             | 109             | 123          |              |            |
| 40-64               | 16,223         | 2,234              | 4,110         |               | 1,494         | 724          | 1,369          | 678             | 924          |              |            |
| 65+                 | 30,907         | 5,621              | 7,814         |               | 2,997         | 2,725        | 1,285          | 1,183           | 1,458        |              |            |

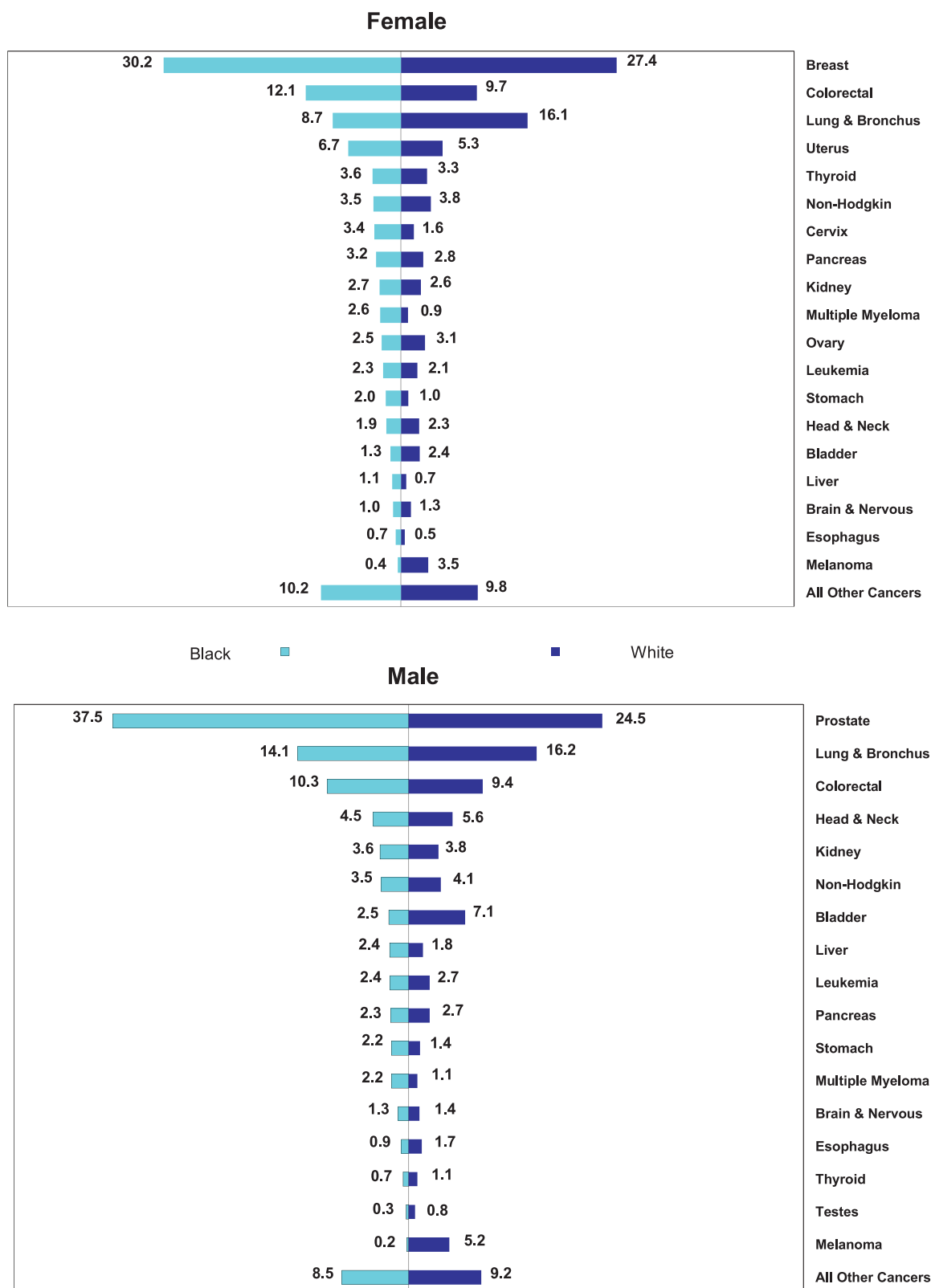
Source of data: Florida Cancer Data System

^ Statistics for cells with fewer than 10 cases are not displayed.

INCIDENCE



**Figure 1. Percentage of New Cancer Cases by Sex, Race, and Site, Florida, 2008**



Source of data: Florida Cancer Data System

## AGE-ADJUSTED INCIDENCE RATES

### INCIDENCE

- In 2008, the age-adjusted incidence rate for all cancers combined was 437.5 [CI: 434.8 - 440.2] per 100,000 population, similar to the rate in 2007, 441.2 [CI: 438.5 - 444.0] per 100,000 population.
- The age-adjusted incidence rate for all cancers combined among females in 2008 (388.2 per 100,000 population) was 23% lower than the rate among males (503.1 per 100,000 population).
- In 2008, the age-adjusted incidence rate for all cancers combined among blacks, 436.5 [CI: 427.7 - 445.4] per 100,000 population, was similar to the rate among whites, 432.7 [CI: 429.8 - 435.6] per 100,000 population.
- Among the four sex-race groups, black males had the highest age-adjusted incidence rate for all cancers combined, 555.9 per 100,000 population [CI: 540.1 - 572.1]; black females had the lowest, 354.4 per 100,000 population [CI: 344.1 - 364.9].
- The age-adjusted rate for white females, 388.1 per 100,000 population [CI: 384.2 - 392.0], was higher than the rate for black females; the rate for white males, 492.2 per 100,000 population [CI: 487.7 - 496.6], was lower than for black males.
- The age-adjusted incidence rate for cancer of the lung and bronchus among all Floridians in 2008 was the same as the rate in 2007. Rates in 2008 were the same for both females and males as in 2007.
- The age-adjusted incidence rate of prostate cancer among Florida males decreased from 136.2 [CI: 134.0-138.4] per 100,000 population in 2007 to 124.9 [CI: 122.9-127.0] per 100,000 population in 2008. The rate for white males decreased from 126.3 [CI: 124.1 - 128.5] per 100,000 population in 2007 to 114.9 [CI: 112.8 - 117.0] per 100,000 population in 2008.
- The age-adjusted incidence rate of colorectal cancer in blacks increased from 43.3 [CI: 40.4 - 46.3] per 100,000 population in 2007 to 50.6 [CI: 47.6 - 53.8] per 100,000 population in 2008.

**Table 4. Age-Adjusted Incidence Rates (1) by Sex and Race, Florida, 2008**

|                    | <b>All Cancers</b>     |       |       | <b>Lung &amp; Bronchus</b> |      |      | <b>Prostate</b> |       |       | <b>Breast</b> |       |       | <b>Colorectal</b> |      |      | <b>Bladder</b> |      |      |
|--------------------|------------------------|-------|-------|----------------------------|------|------|-----------------|-------|-------|---------------|-------|-------|-------------------|------|------|----------------|------|------|
|                    | Rate                   | CI    |       | Rate                       | CI   |      | Rate            | CI    |       | Rate          | CI    |       | Rate              | CI   |      | Rate           | CI   |      |
| <b>Florida (2)</b> | <b>437.5</b>           | 434.8 | 440.2 | <b>64.8</b>                | 63.8 | 65.8 | <b>124.9</b>    | 122.9 | 127.0 | <b>111.9</b>  | 109.9 | 113.8 | <b>41.3</b>       | 40.5 | 42.1 | <b>18.8</b>    | 18.2 | 19.3 |
| Female             | <b>388.2</b>           | 384.7 | 391.8 | <b>54.2</b>                | 53.0 | 55.5 |                 |       |       | <b>111.9</b>  | 109.9 | 113.8 | <b>35.6</b>       | 34.5 | 36.6 | <b>7.8</b>     | 7.4  | 8.3  |
| Male               | <b>503.1</b>           | 498.9 | 507.4 | <b>78.0</b>                | 76.4 | 79.7 | <b>124.9</b>    | 122.9 | 127.0 |               |       |       | <b>48.0</b>       | 46.7 | 49.3 | <b>33.1</b>    | 32.1 | 34.2 |
| Black              | <b>436.5</b>           | 427.7 | 445.4 | <b>54.1</b>                | 51.0 | 57.5 | <b>208.5</b>    | 199.0 | 218.4 | <b>103.4</b>  | 98.0  | 109.1 | <b>50.6</b>       | 47.6 | 53.8 | <b>10.1</b>    | 8.7  | 11.6 |
| White              | <b>432.7</b>           | 429.8 | 435.6 | <b>65.6</b>                | 64.6 | 66.7 | <b>114.9</b>    | 112.8 | 117.0 | <b>111.1</b>  | 109.0 | 113.2 | <b>39.6</b>       | 38.7 | 40.5 | <b>19.5</b>    | 18.9 | 20.1 |
| Black Female       | <b>354.4</b>           | 344.1 | 364.9 | <b>33.3</b>                | 30.0 | 36.7 |                 |       |       | <b>103.4</b>  | 98.0  | 109.1 | <b>44.4</b>       | 40.7 | 48.3 | <b>5.4</b>     | 4.1  | 6.9  |
| White Female       | <b>388.1</b>           | 384.2 | 392.0 | <b>56.5</b>                | 55.1 | 57.9 |                 |       |       | <b>111.1</b>  | 109.0 | 113.2 | <b>33.9</b>       | 32.8 | 35.0 | <b>8.0</b>     | 7.5  | 8.6  |
| Black Male         | <b>555.9</b>           | 540.1 | 572.1 | <b>83.9</b>                | 77.7 | 90.7 | <b>208.5</b>    | 199.0 | 218.4 |               |       |       | <b>59.7</b>       | 54.4 | 65.4 | <b>17.2</b>    | 14.2 | 20.6 |
| White Male         | <b>492.2</b>           | 487.7 | 496.6 | <b>77.1</b>                | 75.4 | 78.8 | <b>114.9</b>    | 112.8 | 117.0 |               |       |       | <b>46.1</b>       | 44.8 | 47.5 | <b>34.2</b>    | 33.1 | 35.4 |
|                    |                        |       |       |                            |      |      |                 |       |       |               |       |       |                   |      |      |                |      |      |
|                    | <b>Head &amp; Neck</b> |       |       | <b>Non-Hodgkin</b>         |      |      | <b>Melanoma</b> |       |       | <b>Ovary</b>  |       |       | <b>Cervix</b>     |      |      |                |      |      |
|                    | Rate                   | CI    |       | Rate                       | CI   |      | Rate            | CI    |       | Rate          | CI    |       | Rate              | CI   |      |                |      |      |
| <b>Florida (2)</b> | <b>17.5</b>            | 16.9  | 18.0  | <b>17.5</b>                | 17.0 | 18.1 | <b>20.0</b>     | 19.4  | 20.7  | <b>11.9</b>   | 11.3  | 12.6  | <b>9.2</b>        | 8.6  | 9.8  |                |      |      |
| Female             | <b>8.6</b>             | 8.1   | 9.2   | <b>14.4</b>                | 13.8 | 15.1 | <b>15.2</b>     | 14.4  | 16.1  | <b>11.9</b>   | 11.3  | 12.6  | <b>9.2</b>        | 8.6  | 9.8  |                |      |      |
| Male               | <b>27.6</b>            | 26.7  | 28.7  | <b>21.2</b>                | 20.3 | 22.1 | <b>26.3</b>     | 25.2  | 27.3  |               |       |       |                   |      |      |                |      |      |
| Black              | <b>13.3</b>            | 11.9  | 14.9  | <b>14.6</b>                | 13.1 | 16.3 |                 |       |       | <b>8.8</b>    | 7.2   | 10.6  | <b>11.3</b>       | 9.6  | 13.3 |                |      |      |
| White              | <b>17.8</b>            | 17.2  | 18.4  | <b>17.3</b>                | 16.8 | 17.9 | <b>20.0</b>     | 19.4  | 20.7  | <b>12.2</b>   | 11.5  | 12.9  | <b>8.9</b>        | 8.2  | 9.6  |                |      |      |
| Black Female       | <b>6.3</b>             | 5.0   | 7.8   | <b>12.1</b>                | 10.3 | 14.1 |                 |       |       | <b>8.8</b>    | 7.2   | 10.6  | <b>11.3</b>       | 9.6  | 13.3 |                |      |      |
| White Female       | <b>8.8</b>             | 8.3   | 9.4   | <b>14.2</b>                | 13.5 | 15.0 | <b>15.2</b>     | 14.4  | 16.1  | <b>12.2</b>   | 11.5  | 12.9  | <b>8.9</b>        | 8.2  | 9.6  |                |      |      |
| Black Male         | <b>22.7</b>            | 19.8  | 26.1  | <b>18.2</b>                | 15.5 | 21.4 |                 |       |       |               |       |       |                   |      |      |                |      |      |
| White Male         | <b>27.9</b>            | 26.9  | 29.0  | <b>21.0</b>                | 20.0 | 21.9 | <b>26.3</b>     | 25.2  | 27.3  |               |       |       |                   |      |      |                |      |      |

Source of data: Florida Cancer Data System

(1) Rates are expressed as number of cases per 100,000 population per year, adjusted to the 2000 U.S. standard population.

(2) Florida incidence rates throughout this report include 1,693 new cancers in persons of "other" races, 1,428 cases with unknown race and 117 cases with unknown or unspecified sex. Rates calculated by sex include cases with unknown or other race. Rates by race include cases with unknown sex. By definition, age-adjusted incidence rates cannot include the three cases with unknown age.

## AGE-ADJUSTED INCIDENCE RATE COMPARISON, FLORIDA AND SEER

- The age-adjusted incidence rate for all cancers combined in Florida, 437.5 per 100,000 population, was 5.6% lower than the SEER-9 registries rate, 463.4 per 100,000 population.
- The incidence rate among Florida blacks, 436.5 per 100,000 population, was 13% lower than the SEER-9 rate for blacks, 503.2 per 100,000 population.
- White females and white males in Florida also had lower incidence rates than those groups in the SEER-9 registries.

**Table 5. Age-Adjusted Incidence Rate (1) Comparison, Florida and SEER-9, 2008**

|              | Florida      |              |              | SEER-9 (2)   |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|              | Rate         | CI           |              | Rate         | CI           |              |
| <b>Total</b> | <b>437.5</b> | <b>434.8</b> | <b>440.2</b> | <b>463.4</b> | <b>460.9</b> | <b>465.9</b> |
| Female       | 388.2        | 384.7        | 391.8        | 416.3        | 413.1        | 419.6        |
| Male         | 503.1        | 498.9        | 507.4        | 530.8        | 526.8        | 534.9        |
| Black        | 436.5        | 427.7        | 445.4        | 503.2        | 494.4        | 512.0        |
| White        | 432.7        | 429.8        | 435.6        | 469.3        | 466.5        | 472.2        |
| Black Female | 354.4        | 344.1        | 364.9        | 407.4        | 397.3        | 417.7        |
| White Female | 388.1        | 384.2        | 392.0        | 427.1        | 423.4        | 430.8        |
| Black Male   | 555.9        | 540.1        | 572.1        | 645.0        | 629.0        | 661.2        |
| White Male   | 492.2        | 487.7        | 496.6        | 531.0        | 526.8        | 534.5        |

Sources of data: Florida Cancer Data System and SEER-9 registries.

(1) Rates are expressed as number of cases per 100,000 population per year, adjusted to the 2000 U.S. standard population.

(2) SEER Program SEER\*Stat database: Incidence - SEER 9 Registries Research Data, Nov 2010 submission (1973-2008), National Cancer Institute, DCCPS, Surveillance Research Program, Cancer Statistics Branch, released April 2011.  
www.seer.cancer.gov

## County Incidence Rates

Forty-four of Florida's 67 counties had incidence rates significantly above or below Florida rates for all cancer combined or for one or more of the ten selected cancer sites. Of the 24 counties whose rates showed no differences from the state rate, 20 had populations below the median county population of 98,055.

- Broward County had six sites with rates lower than state rates: all cancers, lung and bronchus, prostate, breast, bladder, and ovary.
- Miami-Dade County had five sites with rates lower than state rates, and two sites with higher rates. The rates for all cancers, lung and bronchus, breast, bladder and melanoma were lower than the state rates; the rates for prostate and colorectal cancers were higher.
- Palm Beach County had five sites with rates lower than state rates, and one site with a higher rate. The rates for all cancers combined, cancer of the lung and bronchus, prostate, colorectal, and head and neck cancers were lower; the rate for melanoma was higher.
- Collier County had four rates lower than state rates: all cancers, lung and bronchus, breast, and colorectal.
- Seminole County had four sites with rates lower than state rates: all cancers combined, prostate, colorectal, and head and neck.
- Brevard County had six sites with rates higher than Florida rates: all cancers combined, lung and bronchus, breast, bladder, head and neck, and non-Hodgkin lymphoma.
- Duval County had five sites with rates higher than state rates: all cancers combined, lung and bronchus, prostate, breast, and colorectal.
- Sumter County had five sites with rates higher than state rates: all cancers combined, lung, bronchus, prostate, breast, and head and neck.
- Polk County had five sites with rates higher than state rates: all cancers combined, lung and bronchus, prostate, colorectal, and melanoma.

Table 6.1. Age-Adjusted Incidence Rates (1) by County, Florida, 2008

|                | All Cancers   |       |        | Lung & Bronchus |       |              | Prostate     |       |       | Breast       |       |       |
|----------------|---------------|-------|--------|-----------------|-------|--------------|--------------|-------|-------|--------------|-------|-------|
|                | Rate          | CI    |        | Rate            | CI    |              | Rate         | CI    |       | Rate         | CI    |       |
| <b>Florida</b> | <b>437.5</b>  | 434.8 | 440.2  | <b>64.8</b>     | 63.8  | 65.8         | <b>124.9</b> | 122.9 | 127.0 | <b>111.9</b> | 109.9 | 113.8 |
| Alachua        | <b>497.8</b>  | 467.8 | 529.3  | <b>83.0</b>     | 70.9  | 96.6         | <b>167.4</b> | 142.1 | 196.4 | <b>136.2</b> | 115.3 | 160.0 |
| Baker          | <b>467.9</b>  | 383.3 | 567.9  | <b>91.7</b>     | 57.8  | 141.3        | <b>91.7</b>  | 45.0  | 192.7 | <b>94.2</b>  | 48.4  | 170.2 |
| Bay            | <b>528.6</b>  | 495.9 | 563.1  | <b>94.2</b>     | 80.9  | 109.5        | <b>195.7</b> | 167.3 | 228.6 | <b>94.8</b>  | 76.5  | 117.1 |
| Bradford       | <b>461.0</b>  | 389.6 | 543.9  | <b>81.3</b>     | 53.5  | 121.4        | <b>139.1</b> | 86.9  | 216.0 | <b>114.1</b> | 67.9  | 191.3 |
| Brevard        | <b>514.4</b>  | 497.9 | 531.5  | <b>83.4</b>     | 77.1  | 90.2         | <b>125.6</b> | 114.4 | 138.0 | <b>127.9</b> | 116.4 | 140.5 |
| Broward        | <b>393.6</b>  | 385.4 | 402.0  | <b>51.9</b>     | 49.0  | 55.0         | <b>112.4</b> | 106.1 | 119.1 | <b>103.5</b> | 97.7  | 109.7 |
| Calhoun        | <b>344.9</b>  | 260.6 | 453.6  | <b>90.0</b>     | 50.3  | 156.1        | <b>139.6</b> | 69.5  | 264.1 | ^            | ^     | ^     |
| Charlotte      | <b>417.1</b>  | 391.6 | 444.7  | <b>68.3</b>     | 59.3  | 79.4         | <b>129.2</b> | 113.0 | 149.5 | <b>111.2</b> | 91.1  | 136.4 |
| Citrus         | <b>468.9</b>  | 439.7 | 500.8  | <b>70.5</b>     | 61.0  | 82.9         | <b>140.7</b> | 121.4 | 165.7 | <b>119.9</b> | 97.9  | 148.2 |
| Clay           | <b>500.9</b>  | 467.8 | 535.9  | <b>93.4</b>     | 79.3  | 109.5        | <b>143.9</b> | 119.3 | 172.9 | <b>104.0</b> | 84.5  | 127.3 |
| Collier        | <b>371.9</b>  | 354.9 | 389.9  | <b>40.7</b>     | 35.6  | 46.7         | <b>150.2</b> | 136.2 | 165.8 | <b>91.4</b>  | 78.9  | 106.1 |
| Columbia       | <b>505.1</b>  | 455.9 | 558.8  | <b>114.2</b>    | 91.7  | 141.3        | <b>93.3</b>  | 65.5  | 131.0 | <b>116.4</b> | 84.9  | 158.6 |
| Miami-Dade     | <b>414.1</b>  | 406.4 | 421.9  | <b>47.8</b>     | 45.2  | 50.4         | <b>134.1</b> | 127.6 | 140.8 | <b>100.7</b> | 95.5  | 106.0 |
| Desoto         | <b>346.9</b>  | 297.5 | 404.1  | <b>57.6</b>     | 39.1  | 84.4         | <b>121.2</b> | 82.7  | 176.3 | <b>104.0</b> | 64.9  | 166.6 |
| Dixie          | <b>368.1</b>  | 291.4 | 464.1  | <b>100.8</b>    | 64.2  | 157.8        | <b>74.9</b>  | 35.8  | 155.0 | ^            | ^     | ^     |
| Duval          | <b>514.8</b>  | 499.2 | 530.8  | <b>86.0</b>     | 79.6  | 92.8         | <b>173.0</b> | 159.4 | 187.6 | <b>124.0</b> | 113.9 | 134.8 |
| Escambia       | <b>454.6</b>  | 432.1 | 478.1  | <b>81.5</b>     | 72.2  | 91.8         | <b>124.3</b> | 107.2 | 143.5 | <b>130.0</b> | 113.6 | 148.4 |
| Flagler        | <b>531.1</b>  | 484.6 | 583.3  | <b>78.6</b>     | 64.1  | 98.9         | <b>97.0</b>  | 74.3  | 132.0 | <b>125.2</b> | 93.3  | 170.2 |
| Franklin       | <b>346.4</b>  | 266.4 | 457.8  | <b>84.1</b>     | 46.7  | <b>158.6</b> | ^            | ^     | ^     | ^            | ^     | ^     |
| Gadsden        | <b>409.4</b>  | 355.5 | 469.9  | <b>50.0</b>     | 32.5  | 74.6         | <b>162.1</b> | 114.6 | 224.7 | <b>105.3</b> | 70.6  | 153.0 |
| Gilchrist      | <b>442.5</b>  | 355.4 | 549.5  | <b>107.1</b>    | 66.8  | 168.9        | <b>133.9</b> | 72.6  | 241.0 | <b>106.4</b> | 52.2  | 205.6 |
| Glades         | <b>387.6</b>  | 294.7 | 509.7  | <b>71.5</b>     | 36.3  | 139.9        | <b>106.9</b> | 50.4  | 229.8 | <b>96.7</b>  | 46.3  | 219.0 |
| Gulf           | <b>483.2</b>  | 388.8 | 599.7  | <b>107.7</b>    | 65.5  | 174.4        | <b>184.1</b> | 108.6 | 307.2 | <b>106.2</b> | 50.3  | 220.6 |
| Hamilton       | <b>486.0</b>  | 376.7 | 620.5  | ^               | ^     | ^            | <b>139.8</b> | 65.2  | 283.2 | ^            | ^     | ^     |
| Hardee         | <b>373.1</b>  | 309.4 | 448.0  | <b>66.1</b>     | 41.8  | 102.1        | <b>90.5</b>  | 49.4  | 154.5 | ^            | ^     | ^     |
| Hendry         | <b>372.7</b>  | 313.0 | 440.9  | <b>63.7</b>     | 40.7  | 95.8         | <b>81.9</b>  | 45.4  | 140.8 | <b>80.9</b>  | 44.9  | 136.6 |
| Hernando       | <b>486.8</b>  | 457.1 | 518.8  | <b>85.9</b>     | 75.1  | 99.0         | <b>113.4</b> | 96.4  | 135.2 | <b>101.0</b> | 82.1  | 125.1 |
| Highlands      | <b>417.7</b>  | 383.2 | 456.3  | <b>76.1</b>     | 62.7  | 93.7         | <b>71.5</b>  | 54.2  | 97.7  | <b>75.6</b>  | 56.3  | 104.3 |
| Hillsborough   | <b>472.5</b>  | 460.4 | 484.9  | <b>64.3</b>     | 59.9  | 69.0         | <b>138.5</b> | 129.0 | 148.7 | <b>122.5</b> | 114.2 | 131.4 |
| Holmes         | <b>374.8</b>  | 301.2 | 464.3  | <b>77.2</b>     | 46.2  | 125.3        | ^            | ^     | ^     | <b>79.5</b>  | 37.7  | 161.5 |
| Indian River   | <b>466.6</b>  | 436.5 | 499.1  | <b>68.1</b>     | 57.8  | 80.9         | <b>112.1</b> | 93.4  | 136.0 | <b>118.3</b> | 96.3  | 145.8 |
| Jackson        | <b>472.0</b>  | 416.3 | 534.2  | <b>92.8</b>     | 69.4  | 123.0        | <b>94.2</b>  | 58.6  | 145.0 | <b>114.3</b> | 77.4  | 165.9 |
| Jefferson      | <b>503.5</b>  | 401.2 | 628.9  | <b>75.8</b>     | 40.0  | 137.5        | <b>164.1</b> | 85.2  | 298.0 | ^            | ^     | ^     |
| Lafayette      | <b>306.1</b>  | 198.9 | 457.5  | ^               | ^     | ^            | ^            | ^     | ^     | ^            | ^     | ^     |
| Lake           | <b>501.0</b>  | 479.2 | 524.1  | <b>79.4</b>     | 71.7  | 88.3         | <b>158.9</b> | 143.1 | 177.2 | <b>127.3</b> | 110.9 | 146.4 |
| Lee            | <b>424.5</b>  | 409.9 | 439.6  | <b>57.8</b>     | 53.0  | 63.2         | <b>130.4</b> | 120.0 | 142.0 | <b>107.3</b> | 96.7  | 119.2 |
| Leon           | <b>424.1</b>  | 396.2 | 453.6  | <b>61.9</b>     | 51.2  | 74.4         | <b>136.4</b> | 113.9 | 163.3 | <b>157.2</b> | 135.3 | 182.0 |
| Levy           | <b>427.6</b>  | 374.2 | 489.2  | <b>83.5</b>     | 62.5  | 113.0        | <b>96.4</b>  | 63.9  | 148.6 | <b>100.8</b> | 66.9  | 152.7 |
| Liberty        | <b>405.5</b>  | 266.6 | 600.7  | ^               | ^     | ^            | ^            | ^     | ^     | ^            | ^     | ^     |
| Madison        | <b>514.5</b>  | 422.1 | 623.6  | <b>102.4</b>    | 64.0  | 158.5        | <b>164.8</b> | 95.7  | 269.2 | <b>99.9</b>  | 50.0  | 189.2 |
| Manatee        | <b>398.4</b>  | 379.7 | 418.0  | <b>58.5</b>     | 52.1  | 65.9         | <b>103.5</b> | 91.1  | 117.9 | <b>112.2</b> | 97.9  | 128.6 |
| Marion         | <b>483.8</b>  | 463.2 | 505.4  | <b>87.6</b>     | 79.6  | 96.6         | <b>134.0</b> | 119.8 | 150.3 | <b>116.8</b> | 102.0 | 133.9 |
| Martin         | <b>419.2</b>  | 392.8 | 447.7  | <b>66.6</b>     | 57.1  | 78.2         | <b>146.1</b> | 125.4 | 171.1 | <b>107.8</b> | 87.8  | 132.8 |
| Monroe         | <b>363.6</b>  | 327.3 | 403.9  | <b>59.2</b>     | 45.2  | 77.5         | <b>74.0</b>  | 53.0  | 103.9 | <b>89.3</b>  | 65.4  | 122.2 |
| Nassau         | <b>586.9</b>  | 533.9 | 644.4  | <b>88.7</b>     | 69.1  | 113.1        | <b>175.8</b> | 136.2 | 226.8 | <b>176.3</b> | 138.3 | 223.5 |
| Okaloosa       | <b>479.9</b>  | 449.7 | 511.8  | <b>67.4</b>     | 56.5  | 80.0         | <b>108.6</b> | 88.5  | 132.8 | <b>133.6</b> | 112.2 | 158.2 |
| Okeechobee     | <b>426.4</b>  | 370.8 | 490.2  | <b>74.4</b>     | 54.0  | 103.1        | <b>99.1</b>  | 62.7  | 152.0 | <b>105.6</b> | 67.2  | 166.2 |
| Orange         | <b>450.2</b>  | 437.1 | 463.7  | <b>66.4</b>     | 61.3  | 71.8         | <b>128.7</b> | 118.2 | 139.9 | <b>114.0</b> | 105.3 | 123.3 |
| Osceola        | <b>418.8</b>  | 393.4 | 445.5  | <b>54.4</b>     | 45.5  | 64.8         | <b>117.5</b> | 98.9  | 139.3 | <b>103.1</b> | 86.4  | 122.5 |
| Palm Beach     | <b>421.0</b>  | 411.6 | 430.6  | <b>54.5</b>     | 51.4  | 57.9         | <b>115.3</b> | 108.5 | 122.6 | <b>116.4</b> | 109.4 | 123.9 |
| Pasco          | <b>455.3</b>  | 437.4 | 474.2  | <b>71.4</b>     | 65.1  | 78.6         | <b>118.6</b> | 107.2 | 131.7 | <b>111.9</b> | 99.0  | 126.6 |
| Pinellas       | <b>406.7</b>  | 396.0 | 417.7  | <b>62.2</b>     | 58.3  | 66.3         | <b>90.6</b>  | 83.6  | 98.1  | <b>112.5</b> | 104.5 | 121.0 |
| Polk           | <b>507.2</b>  | 490.7 | 524.2  | <b>78.3</b>     | 72.2  | 84.9         | <b>141.5</b> | 129.5 | 154.6 | <b>109.5</b> | 98.6  | 121.7 |
| Putnam         | <b>469.3</b>  | 427.4 | 515.5  | <b>78.0</b>     | 62.2  | 98.1         | <b>133.3</b> | 103.8 | 171.9 | <b>97.6</b>  | 72.0  | 132.7 |
| Saint Johns    | <b>455.8</b>  | 427.1 | 486.5  | <b>70.8</b>     | 60.2  | 83.4         | <b>152.7</b> | 129.7 | 179.8 | <b>132.7</b> | 111.0 | 158.6 |
| Saint Lucie    | <b>476.6</b>  | 452.1 | 502.5  | <b>81.8</b>     | 72.5  | 92.5         | <b>110.7</b> | 95.2  | 129.0 | <b>121.1</b> | 103.7 | 141.5 |
| Santa Rosa     | <b>474.3</b>  | 440.4 | 510.4  | <b>81.9</b>     | 68.3  | 97.8         | <b>133.2</b> | 108.1 | 164.1 | <b>152.5</b> | 126.8 | 182.8 |
| Sarasota       | <b>440.9</b>  | 423.5 | 459.1  | <b>63.3</b>     | 57.6  | 70.0         | <b>132.9</b> | 120.8 | 146.7 | <b>126.1</b> | 112.5 | 141.6 |
| Seminole       | <b>383.4</b>  | 365.0 | 402.7  | <b>57.2</b>     | 50.0  | 65.2         | <b>104.9</b> | 90.9  | 120.7 | <b>106.4</b> | 93.6  | 120.5 |
| Sumter         | <b>566.0</b>  | 524.9 | 611.4  | <b>87.8</b>     | 72.6  | 107.6        | <b>224.0</b> | 190.6 | 266.0 | <b>155.7</b> | 122.3 | 200.5 |
| Suwannee       | <b>444.3</b>  | 387.0 | 510.0  | <b>96.9</b>     | 71.7  | 130.9        | <b>65.0</b>  | 38.3  | 110.6 | <b>122.5</b> | 82.2  | 181.9 |
| Taylor         | <b>390.3</b>  | 315.8 | 479.2  | <b>71.7</b>     | 42.3  | 116.7        | <b>78.4</b>  | 37.4  | 160.0 | <b>95.9</b>  | 47.8  | 184.4 |
| Union          | <b>1146.3</b> | 986.9 | 1329.7 | <b>243.4</b>    | 171.2 | 341.9        | <b>269.3</b> | 166.1 | 447.3 | ^            | ^     | ^     |
| Volusia        | <b>395.9</b>  | 381.1 | 411.3  | <b>72.6</b>     | 66.7  | 79.1         | <b>71.6</b>  | 63.1  | 81.4  | <b>110.0</b> | 98.7  | 122.7 |
| Wakulla        | <b>440.1</b>  | 367.2 | 525.0  | <b>106.7</b>    | 73.0  | 153.1        | <b>164.6</b> | 105.2 | 257.4 | <b>75.6</b>  | 38.8  | 141.0 |
| Walton         | <b>306.3</b>  | 267.4 | 350.8  | <b>47.3</b>     | 33.9  | 66.7         | <b>89.4</b>  | 62.6  | 127.6 | <b>98.3</b>  | 66.8  | 143.8 |
| Washington     | <b>326.4</b>  | 263.2 | 403.8  | <b>81.6</b>     | 52.6  | 125.7        | <b>71.2</b>  | 34.0  | 138.2 | ^            | ^     | ^     |

(1) Rates are expressed as number of cases per 100,000 population per year, adjusted to the 2000 U.S. standard population.

^ Statistics for cells with fewer than 10 cases are not displayed.

Table 6.2. Age-Adjusted Incidence Rates (1) by County, Florida, 2008

|                | Colorectal  |      |       | Bladder     |      |      | Head & Neck |      |       | Non-Hodgkin |      |      |
|----------------|-------------|------|-------|-------------|------|------|-------------|------|-------|-------------|------|------|
|                | Rate        | CI   |       | Rate        | CI   |      | Rate        | CI   |       | Rate        | CI   |      |
| <b>Florida</b> | <b>41.3</b> | 40.5 | 42.1  | <b>18.8</b> | 18.2 | 19.3 | <b>17.5</b> | 16.9 | 18.0  | <b>17.5</b> | 17.0 | 18.1 |
| Alachua        | 47.0        | 38.0 | 57.6  | 21.2        | 15.4 | 28.7 | 24.1        | 17.9 | 31.9  | 20.8        | 15.0 | 28.1 |
| Baker          | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Bay            | 49.7        | 40.1 | 61.3  | 25.5        | 18.7 | 34.2 | 20.8        | 14.9 | 28.6  | 21.3        | 15.2 | 29.6 |
| Bradford       | 62.5        | 38.6 | 98.8  | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Brevard        | 43.9        | 39.4 | 49.0  | 25.2        | 21.8 | 29.1 | 23.6        | 20.2 | 27.6  | 22.8        | 19.4 | 26.8 |
| Broward        | 39.8        | 37.2 | 42.5  | 16.3        | 14.7 | 18.1 | 16.1        | 14.5 | 17.9  | 17.2        | 15.5 | 19.0 |
| Calhoun        | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Charlotte      | 33.7        | 26.6 | 43.2  | 21.6        | 17.0 | 28.5 | 22.7        | 16.9 | 31.0  | 15.1        | 10.7 | 22.0 |
| Citrus         | 34.6        | 28.1 | 44.1  | 28.9        | 23.2 | 37.6 | 25.6        | 18.0 | 36.7  | 19.4        | 13.1 | 29.4 |
| Clay           | 39.3        | 30.3 | 50.3  | 28.2        | 20.7 | 37.8 | 18.8        | 12.8 | 26.8  | 23.6        | 16.8 | 32.4 |
| Collier        | 29.2        | 24.8 | 34.6  | 17.8        | 14.4 | 22.0 | 13.5        | 10.5 | 17.4  | 13.4        | 10.4 | 17.5 |
| Columbia       | 45.8        | 32.0 | 64.6  | 19.4        | 11.1 | 32.9 | 25.6        | 15.5 | 40.9  | 14.8        | 7.3  | 27.7 |
| Miami-Dade     | 47.2        | 44.7 | 49.9  | 15.2        | 13.8 | 16.8 | 15.6        | 14.1 | 17.2  | 18.5        | 16.9 | 20.2 |
| Desoto         | 24.8        | 12.9 | 45.8  | ^           | ^    | ^    | ^           | ^    | ^     | 18.4        | 8.6  | 37.6 |
| Dixie          | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Duval          | 47.0        | 42.4 | 52.0  | 20.6        | 17.5 | 24.1 | 20.6        | 17.7 | 24.0  | 18.4        | 15.5 | 21.7 |
| Escambia       | 41.5        | 35.0 | 49.2  | 19.3        | 14.9 | 24.7 | 18.7        | 14.4 | 24.1  | 16.8        | 12.8 | 21.9 |
| Flagler        | 44.8        | 32.7 | 63.4  | 20.6        | 13.1 | 35.0 | 17.0        | 10.6 | 30.4  | 35.3        | 22.9 | 54.8 |
| Franklin       | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Gadsden        | 52.6        | 34.5 | 77.6  | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Gilchrist      | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Glades         | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Gulf           | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Hamilton       | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Hardee         | 44.2        | 24.2 | 76.6  | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Hendry         | 36.1        | 19.2 | 62.5  | ^           | ^    | ^    | 28.3        | 14.1 | 51.8  | ^           | ^    | ^    |
| Hernando       | 48.4        | 39.6 | 59.7  | 17.2        | 12.8 | 24.2 | 20.6        | 14.7 | 29.4  | 19.4        | 13.6 | 27.9 |
| Highlands      | 42.8        | 32.1 | 58.2  | 13.1        | 9.1  | 22.3 | 16.3        | 10.3 | 27.4  | 16.6        | 9.9  | 28.5 |
| Hillsborough   | 46.5        | 42.8 | 50.6  | 18.5        | 16.2 | 21.2 | 19.0        | 16.7 | 21.6  | 18.3        | 16.0 | 20.9 |
| Holmes         | 64.2        | 35.6 | 110.6 | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Indian River   | 42.4        | 33.6 | 53.9  | 23.5        | 18.2 | 31.4 | 23.6        | 17.2 | 33.0  | 15.1        | 10.2 | 23.0 |
| Jackson        | 50.7        | 33.6 | 75.0  | 20.2        | 10.0 | 38.0 | 37.9        | 23.3 | 59.8  | ^           | ^    | ^    |
| Jefferson      | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Lafayette      | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Lake           | 46.8        | 40.5 | 54.4  | 19.2        | 15.5 | 24.1 | 18.3        | 14.3 | 23.7  | 20.0        | 15.5 | 25.8 |
| Lee            | 34.0        | 30.1 | 38.4  | 15.9        | 13.4 | 19.0 | 18.9        | 15.9 | 22.6  | 15.9        | 13.1 | 19.4 |
| Leon           | 36.4        | 28.3 | 46.1  | 7.8         | 4.4  | 13.0 | 14.4        | 9.7  | 20.9  | 12.8        | 8.3  | 19.1 |
| Levy           | 44.2        | 27.8 | 70.3  | 24.8        | 13.1 | 46.8 | 20.8        | 9.2  | 43.6  | 20.5        | 11.2 | 39.9 |
| Liberty        | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Madison        | 53.4        | 26.5 | 99.1  | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Manatee        | 36.0        | 30.8 | 42.3  | 21.8        | 17.9 | 26.8 | 14.6        | 11.1 | 19.3  | 13.0        | 9.9  | 17.3 |
| Marion         | 45.4        | 39.3 | 52.6  | 22.4        | 18.5 | 27.4 | 15.3        | 11.9 | 19.9  | 18.6        | 14.6 | 23.9 |
| Martin         | 41.1        | 33.0 | 51.4  | 21.6        | 16.7 | 28.8 | 19.2        | 13.7 | 27.2  | 11.6        | 7.4  | 18.4 |
| Monroe         | 37.2        | 26.2 | 52.7  | 13.8        | 7.8  | 24.6 | 19.5        | 12.2 | 31.5  | ^           | ^    | ^    |
| Nassau         | 55.3        | 39.8 | 75.8  | 20.2        | 11.2 | 34.7 | 19.6        | 11.1 | 33.2  | 23.4        | 13.7 | 38.4 |
| Okaloosa       | 46.3        | 37.3 | 57.0  | 33.4        | 25.6 | 42.9 | 18.9        | 13.3 | 26.1  | 18.5        | 13.0 | 25.8 |
| Okeechobee     | 39.5        | 23.5 | 64.9  | 26.6        | 14.8 | 47.7 | 24.0        | 13.1 | 44.3  | ^           | ^    | ^    |
| Orange         | 46.0        | 41.8 | 50.5  | 16.8        | 14.3 | 19.7 | 15.9        | 13.6 | 18.6  | 18.2        | 15.6 | 21.1 |
| Osceola        | 46.6        | 38.4 | 56.2  | 17.4        | 12.5 | 23.8 | 15.5        | 10.9 | 21.5  | 12.8        | 8.8  | 18.3 |
| Palm Beach     | 36.8        | 34.1 | 39.6  | 20.3        | 18.5 | 22.3 | 14.6        | 12.9 | 16.5  | 18.9        | 16.9 | 21.1 |
| Pasco          | 40.1        | 35.3 | 45.7  | 20.8        | 17.7 | 24.8 | 17.2        | 13.7 | 21.7  | 17.4        | 13.8 | 22.0 |
| Pinellas       | 38.0        | 34.9 | 41.4  | 20.2        | 18.0 | 22.7 | 19.6        | 17.3 | 22.2  | 14.3        | 12.2 | 16.7 |
| Polk           | 52.4        | 47.3 | 58.0  | 19.8        | 16.8 | 23.3 | 19.4        | 16.2 | 23.2  | 19.5        | 16.5 | 23.1 |
| Putnam         | 57.2        | 43.4 | 75.7  | 25.9        | 16.9 | 39.8 | 24.6        | 15.9 | 38.4  | 20.7        | 12.5 | 34.0 |
| Saint Johns    | 38.0        | 30.2 | 48.0  | 19.3        | 13.6 | 27.2 | 17.2        | 12.3 | 24.4  | 14.5        | 9.9  | 21.4 |
| Saint Lucie    | 41.2        | 34.4 | 49.4  | 23.8        | 19.1 | 30.0 | 13.2        | 9.4  | 18.5  | 19.6        | 14.6 | 26.1 |
| Santa Rosa     | 35.9        | 27.2 | 46.9  | 17.4        | 11.4 | 26.0 | 21.0        | 14.4 | 30.0  | 16.5        | 10.7 | 24.7 |
| Sarasota       | 33.4        | 29.0 | 38.8  | 17.6        | 14.8 | 21.3 | 18.4        | 14.9 | 23.1  | 20.1        | 16.4 | 24.8 |
| Seminole       | 33.1        | 27.8 | 39.2  | 14.9        | 11.4 | 19.2 | 11.0        | 8.1  | 14.7  | 16.0        | 12.3 | 20.4 |
| Sumter         | 44.0        | 33.8 | 59.2  | 22.7        | 16.0 | 34.6 | 28.7        | 18.3 | 44.8  | 20.9        | 13.5 | 33.9 |
| Suwannee       | 34.5        | 20.1 | 58.6  | ^           | ^    | ^    | ^           | ^    | ^     | 25.2        | 13.0 | 47.7 |
| Taylor         | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Union          | 134.8       | 84.3 | 211.9 | ^           | ^    | ^    | 113.1       | 68.5 | 184.3 | ^           | ^    | ^    |
| Volusia        | 39.4        | 35.0 | 44.6  | 13.6        | 11.1 | 16.7 | 16.1        | 13.3 | 19.6  | 15.8        | 12.9 | 19.3 |
| Wakulla        | 36.3        | 16.9 | 70.0  | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |
| Walton         | 21.0        | 12.4 | 36.0  | 15.5        | 8.2  | 29.5 | 14.7        | 7.5  | 28.8  | ^           | ^    | ^    |
| Washington     | ^           | ^    | ^     | ^           | ^    | ^    | ^           | ^    | ^     | ^           | ^    | ^    |

Source of data: Florida Cancer Data System

(1) Rates are expressed as number of cases per 100,000 population per year, adjusted to the 2000 U.S. standard population.

^ Statistics for cells with fewer than 10 cases are not displayed.

Table 6.3. Age-Adjusted Incidence Rates (1) by County, Florida, 2008

|                | Melanoma    |      |      | Ovary       |      |      | Cervix     |      |      |
|----------------|-------------|------|------|-------------|------|------|------------|------|------|
|                | Rate        | CI   |      | Rate        | CI   |      | Rate       | CI   |      |
| <b>Florida</b> | <b>20.0</b> | 19.4 | 20.7 | <b>11.9</b> | 11.3 | 12.6 | <b>9.2</b> | 8.6  | 9.8  |
| Alachua        | 14.3        | 9.1  | 21.9 | 10.3        | 5.3  | 18.6 | ^          | ^    | ^    |
| Baker          | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Bay            | 19.3        | 12.9 | 28.2 | 13.1        | 6.9  | 23.7 | ^          | ^    | ^    |
| Bradford       | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Brevard        | 19.6        | 16.2 | 23.7 | 12.1        | 8.8  | 16.6 | 10.5       | 6.8  | 15.7 |
| Broward        | 17.8        | 15.8 | 20.0 | 9.2         | 7.6  | 11.2 | 10.2       | 8.4  | 12.5 |
| Calhoun        | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Charlotte      | 25.6        | 18.7 | 35.4 | 12.1        | 5.3  | 25.6 | ^          | ^    | ^    |
| Citrus         | 22.7        | 16.0 | 33.0 | 20.6        | 11.7 | 37.2 | ^          | ^    | ^    |
| Clay           | 15.5        | 10.0 | 23.3 | 9.7         | 4.6  | 19.0 | ^          | ^    | ^    |
| Collier        | 20.4        | 16.4 | 25.5 | 10.9        | 7.2  | 16.8 | 8.0        | 4.0  | 14.8 |
| Columbia       | 24.5        | 13.8 | 41.9 | ^           | ^    | ^    | ^          | ^    | ^    |
| Miami-Dade     | 9.7         | 8.4  | 11.1 | 11.6        | 10.0 | 13.6 | 9.1        | 7.6  | 10.9 |
| Desoto         | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Dixie          | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Duval          | 23.0        | 19.3 | 27.3 | 10.9        | 8.1  | 14.5 | 9.7        | 7.0  | 13.2 |
| Escambia       | 19.9        | 14.9 | 26.4 | 11.7        | 7.3  | 18.4 | 7.4        | 3.6  | 13.8 |
| Flagler        | 32.8        | 21.4 | 52.2 | 15.3        | 5.5  | 42.0 | 34.5       | 14.8 | 71.8 |
| Franklin       | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Gadsden        | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Gilchrist      | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Glades         | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Gulf           | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Hamilton       | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Hardee         | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Hendry         | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Hernando       | 21.5        | 15.0 | 31.0 | 22.9        | 13.5 | 38.6 | ^          | ^    | ^    |
| Highlands      | 25.5        | 17.4 | 39.5 | ^           | ^    | ^    | ^          | ^    | ^    |
| Hillsborough   | 19.7        | 17.0 | 22.7 | 14.8        | 12.0 | 18.2 | 10.5       | 8.0  | 13.4 |
| Holmes         | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Indian River   | 39.7        | 30.1 | 52.6 | 7.6         | 3.9  | 18.2 | ^          | ^    | ^    |
| Jackson        | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Jefferson      | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Lafayette      | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Lake           | 28.8        | 23.0 | 36.2 | 16.8        | 11.8 | 24.8 | 8.5        | 4.0  | 16.7 |
| Lee            | 23.3        | 19.6 | 27.7 | 13.8        | 10.2 | 18.8 | 10.3       | 6.4  | 15.8 |
| Leon           | 15.2        | 9.9  | 22.8 | 12.4        | 6.8  | 21.1 | ^          | ^    | ^    |
| Levy           | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Liberty        | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Madison        | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Manatee        | 17.7        | 13.7 | 22.9 | 15.0        | 10.0 | 22.5 | 8.1        | 4.2  | 14.7 |
| Marion         | 21.9        | 16.8 | 28.5 | 11.4        | 7.3  | 18.1 | 16.4       | 10.2 | 25.5 |
| Martin         | 22.2        | 16.0 | 31.2 | 11.9        | 6.4  | 23.4 | ^          | ^    | ^    |
| Monroe         | 24.1        | 15.2 | 38.3 | ^           | ^    | ^    | ^          | ^    | ^    |
| Nassau         | 21.0        | 11.5 | 36.3 | ^           | ^    | ^    | ^          | ^    | ^    |
| Okaloosa       | 27.2        | 19.9 | 36.5 | 14.4        | 8.0  | 24.5 | ^          | ^    | ^    |
| Okeechobee     | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Orange         | 18.9        | 16.0 | 22.2 | 12.6        | 9.8  | 16.1 | 10.1       | 7.6  | 13.2 |
| Osceola        | 14.1        | 9.5  | 20.4 | 14.0        | 8.2  | 22.9 | 8.7        | 4.2  | 16.3 |
| Palm Beach     | 24.5        | 21.9 | 27.3 | 11.0        | 8.9  | 13.5 | 7.3        | 5.3  | 9.8  |
| Pasco          | 28.9        | 23.5 | 35.4 | 15.6        | 10.8 | 22.5 | 8.5        | 4.8  | 14.5 |
| Pinellas       | 19.9        | 17.3 | 22.9 | 13.1        | 10.4 | 16.4 | 7.7        | 5.4  | 10.7 |
| Polk           | 29.9        | 25.5 | 35.0 | 9.8         | 6.7  | 14.3 | 13.7       | 9.3  | 19.5 |
| Putnam         | 19.4        | 10.4 | 35.0 | ^           | ^    | ^    | ^          | ^    | ^    |
| Saint Johns    | 23.9        | 17.2 | 33.0 | 13.0        | 7.4  | 23.4 | 9.8        | 4.5  | 20.3 |
| Saint Lucie    | 22.2        | 16.5 | 29.9 | 16.9        | 10.8 | 26.2 | 10.3       | 4.9  | 19.6 |
| Santa Rosa     | 19.6        | 12.9 | 29.1 | ^           | ^    | ^    | ^          | ^    | ^    |
| Sarasota       | 22.9        | 18.7 | 28.3 | 13.9        | 9.6  | 20.4 | 11.4       | 6.7  | 18.7 |
| Seminole       | 15.8        | 12.2 | 20.4 | 10.2        | 6.5  | 15.4 | 5.1        | 2.7  | 9.0  |
| Sumter         | 24.3        | 15.7 | 39.3 | 15.6        | 8.4  | 37.3 | ^          | ^    | ^    |
| Suwannee       | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Taylor         | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Union          | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Volusia        | 17.5        | 14.4 | 21.4 | 9.8         | 6.9  | 14.1 | 10.7       | 6.8  | 16.4 |
| Wakulla        | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Walton         | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |
| Washington     | ^           | ^    | ^    | ^           | ^    | ^    | ^          | ^    | ^    |

Source of data: Florida Cancer Data System

(1) Rates are expressed as number of cases per 100,000 population per year, adjusted to the 2000 U.S. standard population.

^ Statistics for cells with fewer than 10 cases are not displayed.

## AGE-SPECIFIC INCIDENCE RATES

- Cancer incidence rates increased with increasing age for all the selected sites, with one exception: white females had a higher age-specific cervix incidence rate in the group age 40 to 64, 14.3 [CI: 12.9-15.9] per 100,000 population, than in the 65-and-older age group, 9.3 [CI: 7.9-10.9] per 100,000 population.
- For all cancers combined, black females had lower age-specific rates than white females in the groups aged 15 to 39 and 40 to 64. Black females also had lower age-specific rates than black males in the 40 to 64 and 65-years-and-older age groups.
- The rates for head and neck cancer among black females in the 40 to 64 and 65-and-older age groups were lower than the rates for black males.
- White females in the 40 to 64 and 65-and-older age groups had rates lower than their male counterparts for all the selected sites.

## TRENDS IN NEW CASES AND AGE-ADJUSTED INCIDENCE RATES

- From 1981 to 2008, age-adjusted incidence rates for all cancers combined in males varied between 30% and 56% higher than the rates in females.
- The decline in the rate for all cancers combined since 2001 was more pronounced for males than for females.
- The rates for black females for all cancers combined varied between 10% and 27% lower than the rates for white females since 1981.
- The age-adjusted incidence rate in black males was higher than in white males in all years except 1987, 1988, and 2006; the largest difference (18%) occurred in 1995.
- The rates for black females and black males for all cancers combined increased by 18% and 13% respectively between 1981 and 2008. The rates for whites increased by 7% for females and 2.4% for males.
- Since 1992, the rates have decreased 26% for black males and 24% for white males. During the same period, rates for black females decreased 4.5% and 8.5% for white females.



# Florida Annual Cancer Report: 2008 Incidence and Mortality

(1) Rates are expressed as number of cases per 100,000 population per year.  
Statistics for cells with fewer than 10 cases are not displayed.

Source of data: Florida Cancer Data System

Statistics for cells with fewer than 10 cases are not displayed.

**Figure 2. New Cases and Age-Adjusted Incidence Rates for All Cancers by Sex and by Race, Florida, 1981-2008**

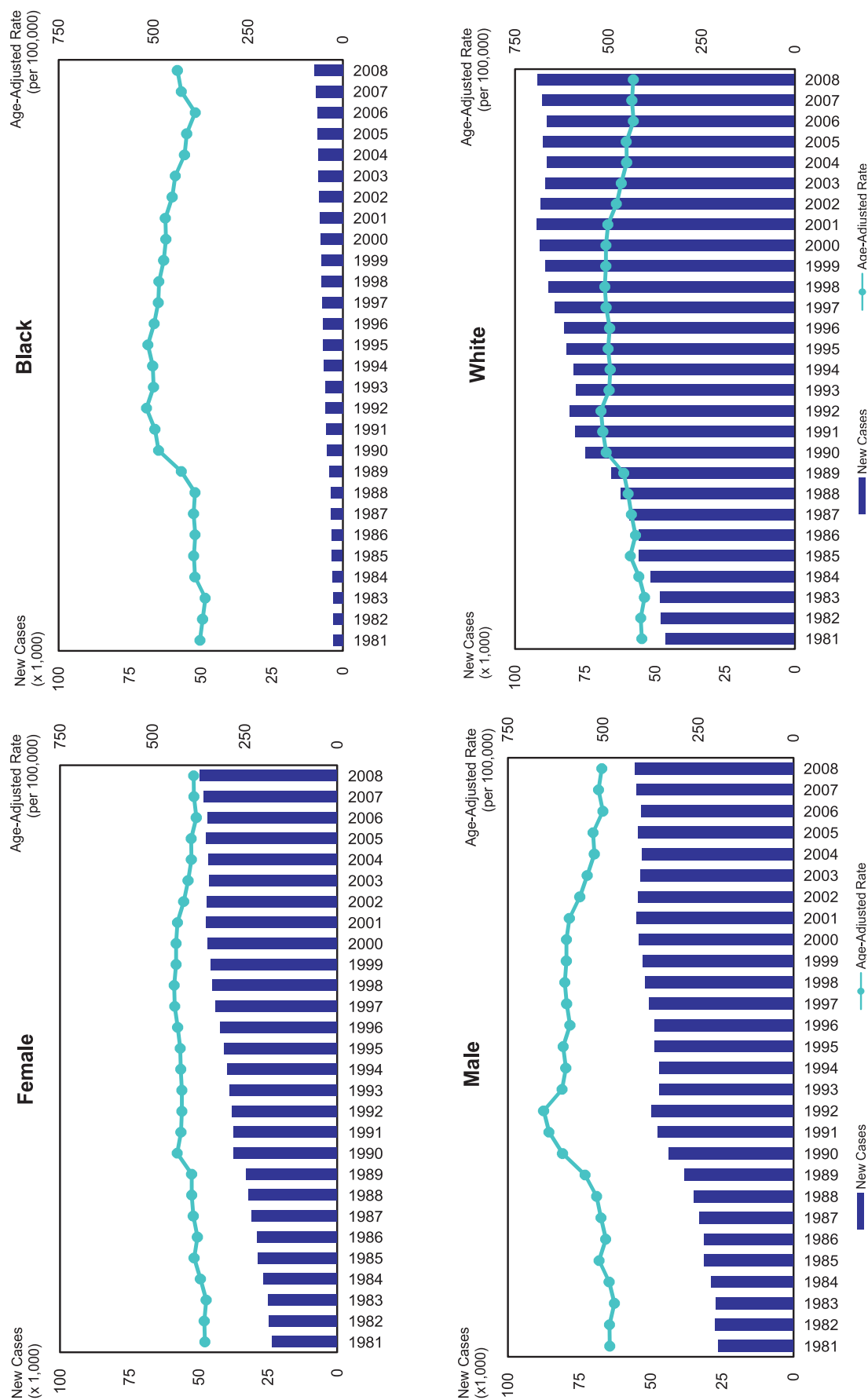
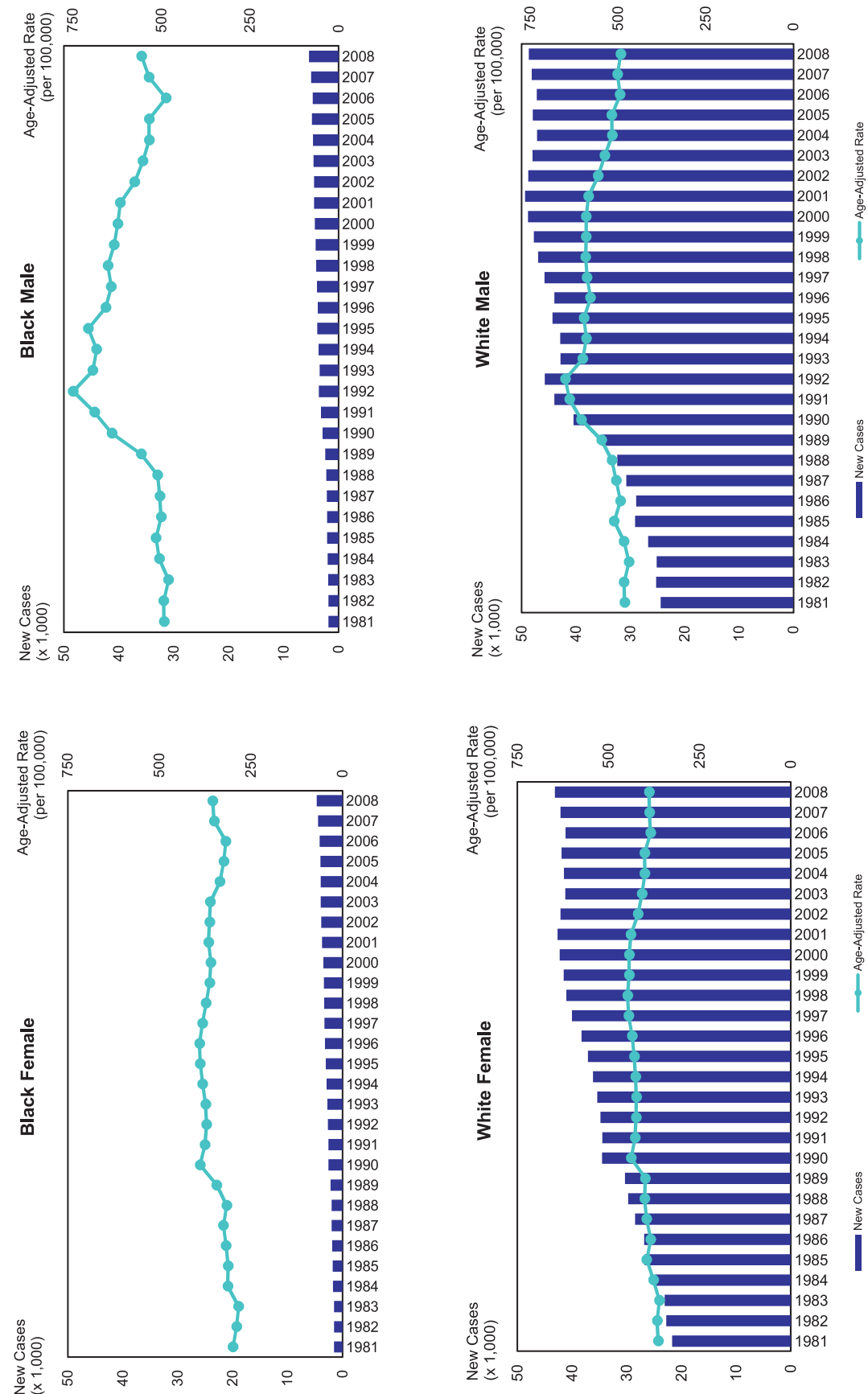


Figure 3. New Cases and Age-Adjusted Incidence Rates for All Cancers by Sex and Race, Florida, 1981-2008

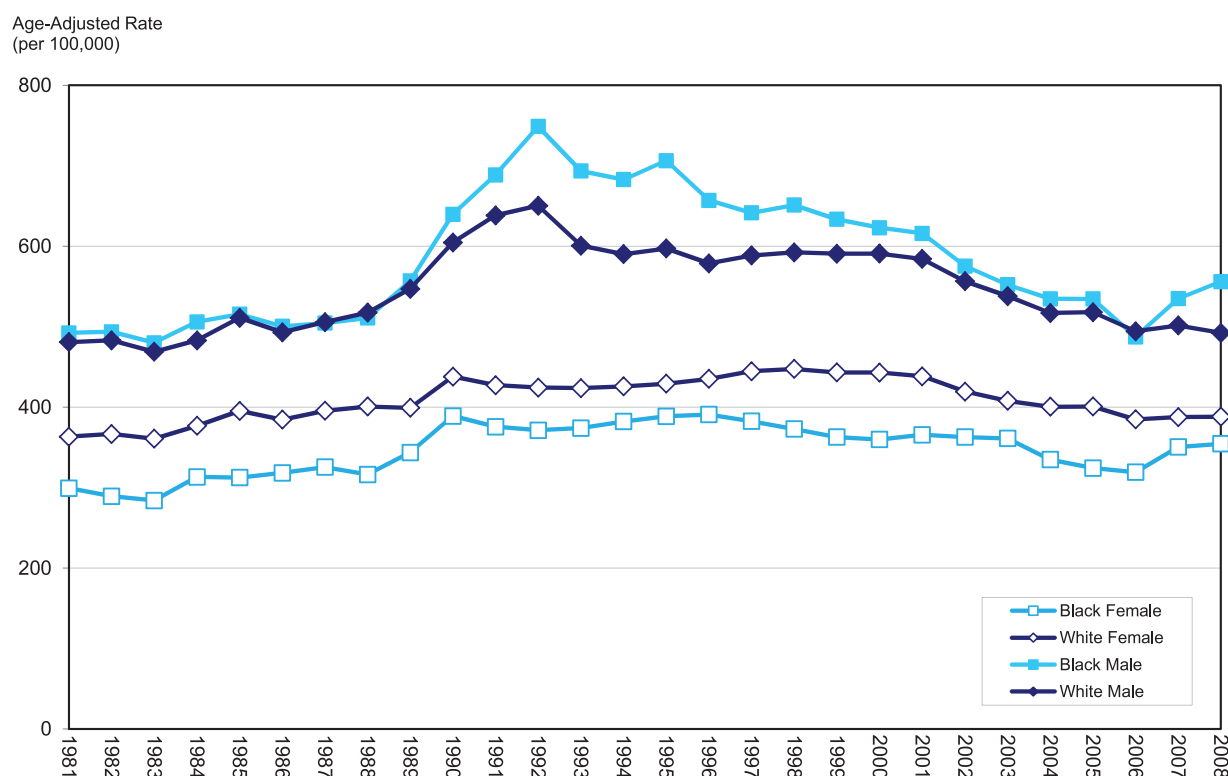


Source of data: Florida Cancer Data System

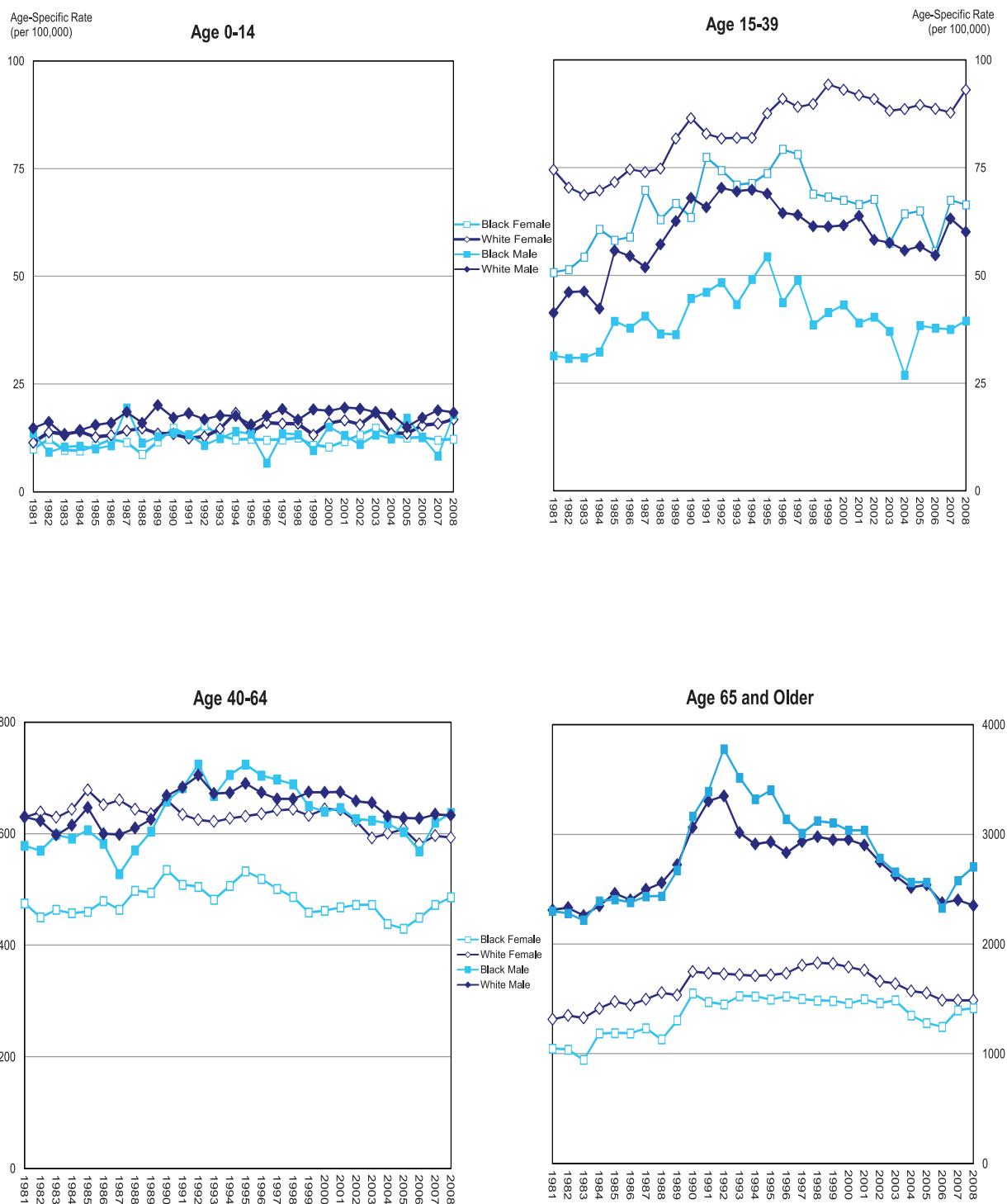
## TRENDS IN AGE-SPECIFIC INCIDENCE RATES

- Age-specific incidence rates for all cancer combined increased with increasing age group in all four sex-race groups.
- In the group age 0 to 14, the rates for the four sex-race groups are so close as to be indistinguishable.
- In the group age 15 to 39, from 1981 to 2008, white females had the highest age-specific rate and black males had the lowest rate of the four sex-race groups. Both male and female whites had higher rates than their black counterparts; females had higher rates than their male counterparts among both blacks and whites.
- Black females age 40 to 64 had lower age-specific rates than others in the same age group.
- In the 65-and-older age group, black females had the lowest rates, followed by white females. Males of both races had higher rates than their female counterparts during the period. There were no large differences between the rates for white and black males.
- The peak in age-specific rates for males in 1992 due to the introduction of the prostate-specific antigen test was limited to the age group 65 and older.

**Figure 4. Age-Adjusted Incidence Rates for All Cancers by Sex and Race, Florida, 1981-2008**



**Figure 5. Age Specific Incidence Rates for All Cancers by Sex, Race and Age Group, Florida, 1981-2008**



Source of data: Florida Cancer Data System

## CANCER SITES

### Lung and Bronchus

#### INCIDENCE

- Age-adjusted incidence rates of cancer of the lung and bronchus were higher in males than in females of both races. The difference has decreased since 1981.
- Age-adjusted incidence rates among white females were higher than those among black females.
- Incidence rates decreased 29% in black males and 22% in white males between 1981 and 2008. The rate for black males was 19% higher than that for white males in 1981, and decreased to 9% higher in 2008.
- The incidence rate for black females increased 88% from 1981 to 1996, then declined 29% from 1996 to 2008, for an increase of 34% over the 28-year period.
- The incidence rate for white females increased 71% from 1981 to 1998 and decreased 12% from 1998 to 2008, for an increase of 50% over the 28-year period.
- Because of the increases in incidence rates among females of both races and the decreases in incidence rates among males of both races, the gap between males and females decreased for both races between 1981 and 2008, by 62% in blacks and by 41% in whites.

### Prostate

- Black males had higher age-adjusted incidence rates than white males in all 28 years.
- Since 1981, the rate of prostate cancer increased 50% for blacks and 26% for whites.
- Rates peaked in 1992 for both races as the PSA test came into general use, and declined since then, 30% for blacks and 45% for whites. The gap in rates between blacks and whites was smaller before the peak than after.
- In 1981, the incidence rate was 52% higher for blacks than for whites; by 1998, the rate for blacks was 74% higher. In 2008, the rate was 82% higher for blacks than for whites.

### Breast

- During the 28-year period, incidence rates were higher for white females than for black females, ranging from 58% higher in 1984 to 7% higher in 2008.
- The age-adjusted incidence rate among black females increased 31% between 1981 and 2008. Among white females, the rate decreased 18% since its peak in 1998.

### Colorectal

- From 1991 to 2008, the age-adjusted incidence rates were higher among both black and white males than among females of either race.
- From 1981 to 1994, the age-adjusted incidence rates of colorectal cancer for white males were higher than the rates for black males. During this period, the rate for white males decreased and the rate for black males increased. After 1995, the rates for males of both races decreased.
- Among both black and white females, age-adjusted incidence rates decreased from 1995 to 2007. From 2007 to 2008, the rate for black females increased by 16%, while the rate for white females decreased by 5%.

## Bladder

- During the 28-year period, the age-adjusted incidence rate for bladder cancer among white males was markedly higher than the rates for all other sex-race groups.
- The rates for white males were stable between 1981 and 2000, but declined by 30% from 2000 to 2008.
- Age-adjusted incidence rates for white females decreased 32% between 1999 and 2008.
- During the 28-year period, age-adjusted incidence rates among black males increased 25%; the rates for black females decreased 19%.

## Head and Neck

- Males of both races had age-adjusted incidence rates 3 to 6 times higher than their female counterparts in all years.
- The rates were similar for black and white females from 1981 to 2008. However, age-adjusted rates for black males were higher than for white males between 1983 and 1994.

## Non-Hodgkin Lymphoma

- Age-adjusted incidence rates increased for all sex-race groups between 1981 and 2008. Males had higher rates than females for both races, and whites had higher rates than blacks for both sexes.
- The rates for white males increased from 1981 to 1994, and then declined until 2008.
- The rates for white females increased from 1981 to 1998, declined until 2007, then rose 29% in 2008.
- The rate for black females nearly tripled from 1981 to 2008, and more than doubled among black males.
- Due to decreasing rates for white females and increasing rates for black females since the mid-1990s, the disparity has decreased from 40% higher in white females in 1981 to 17% higher in 2008.
- An increase in rates for black females and a decrease for black males have decreased the difference in rates between these groups by 48% since its peak in 1991.

## Melanoma

- Age-adjusted incidence rates for melanoma increased from 1981 to 2008, by 40% for females and 95% for males.
- Incidence rates of melanoma were between 30% and 94% higher in males than in females during the 28-year period.

## Ovary

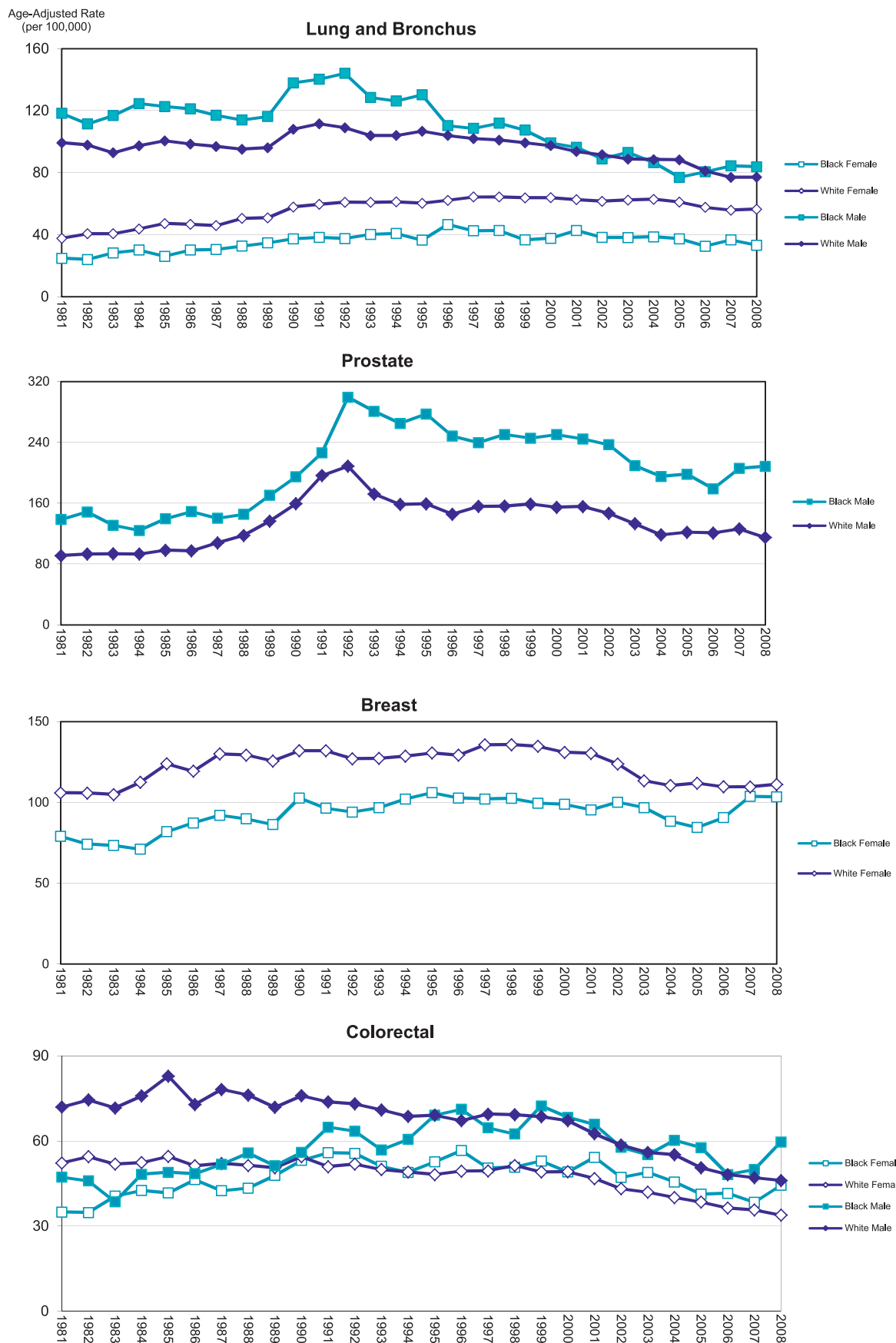
- White females had higher incidence rates than black females in all years. The differences ranged from 127% higher in 1986 to 12% higher in 1995.
- Incidence rates for white females increased by 14% from 1981 to 1996, and then decreased 31% from 1996 to 2008.
- Incidence rates for black females increased 45% from 1981 to 1995, and then decreased 27% from 1995 to 2008.

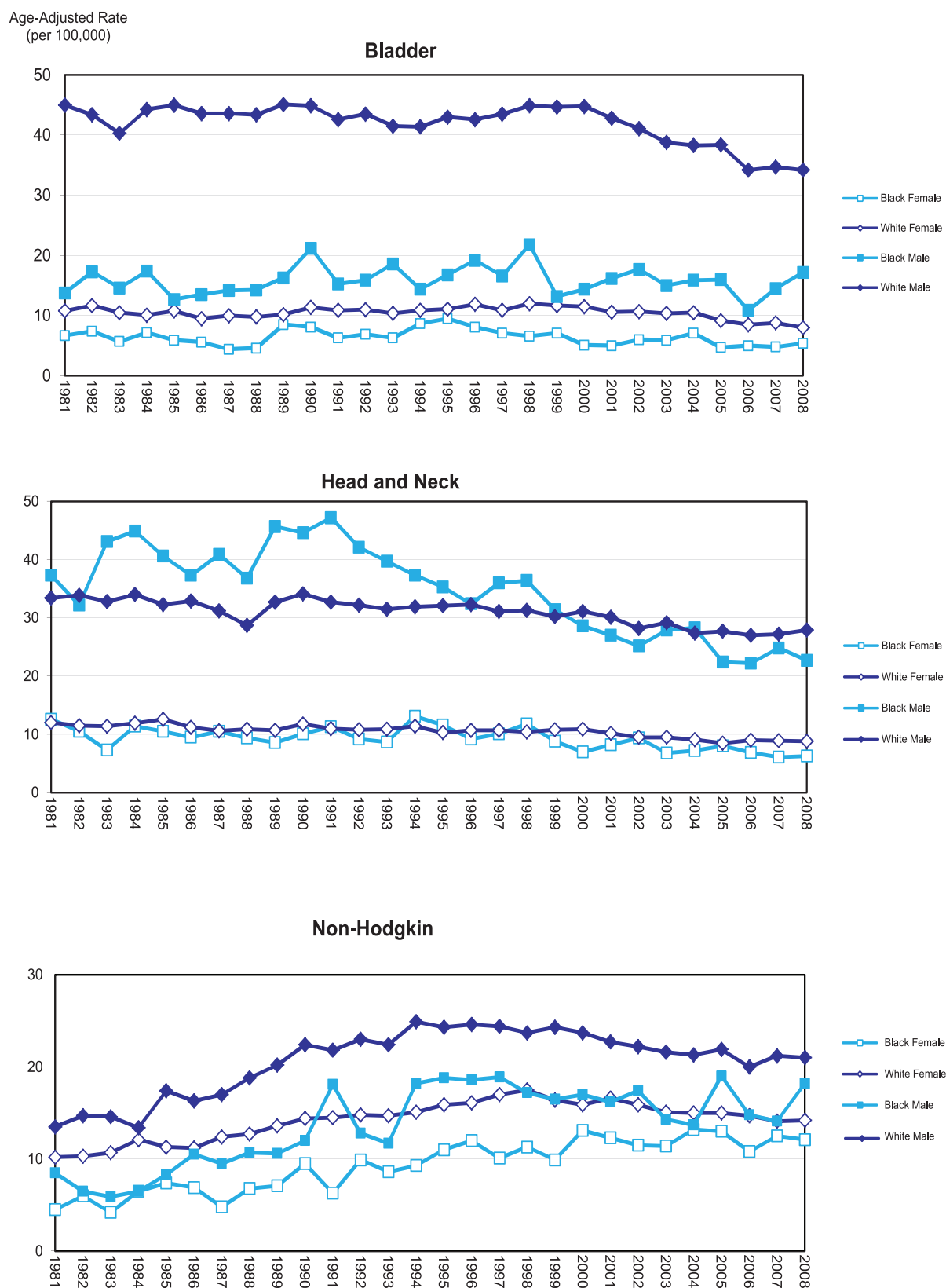
## Cervix

- Black females had higher incidence rates than white females in all 28 years, decreasing from 58% higher in 1981 to 13% higher in 2004. That difference increased to 21% in 2008.
- The rate of cervical cancer in both races has declined since 1981, more quickly for black females than white females. Between 1981 and 2008, rates declined by 63% among blacks and 32% among whites.



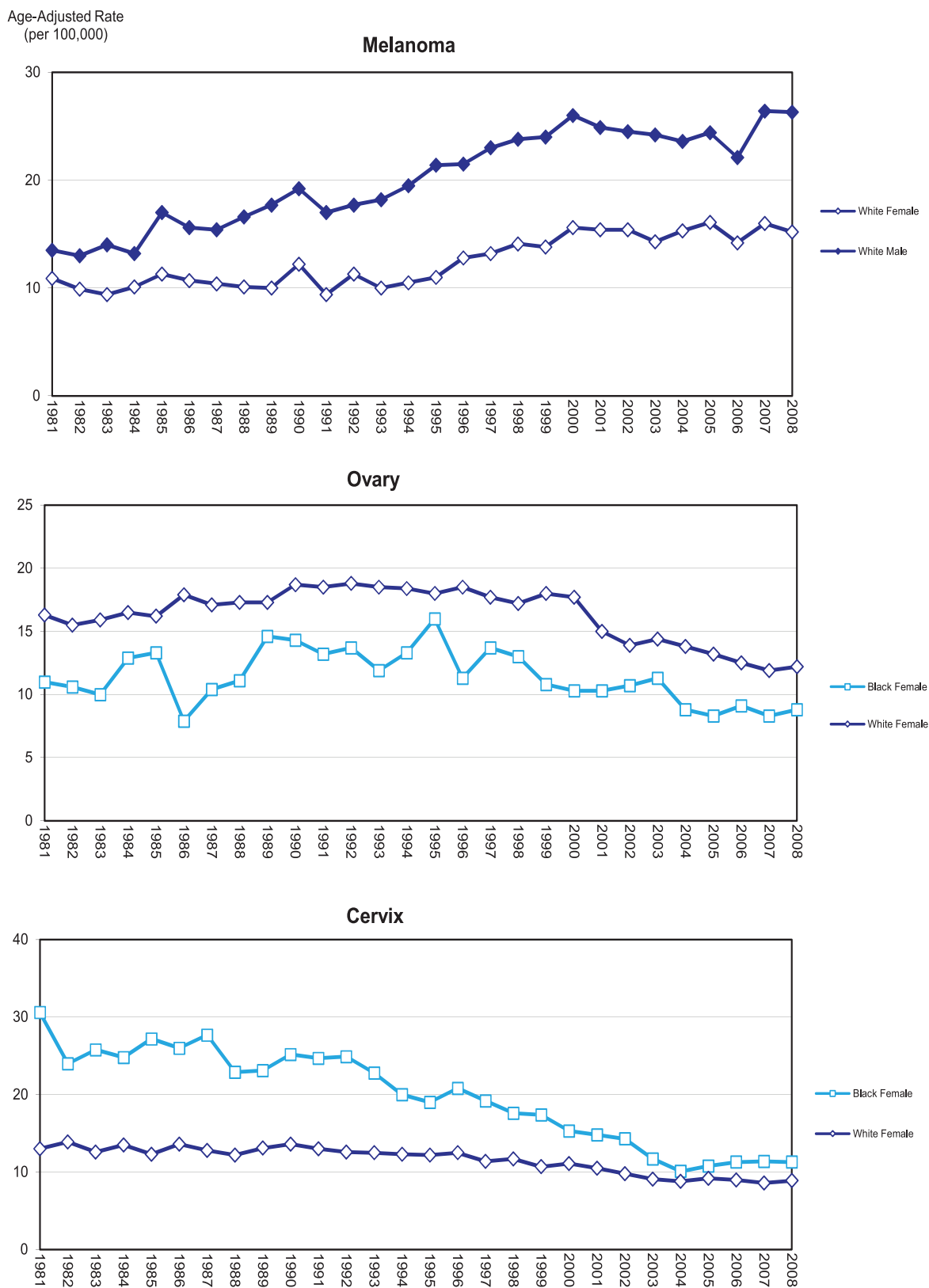
**Figure 6.1 Age-Adjusted Incidence Rates by Sex and Race, Florida, 1981-2008**



**Figure 6.2 Age-Adjusted Incidence Rates by Sex and Race, Florida, 1981-2008**

Source of data: Florida Cancer Data System

**Figure 6.3 Age-Adjusted Incidence Rates by Sex and Race, Florida, 1981-2008**



Source of data: Florida Cancer Data System

## STAGE OF CANCER AT DIAGNOSIS

In this report, early stage cancer is defined as local stage and in situ cancers of the bladder. The category of advanced stage includes cancer diagnosed at both regional and distant stages. Figure 7 is the only exception, showing trends in the number of cases by stage at diagnosis, not in the categories early and advanced, but as originally abstracted, with regional and distant stages separated.

- Three-quarters of ovarian cancer and two-thirds of lung cancer were diagnosed at advanced stage in 2008.
- Nine percent of bladder cancer and 9.7% of prostate cancer were diagnosed at advanced stage.
- Blacks had higher percentages of cancer diagnosed at advanced stage than whites for all cancers combined and for all selected sites except ovarian cancer.
- Black females had 7% more cancer of the lung and bronchus, 11% more breast cancer, and 8.5% more head and neck cancer diagnosed at advanced stage than white females.
- For cancer of the lung and bronchus, the percentage diagnosed at advanced stage was higher among black males (72%) than white males (65%).
- For colorectal cancer, both black females (56%) and white females (52%) had higher percentages diagnosed at advanced stage than their male counterparts: white males (51%), black males (53%).
- The percentage of bladder cancer diagnosed at advanced stage was higher among blacks (17%) than among whites (8.8%).

**Table 8. Percentage of Advanced Stage(1) Cancer at Diagnosis by Sex and Race, Florida, 2008**

|              | All Cancers | Lung &<br>Bronchus | Prostate | Breast | Colorectal | Bladder | Head &<br>Neck | Non-<br>Hodgkin | Melanoma | Ovary | Cervix |
|--------------|-------------|--------------------|----------|--------|------------|---------|----------------|-----------------|----------|-------|--------|
| Florida      | 41.6        | 64.8               | 9.7      | 33.5   | 51.9       | 8.9     | 51.2           | 56.7            | 14.6     | 75.4  | 45.6   |
| Female       | 45.2        | 63.2               |          | 33.5   | 52.2       | 10.3    | 46.7           | 56.2            | 13.9     | 75.4  | 45.6   |
| Male         | 38.3        | 66.1               | 9.7      |        | 51.5       | 8.5     | 52.8           | 57.0            | 15.1     |       |        |
| Black        | 44.4        | 71.5               | 11.4     | 43.6   | 54.5       | 16.5    | 57.5           | 63.6            |          | 69.0  | 53.4   |
| White        | 41.3        | 64.2               | 9.4      | 32.4   | 51.5       | 8.8     | 50.6           | 56.1            | 14.6     | 76.3  | 43.4   |
| Black Female | 50.6        | 69.8               |          | 43.6   | 55.7       | 20.6    | 54.5           | 61.2            |          | 69.0  | 53.4   |
| White Female | 44.7        | 62.8               |          | 32.4   | 52.0       | 9.9     | 46.0           | 55.9            | 13.9     | 76.3  | 43.4   |
| Black Male   | 39.0        | 72.3               | 11.4     |        | 53.1       | 14.6    | 58.6           | 65.6            |          |       |        |
| White Male   | 38.3        | 65.4               | 9.4      |        | 51.2       | 8.4     | 52.3           | 56.2            | 15.1     |       |        |

(1) Advanced stage includes all regional and distant disease.

Source of data: Florida Cancer Data System

## County

- The percentage of all cancers combined diagnosed at advanced stage ranged from 29% in Hamilton County to 54% in Taylor County.
- Walton County had the lowest percentage of advanced-stage cancer of the lung and bronchus, 46%; Taylor County had the highest, 83%.
- The percentage prostate cancer diagnosed at advanced stage was highest in Osceola County (21%) and lowest in Charlotte County (5.1%).
- The percentage of breast cancer diagnosed at advanced stage was highest in Jackson County (59%) and lowest in Sarasota County (23%).
- The percentage of ovarian cancer diagnosed at advanced stage ranged from 93% in Martin County to 62% in Duval County.

## Age Group

- The percentage of all cancers combined diagnosed at advanced stage was highest for black females and for whites of both sexes in the 0 to 14 age group. For black males, the highest percentage of advanced-stage diagnoses was 56.3% in the 15 to 39 age group.
- The percentage of cancer of the lung and bronchus diagnosed at advanced stage was highest for white females in the 15 to 39 age group. For both black and white males, the highest percentages were in the 40 to 64 age group.
- The percentage of prostate cancer diagnosed at advanced stage was higher in both races in the 40 to 64 age group than in the group age 65 and older.
- The percentage of breast cancer diagnosed at advanced stage was highest among black females in the 40 to 64 age group, and among white females in the 15 to 39 age group.
- The percentage of colorectal cancer diagnosed at advanced stage was highest in the group age 15 to 39 and decreased as age increased for all sex-race groups except black males.
- The percentage of bladder cancer diagnosed at advanced stage was higher in the 40 to 64 age group than the group age 65 and older for both sexes, both races and all sex-race groups.
- The percentage of head and neck cancer at advanced stage was highest in the 40 to 64 age group for all sexes, all races and all sex-race groups except black females.
- The percentage of non-Hodgkin lymphoma cancer at advanced stage was highest among females, both races and all sex-race groups in the 40 to 60 age group.
- The percentage of melanoma cancer at advanced stage was highest among whites in the 40 to 64 age group. However, the percentage increased with increasing age among females, and decreased with increasing age among males.

- The percentage of ovarian cancer at advanced stage increased with age for Florida and for both races.
- The percentage of cervical cancer at advanced stage increased with age for white females. Black females in the 40 to 64 age group had the highest diagnoses compared to other age groups.

**Table 9. Percentage of Advanced Stage (1) Cancer at Diagnosis by County, Florida, 2008**

|              | All<br>Cancers | Lung &<br>Bronchus | Prostate | Breast | Colorectal | Bladder | Head &<br>Neck | Non-<br>Hodgkin | Melanoma | Ovary | Cervix |
|--------------|----------------|--------------------|----------|--------|------------|---------|----------------|-----------------|----------|-------|--------|
| Florida      | 41.6           | 64.8               | 9.7      | 33.5   | 51.9       | 8.9     | 51.2           | 56.7            | 14.6     | 75.4  | 45.6   |
| Alachua      | 43.5           | 58.1               | 19.3     | 34.2   | 55.7       | ^       | 61.5           | 57.8            | ^        | 83.3  | ^      |
| Baker        | 40.0           | 65.2               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Bay          | 41.3           | 72.4               | 13.0     | 32.6   | 52.1       | ^       | 47.6           | 72.5            | ^        | ^     | ^      |
| Bradford     | 42.0           | 70.4               | ^        | ^      | 47.6       | ^       | ^              | ^               | ^        | ^     | ^      |
| Brevard      | 44.6           | 77.7               | 8.6      | 30.0   | 51.7       | 6.4     | 44.1           | 59.5            | 18.1     | 66.7  | 46.4   |
| Broward      | 41.5           | 66.1               | 8.8      | 34.8   | 52.8       | 7.7     | 51.6           | 53.8            | 17.3     | 77.5  | 42.1   |
| Calhoun      | 29.8           | ^                  | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Charlotte    | 32.1           | 54.1               | 5.1      | 26.1   | 42.7       | ^       | 38.8           | 33.3            | ^        | 78.6  | ^      |
| Citrus       | 41.0           | 69.7               | 8.2      | 32.0   | 70.9       | ^       | 48.1           | 60.9            | ^        | 76.0  | ^      |
| Clay         | 40.4           | 64.2               | 7.9      | 27.5   | 58.2       | ^       | 60.6           | 51.2            | ^        | ^     | ^      |
| Collier      | 36.7           | 61.6               | 7.9      | 28.7   | 56.9       | ^       | 32.9           | 53.9            | 17.6     | 84.4  | ^      |
| Columbia     | 39.4           | 51.6               | ^        | 34.0   | 41.7       | ^       | 60.0           | ^               | ^        | ^     | ^      |
| Miami-Dade   | 43.8           | 69.5               | 8.9      | 39.9   | 54.2       | 8.3     | 50.8           | 58.7            | 14.5     | 71.7  | 54.8   |
| Desoto       | 29.9           | 53.1               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Dixie        | 52.3           | 64.0               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Duval        | 41.4           | 69.3               | 7.6      | 32.7   | 49.0       | 12.5    | 55.7           | 61.1            | 13.6     | 62.0  | 42.9   |
| Escambia     | 46.7           | 71.2               | 11.9     | 29.6   | 62.0       | ^       | 55.4           | 72.9            | 24.5     | 86.4  | ^      |
| Flagler      | 45.1           | 62.4               | 19.4     | 53.9   | 45.9       | ^       | 60.0           | 67.6            | ^        | ^     | ^      |
| Franklin     | 48.5           | 80.0               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Gadsden      | 46.2           | 65.4               | ^        | 53.3   | 51.9       | ^       | ^              | ^               | ^        | ^     | ^      |
| Gilchrist    | 51.1           | 59.1               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Glades       | 33.8           | ^                  | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Gulf         | 48.9           | 75.0               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Hamilton     | 29.0           | ^                  | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Hardee       | 47.2           | 73.9               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Hendry       | 44.3           | 75.0               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Hernando     | 42.1           | 60.2               | 7.1      | 36.4   | 56.6       | ^       | 36.5           | 45.3            | ^        | 76.9  | ^      |
| Highlands    | 48.1           | 66.9               | 17.6     | 40.3   | 37.3       | ^       | 48.4           | 72.4            | ^        | ^     | ^      |
| Hillsborough | 40.6           | 64.0               | 9.2      | 33.1   | 54.3       | 10.5    | 48.8           | 53.9            | 13.5     | 64.3  | 35.4   |
| Holmes       | 38.0           | 63.2               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Indian River | 44.2           | 67.4               | 9.9      | 33.1   | 55.4       | ^       | 56.9           | 60.0            | 19.5     | 91.7  | ^      |
| Jackson      | 49.2           | 66.0               | ^        | 59.4   | 57.1       | ^       | 57.1           | ^               | ^        | ^     | ^      |
| Jefferson    | 47.1           | 76.9               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Lafayette    | 38.5           | ^                  | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Lake         | 41.7           | 69.8               | 9.5      | 28.0   | 48.1       | 9.5     | 43.0           | 65.2            | 14.7     | 77.3  | ^      |
| Lee          | 41.9           | 63.4               | 11.1     | 33.0   | 64.7       | 9.0     | 44.2           | 49.2            | 11.4     | 70.5  | 44.4   |
| Leon         | 41.5           | 75.2               | 8.5      | 35.9   | 54.7       | ^       | 65.6           | 74.1            | ^        | 66.7  | ^      |
| Levy         | 45.8           | 61.8               | ^        | 48.4   | 53.8       | ^       | ^              | ^               | ^        | ^     | ^      |
| Liberty      | 42.9           | ^                  | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Madison      | 45.0           | 77.3               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Manatee      | 38.4           | 56.8               | 10.5     | 33.1   | 46.0       | ^       | 50.0           | 49.3            | 15.7     | 67.6  | ^      |
| Marion       | 41.6           | 67.6               | 10.8     | 28.3   | 45.5       | 10.0    | 50.6           | 55.7            | 23.0     | 72.4  | ^      |
| Martin       | 40.1           | 64.7               | 6.5      | 30.5   | 53.2       | ^       | 51.1           | 70.0            | 22.6     | 93.3  | ^      |
| Monroe       | 41.6           | 78.1               | ^        | 26.5   | 57.5       | ^       | 56.5           | ^               | ^        | ^     | ^      |
| Nassau       | 40.6           | 62.5               | ^        | 32.9   | 45.5       | ^       | 62.5           | 61.1            | ^        | ^     | ^      |
| Okaloosa     | 37.1           | 51.1               | ^        | 31.4   | 41.3       | ^       | 52.6           | 45.9            | ^        | 86.7  | ^      |
| Okeechobee   | 45.5           | 65.9               | ^        | ^      | 55.0       | ^       | ^              | ^               | ^        | ^     | ^      |
| Orange       | 43.5           | 66.1               | 12.2     | 36.8   | 51.6       | 12.0    | 57.5           | 55.4            | 18.3     | 80.9  | 49.1   |
| Osceola      | 42.4           | 59.7               | 20.7     | 45.3   | 56.4       | ^       | 50.0           | 38.2            | ^        | 88.9  | ^      |
| Palm Beach   | 39.5           | 58.7               | 7.3      | 30.9   | 53.4       | 4.0     | 53.4           | 54.2            | 10.4     | 73.9  | 50.0   |
| Pasco        | 37.2           | 54.7               | 8.2      | 30.9   | 49.0       | ^       | 47.6           | 48.1            | 12.1     | 87.0  | 52.6   |
| Pinellas     | 40.1           | 59.2               | 10.5     | 30.9   | 49.4       | 10.6    | 50.9           | 49.0            | 18.6     | 75.8  | 52.3   |
| Polk         | 45.8           | 69.7               | 12.4     | 31.9   | 47.0       | 16.0    | 60.7           | 67.1            | 17.1     | 80.0  | 51.4   |
| Putnam       | 35.4           | 58.1               | ^        | 35.8   | 47.5       | ^       | 42.3           | 47.6            | ^        | ^     | ^      |
| Saint Johns  | 41.7           | 70.0               | 6.8      | 30.1   | 58.3       | ^       | 65.0           | 56.3            | ^        | 68.8  | ^      |
| Saint Lucie  | 43.4           | 67.4               | 9.5      | 37.4   | 45.1       | ^       | 65.1           | 51.7            | 16.1     | 89.7  | ^      |
| Santa Rosa   | 41.6           | 71.8               | 12.6     | 32.8   | 47.5       | ^       | 52.9           | 57.7            | ^        | ^     | ^      |
| Sarasota     | 36.8           | 56.8               | 10.0     | 23.1   | 48.6       | 7.2     | 40.7           | 56.6            | 15.4     | 86.0  | 47.8   |
| Seminole     | 42.6           | 64.0               | 13.2     | 34.9   | 50.3       | ^       | 54.9           | 70.6            | 16.9     | 87.5  | ^      |
| Sumter       | 40.8           | 65.9               | 11.6     | 35.8   | 53.6       | ^       | 58.1           | 75.0            | ^        | 85.7  | ^      |
| Suwannee     | 41.5           | 55.8               | ^        | 33.3   | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Taylor       | 54.1           | 83.3               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Union        | 36.6           | 64.1               | ^        | ^      | 52.2       | ^       | ^              | ^               | ^        | ^     | ^      |
| Volusia      | 44.3           | 64.7               | 14.4     | 37.2   | 48.0       | 21.8    | 62.0           | 62.5            | 14.9     | 70.7  | 51.9   |
| Wakulla      | 45.2           | 66.7               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Walton       | 31.7           | 46.3               | ^        | 27.8   | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Washington   | 51.5           | 64.0               | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |

(1) Advanced stage includes all regional and distant disease.

Source of data: Florida Cancer Data System

^ Statistics for cells with fewer than 10 advanced stage cases are not displayed.

**Table 10. Percentage of Advanced Stage (1) Cancer at Diagnosis by Sex, Race, and Age Group, Florida, 2008**

|                     | All<br>Cancers | Lung &<br>Bronchus | Prostate    | Breast      | Colorectal  | Bladder     | Head &<br>Neck | Non-<br>Hodgkin | Melanoma    | Ovary       | Cervix      |
|---------------------|----------------|--------------------|-------------|-------------|-------------|-------------|----------------|-----------------|-------------|-------------|-------------|
| <b>Florida</b>      | <b>41.6</b>    | <b>64.8</b>        | <b>9.7</b>  | <b>33.5</b> | <b>51.9</b> | <b>8.9</b>  | <b>51.2</b>    | <b>56.7</b>     | <b>14.6</b> | <b>75.4</b> | <b>45.6</b> |
| 0-14                | 62.9           | ^                  | ^           | ^           | ^           | ^           | ^              | 54.8            | ^           | ^           | ^           |
| 15-39               | 43.7           | 67.1               | ^           | 45.6        | 61.8        | ^           | 43.6           | 55.5            | 12.6        | 51.3        | 36.8        |
| 40-64               | 42.7           | 73.1               | 12.1        | 37.5        | 56.3        | 12.2        | 57.8           | 60.4            | 15.1        | 74.2        | 46.7        |
| 65+                 | 40.5           | 61.2               | 8.4         | 28.4        | 49.4        | 8.1         | 45.0           | 54.7            | 14.6        | 79.1        | 53.0        |
| <b>Female</b>       | <b>45.2</b>    | <b>63.2</b>        |             | <b>33.5</b> | <b>52.2</b> | <b>10.3</b> | <b>46.7</b>    | <b>56.2</b>     | <b>13.9</b> | <b>75.4</b> | <b>45.6</b> |
| 0-14                | 63.5           | ^                  |             | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| 15-39               | 42.0           | 74.3               |             | 45.6        | 59.8        | ^           | 43.8           | 54.9            | 10.2        | 51.3        | 36.8        |
| 40-64               | 45.0           | 71.5               |             | 37.5        | 56.1        | 11.4        | 48.2           | 59.7            | 14.2        | 74.2        | 46.7        |
| 65+                 | 45.4           | 59.9               |             | 28.4        | 50.4        | 10.1        | 46.0           | 54.8            | 14.6        | 79.1        | 53.0        |
| <b>Male</b>         | <b>38.3</b>    | <b>66.1</b>        | <b>9.7</b>  |             | <b>51.5</b> | <b>8.5</b>  | <b>52.8</b>    | <b>57.0</b>     | <b>15.1</b> |             |             |
| 0-14                | 62.4           | ^                  | ^           |             | ^           | ^           | ^              | 63.2            | ^           |             |             |
| 15-39               | 46.3           | 60.5               | ^           |             | 63.2        | ^           | 43.5           | 56.0            | 16.3        |             |             |
| 40-64               | 40.5           | 74.5               | 12.1        |             | 56.7        | 12.5        | 60.6           | 60.9            | 15.7        |             |             |
| 65+                 | 36.5           | 62.5               | 8.4         |             | 48.3        | 7.5         | 44.6           | 54.7            | 14.7        |             |             |
| <b>Black</b>        | <b>44.4</b>    | <b>71.5</b>        | <b>11.4</b> | <b>43.6</b> | <b>54.5</b> | <b>16.5</b> | <b>57.5</b>    | <b>63.6</b>     |             | <b>69.0</b> | <b>53.4</b> |
| 0-14                | 53.7           | ^                  | ^           | ^           | ^           | ^           | ^              | ^               |             | ^           | ^           |
| 15-39               | 51.9           | ^                  | ^           | 42.0        | 61.4        | ^           | 52.0           | 63.9            |             | ^           | 48.9        |
| 40-64               | 45.5           | 76.9               | 13.0        | 46.7        | 57.1        | 24.2        | 62.4           | 66.0            |             | 68.5        | 55.4        |
| 65+                 | 41.9           | 67.3               | 9.9         | 38.3        | 51.3        | 13.3        | 50.4           | 61.2            |             | 70.0        | 54.5        |
| <b>White</b>        | <b>41.3</b>    | <b>64.2</b>        | <b>9.4</b>  | <b>32.4</b> | <b>51.5</b> | <b>8.8</b>  | <b>50.6</b>    | <b>56.1</b>     | <b>14.6</b> | <b>76.3</b> | <b>43.4</b> |
| 0-14                | 65.2           | ^                  | ^           | ^           | ^           | ^           | ^              | 57.1            | ^           | ^           | ^           |
| 15-39               | 41.8           | 62.7               | ^           | 45.5        | 61.2        | ^           | 42.5           | 53.3            | 12.6        | 47.7        | 33.3        |
| 40-64               | 42.4           | 72.7               | 11.8        | 36.3        | 56.1        | 11.8        | 57.3           | 59.7            | 15.1        | 75.2        | 44.2        |
| 65+                 | 40.5           | 60.8               | 8.2         | 27.8        | 49.4        | 8.0         | 44.6           | 54.4            | 14.6        | 80.0        | 52.5        |
| <b>Black Female</b> | <b>50.6</b>    | <b>69.8</b>        |             | <b>43.6</b> | <b>55.7</b> | <b>20.6</b> | <b>54.5</b>    | <b>61.2</b>     |             | <b>69.0</b> | <b>53.4</b> |
| 0-14                | 60.5           | ^                  |             | ^           | ^           | ^           | ^              | ^               |             | ^           | ^           |
| 15-39               | 49.1           | ^                  |             | 42.0        | 72.2        | ^           | ^              | 60.0            |             | ^           | 48.9        |
| 40-64               | 51.3           | 76.5               |             | 46.7        | 56.6        | ^           | 50.0           | 63.0            |             | 68.5        | 55.4        |
| 65+                 | 49.9           | 65.8               |             | 38.3        | 53.7        | ^           | 57.1           | 60.3            |             | 70.0        | 54.5        |
| <b>White Female</b> | <b>44.7</b>    | <b>62.8</b>        |             | <b>32.4</b> | <b>52.0</b> | <b>9.9</b>  | <b>46.0</b>    | <b>55.9</b>     | <b>13.9</b> | <b>76.3</b> | <b>43.4</b> |
| 0-14                | 63.5           | ^                  |             | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| 15-39               | 40.1           | 72.4               |             | 45.5        | 56.9        | ^           | 35.3           | 54.7            | 10.2        | 47.7        | 33.3        |
| 40-64               | 44.3           | 71.2               |             | 36.3        | 56.0        | 10.8        | 47.7           | 59.3            | 14.2        | 75.2        | 44.2        |
| 65+                 | 45.1           | 59.5               |             | 27.8        | 50.4        | 9.8         | 45.4           | 54.6            | 14.6        | 80.0        | 52.5        |
| <b>Black Male</b>   | <b>39.0</b>    | <b>72.3</b>        | <b>11.4</b> |             | <b>53.1</b> | <b>14.6</b> | <b>58.6</b>    | <b>65.6</b>     |             |             |             |
| 0-14                | 49.2           | ^                  | ^           |             | ^           | ^           | ^              | ^               |             |             |             |
| 15-39               | 56.3           | ^                  | ^           |             | 52.0        | ^           | ^              | 67.7            |             |             |             |
| 40-64               | 40.3           | 77.0               | 13.0        |             | 57.5        | 23.9        | 66.2           | 68.5            |             |             |             |
| 65+                 | 35.7           | 68.2               | 9.9         |             | 48.6        | ^           | 48.2           | 61.9            |             |             |             |
| <b>White Male</b>   | <b>38.3</b>    | <b>65.4</b>        | <b>9.4</b>  |             | <b>51.2</b> | <b>8.4</b>  | <b>52.3</b>    | <b>56.2</b>     | <b>15.1</b> |             |             |
| 0-14                | 66.7           | ^                  | ^           |             | ^           | ^           | ^              | ^               | ^           |             |             |
| 15-39               | 44.2           | 53.3               | ^           |             | 65.3        | ^           | 47.2           | 52.3            | 16.3        |             |             |
| 40-64               | 40.6           | 74.1               | 11.8        |             | 56.3        | 12.2        | 60.0           | 59.9            | 15.7        |             |             |
| 65+                 | 36.6           | 62.0               | 8.2         |             | 48.2        | 7.5         | 44.2           | 54.4            | 14.7        |             |             |

(1) Advanced stage includes all regional and distant disease.

Source of data: Florida Cancer Data System

^ Statistics for cells with fewer than 10 advanced stage cases are not displayed.

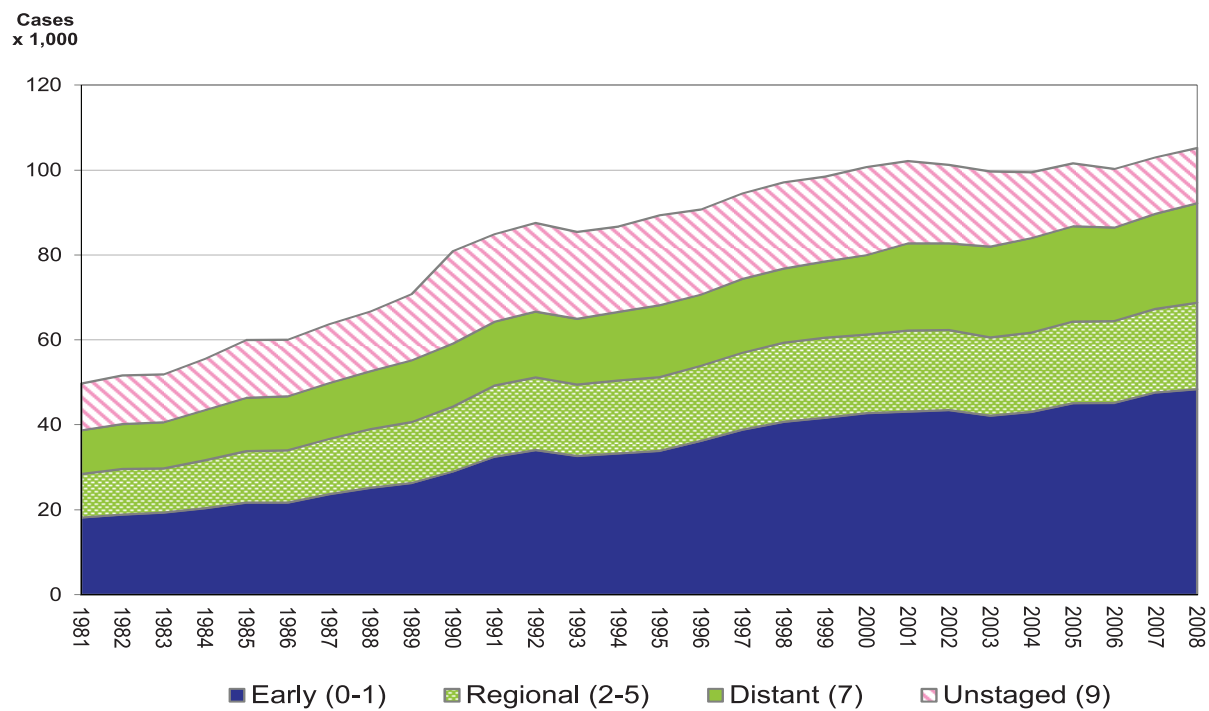
INCIDENCE



## Trends in Advanced Stage Cancer at Diagnosis

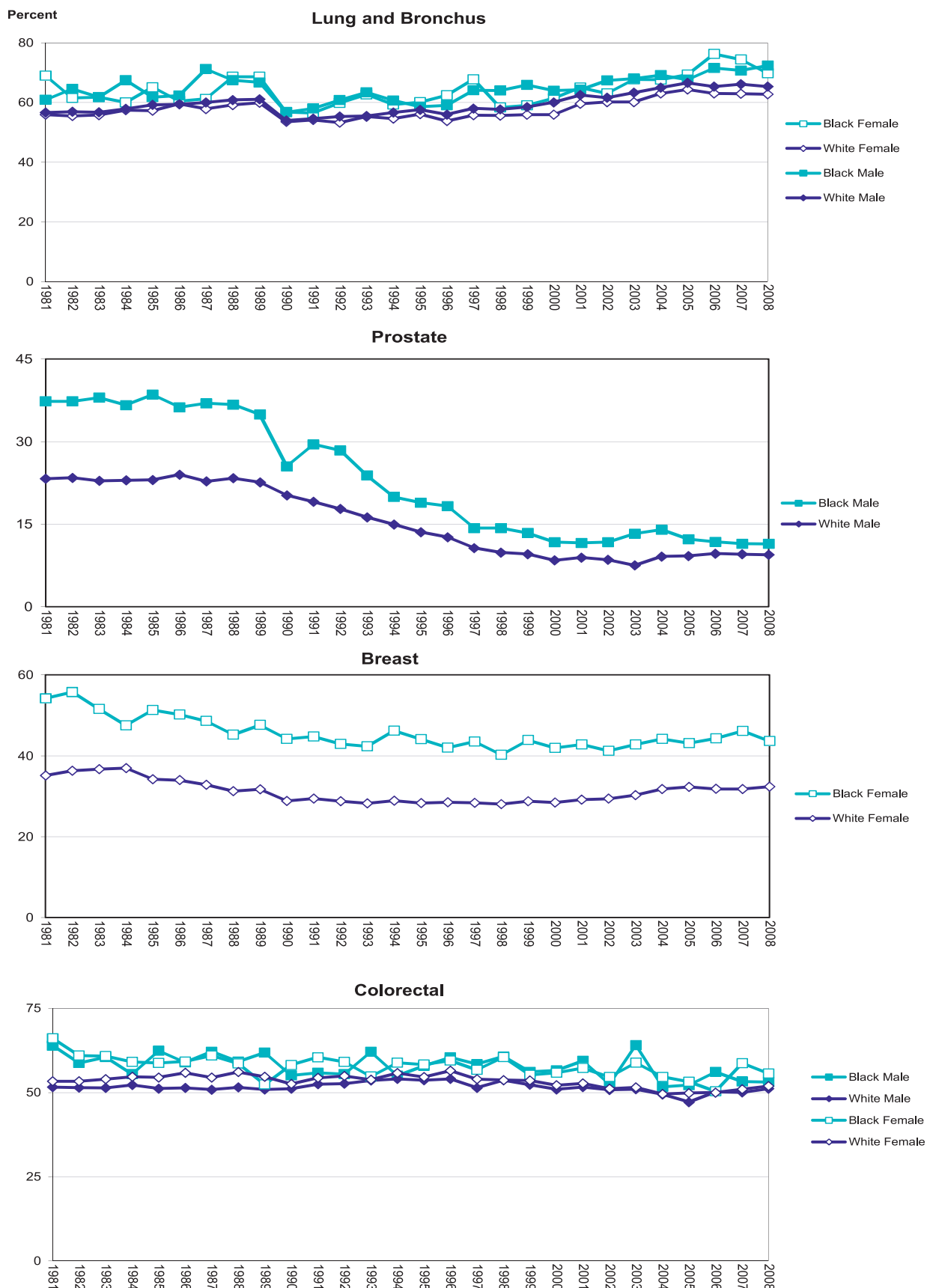
- The percentage of cancer diagnosed at early stage increased from 37% in 1981 to 46% in 2008.
- The percentage of advanced-stage cancer remained the same, and the percentage reported without stage information declined from 22% in 1981 to 12% in 2008.
- The percentage of cancer of the lung and bronchus diagnosed at advanced stage increased since 1981 among all sex-race groups except black females: 18% in black males, 14% in white males, and 13% in white females. Blacks of both sexes had higher percentages of advanced stage diagnoses than whites throughout the period.
- The percentage of prostate cancer diagnosed at advanced stage decreased by 70% among black males and by 61% among white males from 1981 to 2008. Black males had a higher percentage of advanced stage diagnoses than white males during the 28-year period.
- The percentage of breast cancer diagnosed at advanced stage decreased by 19% in black females and by 9% in white females from 1981 to 2008. Black females had higher percentages of advanced stage diagnoses than white females during the period.
- The percentage of colorectal cancer diagnosed at advanced stage declined since 1981 among blacks: 15% in females and 17% in males. Blacks had higher percentages of colorectal cancer diagnosed at advanced stage than whites in most of the past 28 years.
- The percentage of bladder cancer diagnosed at advanced stage declined 32% in black females and 48% in black males. In whites, the declines were 17% for females and 20% for males.
- The percentage of advanced stage head and neck cancer increased by 24% among white females and 49% among white males. The percentage increased 13% in black males, and unchanged in black females.
- The percentage of advanced stage non-Hodgkin lymphoma increased 14% for white females and 16% for white males. The percentage for blacks was higher than for whites for both sexes.
- The percentage of advanced stage melanoma increased 40% for white females and decreased 21% for white males.
- The percentage of advanced stage cervical cancer increased by 29% in black females and by 72% in white females over the past 28 years. Black females had higher percentages of advanced stage cervical cancer than white females.
- The percentage of ovarian cancer diagnosed at advanced stage increased by 17% for white females; there was no change for black females during the period.

**Figure 7. All Cancers by Stage, Florida, 1981-2008**

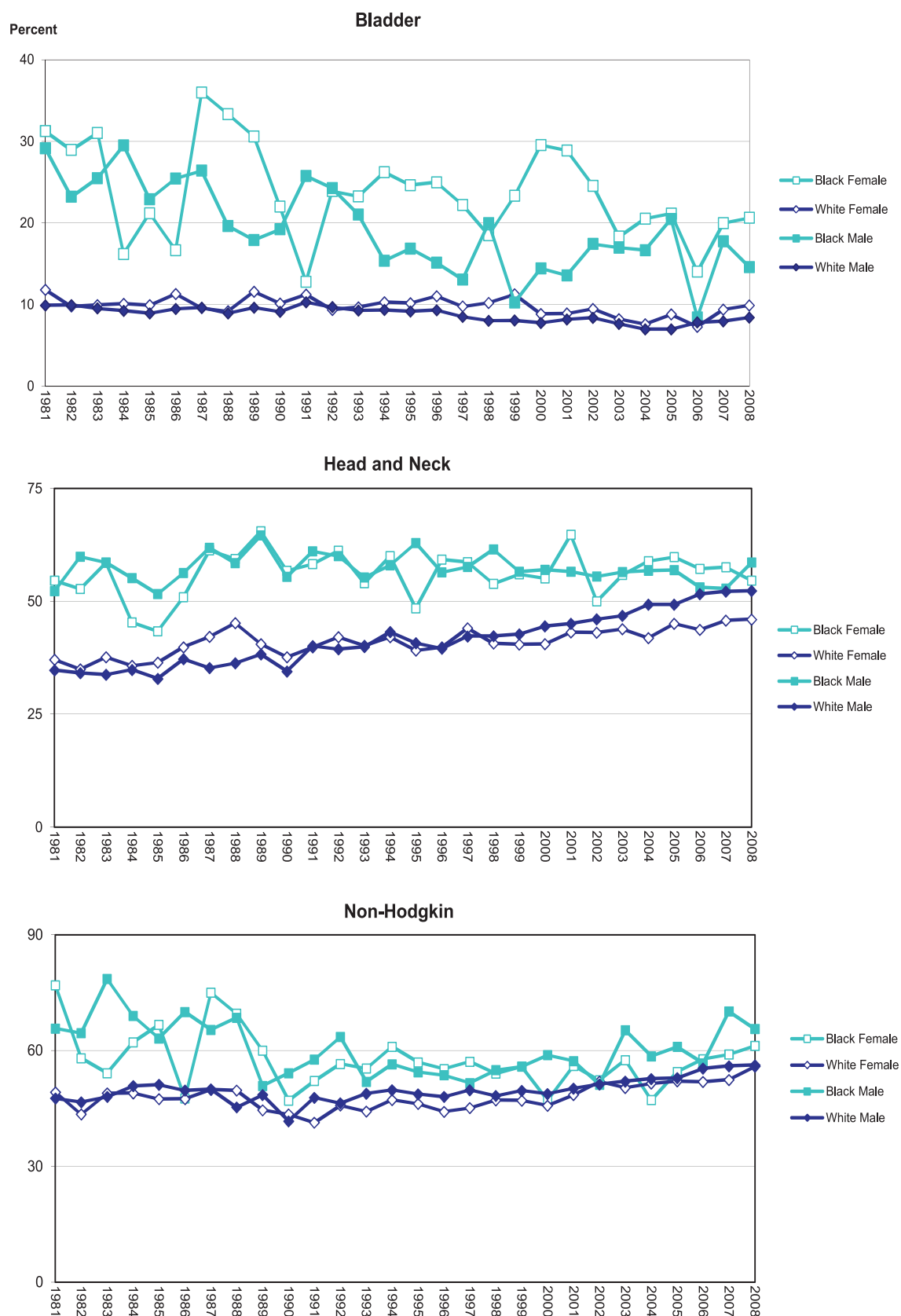


Source of data: Florida Cancer Data System

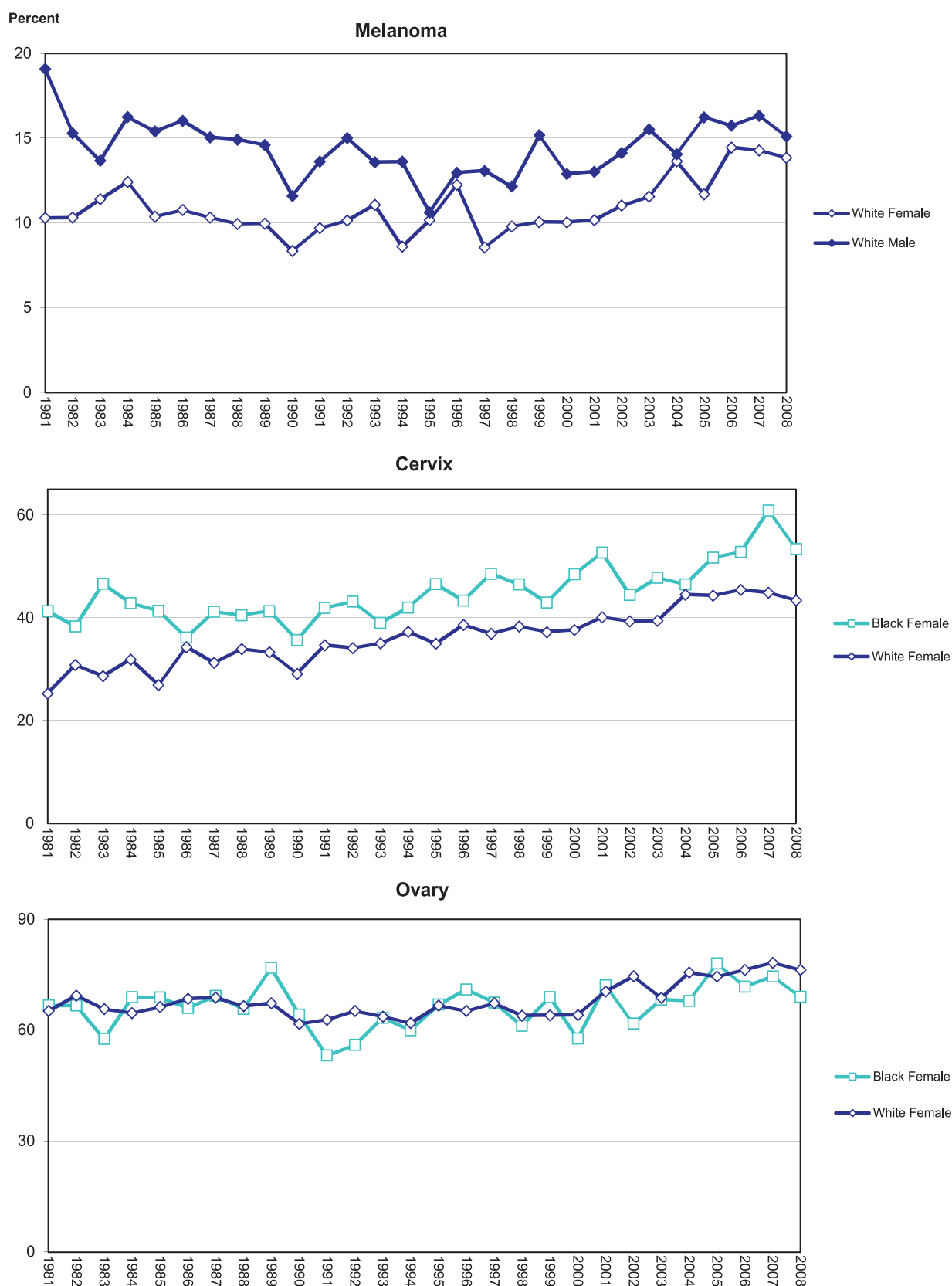
**Figure 8.1 Percentage of Advanced Stage Cancer at Diagnosis by Sex and Race, Florida, 1981-2008**



**Figure 8.2 Percentage of Advanced Stage Cancer at Diagnosis by Sex and Race, Florida, 1981-2008**



**Figure 8.3 Percentage of Advanced Stage Cancer at Diagnosis by Sex and Race, Florida, 1981-2008**



## CANCER SCREENING

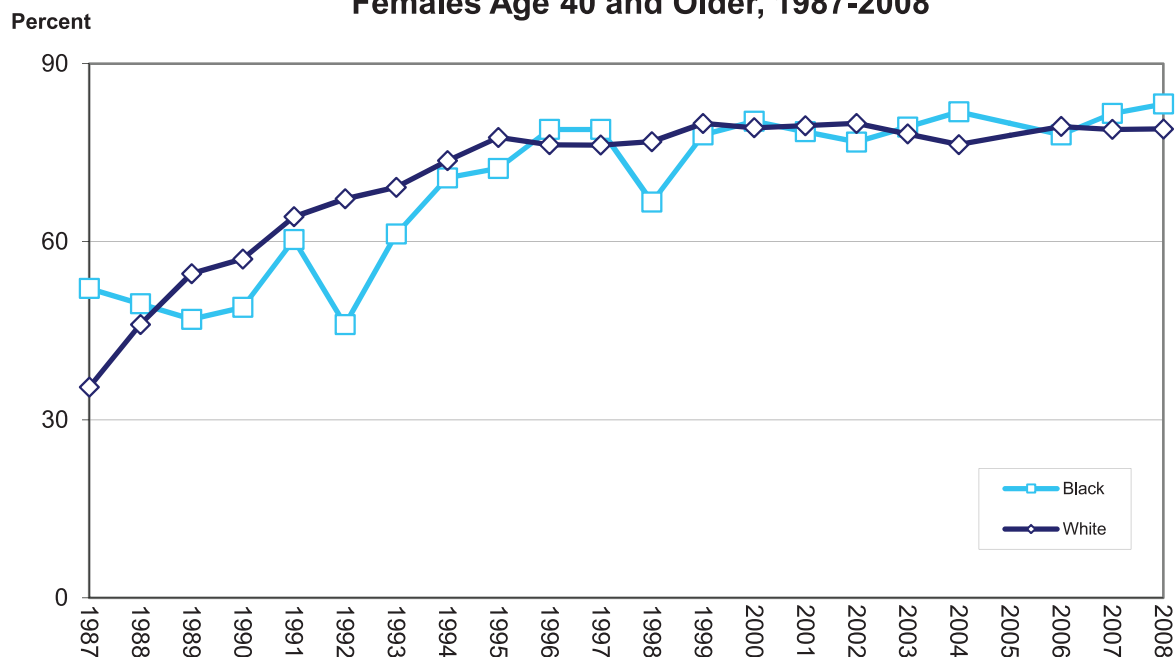
The Florida Behavioral Risk Factor Surveillance System (BRFSS) is an anonymous telephone survey of a sample of adults age 18 and older in households with telephones. Survey respondents are randomly selected to ensure that survey data will be representative of all adults in Florida. The Florida BRFSS survey follows a protocol developed by the CDC to ensure the quality of the survey and comparability of the data among states. For this report, cancer screening data for breast, cervical, prostate, and colorectal cancer from the 2008 Florida BRFSS were analyzed for current screening utilization patterns. In addition, cancer screening trends were analyzed utilizing available data from BRFSS in 1987-2008.

### BREAST CANCER

- In 2008, among females age 40 and older, 79% had a mammogram in the past two years.
- The prevalence of breast cancer screening was lower among females between 40 and 44 years of age, females with household income less than \$25,000, and females without health insurance compared to their counterparts.
- The prevalence of receiving a mammogram in the past two years doubled from 36% in 1987 to 79% in 2008 among white females, and increased from 52% to 83% among black females.
- Seventy-nine percent of females age 40 and older had a clinical breast exam in the past two years.

**Table 11. Prevalence of Breast Cancer Screening Among Females Age 40 and Older, Florida, 2008**

|                         | Mammogram   |            |      |      | Clinical Breast Exam |            |      |      |
|-------------------------|-------------|------------|------|------|----------------------|------------|------|------|
|                         | Sample Size | Prevalence | CI   |      | Sample Size          | Prevalence | CI   |      |
| <b>Florida</b>          | 5,401       | 79.3       | 77.5 | 81.1 | 5,320                | 78.5       | 76.7 | 80.3 |
| Black                   | 419         | 83.2       | 77.0 | 89.4 | 417                  | 80.2       | 73.7 | 86.7 |
| White                   | 4,656       | 79.0       | 77.1 | 80.9 | 4,585                | 78.8       | 76.9 | 80.7 |
| <b>Age</b>              |             |            |      |      |                      |            |      |      |
| 40-44                   | 445         | 66.4       | 60.0 | 73.0 | 439                  | 86.5       | 81.8 | 91.2 |
| 45-64                   | 2,664       | 79.7       | 77.2 | 82.3 | 2,564                | 80.2       | 77.5 | 82.8 |
| 65+                     | 2,292       | 84.0       | 81.7 | 86.2 | 2,227                | 72.8       | 69.9 | 75.8 |
| <b>Education</b>        |             |            |      |      |                      |            |      |      |
| < High School           | 612         | 77.0       | 70.0 | 84.0 | 595                  | 71.2       | 63.9 | 78.5 |
| HS Graduate/GED         | 1,892       | 77.1       | 74.0 | 80.3 | 1,860                | 74.4       | 71.0 | 77.8 |
| > High School           | 2,890       | 80.8       | 78.6 | 83.1 | 2,858                | 81.8       | 79.6 | 84.1 |
| <b>Household Income</b> |             |            |      |      |                      |            |      |      |
| <\$25,000               | 1,832       | 73.0       | 69.4 | 76.6 | 1,796                | 69.9       | 66.1 | 73.6 |
| \$25,000-\$49,999       | 1,391       | 77.1       | 73.3 | 81.0 | 1,379                | 75.0       | 70.8 | 79.1 |
| \$50,000-\$74,999       | 668         | 85.7       | 81.9 | 89.5 | 663                  | 86.1       | 82.1 | 90.1 |
| \$75,000+               | 836         | 85.2       | 81.5 | 88.8 | 833                  | 90.2       | 87.4 | 93.0 |
| <b>Health Insurance</b> |             |            |      |      |                      |            |      |      |
| Yes                     | 4,800       | 82.9       | 81.1 | 84.6 | 4,723                | 81.3       | 80.0 | 83.0 |
| No                      | 595         | 53.3       | 45.9 | 60.7 | 592                  | 58.0       | 50.6 | 65.4 |

**Figure 9. Prevalence of Mammogram Among Females Age 40 and Older, 1987-2008**

## CERVICAL CANCER

- In 2008, 93% of females age 18 and older in Florida have ever had a Papanicolaou (Pap) smear test.
- The prevalence was lower among females without health insurance.
- From 1991 to 2008, the prevalence of ever having a Pap smear test was 90% or more among both black and white females.

**Table 12. Prevalence of Pap Smear Test Among  
Females Age 18 and Older (1), Florida, 2008**

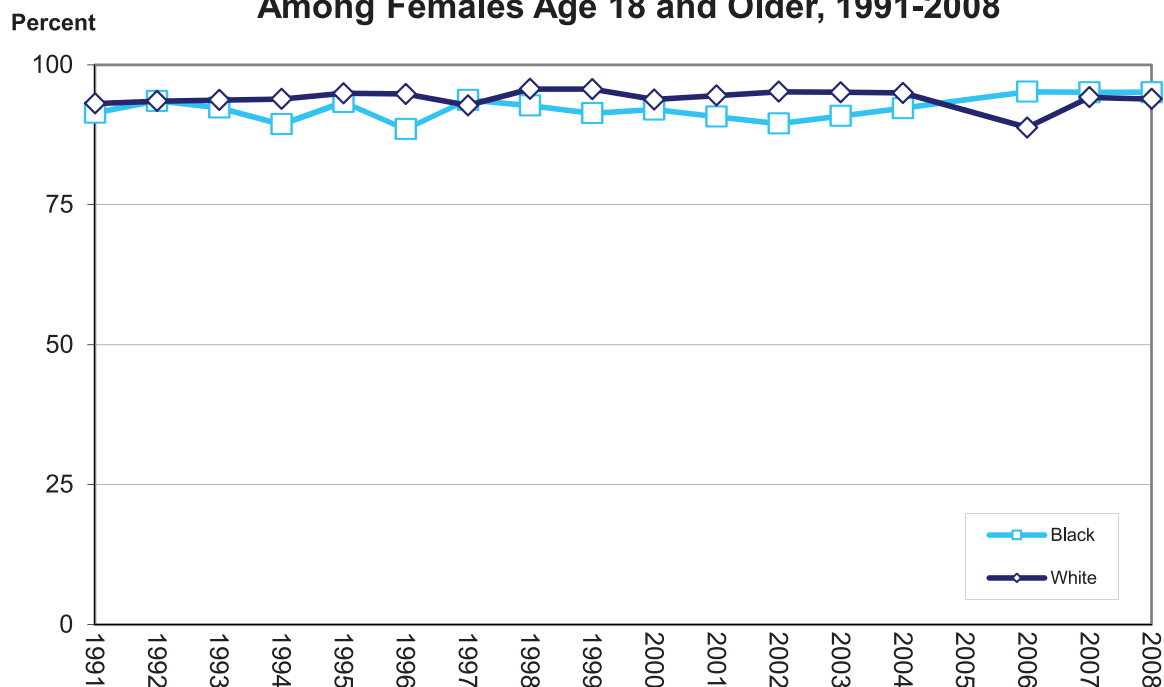
|                         | Sample Size | Prevalence | CI   |       |
|-------------------------|-------------|------------|------|-------|
| <b>Florida</b>          | 4,284       | 92.8       | 90.8 | 94.8  |
| Black                   | 369         | 95.1       | 91.8 | 98.4  |
| White                   | 3,574       | 93.9       | 91.8 | 95.9  |
| <b>Age</b>              |             |            |      |       |
| 18-44                   | 1,418       | 91.0       | 87.5 | 94.5  |
| 45-64                   | 1,690       | 97.1       | 95.6 | 98.5  |
| 65+                     | 1,132       | 91.6       | 88.7 | 94.4  |
| <b>Education</b>        |             |            |      |       |
| < High School           | 445         | 85.1       | 75.0 | 95.2  |
| HS Graduate/GED         | 1,349       | 91.7       | 88.0 | 95.4  |
| > High School           | 2,483       | 94.3       | 92.1 | 96.6  |
| <b>Household Income</b> |             |            |      |       |
| <\$25,000               | 1,313       | 89.0       | 84.7 | 93.4  |
| \$25,000-\$49,999       | 1,127       | 94.6       | 91.7 | 97.5  |
| \$50,000-\$74,999       | 561         | 97.3       | 94.3 | 100.0 |
| \$75,000+               | 786         | 91.2       | 95.1 | 99.3  |
| <b>Health Insurance</b> |             |            |      |       |
| Yes                     | 3,600       | 94.0       | 92.0 | 96.0  |
| No                      | 676         | 86.9       | 80.8 | 92.9  |

(1) Excluding women who had hysterectomies.

Source of data: Florida BRFSS



**Figure 10. Prevalence of Pap Smear Test  
Among Females Age 18 and Older, 1991-2008**



## PROSTATE CANCER

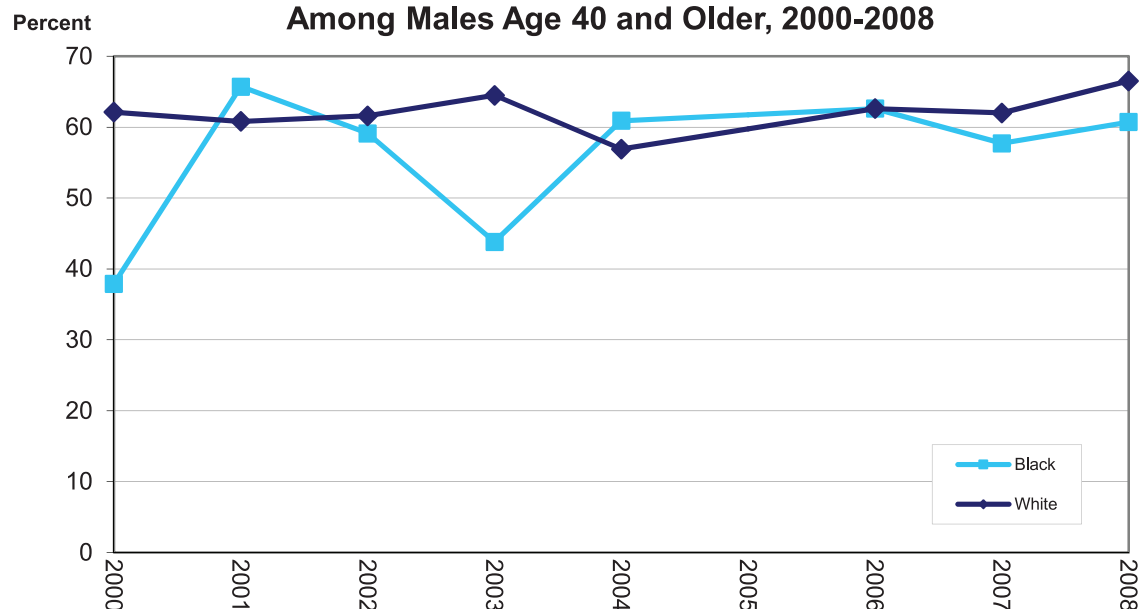
- The prevalence of both PSA testing and digital rectal exam was lower among males between 40 and 44 years of age and males who had no health insurance than among their counterparts.
- From 2000 to 2008, the prevalence of PSA testing increased from 62% to 67% among the white males, and from 38% to 61% among black males.
- From 2000 to 2008, the prevalence of having a digital rectal exam increased from 54% to 60% among white males and from 40% to 58% among black males.

**Table 13. Prevalence of Prostate Screening Among  
Males Age 40 and Older, Florida, 2008**

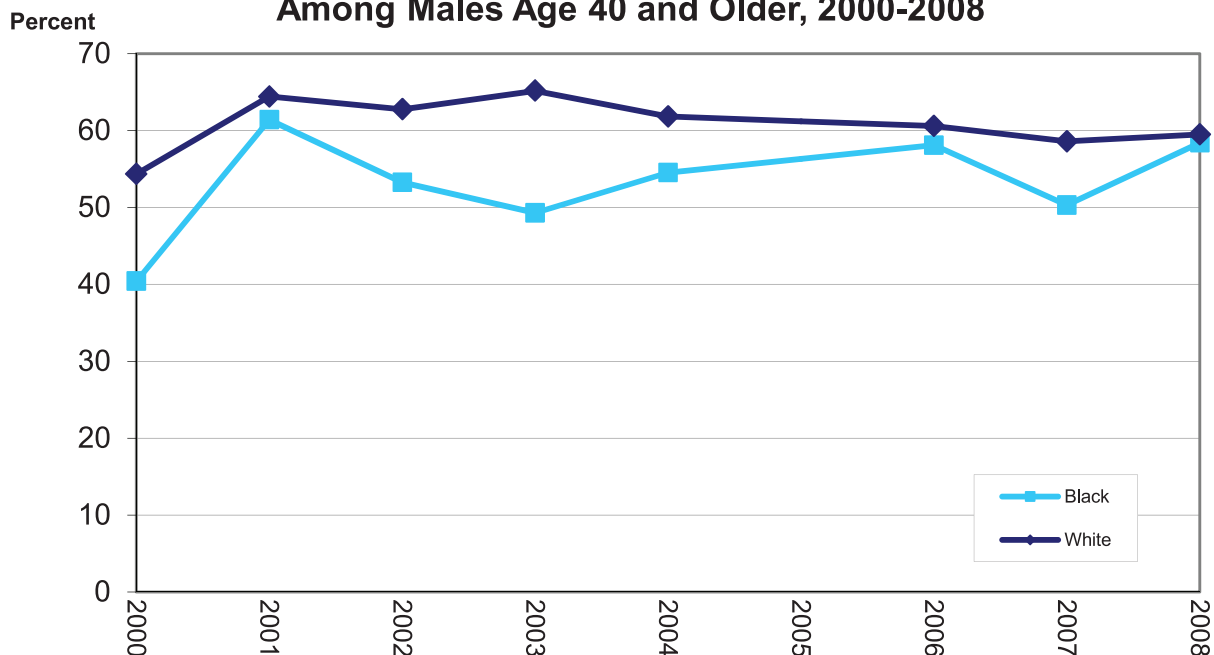
|                         | <u>Prostate Specific Antigen Test</u> |            |      |      | <u>Digital Rectal Exam</u> |            |      |      |
|-------------------------|---------------------------------------|------------|------|------|----------------------------|------------|------|------|
|                         | Sample<br>Size                        | Prevalence | CI   |      | Sample<br>Size             | Prevalence | CI   |      |
| <b>Florida</b>          | 3,019                                 | 64.1       | 61.0 | 67.2 | 3,093                      | 57.1       | 54.0 | 60.1 |
| Black                   | 173                                   | 60.7       | 48.8 | 72.7 | 177                        | 58.4       | 46.4 | 70.5 |
| White                   | 2,625                                 | 66.5       | 63.3 | 69.7 | 2,691                      | 59.5       | 56.3 | 62.6 |
| <b>Age</b>              |                                       |            |      |      |                            |            |      |      |
| 40-44                   | 256                                   | 20.5       | 13.4 | 27.7 | 261                        | 27.8       | 19.5 | 36.2 |
| 45-64                   | 1,464                                 | 64.0       | 59.7 | 68.4 | 1,514                      | 54.5       | 50.1 | 58.9 |
| 65+                     | 1,299                                 | 85.3       | 82.2 | 88.4 | 1,318                      | 75.7       | 72.2 | 79.2 |
| <b>Education</b>        |                                       |            |      |      |                            |            |      |      |
| < High School           | 319                                   | 47.8       | 36.1 | 59.4 | 332                        | 43.7       | 32.6 | 54.8 |
| HS Graduate/GED         | 875                                   | 63.0       | 57.6 | 68.5 | 893                        | 54.8       | 49.2 | 60.5 |
| > High School           | 1,816                                 | 66.6       | 62.7 | 70.4 | 1,860                      | 59.5       | 55.7 | 63.3 |
| <b>Household Income</b> |                                       |            |      |      |                            |            |      |      |
| <\$25,000               | 738                                   | 56.7       | 49.8 | 63.7 | 770                        | 43.0       | 36.3 | 49.7 |
| \$25,000-\$49,999       | 814                                   | 63.1       | 57.3 | 69.1 | 829                        | 57.5       | 51.7 | 63.4 |
| \$50,000-\$74,999       | 467                                   | 62.3       | 54.2 | 70.4 | 477                        | 60.0       | 52.2 | 67.9 |
| \$75,000+               | 735                                   | 72.8       | 67.5 | 78.1 | 753                        | 65.0       | 59.4 | 70.7 |
| <b>Health Insurance</b> |                                       |            |      |      |                            |            |      |      |
| Yes                     | 2,670                                 | 67.4       | 64.2 | 70.6 | 2,732                      | 60.2       | 56.9 | 63.4 |
| No                      | 346                                   | 36.5       | 27.0 | 46.0 | 358                        | 30.9       | 22.0 | 39.8 |

Source of data: Florida BRFSS

**Figure 11.1 Prevalence of PSA Test  
Among Males Age 40 and Older, 2000-2008**



**Figure 11.2 Prevalence of Digital Rectal Exam  
Among Males Age 40 and Older, 2000-2008**



## COLORECTAL CANCER

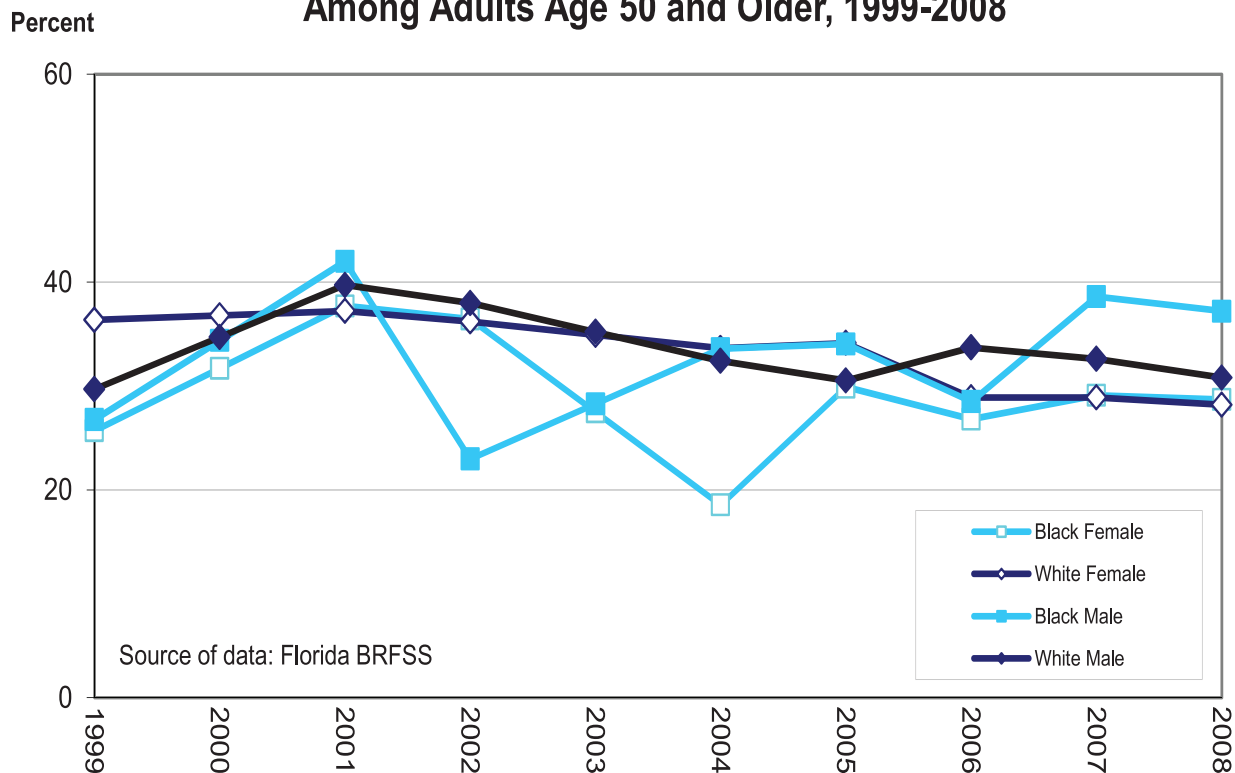
- In 2008, 29% of Floridians age 50 and older had a blood stool test within the past two years; 56% had a sigmoidoscopy exam within the past five years.
- The prevalence of both colorectal screening tests was lower among adults between 50 and 64 years of age and adults who did not have health insurance compared to their counterparts.
- From 1999 to 2008, the prevalence of blood stool testing decreased from 36% to 28% among white females.
- From 1999 to 2008, the prevalence of sigmoidoscopy increased from 47% to 60% among white males and from 44% to 55% among white females. The prevalence among black males increased from 43% to 51% and from 42% to 55% among black females.

**Table 14. Prevalence of Colorectal Screening Among Adults Age 50 and Older, Florida, 2008**

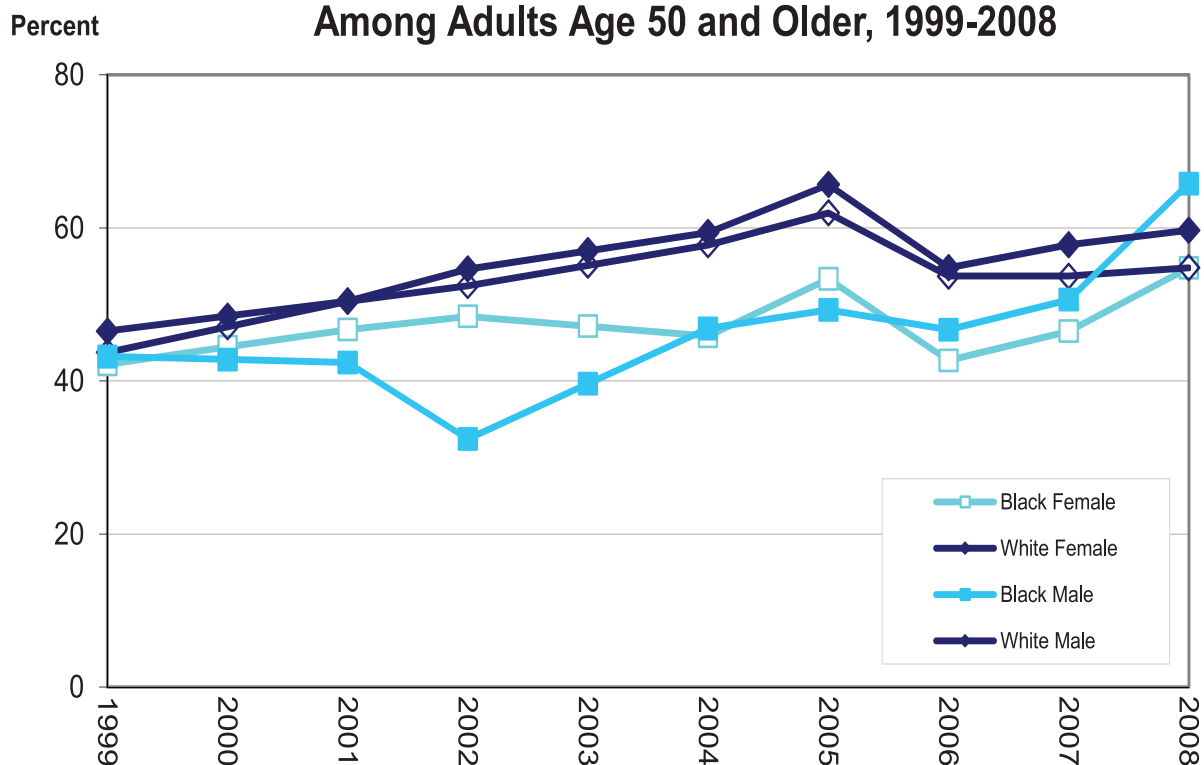
|                         | Blood Stool Test within 2 Years |            |      |      | Sigmoidoscopy Exam within 5 years |            |      |      |
|-------------------------|---------------------------------|------------|------|------|-----------------------------------|------------|------|------|
|                         | Sample Size                     | Prevalence | CI   |      | Sample Size                       | Prevalence | CI   |      |
| <b>Florida</b>          | 6,817                           | 29.0       | 27.1 | 30.8 | 6,880                             | 56.2       | 54.2 | 58.2 |
| <b>Sex</b>              |                                 |            |      |      |                                   |            |      |      |
| Female                  | 2,528                           | 31.3       | 28.2 | 34.4 | 2,531                             | 59.1       | 55.8 | 62.4 |
| Male                    | 4,289                           | 27.0       | 24.8 | 29.1 | 4,349                             | 53.8       | 51.3 | 56.3 |
| <b>Race</b>             |                                 |            |      |      |                                   |            |      |      |
| Black                   | 431                             | 32.1       | 24.0 | 40.2 | 430                               | 54.8       | 46.3 | 63.2 |
| White                   | 5,988                           | 29.4       | 27.6 | 31.2 | 6,047                             | 57.1       | 55.0 | 59.2 |
| Black Female            | 308                             | 28.7       | 20.1 | 37.3 | 310                               | 47.8       | 38.5 | 57.2 |
| White Female            | 3,758                           | 28.2       | 26.0 | 30.4 | 3,810                             | 54.8       | 52.3 | 57.4 |
| Black Male              | 123                             | 37.2       | 21.6 | 52.7 | 120                               | 65.8       | 51.2 | 80.3 |
| White Male              | 2,230                           | 30.8       | 27.8 | 33.8 | 2,237                             | 59.7       | 56.3 | 63.1 |
| <b>Age</b>              |                                 |            |      |      |                                   |            |      |      |
| 50-64                   | 3,255                           | 24.1       | 21.4 | 26.7 | 3,283                             | 50.0       | 46.9 | 53.1 |
| 65+                     | 3,562                           | 34.6       | 32.1 | 37.0 | 3,597                             | 63.3       | 60.8 | 65.8 |
| <b>Education</b>        |                                 |            |      |      |                                   |            |      |      |
| < High School           | 800                             | 22.4       | 17.3 | 27.6 | 808                               | 47.7       | 40.6 | 54.7 |
| HS Graduate/GED         | 2,260                           | 28.4       | 25.4 | 31.5 | 2,279                             | 52.2       | 48.7 | 55.8 |
| > High School           | 3,744                           | 30.2       | 27.8 | 32.7 | 3,780                             | 59.4       | 56.8 | 62.0 |
| <b>Household Income</b> |                                 |            |      |      |                                   |            |      |      |
| <\$25,000               | 2,203                           | 25.1       | 22.0 | 28.3 | 2,213                             | 46.6       | 42.8 | 50.4 |
| \$25,000-\$49,999       | 1,792                           | 32.5       | 28.8 | 36.2 | 1,804                             | 56.7       | 52.8 | 60.7 |
| \$50,000-\$74,999       | 876                             | 28.6       | 23.1 | 34.0 | 880                               | 60.0       | 54.4 | 65.8 |
| >\$75,000               | 1,128                           | 29.9       | 25.8 | 33.9 | 1,143                             | 63.8       | 59.5 | 68.2 |
| <b>Health Insurance</b> |                                 |            |      |      |                                   |            |      |      |
| Yes                     | 6,179                           | 30.1       | 28.2 | 32.1 | 6,243                             | 59.5       | 57.5 | 61.6 |
| No                      | 627                             | 18.1       | 12.2 | 23.9 | 627                               | 25.5       | 19.5 | 31.4 |

Source of data: Florida BRFSS

**Figure 12.1 Prevalence of Blood Stool Test  
Among Adults Age 50 and Older, 1999-2008**



**Figure 12.2 Prevalence of Sigmoidoscopy Exam  
Among Adults Age 50 and Older, 1999-2008**



# CANCER MORTALITY

## DEATHS

## MORTALITY

- In 2008, 40,621 Floridians died from cancer, 839 more than in 2007.
- Males accounted for 54% and females 46% of cancer deaths.
- Cancer of the lung and bronchus accounted for 29% of all cancer deaths in Florida, 28% in females, and 30% in males.
- Seventy-two percent of cancer deaths were in the 65-and-older age group.
- More than two-thirds (68%) of cervical cancer deaths in white females and 64% in black females occurred before age 65.
- Although 89% of cancer deaths occurred in whites, a greater percentage of blacks died from cancer at younger ages than whites. The percentage of cancer deaths in Floridians under age 65 was 45% among blacks and 26% among whites.
- Deaths from cancers for which screening is available (colorectal, breast, cervical, and prostate cancers) accounted for 30% of all cancer deaths in blacks and 21% in whites.

**Table 15. Number of Cancer Deaths by Sex and Race, Florida, 2008**

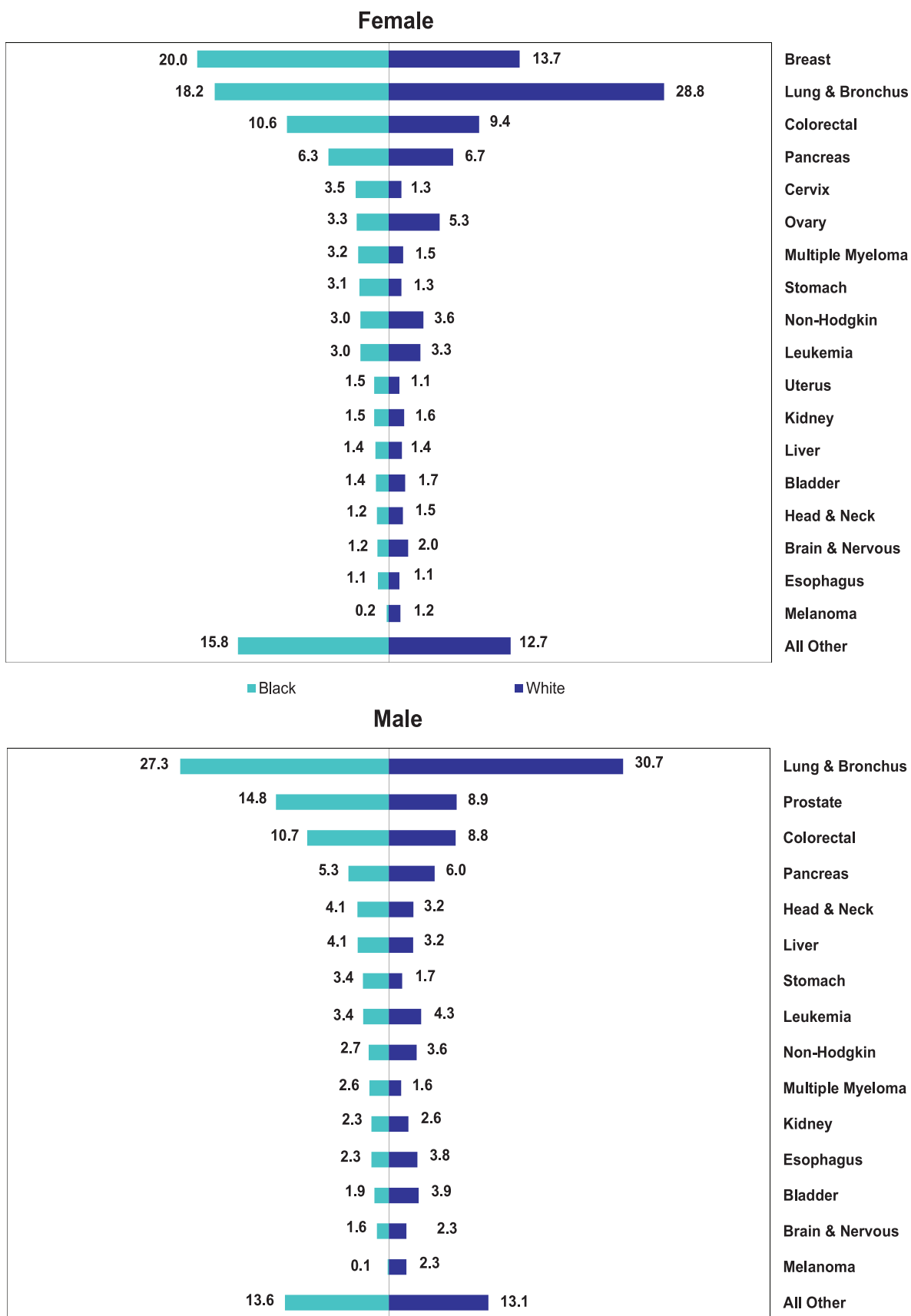
|                    | All<br>Cancers | Lung &<br>Bronchus | Prostate     | Breast       | Colorectal   | Bladder      | Head &<br>Neck | Non-<br>Hodgkin | Melanoma   | Ovary      | Cervix     |
|--------------------|----------------|--------------------|--------------|--------------|--------------|--------------|----------------|-----------------|------------|------------|------------|
| <b>Florida (1)</b> | <b>40,621</b>  | <b>11,800</b>      | <b>2,082</b> | <b>2,666</b> | <b>3,753</b> | <b>1,124</b> | <b>1,001</b>   | <b>1,497</b>    | <b>657</b> | <b>962</b> | <b>296</b> |
| Female             | 18,612         | 5,132              | 0            | 2,666        | 1,782        | 309          | 271            | 668             | 203        | 962        | 296        |
| Male               | 22,006         | 6,668              | 2,082        | 0            | 1,971        | 815          | 730            | 828             | 454        |            |            |
| Black              | 3,970          | 915                | 313          | 371          | 423          | 65           | 110            | 134             |            | 62         | 64         |
| White              | 36,078         | 10,758             | 1,747        | 2,248        | 3,272        | 1,047        | 879            | 1,339           | 657        | 877        | 218        |
| Black Female       | 1,855          | 337                |              | 371          | 197          | 25           | 23             | 60              |            | 62         | 64         |
| White Female       | 16,450         | 4,733              |              | 2,248        | 1,553        | 281          | 244            | 598             | 203        | 877        | 218        |
| Black Male         | 2,115          | 578                | 313          |              | 226          | 40           | 87             | 74              |            |            |            |
| White Male         | 19,625         | 6,025              | 1,747        |              | 1,719        | 766          | 635            | 740             | 454        |            |            |

Source of data: Office of Vital Statistics

(1) Florida total counts include 462 deaths of persons of "Other" races and 111 deaths with unknown race; three deaths were recorded with unknown sex.

Totals by sex include deaths with unknown and other races; totals by race include deaths with unknown sex and age.

**Figure 13. Percentage of Cancer Deaths by Sex, Race, and Site, Florida, 2008**



Source of data: Office of Vital Statistics

Table 16. Number of Cancer Deaths by County, Florida, 2008

|              | All<br>Cancers | Lung &<br>Bronchus | Prostate | Breast | Colorectal | Bladder | Head &<br>Neck | Non-<br>Hodgkin | Melanoma | Ovary | Cervix |
|--------------|----------------|--------------------|----------|--------|------------|---------|----------------|-----------------|----------|-------|--------|
| Florida      | 40,621         | 11,800             | 2,082    | 2,666  | 3,753      | 1,124   | 1,001          | 1,497           | 657      | 962   | 296    |
| Alachua      | 394            | 109                | 14       | 31     | 44         | ^       | 19             | 12              | ^        | ^     | ^      |
| Baker        | 60             | 16                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Bay          | 380            | 149                | 19       | 17     | 20         | ^       | ^              | 13              | ^        | ^     | ^      |
| Bradford     | 65             | 20                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Brevard      | 1,518          | 466                | 70       | 98     | 123        | 45      | 38             | 52              | 21       | 39    | 10     |
| Broward      | 3,362          | 900                | 143      | 244    | 311        | 98      | 80             | 131             | 66       | 74    | 38     |
| Calhoun      | 32             | 16                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Charlotte    | 576            | 192                | 30       | 36     | 40         | 21      | ^              | 22              | ^        | ^     | ^      |
| Citrus       | 593            | 185                | 30       | 38     | 73         | 21      | 16             | 15              | ^        | 17    | ^      |
| Clay         | 358            | 115                | 15       | 15     | 35         | 10      | ^              | 13              | 10       | ^     | ^      |
| Collier      | 737            | 193                | 57       | 33     | 67         | 15      | 10             | 24              | 23       | 23    | ^      |
| Columbia     | 173            | 50                 | ^        | ^      | 12         | ^       | ^              | ^               | ^        | ^     | ^      |
| Miami-Dade   | 3,945          | 881                | 234      | 288    | 460        | 125     | 91             | 139             | 29       | 110   | 40     |
| Desoto       | 67             | 18                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Dixie        | 51             | 20                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Duval        | 1,644          | 511                | 71       | 119    | 142        | 36      | 32             | 78              | 24       | 35    | 15     |
| Escambia     | 673            | 213                | 34       | 36     | 49         | 18      | 23             | 23              | 12       | 18    | ^      |
| Flagler      | 271            | 78                 | 15       | 13     | 28         | ^       | ^              | 11              | ^        | ^     | ^      |
| Franklin     | 26             | 11                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Gadsden      | 113            | 36                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Gilchrist    | 27             | ^                  | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Glades       | 24             | 11                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Gulf         | 46             | 17                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Hamilton     | 36             | 10                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Hardee       | 51             | 12                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Hendry       | 54             | 13                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Hernando     | 610            | 212                | 33       | 33     | 51         | 16      | 11             | 22              | ^        | 10    | ^      |
| Highlands    | 292            | 96                 | 24       | 11     | 20         | ^       | ^              | 12              | ^        | ^     | ^      |
| Hillsborough | 2,075          | 586                | 99       | 161    | 205        | 47      | 59             | 78              | 28       | 55    | 18     |
| Holmes       | 48             | 20                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Indian River | 462            | 129                | 23       | 33     | 47         | 12      | 11             | 20              | 13       | 12    | ^      |
| Jackson      | 125            | 37                 | ^        | 11     | 13         | ^       | ^              | ^               | ^        | ^     | ^      |
| Jefferson    | 33             | 11                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Lafayette    | 22             | ^                  | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Lake         | 812            | 254                | 29       | 48     | 85         | 23      | 16             | 27              | 16       | 18    | ^      |
| Lee          | 1,432          | 421                | 74       | 84     | 97         | 34      | 26             | 44              | 31       | 34    | ^      |
| Leon         | 361            | 91                 | 23       | 33     | 30         | 13      | ^              | 16              | ^        | ^     | ^      |
| Levy         | 133            | 43                 | ^        | ^      | 10         | ^       | ^              | ^               | ^        | ^     | ^      |
| Liberty      | 11             | ^                  | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Madison      | 52             | 12                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Manatee      | 785            | 247                | 45       | 37     | 76         | 22      | 23             | 30              | 20       | 21    | 10     |
| Marion       | 1,069          | 372                | 60       | 55     | 93         | 27      | 26             | 33              | 15       | 18    | ^      |
| Martin       | 459            | 154                | 22       | 30     | 41         | 15      | ^              | 13              | 10       | ^     | ^      |
| Monroe       | 150            | 38                 | ^        | ^      | 15         | ^       | ^              | ^               | ^        | ^     | ^      |
| Nassau       | 156            | 51                 | ^        | 10     | 19         | ^       | ^              | ^               | ^        | ^     | ^      |
| Okaloosa     | 323            | 110                | 18       | 26     | 24         | ^       | 11             | ^               | ^        | ^     | ^      |
| Okeechobee   | 93             | 39                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Orange       | 1,584          | 422                | 93       | 132    | 158        | 19      | 42             | 54              | 30       | 42    | 10     |
| Osceola      | 344            | 89                 | 14       | 29     | 43         | 10      | ^              | 12              | ^        | 11    | ^      |
| Palm Beach   | 3,132          | 810                | 163      | 221    | 285        | 101     | 71             | 142             | 47       | 79    | 19     |
| Pasco        | 1,303          | 437                | 51       | 47     | 117        | 41      | 33             | 42              | 25       | 26    | ^      |
| Pinellas     | 2,474          | 727                | 126      | 147    | 213        | 77      | 61             | 92              | 34       | 70    | 12     |
| Polk         | 1,308          | 448                | 76       | 72     | 112        | 43      | 26             | 39              | 30       | 22    | 10     |
| Putnam       | 212            | 75                 | ^        | 11     | 15         | ^       | ^              | ^               | ^        | ^     | ^      |
| Saint Johns  | 393            | 116                | 20       | 25     | 35         | ^       | 11             | 19              | ^        | 14    | ^      |
| Saint Lucie  | 630            | 186                | 31       | 40     | 65         | 17      | 17             | 29              | 14       | ^     | ^      |
| Santa Rosa   | 301            | 92                 | 15       | 28     | 32         | ^       | ^              | ^               | 10       | ^     | ^      |
| Sarasota     | 1,235          | 340                | 65       | 85     | 108        | 41      | 29             | 65              | 21       | 27    | ^      |
| Seminole     | 686            | 162                | 47       | 52     | 57         | 16      | 14             | 24              | 11       | 17    | ^      |
| Sumter       | 307            | 95                 | 12       | 24     | 33         | ^       | 10             | 11              | ^        | 11    | ^      |
| Suwannee     | 148            | 35                 | ^        | 15     | 19         | ^       | ^              | ^               | ^        | ^     | ^      |
| Taylor       | 52             | 18                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Union        | 73             | 27                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Volusia      | 1,401          | 451                | 84       | 93     | 121        | 40      | 39             | 45              | 12       | 33    | ^      |
| Wakulla      | 57             | 20                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |
| Walton       | 131            | 41                 | 10       | 10     | 13         | ^       | ^              | ^               | ^        | ^     | ^      |
| Washington   | 71             | 27                 | ^        | ^      | ^          | ^       | ^              | ^               | ^        | ^     | ^      |

^ Statistics for cells with fewer than 10 deaths are not displayed.

Source of data: Office of Vital Statistics

MORTALITY



Table 17. Number of Cancer Deaths by Sex, Race, and Age Group, Florida, 2008

|                     | All<br>Cancers | Lung &<br>Bronchus | Prostate     | Breast       | Colorectal   | Bladder      | Head &<br>Neck | Non-<br>Hodgkin | Melanoma   | Ovary      | Cervix     |
|---------------------|----------------|--------------------|--------------|--------------|--------------|--------------|----------------|-----------------|------------|------------|------------|
| <b>Florida</b>      | <b>40,621</b>  | <b>11,800</b>      | <b>2,082</b> | <b>2,666</b> | <b>3,753</b> | <b>1,124</b> | <b>1,001</b>   | <b>1,497</b>    | <b>657</b> | <b>962</b> | <b>296</b> |
| 0-14                | 70             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^          | ^          |
| 15-39               | 611            | 34                 | ^            | 75           | 52           | ^            | 10             | 50              | 23         | 18         | 34         |
| 40-64               | 10,772         | 3,115              | 185          | 978          | 961          | 171          | 393            | 325             | 206        | 325        | 168        |
| 65+                 | 29,168         | 8,651              | 1,897        | 1,613        | 2,740        | 951          | 598            | 1,121           | 428        | 619        | 94         |
| <b>Female</b>       | <b>18,612</b>  | <b>5,132</b>       |              | <b>2,666</b> | <b>1,782</b> | <b>309</b>   | <b>271</b>     | <b>668</b>      | <b>203</b> | <b>962</b> | <b>296</b> |
| 0-14                | 31             | ^                  |              | ^            | ^            | ^            | ^              | ^               | ^          | ^          | ^          |
| 15-39               | 315            | 16                 |              | 75           | 26           | ^            | ^              | 17              | 10         | 18         | 34         |
| 40-64               | 4,862          | 1,258              |              | 978          | 405          | 44           | 80             | 107             | 62         | 325        | 168        |
| 65+                 | 13,404         | 3,858              |              | 1,613        | 1,351        | 265          | 188            | 544             | 131        | 619        | 94         |
| <b>Male</b>         | <b>22,006</b>  | <b>6,668</b>       | <b>2,082</b> |              | <b>1,971</b> | <b>815</b>   | <b>730</b>     | <b>828</b>      | <b>454</b> |            |            |
| 0-14                | 39             | ^                  | ^            |              | ^            | ^            | ^              | ^               | ^          |            |            |
| 15-39               | 296            | 18                 | ^            |              | 26           | ^            | ^              | 33              | 13         |            |            |
| 40-64               | 5,909          | 1,857              | 185          |              | 556          | 127          | 313            | 218             | 144        |            |            |
| 65+                 | 15,762         | 4,793              | 1,897        |              | 1,389        | 686          | 410            | 576             | 297        |            |            |
| <b>Black</b>        | <b>3,970</b>   | <b>915</b>         | <b>313</b>   | <b>371</b>   | <b>423</b>   | <b>65</b>    | <b>110</b>     | <b>134</b>      |            | <b>62</b>  | <b>64</b>  |
| 0-14                | 18             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               |            | ^          | ^          |
| 15-39               | 138            | ^                  | ^            | 22           | 13           | ^            | ^              | 14              |            | ^          | ^          |
| 40-64               | 1,637          | 376                | 45           | 189          | 180          | 21           | 60             | 70              |            | 31         | 33         |
| 65+                 | 2,177          | 532                | 268          | 160          | 230          | 44           | 49             | 50              |            | 29         | 23         |
| <b>White</b>        | <b>36,078</b>  | <b>10,758</b>      | <b>1,747</b> | <b>2,248</b> | <b>3,272</b> | <b>1,047</b> | <b>879</b>     | <b>1,339</b>    | <b>657</b> | <b>877</b> | <b>218</b> |
| 0-14                | 51             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^          | ^          |
| 15-39               | 451            | 25                 | ^            | 50           | 36           | ^            | ^              | 34              | 23         | 16         | 23         |
| 40-64               | 8,918          | 2,694              | 137          | 767          | 762          | 148          | 326            | 245             | 206        | 281        | 126        |
| 65+                 | 26,658         | 8,039              | 1,610        | 1,431        | 2,474        | 897          | 546            | 1,059           | 428        | 580        | 69         |
| <b>Black Female</b> | <b>1,855</b>   | <b>337</b>         |              | <b>371</b>   | <b>197</b>   | <b>25</b>    | <b>23</b>      | <b>60</b>       |            | <b>62</b>  | <b>64</b>  |
| 0-14                | ^              | ^                  |              | ^            | ^            | ^            | ^              | ^               |            | ^          | ^          |
| 15-39               | 70             | ^                  |              | 22           | ^            | ^            | ^              | ^               |            | ^          | ^          |
| 40-64               | 772            | 131                |              | 189          | 79           | ^            | 11             | 26              |            | 31         | 33         |
| 65+                 | 1,005          | 201                |              | 160          | 113          | 17           | 12             | 28              |            | 29         | 23         |
| <b>White Female</b> | <b>16,450</b>  | <b>4,733</b>       |              | <b>2,248</b> | <b>1,553</b> | <b>281</b>   | <b>244</b>     | <b>598</b>      | <b>203</b> | <b>877</b> | <b>218</b> |
| 0-14                | 23             | ^                  |              | ^            | ^            | ^            | ^              | ^               | ^          | ^          | ^          |
| 15-39               | 232            | 10                 |              | 50           | 19           | ^            | ^              | 10              | 10         | 16         | 23         |
| 40-64               | 3,969          | 1,108              |              | 767          | 315          | 35           | 67             | 79              | 62         | 281        | 126        |
| 65+                 | 12,226         | 3,615              |              | 1,431        | 1,219        | 246          | 175            | 509             | 131        | 580        | 69         |
| <b>Black Male</b>   | <b>2,115</b>   | <b>578</b>         | <b>313</b>   |              | <b>226</b>   | <b>40</b>    | <b>87</b>      | <b>74</b>       |            |            |            |
| 0-14                | 10             | ^                  | ^            |              | ^            | ^            | ^              | ^               |            |            |            |
| 15-39               | 68             | ^                  | ^            |              | ^            | ^            | ^              | ^               |            |            |            |
| 40-64               | 865            | 245                | 45           |              | 101          | 13           | 49             | 44              |            |            |            |
| 65+                 | 1,172          | 331                | 268          |              | 117          | 27           | 37             | 22              |            |            |            |
| <b>White Male</b>   | <b>19,625</b>  | <b>6,025</b>       | <b>1,747</b> |              | <b>1,719</b> | <b>766</b>   | <b>635</b>     | <b>740</b>      | <b>454</b> |            |            |
| 0-14                | 28             | ^                  | ^            |              | ^            | ^            | ^              | ^               | ^          |            |            |
| 15-39               | 219            | 15                 | ^            |              | 17           | ^            | ^              | 24              | 13         |            |            |
| 40-64               | 4,948          | 1,586              | 137          |              | 447          | 113          | 259            | 166             | 144        |            |            |
| 65+                 | 14,430         | 4,424              | 1,610        |              | 1,255        | 651          | 371            | 549             | 297        |            |            |

^ Statistics for cells with fewer than 10 deaths are not displayed.

Source of data: Office of Vital Statistics

## AGE-ADJUSTED MORTALITY RATES

- Mortality rates for all cancers combined and all the selected cancers were lower in females than in males in Florida.
- Blacks had higher mortality rates than whites for all cancers combined and colorectal cancer, but lower rates for cancer of the lung and bronchus and non-Hodgkin lymphoma.
- Compared to white females, black females had higher mortality rates for breast, colorectal, and cervical cancers, but a lower rate for cancer of the lung and bronchus.
- Black males had higher mortality rates than white males for all cancers combined, prostate, and colorectal cancers.

**Table 18. Age-Adjusted Mortality Rates (1) by Sex and Race, Florida, 2008**

|                    | All Cancers  |       |       | Lung & Bronchus |      |      | Prostate    |      |      | Breast      |      |      | Colorectal  |      |      | Bladder    |     |     |
|--------------------|--------------|-------|-------|-----------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|------------|-----|-----|
|                    | Rate         | CI    |       | Rate            | CI   |      | Rate        | CI   |      | Rate        | CI   |      | Rate        | CI   |      | Rate       | CI  |     |
| <b>Florida (1)</b> | <b>160.8</b> | 159.2 | 162.4 | <b>46.3</b>     | 45.4 | 47.1 | <b>19.2</b> | 18.4 | 20.1 | <b>20.1</b> | 19.3 | 20.9 | <b>14.7</b> | 14.3 | 15.2 | <b>4.2</b> | 4.0 | 4.5 |
| Female             | 132.5        | 130.5 | 134.5 | 36.1            | 35.1 | 37.1 |             |      |      | 20.1        | 19.3 | 20.9 | 12.2        | 11.7 | 12.8 | 2.0        | 1.8 | 2.2 |
| Male               | 199.4        | 196.8 | 202.1 | 59.3            | 57.9 | 60.8 | 19.2        | 18.4 | 20.1 |             |      |      | 17.9        | 17.1 | 18.8 | 7.5        | 6.9 | 8.0 |
| Black              | 184.2        | 178.3 | 190.3 | 42.8            | 40.0 | 45.8 | 47.1        | 41.8 | 53.0 | 28.0        | 25.1 | 31.1 | 19.7        | 17.8 | 21.7 | 3.4        | 2.6 | 4.3 |
| White              | 158.2        | 156.5 | 159.9 | 46.7            | 45.8 | 47.6 | 17.4        | 16.5 | 18.2 | 19.0        | 18.2 | 19.9 | 14.1        | 13.6 | 14.6 | 4.3        | 4.1 | 4.6 |
| Black Female       | 146.4        | 139.6 | 153.4 | 27.2            | 24.3 | 30.3 |             |      |      | 28.0        | 25.1 | 31.1 | 15.8        | 13.6 | 18.3 | 2.1        | 1.4 | 3.2 |
| White Female       | 130.3        | 128.3 | 132.4 | 37.0            | 36.0 | 38.2 |             |      |      | 19.0        | 18.2 | 19.9 | 11.7        | 11.1 | 12.4 | 2.0        | 1.7 | 2.2 |
| Black Male         | 244.0        | 232.9 | 255.6 | 66.0            | 60.4 | 72.2 | 47.1        | 41.8 | 53.0 |             |      |      | 25.5        | 22.0 | 29.5 | 5.3        | 3.7 | 7.5 |
| White Male         | 195.6        | 192.8 | 198.4 | 58.9            | 57.4 | 60.5 | 17.4        | 16.5 | 18.2 |             |      |      | 17.1        | 16.3 | 18.0 | 7.6        | 7.1 | 8.2 |

|                    | Head & Neck |     |      | Non-Hodgkin |     |     | Melanoma   |     |     | Ovary      |     |     | Cervix     |     |     |
|--------------------|-------------|-----|------|-------------|-----|-----|------------|-----|-----|------------|-----|-----|------------|-----|-----|
|                    | Rate        | CI  |      | Rate        | CI  |     | Rate       | CI  |     | Rate       | CI  |     | Rate       | CI  |     |
| <b>Florida (1)</b> | <b>4.1</b>  | 3.8 | 4.3  | <b>6.0</b>  | 5.7 | 6.3 | <b>3.0</b> | 2.8 | 3.3 | <b>7.0</b> | 6.6 | 7.5 | <b>2.7</b> | 2.4 | 3.0 |
| Female             | 2.0         | 1.7 | 2.2  | 4.6         | 4.2 | 4.9 | 1.7        | 1.5 | 2.0 | 7.0        | 6.6 | 7.5 | 2.7        | 2.4 | 3.0 |
| Male               | 6.6         | 6.1 | 7.1  | 7.7         | 7.2 | 8.3 | 4.7        | 4.2 | 5.1 |            |     |     |            |     |     |
| Black              | 4.6         | 3.7 | 5.6  | 5.7         | 4.7 | 6.8 |            |     |     | 4.6        | 3.5 | 6.0 | 4.7        | 3.6 | 6.1 |
| White              | 4.0         | 3.7 | 4.3  | 5.9         | 5.6 | 6.2 | 3.0        | 2.8 | 3.3 | 7.2        | 6.8 | 7.8 | 2.4        | 2.1 | 2.8 |
| Black Female       | 1.8         | 1.1 | 2.7  | 4.6         | 3.5 | 6.0 |            |     |     | 4.6        | 3.5 | 6.0 | 4.7        | 3.6 | 6.1 |
| White Female       | 2.0         | 1.7 | 2.3  | 4.4         | 4.1 | 4.8 | 1.7        | 1.5 | 2.0 | 7.2        | 6.8 | 7.8 | 2.4        | 2.1 | 2.8 |
| Black Male         | 8.5         | 6.7 | 10.8 | 6.9         | 5.3 | 9.0 |            |     |     |            |     |     |            |     |     |
| White Male         | 6.4         | 5.9 | 6.9  | 7.6         | 7.0 | 8.2 | 4.7        | 4.2 | 5.1 |            |     |     |            |     |     |

Source of data: Office of Vital Statistics

(1) Florida total mortality rates include 462 deaths of persons of "Other" races and 111 deaths without race information; three deaths were recorded with unknown sex. Rates by sex include deaths with unknown and other races. Rates by race include deaths with unknown sex.

## AGE-ADJUSTED MORTALITY RATE COMPARISON, FLORIDA AND SEER

- The age-adjusted mortality rate for all cancers combined in Florida, 160.8 per 100,000 population, was 9% lower than the SEER-9 rate, 175.8 per 100,000 population, in 2008.
- The mortality rate among Florida blacks, 184.2 per 100,000 population, was 13% lower than the SEER-9 rate for blacks, 211.3 per 100,000 population.
- White females and white males in Florida also had lower mortality rates than those groups in the SEER.

**Table 19. Age-Adjusted Mortality Rate (1) Comparison, Florida and U.S., 2008**

|              | Florida      |              |              | U.S.         |              |              |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|              | Rate         | CI           |              | Rate         | CI           |              |
| <b>Total</b> | <b>160.8</b> | <b>159.2</b> | <b>162.4</b> | <b>175.8</b> | <b>175.3</b> | <b>176.2</b> |
| Female       | 132.5        | 130.5        | 134.5        | 148.4        | 147.9        | 149.0        |
| Male         | 199.4        | 196.8        | 202.1        | 215.7        | 214.9        | 216.4        |
| Black        | 184.2        | 178.3        | 190.3        | 211.3        | 209.6        | 213.0        |
| White        | 158.2        | 156.5        | 159.9        | 174.9        | 174.4        | 175.4        |
| Black Female | 146.4        | 139.6        | 153.4        | 171.0        | 169.0        | 172.9        |
| White Female | 130.3        | 128.3        | 132.4        | 148.2        | 147.6        | 148.8        |
| Black Male   | 244.0        | 232.9        | 255.6        | 280.1        | 276.9        | 283.3        |
| White Male   | 195.6        | 192.8        | 198.4        | 213.3        | 212.4        | 214.1        |

Sources of data: Office of Vital Statistics and CDC-National Center for Health Statistics.

(1) Rates are expressed as number of deaths per 100,000 population per year, adjusted to the 2000 U.S. standard population.

(2) SEER Program SEER\*Stat Database: Mortality, National Cancer Institute, DCCPS, Surveillance Research Program, Cancer Statistics Branch, released April 2009. Underlying mortality data provided by NCHS, [www.cdc.gov/nchs](http://www.cdc.gov/nchs).

### County Mortality Rates

- Age-adjusted mortality rates for all cancers combined ranged from 122.0 per 100,000 in Collier County, to 272.7 per 100,000 in Baker County, excluding Union County (See note on Union County rates in the 2006 Annual Cancer Report Methods section).
- Twenty-eight counties had mortality rates higher than the Florida rate of 160.8 per 100,000 population [CI: 159.2 - 162.4]; eight counties had lower rates.

Table 20.1 Age-Adjusted Mortality Rates by County, Florida, 2008

|                | All Cancers  |              |              | Lung & Bronchus |             |             | Prostate    |             |             | Breast      |             |             |
|----------------|--------------|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                | Rate         | CI           |              | Rate            | CI          |             | Rate        | CI          |             | Rate        | CI          |             |
| <b>Florida</b> | <b>160.8</b> | <b>159.2</b> | <b>162.4</b> | <b>46.3</b>     | <b>45.4</b> | <b>47.1</b> | <b>19.2</b> | <b>18.4</b> | <b>20.1</b> | <b>20.1</b> | <b>19.3</b> | <b>20.9</b> |
| Alachua        | 191.2        | 172.6        | 211.4        | 54.4            | 44.6        | 65.9        | 18.0        | 9.7         | 30.6        | 27.1        | 18.3        | 39.1        |
| Baker          | 272.7        | 206.8        | 354.7        | 65.4            | 37.0        | 110.2       | ^           | ^           | ^           | ^           | ^           | ^           |
| Bay            | 203.1        | 182.9        | 225.1        | 78.6            | 66.3        | 92.7        | 25.4        | 14.9        | 41.2        | 16.2        | 9.4         | 27.3        |
| Bradford       | 196.5        | 151.5        | 253.3        | 59.8            | 36.4        | 95.6        | ^           | ^           | ^           | ^           | ^           | ^           |
| Brevard        | 191.9        | 182.2        | 202.1        | 57.7            | 52.5        | 63.4        | 20.8        | 16.2        | 26.7        | 23.7        | 19.1        | 29.6        |
| Broward        | 140.4        | 135.6        | 145.3        | 37.6            | 35.1        | 40.2        | 14.2        | 12.0        | 16.8        | 18.8        | 16.4        | 21.5        |
| Calhoun        | 189.0        | 129.1        | 273.9        | 95.0            | 54.2        | 162.0       | ^           | ^           | ^           | ^           | ^           | ^           |
| Charlotte      | 159.4        | 145.3        | 175.5        | 52.2            | 44.5        | 62.2        | 16.6        | 11.2        | 27.1        | 20.7        | 13.7        | 33.1        |
| Citrus         | 194.4        | 177.6        | 214.0        | 58.8            | 50.1        | 70.4        | 20.1        | 13.6        | 33.9        | 29.2        | 18.7        | 46.9        |
| Clay           | 208.7        | 187.3        | 232.2        | 67.8            | 55.8        | 81.9        | 24.9        | 13.9        | 41.4        | 16.1        | 8.8         | 27.5        |
| Collier        | 122.0        | 112.9        | 132.0        | 31.0            | 26.7        | 36.3        | 20.1        | 15.2        | 27.0        | 10.8        | 7.2         | 16.7        |
| Columbia       | 222.9        | 190.6        | 259.9        | 64.8            | 48.0        | 86.5        | ^           | ^           | ^           | ^           | ^           | ^           |
| Miami-Dade     | 143.4        | 139.0        | 148.0        | 32.0            | 29.9        | 34.2        | 21.6        | 18.9        | 24.6        | 18.7        | 16.6        | 21.1        |
| Desoto         | 133.7        | 102.7        | 173.0        | 35.2            | 20.5        | 58.8        | ^           | ^           | ^           | ^           | ^           | ^           |
| Dixie          | 209.0        | 153.8        | 283.6        | 72.4            | 44.1        | 120.8       | ^           | ^           | ^           | ^           | ^           | ^           |
| Duval          | 203.3        | 193.5        | 213.6        | 63.5            | 58.0        | 69.3        | 24.9        | 19.4        | 31.7        | 26.2        | 21.6        | 31.4        |
| Escambia       | 195.7        | 181.1        | 211.3        | 62.1            | 54.0        | 71.3        | 24.6        | 17.0        | 34.7        | 18.5        | 12.9        | 26.3        |
| Flagler        | 183.7        | 160.4        | 212.3        | 52.6            | 40.6        | 70.7        | 20.6        | 11.5        | 45.0        | 18.0        | 8.9         | 42.8        |
| Franklin       | 143.1        | 92.6         | 228.3        | 56.2            | 27.7        | 123.6       | ^           | ^           | ^           | ^           | ^           | ^           |
| Gadsden        | 223.2        | 183.5        | 269.7        | 71.0            | 49.4        | 99.5        | ^           | ^           | ^           | ^           | ^           | ^           |
| Gilchrist      | 132.9        | 87.2         | 199.9        | ^               | ^           | ^           | ^           | ^           | ^           | ^           | ^           | ^           |
| Glades         | 134.5        | 85.0         | 214.6        | 60.0            | 29.3        | 124.0       | ^           | ^           | ^           | ^           | ^           | ^           |
| Gulf           | 241.2        | 176.3        | 329.0        | 87.6            | 50.9        | 148.9       | ^           | ^           | ^           | ^           | ^           | ^           |
| Hamilton       | 250.4        | 174.3        | 352.1        | 77.4            | 36.7        | 146.6       | ^           | ^           | ^           | ^           | ^           | ^           |
| Hardee         | 152.6        | 113.2        | 203.5        | 35.2            | 18.1        | 64.7        | ^           | ^           | ^           | ^           | ^           | ^           |
| Hendry         | 146.4        | 109.7        | 192.0        | 37.2            | 19.7        | 64.3        | ^           | ^           | ^           | ^           | ^           | ^           |
| Hernando       | 198.4        | 181.4        | 217.6        | 66.6            | 57.5        | 78.1        | 21.8        | 15.0        | 34.3        | 23.0        | 14.4        | 37.5        |
| Highlands      | 137.9        | 120.0        | 159.8        | 44.8            | 35.0        | 59.0        | 22.8        | 14.2        | 41.5        | 9.6         | 4.2         | 27.1        |
| Hillsborough   | 166.4        | 159.3        | 173.8        | 47.1            | 43.3        | 51.1        | 20.9        | 17.0        | 25.5        | 23.7        | 20.2        | 27.8        |
| Holmes         | 192.2        | 141.4        | 259.1        | 84.6            | 51.5        | 135.0       | ^           | ^           | ^           | ^           | ^           | ^           |
| Indian River   | 176.1        | 159.2        | 195.4        | 48.5            | 40.1        | 59.4        | 18.0        | 11.4        | 30.6        | 24.1        | 15.7        | 38.5        |
| Jackson        | 220.4        | 183.1        | 264.3        | 65.1            | 45.7        | 91.3        | ^           | ^           | ^           | 35.9        | 17.7        | 69.5        |
| Jefferson      | 188.1        | 128.6        | 271.8        | 62.7            | 30.9        | 120.6       | ^           | ^           | ^           | ^           | ^           | ^           |
| Lafayette      | 272.9        | 170.2        | 421.0        | ^               | ^           | ^           | ^           | ^           | ^           | ^           | ^           | ^           |
| Lake           | 162.1        | 150.3        | 175.1        | 48.6            | 42.5        | 55.8        | 12.7        | 8.4         | 20.1        | 18.8        | 13.4        | 27.0        |
| Lee            | 150.1        | 142.1        | 158.7        | 42.5            | 38.5        | 47.1        | 16.5        | 12.9        | 21.3        | 18.6        | 14.5        | 24.0        |
| Leon           | 182.2        | 163.4        | 202.7        | 46.4            | 37.2        | 57.5        | 33.7        | 20.9        | 52.2        | 27.5        | 18.7        | 39.2        |
| Levy           | 206.5        | 171.7        | 249.5        | 64.6            | 46.5        | 91.5        | ^           | ^           | ^           | ^           | ^           | ^           |
| Liberty        | 179.2        | 87.7         | 332.7        | ^               | ^           | ^           | ^           | ^           | ^           | ^           | ^           | ^           |
| Madison        | 233.6        | 174.2        | 309.7        | 53.8            | 27.7        | 97.9        | ^           | ^           | ^           | ^           | ^           | ^           |
| Manatee        | 144.1        | 133.7        | 155.5        | 45.1            | 39.4        | 51.8        | 17.3        | 12.6        | 24.2        | 13.2        | 9.1         | 19.6        |
| Marion         | 193.6        | 181.6        | 206.6        | 66.3            | 59.5        | 74.2        | 24.2        | 18.4        | 32.5        | 20.5        | 15.0        | 28.4        |
| Martin         | 157.3        | 142.6        | 173.9        | 51.2            | 43.2        | 61.3        | 16.1        | 10.1        | 27.3        | 20.3        | 13.2        | 32.7        |
| Monroe         | 149.1        | 125.3        | 177.2        | 35.4            | 24.8        | 50.5        | ^           | ^           | ^           | ^           | ^           | ^           |
| Nassau         | 199.9        | 169.2        | 235.4        | 64.1            | 47.5        | 85.7        | ^           | ^           | ^           | 23.7        | 11.0        | 46.9        |
| Okaloosa       | 166.6        | 148.9        | 186.1        | 55.8            | 45.8        | 67.5        | 23.7        | 13.8        | 38.4        | 24.6        | 16.0        | 36.8        |
| Okeechobee     | 167.7        | 135.0        | 208.4        | 66.8            | 47.5        | 94.6        | ^           | ^           | ^           | ^           | ^           | ^           |
| Orange         | 162.4        | 154.4        | 170.7        | 43.5            | 39.4        | 47.9        | 26.7        | 21.4        | 32.9        | 23.8        | 19.9        | 28.3        |
| Osceola        | 138.7        | 124.3        | 154.6        | 35.7            | 28.6        | 44.2        | 14.2        | 7.7         | 24.5        | 21.7        | 14.4        | 31.9        |
| Palm Beach     | 140.9        | 135.8        | 146.2        | 36.1            | 33.6        | 38.9        | 15.9        | 13.6        | 18.8        | 20.1        | 17.4        | 23.3        |
| Pasco          | 174.9        | 164.6        | 186.0        | 57.2            | 51.6        | 63.6        | 13.7        | 10.1        | 19.1        | 12.1        | 8.4         | 17.7        |
| Pinellas       | 151.7        | 145.6        | 158.2        | 44.2            | 41.0        | 47.7        | 17.3        | 14.4        | 20.9        | 17.1        | 14.2        | 20.7        |
| Polk           | 163.0        | 154.1        | 172.5        | 55.4            | 50.3        | 61.0        | 20.8        | 16.3        | 26.4        | 17.3        | 13.4        | 22.4        |
| Putnam         | 194.7        | 168.9        | 224.8        | 67.0            | 52.6        | 85.9        | ^           | ^           | ^           | 17.7        | 8.8         | 37.3        |
| Saint Johns    | 177.5        | 160.2        | 196.9        | 52.2            | 43.0        | 63.4        | 22.1        | 13.4        | 35.7        | 20.9        | 13.3        | 33.1        |
| Saint Lucie    | 177.7        | 163.6        | 193.2        | 51.0            | 43.7        | 59.7        | 19.5        | 13.2        | 29.2        | 21.6        | 15.1        | 31.2        |
| Santa Rosa     | 194.8        | 172.9        | 218.9        | 57.3            | 46.0        | 70.9        | 27.4        | 14.8        | 47.6        | 34.7        | 22.9        | 51.3        |
| Sarasota       | 153.7        | 144.3        | 164.0        | 42.4            | 37.6        | 48.0        | 16.3        | 12.5        | 22.1        | 21.2        | 16.2        | 28.3        |
| Seminole       | 165.8        | 153.4        | 179.1        | 39.6            | 33.6        | 46.4        | 31.3        | 22.8        | 42.1        | 21.7        | 16.1        | 28.8        |
| Sumter         | 188.0        | 166.3        | 214.0        | 58.5            | 46.5        | 75.2        | 14.8        | 7.5         | 34.0        | 28.7        | 17.6        | 53.2        |
| Suwannee       | 267.5        | 225.0        | 318.2        | 63.7            | 44.0        | 92.4        | ^           | ^           | ^           | 48.2        | 26.6        | 89.7        |
| Taylor         | 206.0        | 153.4        | 273.4        | 69.8            | 41.2        | 113.9       | ^           | ^           | ^           | ^           | ^           | ^           |
| Union          | 495.6        | 385.0        | 632.9        | 184.6           | 119.7       | 277.5       | ^           | ^           | ^           | ^           | ^           | ^           |
| Volusia        | 170.0        | 161.0        | 179.6        | 54.7            | 49.7        | 60.2        | 23.2        | 18.5        | 29.3        | 20.7        | 16.5        | 26.2        |
| Wakulla        | 190.3        | 143.1        | 250.2        | 66.9            | 40.5        | 106.3       | ^           | ^           | ^           | ^           | ^           | ^           |
| Walton         | 158.3        | 131.8        | 190.4        | 48.1            | 34.3        | 67.9        | 28.4        | 13.3        | 57.0        | 25.2        | 11.8        | 53.8        |
| Washington     | 222.9        | 173.6        | 286.2        | 82.8            | 54.5        | 126.0       | ^           | ^           | ^           | ^           | ^           | ^           |

Source of data: Office of Vital Statistics

^ Statistics for cells with fewer than 10 deaths are not displayed.

Table 20.2 Age-Adjusted Mortality Rates by County, Florida, 2008

|                | Colorectal  |             |             | Bladder    |            |            | Head & Neck |            |            | Non-Hodgkin |            |            |
|----------------|-------------|-------------|-------------|------------|------------|------------|-------------|------------|------------|-------------|------------|------------|
|                | Rate        | CI          |             | Rate       | CI         |            | Rate        | CI         |            | Rate        | CI         |            |
| <b>Florida</b> | <b>14.7</b> | <b>14.3</b> | <b>15.2</b> | <b>4.2</b> | <b>4.0</b> | <b>4.5</b> | <b>4.1</b>  | <b>3.8</b> | <b>4.3</b> | <b>6.0</b>  | <b>5.7</b> | <b>6.3</b> |
| Alachua        | 20.9        | 15.2        | 28.3        | ^          | ^          | ^          | 9.3         | 5.6        | 14.8       | 6.2         | 3.2        | 11.0       |
| Baker          | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Bay            | 11.1        | 6.7         | 17.7        | ^          | ^          | ^          | ^           | ^          | ^          | 6.7         | 3.5        | 12.0       |
| Bradford       | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Brevard        | 15.4        | 12.8        | 18.6        | 5.5        | 4.0        | 7.7        | 4.9         | 3.5        | 7.1        | 6.5         | 4.8        | 8.8        |
| Broward        | 12.8        | 11.4        | 14.4        | 3.8        | 3.1        | 4.7        | 3.5         | 2.7        | 4.3        | 5.5         | 4.6        | 6.6        |
| Calhoun        | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Charlotte      | 10.9        | 7.3         | 17.0        | 5.2        | 3.2        | 9.9        | ^           | ^          | ^          | 5.6         | 3.3        | 10.6       |
| Citrus         | 22.2        | 17.2        | 30.4        | 6.2        | 3.8        | 12.5       | 5.5         | 3.1        | 12.0       | 6.4         | 2.9        | 13.9       |
| Clay           | 20.9        | 14.5        | 29.4        | 5.7        | 2.7        | 11.0       | ^           | ^          | ^          | 8.3         | 4.4        | 14.4       |
| Collier        | 11.2        | 8.5         | 14.8        | 2.2        | 1.2        | 4.3        | 1.6         | 0.7        | 3.7        | 3.9         | 2.4        | 6.4        |
| Columbia       | 16.1        | 8.3         | 29.2        | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Miami-Dade     | 16.6        | 15.1        | 18.3        | 4.5        | 3.7        | 5.4        | 3.3         | 2.6        | 4.1        | 5.2         | 4.4        | 6.1        |
| Desoto         | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Dixie          | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Duval          | 17.4        | 14.6        | 20.6        | 4.6        | 3.2        | 6.4        | 4.1         | 2.8        | 5.8        | 9.4         | 7.4        | 11.8       |
| Escambia       | 14.1        | 10.4        | 18.8        | 5.2        | 3.1        | 8.5        | 6.8         | 4.3        | 10.5       | 6.6         | 4.2        | 10.1       |
| Flagler        | 18.7        | 12.0        | 32.5        | ^          | ^          | ^          | ^           | ^          | ^          | 8.8         | 3.5        | 22.3       |
| Franklin       | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Gadsden        | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Gilchrist      | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Glades         | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Gulf           | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Hamilton       | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Hardee         | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Hendry         | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Hernando       | 17.3        | 12.3        | 25.1        | 4.5        | 2.6        | 9.6        | 3.7         | 1.7        | 9.0        | 7.5         | 4.2        | 13.8       |
| Highlands      | 9.3         | 5.3         | 18.6        | ^          | ^          | ^          | ^           | ^          | ^          | 5.2         | 2.4        | 13.8       |
| Hillsborough   | 16.5        | 14.3        | 19.0        | 3.8        | 2.8        | 5.1        | 4.6         | 3.5        | 5.9        | 6.3         | 5.0        | 7.9        |
| Holmes         | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Indian River   | 17.6        | 12.7        | 25.4        | 3.9        | 2.0        | 9.2        | 4.2         | 2.1        | 9.8        | 7.7         | 4.5        | 14.0       |
| Jackson        | 22.4        | 11.9        | 40.4        | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Jefferson      | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Lafayette      | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Lake           | 17.3        | 13.6        | 22.4        | 4.4        | 2.6        | 7.8        | 3.5         | 1.9        | 6.7        | 5.0         | 3.2        | 8.4        |
| Lee            | 10.0        | 8.0         | 12.5        | 3.5        | 2.4        | 5.3        | 2.7         | 1.7        | 4.3        | 4.8         | 3.4        | 6.9        |
| Leon           | 15.7        | 10.5        | 22.8        | 6.4        | 3.3        | 11.3       | ^           | ^          | ^          | 8.0         | 4.4        | 13.3       |
| Levy           | 14.0        | 6.7         | 31.8        | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Liberty        | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Madison        | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Manatee        | 13.8        | 10.7        | 17.9        | 3.6        | 2.2        | 6.1        | 4.1         | 2.6        | 6.8        | 5.5         | 3.6        | 8.5        |
| Marion         | 18.1        | 14.2        | 23.2        | 4.5        | 2.9        | 7.4        | 5.2         | 3.3        | 8.5        | 5.6         | 3.8        | 8.6        |
| Martin         | 14.3        | 10.1        | 20.9        | 4.7        | 2.6        | 9.6        | ^           | ^          | ^          | 4.0         | 2.1        | 8.8        |
| Monroe         | 15.4        | 8.4         | 27.4        | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Nassau         | 23.1        | 13.8        | 37.6        | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Okaloosa       | 12.7        | 8.1         | 19.1        | ^          | ^          | ^          | 5.6         | 2.8        | 10.3       | ^           | ^          | ^          |
| Okeechobee     | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Orange         | 16.0        | 13.6        | 18.8        | 2.0        | 1.2        | 3.2        | 4.0         | 2.9        | 5.5        | 5.8         | 4.3        | 7.6        |
| Osceola        | 17.2        | 12.4        | 23.5        | 4.3        | 2.0        | 8.2        | ^           | ^          | ^          | 4.7         | 2.4        | 8.6        |
| Palm Beach     | 12.5        | 11.0        | 14.2        | 4.1        | 3.3        | 5.1        | 3.5         | 2.7        | 4.5        | 6.4         | 5.3        | 7.7        |
| Pasco          | 14.0        | 11.5        | 17.4        | 4.9        | 3.5        | 7.3        | 4.6         | 3.1        | 7.1        | 6.3         | 4.2        | 9.4        |
| Pinellas       | 12.5        | 10.8        | 14.5        | 4.2        | 3.3        | 5.4        | 3.9         | 2.9        | 5.1        | 5.7         | 4.6        | 7.2        |
| Polk           | 13.9        | 11.4        | 16.9        | 4.9        | 3.6        | 6.9        | 3.7         | 2.4        | 5.7        | 4.9         | 3.4        | 7.0        |
| Putnam         | 14.3        | 7.8         | 26.1        | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Saint Johns    | 16.5        | 11.4        | 24.0        | ^          | ^          | ^          | 5.0         | 2.5        | 10.1       | 8.8         | 5.3        | 14.7       |
| Saint Lucie    | 17.6        | 13.5        | 23.1        | 4.5        | 2.6        | 8.0        | 5.5         | 3.1        | 9.6        | 9.1         | 5.9        | 14.0       |
| Santa Rosa     | 19.6        | 13.3        | 28.3        | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Sarasota       | 12.9        | 10.4        | 16.4        | 4.5        | 3.1        | 7.0        | 3.5         | 2.3        | 5.8        | 7.9         | 5.9        | 11.0       |
| Seminole       | 13.6        | 10.2        | 17.8        | 3.9        | 2.2        | 6.5        | 2.9         | 1.6        | 5.1        | 6.0         | 3.8        | 9.1        |
| Sumter         | 19.8        | 13.5        | 31.4        | ^          | ^          | ^          | 6.3         | 2.8        | 16.1       | 7.6         | 3.5        | 18.0       |
| Suwannee       | 33.4        | 19.5        | 56.8        | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Taylor         | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Union          | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Volusia        | 14.8        | 12.2        | 18.0        | 4.5        | 3.2        | 6.5        | 4.7         | 3.3        | 6.8        | 5.4         | 3.9        | 7.5        |
| Wakulla        | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Walton         | 16.4        | 8.7         | 30.8        | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |
| Washington     | ^           | ^           | ^           | ^          | ^          | ^          | ^           | ^          | ^          | ^           | ^          | ^          |

Source of data: Office of Vital Statistics

^ Statistics for cells with fewer than 10 deaths are not displayed.

Table 20.3 Age-Adjusted Mortality Rates by County, Florida, 2008

|                | Melanoma   |            |            | Ovary      |            |            | Cervix     |            |            |
|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                | Rate       | CI         |            | Rate       | CI         |            | Rate       | CI         |            |
| <b>Florida</b> | <b>3.0</b> | <b>2.8</b> | <b>3.3</b> | <b>7.0</b> | <b>6.6</b> | <b>7.5</b> | <b>2.7</b> | <b>2.4</b> | <b>3.0</b> |
| Alachua        | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Baker          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Bay            | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Bradford       | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Brevard        | 2.9        | 1.8        | 4.9        | 9.4        | 6.5        | 13.5       | 3.2        | 1.5        | 6.5        |
| Broward        | 3.3        | 2.5        | 4.3        | 5.7        | 4.4        | 7.2        | 3.2        | 2.3        | 4.5        |
| Calhoun        | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Charlotte      | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Citrus         | ^          | ^          | ^          | 11.5       | 6.2        | 24.8       | ^          | ^          | ^          |
| Clay           | 5.9        | 2.8        | 11.6       | ^          | ^          | ^          | ^          | ^          | ^          |
| Collier        | 4.1        | 2.5        | 7.1        | 7.2        | 4.5        | 12.3       | ^          | ^          | ^          |
| Columbia       | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Miami-Dade     | 1.2        | 0.8        | 1.8        | 7.2        | 5.9        | 8.7        | 2.9        | 2.1        | 4.0        |
| Desoto         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Dixie          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Duval          | 3.9        | 2.5        | 6.0        | 7.5        | 5.2        | 10.5       | 3.7        | 2.1        | 6.2        |
| Escambia       | 4.5        | 2.3        | 8.4        | 9.0        | 5.3        | 15.0       | ^          | ^          | ^          |
| Flagler        | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Franklin       | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Gadsden        | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Gilchrist      | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Glades         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Gulf           | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Hamilton       | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Hardee         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Hendry         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Hernando       | ^          | ^          | ^          | 7.5        | 3.2        | 18.4       | ^          | ^          | ^          |
| Highlands      | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Hillsborough   | 2.7        | 1.8        | 4.0        | 7.8        | 5.8        | 10.2       | 2.8        | 1.7        | 4.6        |
| Holmes         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Indian River   | 5.2        | 2.4        | 11.9       | 11.5       | 5.0        | 25.1       | ^          | ^          | ^          |
| Jackson        | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Jefferson      | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Lafayette      | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Lake           | 3.1        | 1.7        | 6.4        | 9.1        | 4.7        | 16.9       | ^          | ^          | ^          |
| Lee            | 3.6        | 2.4        | 5.7        | 6.8        | 4.5        | 10.4       | ^          | ^          | ^          |
| Leon           | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Levy           | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Liberty        | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Madison        | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Manatee        | 4.5        | 2.6        | 7.9        | 6.6        | 3.9        | 11.8       | 5.3        | 2.3        | 11.2       |
| Marion         | 3.3        | 1.7        | 6.7        | 5.3        | 3.1        | 10.2       | ^          | ^          | ^          |
| Martin         | 4.0        | 1.7        | 9.8        | ^          | ^          | ^          | ^          | ^          | ^          |
| Monroe         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Nassau         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Okaloosa       | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Okeechobee     | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Orange         | 3.8        | 2.5        | 5.4        | 7.5        | 5.4        | 10.2       | 1.8        | 0.8        | 3.3        |
| Osceola        | ^          | ^          | ^          | 8.6        | 4.2        | 16.2       | ^          | ^          | ^          |
| Palm Beach     | 2.5        | 1.8        | 3.5        | 6.7        | 5.3        | 8.7        | 2.2        | 1.3        | 3.6        |
| Pasco          | 3.9        | 2.3        | 6.6        | 7.6        | 4.5        | 12.8       | ^          | ^          | ^          |
| Pinellas       | 2.4        | 1.6        | 3.6        | 8.3        | 6.4        | 10.9       | 1.5        | 0.7        | 3.1        |
| Polk           | 4.6        | 3.0        | 7.0        | 4.9        | 3.1        | 8.1        | 2.7        | 1.2        | 5.7        |
| Putnam         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Saint Johns    | ^          | ^          | ^          | 11.2       | 6.1        | 21.2       | ^          | ^          | ^          |
| Saint Lucie    | 4.7        | 2.4        | 9.3        | ^          | ^          | ^          | ^          | ^          | ^          |
| Santa Rosa     | 6.9        | 3.3        | 13.3       | ^          | ^          | ^          | ^          | ^          | ^          |
| Sarasota       | 2.7        | 1.6        | 5.2        | 5.6        | 3.6        | 10.0       | ^          | ^          | ^          |
| Seminole       | 2.8        | 1.4        | 5.2        | 7.1        | 4.1        | 11.6       | ^          | ^          | ^          |
| Sumter         | ^          | ^          | ^          | 11.3       | 5.6        | 32.4       | ^          | ^          | ^          |
| Suwannee       | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Taylor         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Union          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Volusia        | 1.8        | 0.8        | 3.6        | 7.4        | 5.0        | 11.1       | ^          | ^          | ^          |
| Wakulla        | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Walton         | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |
| Washington     | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          | ^          |

Source of data: Office of Vital Statistics

^ Statistics for cells with fewer than 10 deaths are not displayed.

## AGE-SPECIFIC MORTALITY RATES

- Age-specific mortality rates increased considerably with age. Rates were highest in the 65-and-older age group for both sexes, both races, and for all sites except cervical cancer among white women.
- Males had higher age-specific mortality rates than females for all cancers combined and all the selected sites in the 40 to 64 and 65-and-older age groups.
- Blacks had lower age-specific mortality rates than whites in the groups age 40 to 64 and 65-and-older for cancer of the lung and bronchus, and in the 65-and-older age group for bladder cancer.
- In both groups age 40 and older, black females had higher mortality rates for breast cancer than white females; black males had mortality rates for prostate cancer more than double the rates in white males.
- Whites had lower mortality rates than blacks in the 65-and-older age group for all cancers combined and colorectal cancer, but a higher rate for non-Hodgkin lymphoma. In the same age group, black females had a higher mortality rate for cervical cancer.

Table 21. Age-Specific Mortality Rates (1) by Sex, Race, and Age Group, Florida, 2008

| All Cancers  |         |         | Lung & Bronchus |       |       | Prostate |       |       | Breast |       |      | Colorectal |       |       | Bladder |      |      | Head & Neck |      |      | Non-Hodgkin |      |      | Melanoma |      |      | Ovary |      |      | Cervix |     |     |     |
|--------------|---------|---------|-----------------|-------|-------|----------|-------|-------|--------|-------|------|------------|-------|-------|---------|------|------|-------------|------|------|-------------|------|------|----------|------|------|-------|------|------|--------|-----|-----|-----|
| Rate         | CI      |         | Rate            | CI    |       | Rate     | CI    |       | Rate   | CI    |      | Rate       | CI    |       | Rate    | CI   |      | Rate        | CI   |      | Rate        | CI   |      | Rate     | CI   |      | Rate  | CI   |      | Rate   | CI  |     |     |
| Florida      |         |         |                 |       |       |          |       |       |        |       |      |            |       |       |         |      |      |             |      |      |             |      |      |          |      |      |       |      |      |        |     |     |     |
| 0-14         | 2.1     | 1.7     | 2.7             | 2.8   | 2.8   | 2.1      | 1.7   | 2.7   | 2.1    | 1.7   | 2.7  | 2.1        | 1.7   | 2.7   | 2.1     | 1.7  | 2.7  | 2.1         | 1.7  | 2.7  | 2.1         | 1.7  | 2.7  | 2.1      | 1.7  | 2.7  | 2.1   | 1.7  | 2.7  | 2.1    | 1.7 |     |     |
| 15-39        | 10.9    | 10.1    | 11.8            | 0.6   | 0.4   | 0.8      | 6.1   | 5.2   | 7.0    | 30.4  | 28.6 | 32.4       | 15.4  | 14.4  | 16.4    | 2.7  | 2.3  | 3.2         | 6.3  | 5.7  | 6.9         | 5.2  | 4.6  | 5.8      | 4.0  | 3.4  | 4.5   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 40-64        | 172.1   | 168.9   | 175.4           | 49.8  | 48.0  | 51.6     | 133.4 | 127.4 | 139.5  | 86.5  | 82.3 | 90.8       | 83.3  | 80.2  | 86.5    | 28.9 | 27.1 | 30.8        | 18.2 | 16.8 | 19.7        | 34.1 | 32.1 | 36.1     | 14.2 | 12.9 | 15.6  | 33.2 | 30.6 | 35.9   | 5.0 | 4.1 | 6.2 |
| 65+          | 887.1   | 877.0   | 897.4           | 263.1 | 257.6 | 268.7    | 133.4 | 127.4 | 139.5  | 86.5  | 82.3 | 90.8       | 83.3  | 80.2  | 86.5    | 28.9 | 27.1 | 30.8        | 18.2 | 16.8 | 19.7        | 34.1 | 32.1 | 36.1     | 14.2 | 12.9 | 15.6  | 33.2 | 30.6 | 35.9   | 5.0 | 4.1 | 6.2 |
| Female       |         |         |                 |       |       |          |       |       |        |       |      |            |       |       |         |      |      |             |      |      |             |      |      |          |      |      |       |      |      |        |     |     |     |
| 0-14         | 1.9     | 1.3     | 2.8             | 2.8   | 2.8   | 1.9      | 1.3   | 2.8   | 1.9    | 1.3   | 2.8  | 1.9        | 1.3   | 2.8   | 1.9     | 1.3  | 2.8  | 1.9         | 1.3  | 2.8  | 1.9         | 1.3  | 2.8  | 1.9      | 1.3  | 2.8  | 1.9   | 1.3  | 2.8  | 1.9    | 1.3 | 2.8 |     |
| 15-39        | 11.5    | 10.2    | 12.8            | 0.6   | 0.3   | 0.9      | 6.1   | 5.2   | 7.0    | 30.4  | 28.6 | 32.4       | 12.6  | 11.4  | 13.9    | 1.4  | 1.0  | 1.8         | 2.5  | 2.0  | 3.1         | 3.3  | 2.7  | 4.0      | 2.3  | 1.8  | 3.0   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 40-64        | 151.3   | 147.1   | 155.6           | 39.2  | 37.0  | 41.4     | 133.4 | 127.4 | 139.5  | 86.5  | 82.3 | 90.8       | 72.4  | 68.6  | 76.4    | 14.2 | 12.5 | 16.0        | 10.1 | 8.7  | 11.6        | 29.2 | 26.8 | 31.7     | 7.7  | 6.4  | 9.1   | 33.2 | 30.6 | 35.9   | 5.0 | 4.1 | 6.2 |
| 65+          | 718.5   | 706.4   | 730.8           | 206.8 | 200.3 | 213.4    | 133.4 | 127.4 | 139.5  | 86.5  | 82.3 | 90.8       | 72.4  | 68.6  | 76.4    | 14.2 | 12.5 | 16.0        | 10.1 | 8.7  | 11.6        | 29.2 | 26.8 | 31.7     | 7.7  | 6.4  | 9.1   | 33.2 | 30.6 | 35.9   | 5.0 | 4.1 | 6.2 |
| Male         |         |         |                 |       |       |          |       |       |        |       |      |            |       |       |         |      |      |             |      |      |             |      |      |          |      |      |       |      |      |        |     |     |     |
| 0-14         | 2.3     | 1.7     | 3.2             | 2.8   | 2.8   | 2.3      | 1.7   | 3.2   | 2.3    | 1.7   | 3.2  | 2.3        | 1.7   | 3.2   | 2.3     | 1.7  | 3.2  | 2.3         | 1.7  | 3.2  | 2.3         | 1.7  | 3.2  | 2.3      | 1.7  | 3.2  | 2.3   | 1.7  | 3.2  | 2.3    | 1.7 | 3.2 |     |
| 15-39        | 10.4    | 9.2     | 11.6            | 0.6   | 0.4   | 1.0      | 6.1   | 5.2   | 7.0    | 30.4  | 28.6 | 32.4       | 18.3  | 16.8  | 19.8    | 4.2  | 3.5  | 5.0         | 10.3 | 9.2  | 11.5        | 7.2  | 6.2  | 8.2      | 5.6  | 4.7  | 6.6   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 40-64        | 194.1   | 189.2   | 199.1           | 61.0  | 58.3  | 63.8     | 133.4 | 127.4 | 139.5  | 86.5  | 82.3 | 90.8       | 97.7  | 92.6  | 102.9   | 48.2 | 44.7 | 52.0        | 28.8 | 26.1 | 31.8        | 40.5 | 37.3 | 43.9     | 22.6 | 20.1 | 25.3  | 33.2 | 30.6 | 35.9   | 5.0 | 4.1 | 6.2 |
| 65+          | 1108.1  | 1090.9  | 1125.6          | 337.0 | 327.5 | 346.6    | 133.4 | 127.4 | 139.5  | 86.5  | 82.3 | 90.8       | 97.7  | 92.6  | 102.9   | 48.2 | 44.7 | 52.0        | 28.8 | 26.1 | 31.8        | 40.5 | 37.3 | 43.9     | 22.6 | 20.1 | 25.3  | 33.2 | 30.6 | 35.9   | 5.0 | 4.1 | 6.2 |
| Black        |         |         |                 |       |       |          |       |       |        |       |      |            |       |       |         |      |      |             |      |      |             |      |      |          |      |      |       |      |      |        |     |     |     |
| 0-14         | 2.5     | 1.5     | 4.0             | 2.8   | 2.8   | 2.5      | 1.5   | 4.0   | 2.5    | 1.5   | 4.0  | 2.5        | 1.5   | 4.0   | 2.5     | 1.5  | 4.0  | 2.5         | 1.5  | 4.0  | 2.5         | 1.5  | 4.0  | 2.5      | 1.5  | 4.0  | 2.5   | 1.5  | 4.0  | 2.5    | 1.5 | 4.0 |     |
| 15-39        | 11.9    | 10.0    | 14.1            | 2.8   | 2.8   | 2.8      | 11.9  | 10.0  | 14.1   | 3.8   | 2.4  | 5.7        | 1.1   | 0.6   | 1.9     | 2.4  | 1.5  | 3.6         | 6.7  | 5.1  | 8.6         | 7.8  | 6.1  | 9.9      | 6.4  | 4.4  | 9.1   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 40-64        | 183.2   | 174.4   | 192.3           | 42.1  | 37.9  | 46.6     | 10.9  | 8.0   | 14.6   | 39.2  | 33.8 | 45.2       | 20.1  | 17.3  | 23.3    | 2.4  | 1.5  | 3.6         | 6.7  | 5.1  | 8.6         | 7.8  | 6.1  | 9.9      | 6.4  | 4.4  | 9.1   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 65+          | 942.2   | 903.0   | 982.6           | 230.2 | 211.1 | 250.7    | 288.9 | 255.3 | 325.6  | 115.7 | 98.5 | 135.1      | 99.5  | 87.1  | 113.3   | 19.0 | 13.8 | 25.6        | 21.2 | 15.7 | 28.0        | 21.6 | 16.1 | 28.5     | 21.0 | 14.0 | 30.1  | 33.2 | 30.6 | 35.9   | 5.0 | 4.1 | 6.2 |
| White        |         |         |                 |       |       |          |       |       |        |       |      |            |       |       |         |      |      |             |      |      |             |      |      |          |      |      |       |      |      |        |     |     |     |
| 0-14         | 2.1     | 1.6     | 2.8             | 2.8   | 2.8   | 2.1      | 1.6   | 2.8   | 2.1    | 1.6   | 2.8  | 2.1        | 1.6   | 2.8   | 2.1     | 1.6  | 2.8  | 2.1         | 1.6  | 2.8  | 2.1         | 1.6  | 2.8  | 2.1      | 1.6  | 2.8  | 2.1   | 1.6  | 2.8  | 2.1    | 1.6 | 2.8 |     |
| 15-39        | 10.6    | 9.7     | 11.7            | 0.6   | 0.4   | 0.9      | 6.1   | 5.2   | 7.0    | 30.4  | 28.6 | 32.4       | 14.6  | 13.6  | 15.7    | 2.8  | 2.4  | 3.3         | 6.3  | 5.6  | 7.0         | 4.7  | 4.1  | 5.3      | 4.0  | 3.4  | 4.5   | 10.6 | 9.4  | 11.9   | 4.8 | 4.0 | 5.7 |
| 40-64        | 171.1   | 167.6   | 174.7           | 51.7  | 49.8  | 53.7     | 5.3   | 4.5   | 6.3    | 29.0  | 26.9 | 31.1       | 14.6  | 13.6  | 15.7    | 2.8  | 2.4  | 3.3         | 6.3  | 5.6  | 7.0         | 4.7  | 4.1  | 5.3      | 4.0  | 3.4  | 4.5   | 10.6 | 9.4  | 11.9   | 4.8 | 4.0 | 5.7 |
| 65+          | 883.4   | 872.8   | 894.0           | 266.4 | 260.6 | 272.3    | 122.5 | 116.6 | 128.7  | 84.0  | 79.7 | 88.5       | 82.0  | 78.8  | 85.3    | 29.7 | 27.8 | 31.7        | 18.1 | 16.6 | 19.7        | 35.1 | 33.0 | 37.3     | 14.2 | 12.9 | 15.6  | 34.0 | 31.3 | 36.9   | 4.0 | 3.2 | 5.1 |
| Black Female |         |         |                 |       |       |          |       |       |        |       |      |            |       |       |         |      |      |             |      |      |             |      |      |          |      |      |       |      |      |        |     |     |     |
| 0-14         | 2.1     | 1.6     | 2.8             | 2.8   | 2.8   | 2.1      | 1.6   | 2.8   | 2.1    | 1.6   | 2.8  | 2.1        | 1.6   | 2.8   | 2.1     | 1.6  | 2.8  | 2.1         | 1.6  | 2.8  | 2.1         | 1.6  | 2.8  | 2.1      | 1.6  | 2.8  | 2.1   | 1.6  | 2.8  | 2.1    | 1.6 | 2.8 |     |
| 15-39        | 12.1    | 9.4     | 15.3            | 2.8   | 2.8   | 2.8      | 12.1  | 9.4   | 15.3   | 3.8   | 2.4  | 5.7        | 1.1   | 0.6   | 1.9     | 2.4  | 1.5  | 3.6         | 6.7  | 5.1  | 8.6         | 7.8  | 6.1  | 9.9      | 6.4  | 4.4  | 9.1   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 40-64        | 160.0   | 148.9   | 171.7           | 27.1  | 22.7  | 32.2     | 10.9  | 8.0   | 14.6   | 39.2  | 33.8 | 45.2       | 16.4  | 13.0  | 20.4    | 2.4  | 1.5  | 3.6         | 6.7  | 5.1  | 8.6         | 7.8  | 6.1  | 9.9      | 6.4  | 4.4  | 9.1   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 65+          | 726.8   | 682.5   | 773.1           | 145.4 | 126.0 | 166.9    | 288.9 | 255.3 | 325.6  | 115.7 | 98.5 | 135.1      | 81.7  | 67.3  | 98.2    | 12.3 | 7.2  | 19.7        | 8.7  | 4.5  | 15.2        | 20.2 | 13.5 | 29.3     | 21.0 | 14.0 | 30.1  | 33.2 | 30.6 | 35.9   | 5.0 | 4.1 | 6.2 |
| White Female |         |         |                 |       |       |          |       |       |        |       |      |            |       |       |         |      |      |             |      |      |             |      |      |          |      |      |       |      |      |        |     |     |     |
| 0-14         | 1.9     | 1.2     | 2.9             | 2.8   | 2.8   | 1.9      | 1.2   | 2.9   | 1.9    | 1.2   | 2.9  | 1.9        | 1.2   | 2.9   | 1.9     | 1.2  | 2.9  | 1.9         | 1.2  | 2.9  | 1.9         | 1.2  | 2.9  | 1.9      | 1.2  | 2.9  | 1.9   | 1.2  | 2.9  | 1.9    | 1.2 | 2.9 |     |
| 15-39        | 11.2    | 9.8     | 12.8            | 0.5   | 0.2   | 0.9      | 6.1   | 5.2   | 7.0    | 30.4  | 28.6 | 32.4       | 11.9  | 10.6  | 13.3    | 1.3  | 0.9  | 1.8         | 2.5  | 2.0  | 3.2         | 3.0  | 2.4  | 3.7      | 2.3  | 1.8  | 3.0   | 10.6 | 9.4  | 11.9   | 4.8 | 4.0 | 5.7 |
| 40-64        | 149.9   | 145.2   | 154.6           | 41.8  | 39.4  | 44.4     | 6.1   | 5.2   | 7.0    | 30.4  | 28.6 | 32.4       | 11.9  | 10.6  | 13.3    | 1.3  | 0.9  | 1.8         | 2.5  | 2.0  | 3.2         | 3.0  | 2.4  | 3.7      | 2.3  | 1.8  | 3.0   | 10.6 | 9.4  | 11.9   | 4.8 | 4.0 | 5.7 |
| 65+          | 717.5   | 704.9   | 730.4           | 212.2 | 205.3 | 219.2    | 288.9 | 255.3 | 325.6  | 84.0  | 79.7 | 88.5       | 71.5  | 67.6  | 75.7    | 14.4 | 12.7 | 16.4        | 10.3 | 8.8  | 11.9        | 29.9 | 27.3 | 32.6     | 7.7  | 6.4  | 9.1   | 34.0 | 31.3 | 36.9   | 4.0 | 3.2 | 5.1 |
| Black Male   |         |         |                 |       |       |          |       |       |        |       |      |            |       |       |         |      |      |             |      |      |             |      |      |          |      |      |       |      |      |        |     |     |     |
| 0-14         | 2.7     | 1.3     | 5.1             | 2.8   | 2.8   | 2.7      | 1.3   | 5.1   | 2.7    | 1.3   | 5.1  | 2.7        | 1.3   | 5.1   | 2.7     | 1.3  | 5.1  | 2.7         | 1.3  | 5.1  | 2.7         | 1.3  | 5.1  | 2.7      | 1.3  | 5.1  | 2.7   | 1.3  | 5.1  | 2.7    | 1.3 | 5.1 |     |
| 15-39        | 11.7    | 9.1     | 14.9            | 2.8   | 2.8   | 2.8      | 11.7  | 9.1   | 14.9   | 3.8   | 2.4  | 5.7        | 1.1   | 0.6   | 1.9     | 2.4  | 1.5  | 3.6         | 6.7  | 5.1  | 8.6         | 7.8  | 6.1  | 9.9      | 6.4  | 4.4  | 9.1   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 40-64        | 210.4   | 196.6   | 224.9           | 59.6  | 52.4  | 67.5     | 10.9  | 8.0   | 14.6   | 39.2  | 33.8 | 45.2       | 16.4  | 13.0  | 20.4    | 2.4  | 1.5  | 3.6         | 6.7  | 5.1  | 8.6         | 7.8  | 6.1  | 9.9      | 6.4  | 4.4  | 9.1   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 65+          | 1,263.3 | 1,192.0 | 1,337.7         | 356.8 | 319.4 | 397.4    | 288.9 | 255.3 | 325.6  | 115.7 | 98.5 | 135.1      | 126.1 | 104.3 | 151.1   | 29.1 | 19.2 | 42.3        | 39.9 | 28.1 | 55.0        | 23.7 | 14.9 | 35.9     | 21.0 | 14.0 | 30.1  | 33.2 | 30.6 | 35.9   | 5.0 | 4.1 | 6.2 |
| White Male   |         |         |                 |       |       |          |       |       |        |       |      |            |       |       |         |      |      |             |      |      |             |      |      |          |      |      |       |      |      |        |     |     |     |
| 0-14         | 2.3     | 1.5     | 3.3             | 2.8   | 2.8   | 2.3      | 1.5   | 3.3   | 2.3    | 1.5   | 3.3  | 2.3        | 1.5   | 3.3   | 2.3     | 1.5  | 3.3  | 2.3         | 1.5  | 3.3  | 2.3         | 1.5  | 3.3  | 2.3      | 1.5  | 3.3  | 2.3   | 1.5  | 3.3  | 2.3    | 1.5 | 3.3 |     |
| 15-39        | 10.1    | 8.8     | 11.5            | 0.7   | 0.4   | 1.1      | 6.1   | 5.2   | 7.0    | 30.4  | 28.6 | 32.4       | 17.4  | 15.9  | 19.1    | 4.4  | 3.6  | 5.3         | 10.1 | 8.9  | 11.4        | 6.5  | 5.5  | 7.5      | 5.6  | 4.7  | 6.6   | 10.1 | 9.0  | 11.3   | 5.2 | 4.5 | 6.1 |
| 40-64        | 193.0   | 187.6   | 198.4           | 61.9  | 58.9  | 65.0     | 5.3   | 4.5   | 6.3    | 29.0  | 26.9 | 31.1       | 14.6  | 13.6  | 15.7    | 2.8  | 2.4  | 3.3         | 6.3  | 5.6  | 7.0         | 4.7  | 4.1  | 5.3      | 4.0  | 3.4  | 4.5   | 10.6 | 9.4  | 11.9   | 4.8 | 4.0 | 5.7 |
| 65+          | 1,098.3 | 1,080.5 | 1,116.4         | 336.7 | 326.9 | 346.8    | 122.5 | 116.6 | 128.7  | 84.0  | 79.7 | 88.5       | 82.0  | 78.8  | 85.3    | 29.7 | 27.8 | 31.7        | 18.1 | 16.6 | 19.7        | 35.1 | 33.0 | 37.3     | 14.2 | 12.9 | 15.6  | 34.0 | 31.3 | 36.9   | 4.0 | 3.2 | 5.1 |

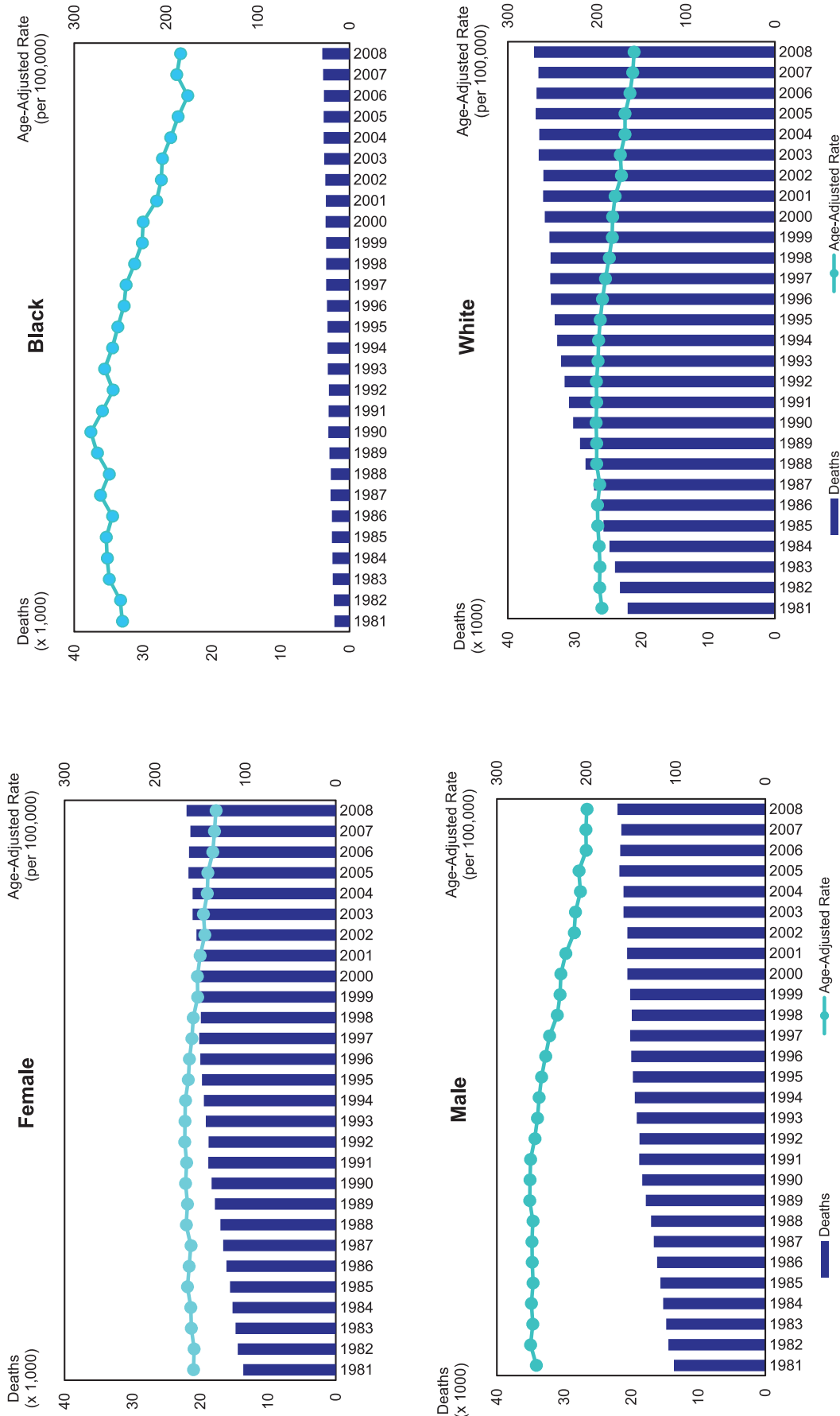


## TRENDS IN DEATHS AND AGE-ADJUSTED MORTALITY RATES

### MORTALITY

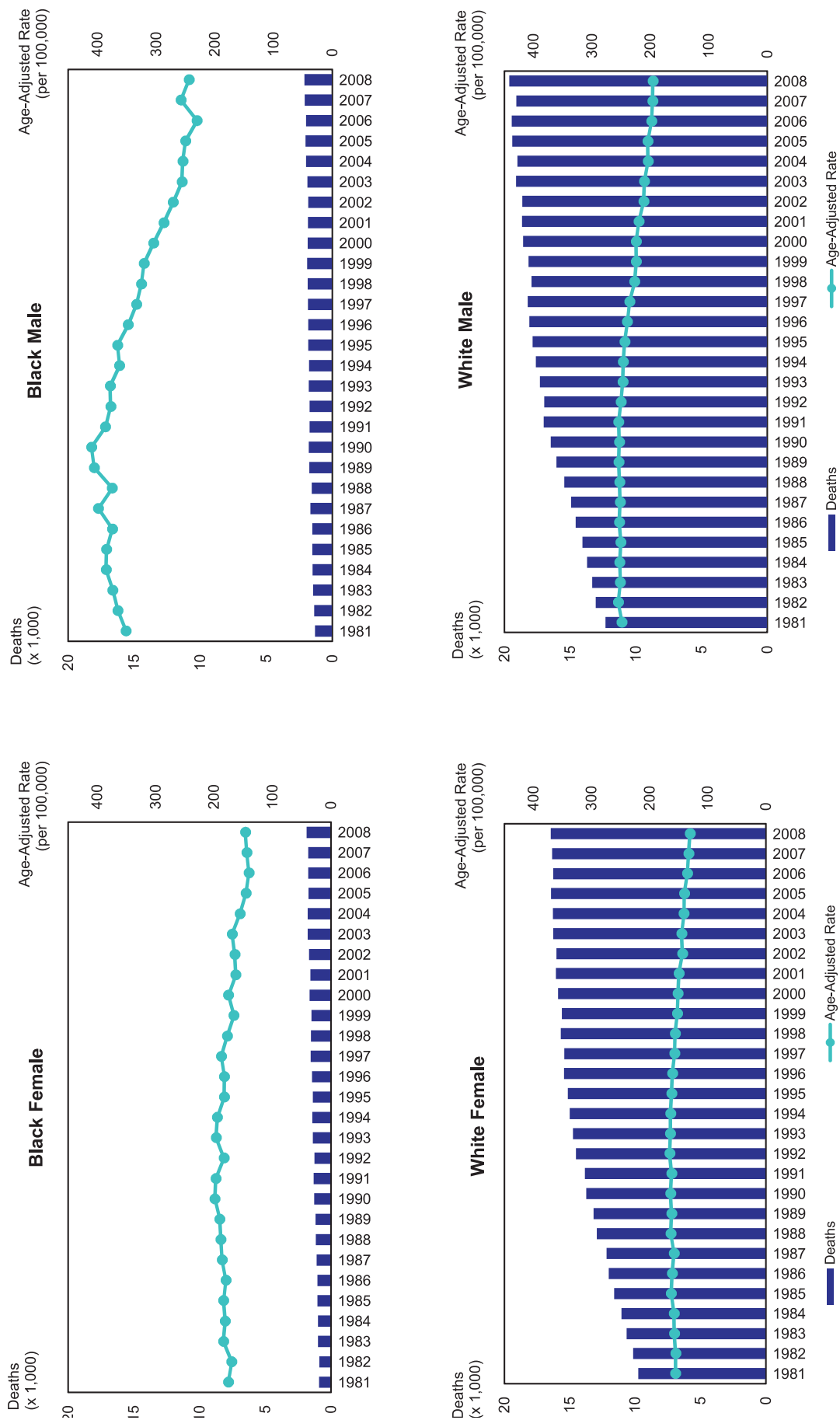
- The total number of cancer deaths increased 67% from 24,295 in 1981 to 40,621 in 2008; the population of Florida increased 77% during the same time period.
- From 1981 to 2008, age-adjusted mortality rates for all cancers combined were higher for males in all years. The rates decreased by 16% among females and by 22% among males.
- Despite the greater decline in mortality rates for males in the past 28 years, the difference between the sexes persists. The rate for males was 63% higher than for females in 1981 and 50% higher in 2008.
- Age-adjusted mortality rates decreased by 26% among blacks and 19% among whites between 1981 and 2008.
- The difference in mortality rates between black and white females varied between 1981 and 2008. The mortality rate for black females was 13% higher in 1981, 22% higher in 1991, 4% higher in 2006, and 12% higher in 2008.
- The difference in mortality rates between black and white males also varied during the 28-year period. The rate for blacks was 62% higher than for whites in 1990, 16% higher in 2006, and 25% higher in 2008.
- The mortality rates for black males were about twice the rates for black females between 1981 and 1995 and then declined. The rate for black males was 67% higher than for black females in 2008.
- The mortality rate for white males was 60% higher than for white females in 1981 and 50% higher in 2008.
- The mortality rate for all cancers combined declined in all sex-race groups from 1981 to 2008: 31% among black males, 17% among black females, 21% among white males and 16% among white females.
- Both male and female blacks had higher mortality rates for all cancers combined than whites of either sex; black males had the highest rates of all sex-race groups from 1981 to 2008.

**Figure 14. Deaths and Age-Adjusted Mortality Rates for All Cancers by Sex and by Race, Florida, 1981-2008**

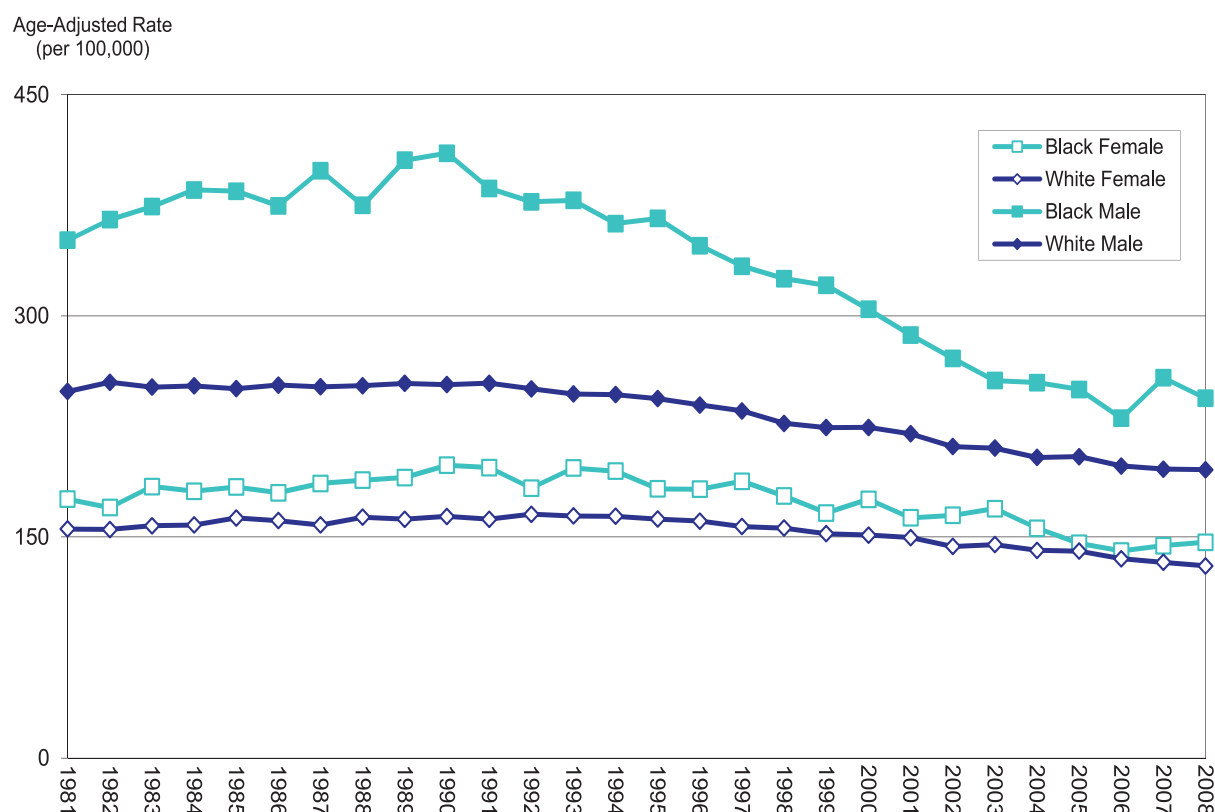


Source of data: Office of Vital Statistics

**Figure 15. Deaths and Age-Adjusted Mortality Rates for All Cancers by Sex and Race, Florida, 1981-2008**



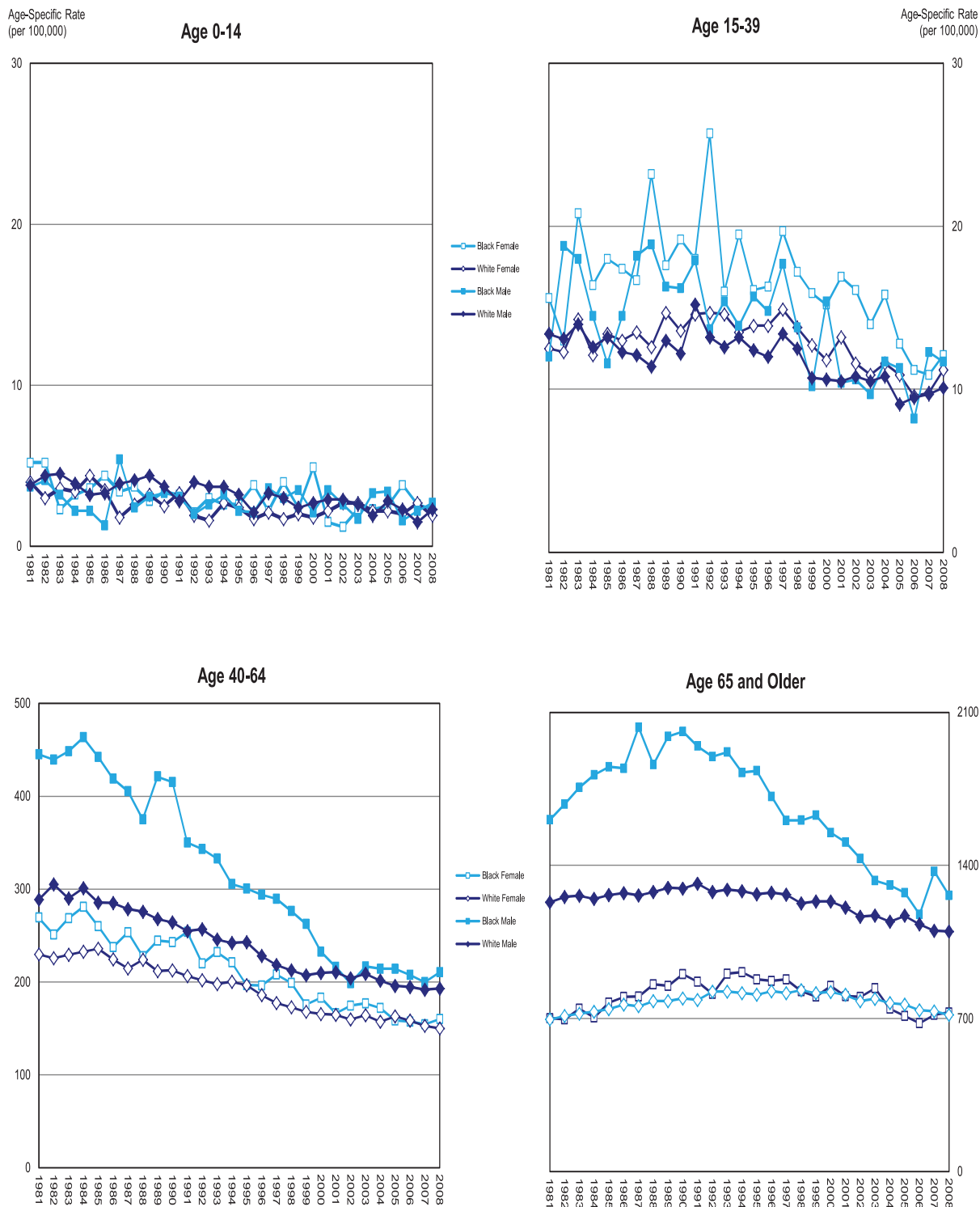
**Figure 16. Age-Adjusted Mortality Rates for All Cancers by Sex and Race, Florida, 1981-2008**



## TRENDS IN AGE-SPECIFIC MORTALITY RATES

- Age-specific mortality rates increased with age in all sex-race groups.
- Black females had higher mortality rates than white females in all age groups, except age 0 to 14, in most years.
- In the group age 40 to 64, mortality rates among black males, black females, white males and white females declined 53%, 41%, 33% and 35% respectively in the past 28 years.
- Black males had higher mortality rates than white males in the groups age 40 to 64, except in 2002.
- Among males age 65 and older, blacks had higher mortality rates than whites, with a peak in 1987, 60% higher.

**Figure 17. Age-Specific Mortality Rates for All Cancers  
by Sex , Race and Age Group, Florida, 1981-2008**



Source of data: Florida Cancer Data System

## CANCER SITES

### MORTALITY

#### Lung and Bronchus

- Age-adjusted mortality rates among males decreased between 1981 and 2008, by 38% for black males and by 30% for white males.
- Black males had higher mortality rates than white males during the 28-year period. However, the difference in rates decreased substantially, from 27% higher for black males in 1981 to 12% higher in 2008.
- White females had higher age-adjusted mortality rates than black females since 1981. The difference in rates increased from 29% higher for white females in 1981 to 36% higher in 2008.
- The rates increased by 26% and 33% from 1981 to 2008 for black females and white females, respectively.

#### Prostate

- Black males had higher mortality rates for prostate cancer than white males throughout the 28-year period. In 1981, the mortality rate among black males was 2.7 times the rate among whites.
- Although mortality rates decreased 37% for both black and white males since 1981, the mortality rate for blacks was still 2.7 times the rate for whites in 2008.

#### Breast

- Age-adjusted mortality rates of breast cancer decreased by 34% among white females and 10% among black females between 1981 and 2008, increasing racial disparity.
- The rate among blacks was 7% higher than among whites in 1981 and 47% higher in 2008.

#### Colorectal

- Mortality rates for colorectal cancer decreased from 1981 to 2008 in all sex-race groups except black males.
- Rates decreased steadily for white males and females, by 44% and 48% respectively over the 28-year period.
- In 1981, rates were highest for white males, followed by black males, white females, and black females. In 1990, the rate among white males dropped below that for black males and remained lower through 2008.
- 

#### Bladder

- Mortality rates for bladder cancer decreased from 1981 to 2008 in all sex-race groups: 38% for black females, 23% for white females, 22% for black males, and 20% for white males.

- In the last 28 years, age-adjusted mortality rates were highest among white males except in 1984 and 1985, followed by black males and black females. White females had the lowest rates throughout the period.

### Head and Neck

- Mortality rates of head and neck cancer decreased from 1981 to 2008 in all sex-race groups. Rates declined by 65% for black females, 63% for black males, 43% for white females, and 33% for white males.
- Males of both races had higher mortality rates than females in all 28 years. From 1981 to 2008, the rates for black males were three to six times higher than rates for black females; the rates for white males were two to three times higher than for white females.

### Non-Hodgkin Lymphoma

- Since 1981, age-adjusted mortality rates have been lowest among black females and highest among white males. The rate for males was higher than for females for both races. The rate for whites was higher than blacks for both sexes.
- Rates for white females increased from 1981 until 1997, and for white males from 1981 to 1999, then decreased until 2008. The patterns for the rates in black females and males were similar but more variable.

### Melanoma

- From 1981 to 2008, mortality rates of melanoma were higher in white males than in white females.
- Rates decreased by 15% among females and increased by 24% among males during the 28-year period.

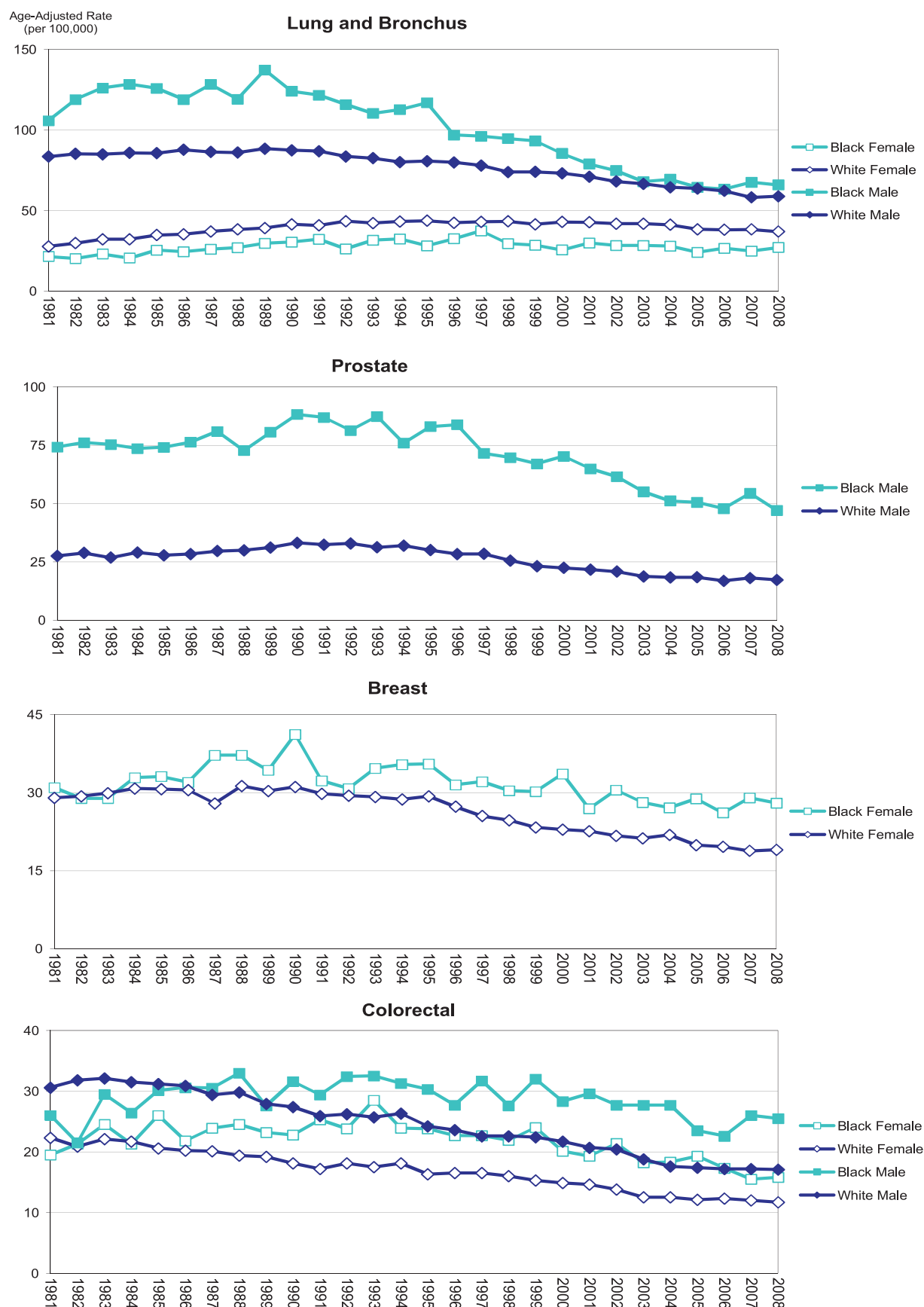
### Ovary

- The age-adjusted mortality rates for ovarian cancer decreased by 43% among black females and by 19% among white females in the last 28 years.
- Ovarian cancer mortality rates were higher among white females than among black females except in 1991 and 1994.

### Cervix

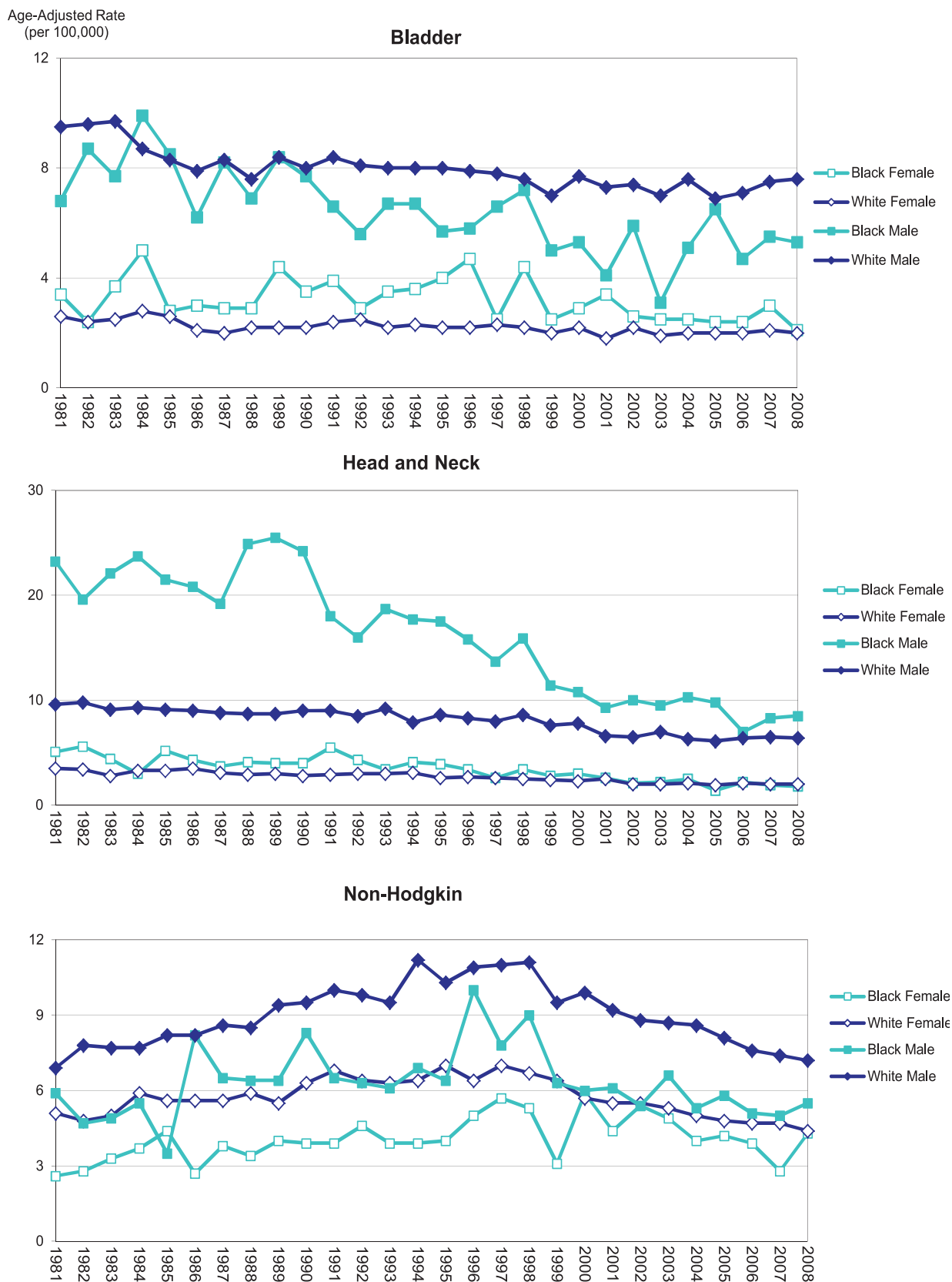
- Age-adjusted mortality rates of cervical cancer decreased by 68% among black females and by 23% among white females since 1981.
- The mortality rate among blacks was 4.8 times higher than the rate among whites in 1981 and decreased to 96% higher in 2008 due to a greater decline in mortality among blacks over the 28-year period.

**Figure 18.1 Age-Adjusted Mortality Rates by Sex and Race, Florida, 1981-2008**



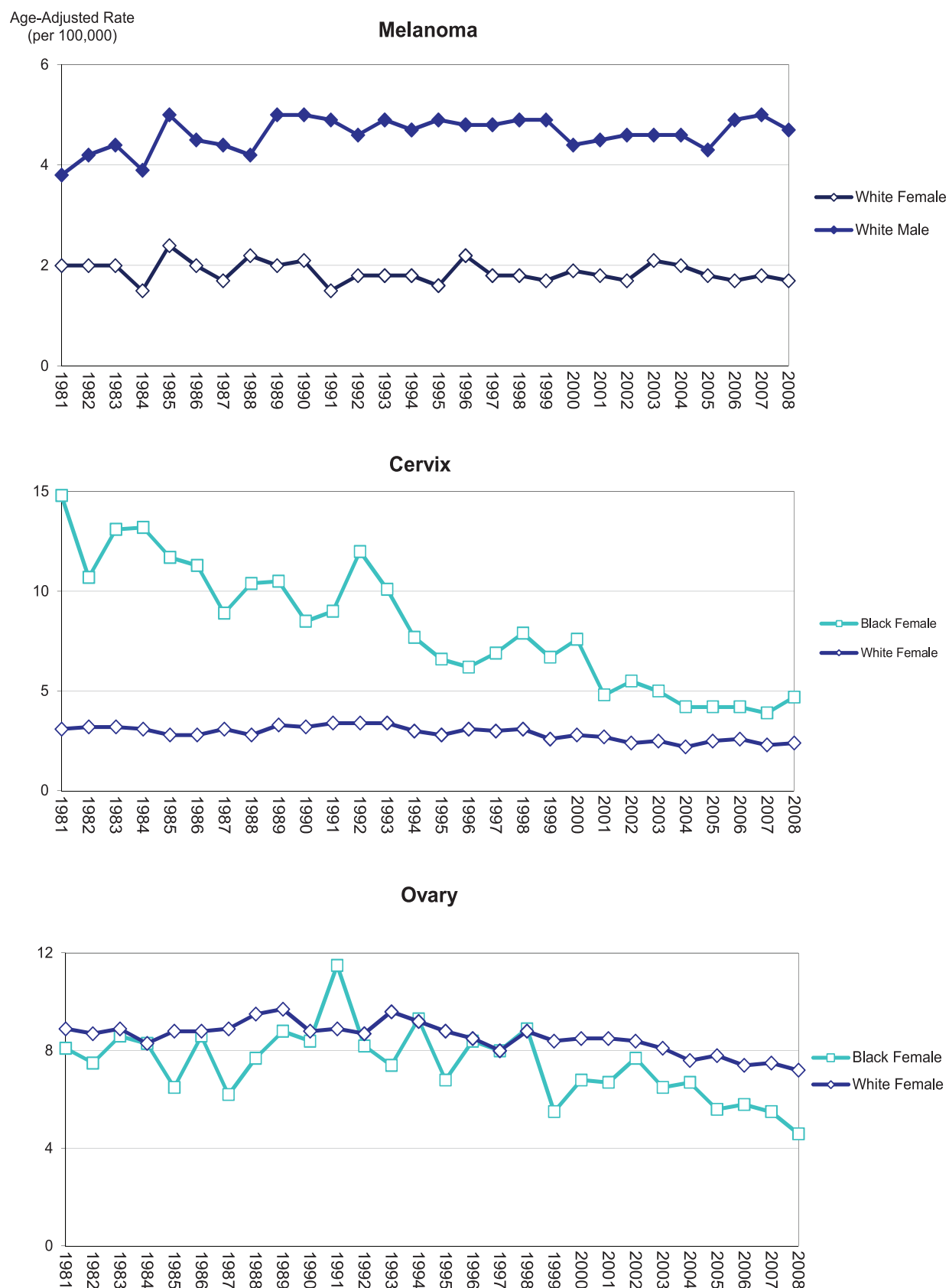


**Figure 18.2 Age-Adjusted Mortality Rates by Sex and Race, Florida, 1981-2008**



Source of data: Office of Vital Statistics

**Figure 18.3 Age-Adjusted Mortality Rates by Sex and Race, Florida, 1981-2008**



## DEATHS-TO-CASES RATIOS

### MORTALITY

The deaths-to-cases ratio is an approximate indicator of the prognosis of cancer and defined as the number of cancer deaths divided by the number of new cancer cases for the year. Ratios closer to 1.0 indicate a poorer overall prognosis than ratios closer to zero. The deaths-to-cases ratio may be greater than 1.0 because of deaths occurring in the current year of people diagnosed in previous years.

- The overall deaths-to-cases ratio in Florida was 0.39 in 2008.
- Cancer of the lung and bronchus had the highest ratio, 0.72; prostate cancer had the lowest, 0.14.
- Females had lower deaths-to-cases ratios than males for all cancers combined, cancer of the lung and bronchus, and melanoma, but a higher ratio for bladder cancer.
- Blacks had higher deaths-to-cases ratios than whites for cancer of the lung and bronchus, breast, bladder, head and neck, and cervical cancers, and a lower ratio for ovarian cancer.
- All deaths-to-cases ratios increased with age; the highest ratios were in the 65-and-older age group for all cancers combined and for all selected cancers.
- The ratios for blacks were higher than for whites in the group age 40 to 64 for all cancer combined and all the selected cancers except ovarian cancer for age group 65+.

**Table 22. Deaths-to-Cases Ratios by Sex and Race, Florida, 2008**

|              | All<br>Cancers | Lung &<br>Bronchus | Prostate | Breast | Colorectal | Bladder | Head &<br>Neck | Non-<br>Hodgkin | Melanoma | Ovary | Cervix |
|--------------|----------------|--------------------|----------|--------|------------|---------|----------------|-----------------|----------|-------|--------|
| Florida      | 0.39           | 0.72               | 0.14     | 0.19   | 0.37       | 0.23    | 0.24           | 0.36            | 0.16     | 0.64  | 0.33   |
| Female       | 0.38           | 0.68               |          | 0.19   | 0.36       | 0.27    | 0.25           | 0.36            | 0.14     | 0.64  | 0.33   |
| Male         | 0.40           | 0.76               | 0.14     |        | 0.37       | 0.22    | 0.24           | 0.37            | 0.18     |       |        |
| Black        | 0.39           | 0.78               | 0.15     | 0.26   | 0.37       | 0.33    | 0.33           | 0.38            |          | 0.53  | 0.40   |
| White        | 0.39           | 0.72               | 0.15     | 0.19   | 0.37       | 0.23    | 0.24           | 0.37            | 0.16     | 0.66  | 0.31   |
| Black Female | 0.39           | 0.82               |          | 0.26   | 0.34       | 0.40    | 0.26           | 0.36            |          | 0.53  | 0.40   |
| White Female | 0.38           | 0.68               |          | 0.19   | 0.37       | 0.27    | 0.24           | 0.36            | 0.14     | 0.66  | 0.31   |
| Black Male   | 0.39           | 0.76               | 0.15     |        | 0.40       | 0.29    | 0.36           | 0.39            |          |       |        |
| White Male   | 0.40           | 0.76               | 0.15     |        | 0.38       | 0.22    | 0.23           | 0.37            | 0.18     |       |        |

Source of data: Office of Vital Statistics and Florida Cancer Data System

**Table 23. Deaths-to-Cases Ratios by County, Florida, 2008**

|                | All<br>Cancers | Lung &<br>Bronchus | Prostate    | Breast      | Colorectal  | Bladder     | Head &<br>Neck | Non-<br>Hodgkin | Melanoma    | Ovary       | Cervix      |
|----------------|----------------|--------------------|-------------|-------------|-------------|-------------|----------------|-----------------|-------------|-------------|-------------|
| <b>Florida</b> | <b>0.39</b>    | <b>0.72</b>        | <b>0.14</b> | <b>0.19</b> | <b>0.37</b> | <b>0.23</b> | <b>0.24</b>    | <b>0.36</b>     | <b>0.16</b> | <b>0.64</b> | <b>0.33</b> |
| Alachua        | 0.37           | 0.63               | 0.09        | 0.20        | 0.45        | ^           | 0.37           | 0.27            | ^           | ^           | ^           |
| Baker          | 0.55           | 0.70               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Bay            | 0.38           | 0.82               | 0.11        | 0.18        | 0.21        | ^           | ^              | 0.33            | ^           | ^           | ^           |
| Bradford       | 0.43           | 0.74               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Brevard        | 0.39           | 0.70               | 0.15        | 0.20        | 0.36        | 0.22        | 0.21           | 0.31            | 0.17        | 0.81        | 0.36        |
| Broward        | 0.37           | 0.73               | 0.12        | 0.20        | 0.33        | 0.25        | 0.22           | 0.34            | 0.20        | 0.67        | 0.36        |
| Calhoun        | 0.56           | 1.07               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Charlotte      | 0.42           | 0.78               | 0.13        | 0.22        | 0.36        | 0.25        | ^              | 0.43            | ^           | ^           | ^           |
| Citrus         | 0.46           | 0.85               | 0.14        | 0.25        | 0.66        | 0.22        | 0.30           | 0.33            | ^           | 0.68        | ^           |
| Clay           | 0.40           | 0.71               | 0.12        | 0.15        | 0.52        | 0.20        | ^              | 0.32            | 0.38        | ^           | ^           |
| Collier        | 0.35           | 0.77               | 0.13        | 0.14        | 0.39        | 0.14        | 0.13           | 0.32            | 0.21        | 0.72        | ^           |
| Columbia       | 0.44           | 0.55               | ^           | ^           | 0.33        | ^           | ^              | ^               | ^           | ^           | ^           |
| Miami-Dade     | 0.35           | 0.67               | 0.14        | 0.19        | 0.36        | 0.29        | 0.21           | 0.28            | 0.14        | 0.64        | 0.32        |
| Desoto         | 0.36           | 0.56               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Dixie          | 0.59           | 0.80               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Duval          | 0.39           | 0.74               | 0.11        | 0.21        | 0.36        | 0.23        | 0.18           | 0.52            | 0.17        | 0.70        | 0.36        |
| Escambia       | 0.43           | 0.76               | 0.18        | 0.15        | 0.35        | 0.27        | 0.35           | 0.39            | 0.23        | 0.82        | ^           |
| Flagler        | 0.40           | 0.67               | 0.22        | 0.17        | 0.46        | ^           | ^              | 0.30            | ^           | ^           | ^           |
| Franklin       | 0.39           | 0.73               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Gadsden        | 0.53           | 1.38               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Gilchrist      | 0.29           | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Glades         | 0.37           | 0.92               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Gulf           | 0.50           | 0.85               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Hamilton       | 0.52           | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Hardee         | 0.41           | 0.52               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Hendry         | 0.39           | 0.54               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Hernando       | 0.46           | 0.80               | 0.20        | 0.24        | 0.38        | 0.28        | 0.21           | 0.42            | ^           | 0.38        | ^           |
| Highlands      | 0.37           | 0.61               | 0.35        | 0.14        | 0.24        | ^           | ^              | 0.41            | ^           | ^           | ^           |
| Hillsborough   | 0.35           | 0.73               | 0.12        | 0.20        | 0.36        | 0.21        | 0.24           | 0.34            | 0.14        | 0.56        | 0.28        |
| Holmes         | 0.52           | 1.05               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Indian River   | 0.43           | 0.75               | 0.18        | 0.25        | 0.47        | 0.18        | 0.22           | 0.57            | 0.17        | 1.00        | ^           |
| Jackson        | 0.47           | 0.70               | ^           | 0.34        | 0.46        | ^           | ^              | ^               | ^           | ^           | ^           |
| Jefferson      | 0.38           | 0.85               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Lafayette      | 0.85           | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Lake           | 0.34           | 0.60               | 0.07        | 0.17        | 0.37        | 0.22        | 0.19           | 0.30            | 0.14        | 0.41        | ^           |
| Lee            | 0.38           | 0.75               | 0.12        | 0.19        | 0.31        | 0.22        | 0.17           | 0.33            | 0.18        | 0.56        | ^           |
| Leon           | 0.39           | 0.73               | 0.16        | 0.17        | 0.40        | 0.81        | ^              | 0.59            | ^           | ^           | ^           |
| Levy           | 0.51           | 0.78               | ^           | ^           | 0.38        | ^           | ^              | ^               | ^           | ^           | ^           |
| Liberty        | 0.39           | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Madison        | 0.47           | 0.55               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Manatee        | 0.40           | 0.77               | 0.18        | 0.14        | 0.40        | 0.19        | 0.34           | 0.45            | 0.24        | 0.57        | 0.67        |
| Marion         | 0.43           | 0.78               | 0.18        | 0.19        | 0.40        | 0.21        | 0.34           | 0.38            | 0.17        | 0.62        | ^           |
| Martin         | 0.42           | 0.81               | 0.12        | 0.23        | 0.38        | 0.22        | ^              | 0.43            | 0.19        | ^           | ^           |
| Monroe         | 0.38           | 0.59               | ^           | ^           | 0.38        | ^           | ^              | ^               | ^           | ^           | ^           |
| Nassau         | 0.33           | 0.71               | ^           | 0.13        | 0.43        | ^           | ^              | ^               | ^           | ^           | ^           |
| Okaloosa       | 0.34           | 0.81               | 0.17        | 0.19        | 0.26        | ^           | 0.29           | ^               | ^           | ^           | ^           |
| Okeechobee     | 0.42           | 0.89               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Orange         | 0.34           | 0.65               | 0.16        | 0.21        | 0.34        | 0.11        | 0.25           | 0.29            | 0.20        | 0.62        | 0.18        |
| Osceola        | 0.33           | 0.66               | 0.10        | 0.21        | 0.37        | 0.24        | ^              | 0.35            | ^           | 0.61        | ^           |
| Palm Beach     | 0.37           | 0.68               | 0.15        | 0.19        | 0.36        | 0.21        | 0.25           | 0.38            | 0.12        | 0.69        | 0.35        |
| Pasco          | 0.43           | 0.82               | 0.12        | 0.13        | 0.40        | 0.24        | 0.32           | 0.40            | 0.18        | 0.57        | ^           |
| Pinellas       | 0.41           | 0.73               | 0.20        | 0.17        | 0.36        | 0.23        | 0.22           | 0.46            | 0.14        | 0.71        | 0.27        |
| Polk           | 0.34           | 0.71               | 0.14        | 0.18        | 0.27        | 0.27        | 0.19           | 0.25            | 0.16        | 0.63        | 0.29        |
| Putnam         | 0.43           | 0.87               | ^           | 0.21        | 0.25        | ^           | ^              | ^               | ^           | ^           | ^           |
| Saint Johns    | 0.40           | 0.73               | 0.12        | 0.17        | 0.42        | ^           | 0.28           | 0.59            | ^           | 0.88        | ^           |
| Saint Lucie    | 0.40           | 0.62               | 0.16        | 0.20        | 0.45        | 0.19        | 0.40           | 0.48            | 0.23        | ^           | ^           |
| Santa Rosa     | 0.40           | 0.70               | 0.15        | 0.22        | 0.54        | ^           | ^              | ^               | 0.36        | ^           | ^           |
| Sarasota       | 0.39           | 0.66               | 0.14        | 0.20        | 0.42        | 0.27        | 0.25           | 0.45            | 0.15        | 0.54        | ^           |
| Seminole       | 0.41           | 0.69               | 0.21        | 0.20        | 0.40        | 0.25        | 0.27           | 0.35            | 0.17        | 0.71        | ^           |
| Sumter         | 0.36           | 0.69               | 0.07        | 0.23        | 0.48        | ^           | 0.32           | 0.34            | ^           | 0.79        | ^           |
| Suwannee       | 0.63           | 0.67               | ^           | 0.45        | 1.06        | ^           | ^              | ^               | ^           | ^           | ^           |
| Taylor         | 0.53           | 1.00               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Union          | 0.38           | 0.69               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Volusia        | 0.47           | 0.78               | 0.32        | 0.23        | 0.40        | 0.36        | 0.32           | 0.38            | 0.10        | 0.80        | ^           |
| Wakulla        | 0.42           | 0.61               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| Walton         | 0.54           | 1.00               | 0.27        | 0.28        | 0.72        | ^           | ^              | ^               | ^           | ^           | ^           |
| Washington     | 0.73           | 1.08               | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |

^ Statistics for cells with fewer than 10 deaths are not displayed.

Source of data: Office of Vital Statistics and Florida Cancer Data System

MORTALITY

Table 24. Deaths-to-Cases Ratios by Sex, Race, and Age Group, Florida, 2008

|                     | All<br>Cancers | Lung &<br>Bronchus | Prostate    | Breast      | Colorectal  | Bladder     | Head &<br>Neck | Non-<br>Hodgkin | Melanoma    | Ovary       | Cervix      |
|---------------------|----------------|--------------------|-------------|-------------|-------------|-------------|----------------|-----------------|-------------|-------------|-------------|
| <b>Florida</b>      | <b>0.39</b>    | <b>0.72</b>        | <b>0.14</b> | <b>0.19</b> | <b>0.37</b> | <b>0.23</b> | <b>0.24</b>    | <b>0.36</b>     | <b>0.16</b> | <b>0.64</b> | <b>0.33</b> |
| 0-14                | 0.13           | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| 15-39               | 0.15           | 0.47               | ^           | 0.13        | 0.25        | ^           | 0.09           | 0.18            | 0.07        | 0.23        | 0.15        |
| 40-64               | 0.28           | 0.65               | 0.04        | 0.15        | 0.29        | 0.16        | 0.19           | 0.24            | 0.13        | 0.52        | 0.35        |
| 65+                 | 0.47           | 0.75               | 0.21        | 0.25        | 0.41        | 0.25        | 0.30           | 0.46            | 0.20        | 0.78        | 0.47        |
| <b>Female</b>       | <b>0.38</b>    | <b>0.68</b>        |             | <b>0.19</b> | <b>0.36</b> | <b>0.27</b> | <b>0.25</b>    | <b>0.36</b>     | <b>0.14</b> | <b>0.64</b> | <b>0.33</b> |
| 0-14                | 0.12           | ^                  |             | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| 15-39               | 0.13           | 0.46               |             | 0.13        | 0.27        | ^           | ^              | 0.14            | 0.05        | 0.23        | 0.15        |
| 40-64               | 0.26           | 0.59               |             | 0.15        | 0.28        | 0.17        | 0.18           | 0.19            | 0.10        | 0.52        | 0.35        |
| 65+                 | 0.48           | 0.72               |             | 0.25        | 0.40        | 0.31        | 0.31           | 0.47            | 0.19        | 0.78        | 0.47        |
| <b>Male</b>         | <b>0.40</b>    | <b>0.76</b>        | <b>0.14</b> |             | <b>0.37</b> | <b>0.22</b> | <b>0.24</b>    | <b>0.37</b>     | <b>0.18</b> |             |             |
| 0-14                | 0.13           | ^                  | ^           |             | ^           | ^           | ^              | ^               | ^           |             |             |
| 15-39               | 0.18           | 0.47               | ^           |             | 0.25        | ^           | ^              | 0.22            | 0.11        |             |             |
| 40-64               | 0.30           | 0.70               | 0.04        |             | 0.30        | 0.16        | 0.20           | 0.27            | 0.16        |             |             |
| 65+                 | 0.46           | 0.78               | 0.21        |             | 0.42        | 0.24        | 0.29           | 0.45            | 0.20        |             |             |
| <b>Black</b>        | <b>0.39</b>    | <b>0.78</b>        | <b>0.15</b> | <b>0.26</b> | <b>0.37</b> | <b>0.33</b> | <b>0.33</b>    | <b>0.38</b>     |             | <b>0.53</b> | <b>0.40</b> |
| 0-14                | 0.17           | ^                  | ^           | ^           | ^           | ^           | ^              | ^               |             | ^           | ^           |
| 15-39               | 0.22           | ^                  | ^           | 0.20        | 0.30        | ^           | ^              | 0.23            |             | ^           | ^           |
| 40-64               | 0.33           | 0.76               | 0.05        | 0.22        | 0.33        | 0.34        | 0.31           | 0.43            |             | 0.57        | 0.40        |
| 65+                 | 0.49           | 0.80               | 0.26        | 0.35        | 0.42        | 0.33        | 0.43           | 0.41            |             | 0.58        | 0.70        |
| <b>White</b>        | <b>0.39</b>    | <b>0.72</b>        | <b>0.15</b> | <b>0.19</b> | <b>0.37</b> | <b>0.23</b> | <b>0.24</b>    | <b>0.37</b>     | <b>0.16</b> | <b>0.66</b> | <b>0.31</b> |
| 0-14                | 0.12           | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| 15-39               | 0.14           | 0.42               | ^           | 0.11        | 0.24        | ^           | ^              | 0.17            | 0.07        | 0.25        | 0.13        |
| 40-64               | 0.28           | 0.64               | 0.03        | 0.14        | 0.29        | 0.15        | 0.18           | 0.21            | 0.13        | 0.52        | 0.33        |
| 65+                 | 0.47           | 0.76               | 0.21        | 0.24        | 0.41        | 0.25        | 0.29           | 0.47            | 0.20        | 0.81        | 0.44        |
| <b>Black Female</b> | <b>0.39</b>    | <b>0.82</b>        |             | <b>0.26</b> | <b>0.34</b> | <b>0.40</b> | <b>0.26</b>    | <b>0.36</b>     |             | <b>0.53</b> | <b>0.40</b> |
| 0-14                | ^              | ^                  |             | ^           | ^           | ^           | ^              | ^               |             | ^           | ^           |
| 15-39               | 0.18           | ^                  |             | 0.20        | ^           | ^           | ^              | ^               |             | ^           | ^           |
| 40-64               | 0.33           | 0.88               |             | 0.22        | 0.29        | ^           | 0.24           | 0.36            |             | 0.57        | 0.40        |
| 65+                 | 0.51           | 0.78               |             | 0.35        | 0.40        | 0.38        | 0.43           | 0.48            |             | 0.58        | 0.70        |
| <b>White Female</b> | <b>0.38</b>    | <b>0.68</b>        |             | <b>0.19</b> | <b>0.37</b> | <b>0.27</b> | <b>0.24</b>    | <b>0.36</b>     | <b>0.14</b> | <b>0.66</b> | <b>0.31</b> |
| 0-14                | 0.12           | ^                  |             | ^           | ^           | ^           | ^              | ^               | ^           | ^           | ^           |
| 15-39               | 0.12           | 0.34               |             | 0.11        | 0.26        | ^           | ^              | 0.12            | 0.05        | 0.25        | 0.13        |
| 40-64               | 0.25           | 0.57               |             | 0.14        | 0.29        | 0.15        | 0.17           | 0.16            | 0.10        | 0.52        | 0.33        |
| 65+                 | 0.48           | 0.73               |             | 0.24        | 0.41        | 0.31        | 0.31           | 0.48            | 0.19        | 0.81        | 0.44        |
| <b>Black Male</b>   | <b>0.39</b>    | <b>0.76</b>        | <b>0.15</b> |             | <b>0.40</b> | <b>0.29</b> | <b>0.36</b>    | <b>0.39</b>     |             |             |             |
| 0-14                | 0.15           | ^                  | ^           |             | ^           | ^           | ^              | ^               |             |             |             |
| 15-39               | 0.30           | ^                  | ^           |             | ^           | ^           | ^              | ^               |             |             |             |
| 40-64               | 0.33           | 0.71               | 0.05        |             | 0.37        | 0.28        | 0.33           | 0.49            |             |             |             |
| 65+                 | 0.47           | 0.80               | 0.26        |             | 0.45        | 0.30        | 0.44           | 0.35            |             |             |             |
| <b>White Male</b>   | <b>0.40</b>    | <b>0.76</b>        | <b>0.15</b> |             | <b>0.38</b> | <b>0.22</b> | <b>0.23</b>    | <b>0.37</b>     | <b>0.18</b> |             |             |
| 0-14                | 0.12           | ^                  | ^           |             | ^           | ^           | ^              | ^               | ^           |             |             |
| 15-39               | 0.17           | 0.50               | ^           |             | 0.23        | ^           | ^              | 0.22            | 0.11        |             |             |
| 40-64               | 0.30           | 0.71               | 0.03        |             | 0.30        | 0.16        | 0.19           | 0.24            | 0.16        |             |             |
| 65+                 | 0.47           | 0.79               | 0.21        |             | 0.42        | 0.24        | 0.29           | 0.46            | 0.20        |             |             |

^ Statistics for cells with fewer than 10 deaths are not displayed.

Source of data: Office of Vital Statistics and Florida Cancer Data System

## YEARS OF POTENTIAL LIFE LOST (YPLL)

- In 2008, all causes of death yielded approximately 1.34 million YPLL in Florida. Deaths from cancer were responsible for 292,661 YPLL or 22% of total YPLL.
- The cancers that contributed most to YPLL in 2008 included: cancer of the lung and bronchus, breast cancer, colorectal cancer, and non-Hodgkin lymphoma. Deaths from these four cancers accounted for 47% of the cancer YPLL in Florida in 2008.
- The average YPLL per death due to breast cancer was ten years, while the average YPLL per death due to prostate cancer was 2.4 years. Two factors contributed to this difference. There were 28% more deaths from breast cancer than from prostate cancer in 2008 and 40% of the deaths from breast cancer occurred between ages 15 and 64 compared to 9% of the deaths from prostate cancer.
- Deaths from breast, head and neck, ovarian, cervical cancers, and melanoma occurred at younger ages than deaths from the other selected cancers. In 2008, 5,582 people died from these cancers with 56,608 YPLL. The average YPLL per death due to these five cancers was 10.1 years.
- Cervical cancer had the highest average YPLL in 2008, 28.5 years per death. Although cervical cancer deaths were only 1.6% of the total cancer deaths among females, these deaths contributed 6.3% to the total female cancer YPLL.
- The YPLL due to cancer of the lung and bronchus and colorectal cancer among males accounted for 38% of total cancer YPLL for males in 2008.
- Each cancer death among blacks in 2008 resulted in an average of 11.6 YPLL, higher than the 6.9 average YPLL from cancer among whites.
- The highest average YPLL per death of the four sex-race groups for all cancers combined was 11.8 years among black females; for black males the average YPLL was 11.7 years.
- Since 1981, the average YPLL per cancer death for whites varied from 8.3% above to 7% below the YPLL from all other causes of death. For blacks, the YPLL from cancer varied between 30% and 47% less than the YPLL from all other causes of death.
- For blacks, the average YPLL from cancer decreased by 7.5% from 12.6 years in 1981 to 11.7 years in 2008; for whites, the decrease was 17% from 7.9 years in 1981 to 6.6 years in 2008.
- The average YPLL per cancer death among blacks was 60% higher than among whites in 1981. In 2008, the YPLL for blacks was 76% higher than for whites.

**Table 25. Years of Potential Life Lost Due to All Causes and Selected Cancers by Sex and by Race, Florida, 2008**

|                       | Florida (1) |         | Female  |         | Male    |         | Black   |         | White     |         |
|-----------------------|-------------|---------|---------|---------|---------|---------|---------|---------|-----------|---------|
|                       | Years       | Percent | Years   | Percent | Years   | Percent | Years   | Percent | Years     | Percent |
| All Causes of Death   | 1,340,636   | --      | 491,737 | --      | 848,156 | --      | 291,336 | --      | 1,016,529 | --      |
| All Cancers (1)       | 292,661     | 100.0   | 133,604 | 100.0   | 159,034 | 100.0   | 46,655  | 100.0   | 239,661   | 100.0   |
| Childhood Cancers (2) | 4,776       | 1.6     | 2,116   | 1.6     | 2,660   | 1.7     | 1,231   | 2.6     | 3,473     | 1.4     |
| Lung & Bronchus       | 76,180      | 26.0    | 30,993  | 23.2    | 45,187  | 28.4    | 8,928   | 19.1    | 66,190    | 27.6    |
| Prostate              | 4,919       | 1.7     |         |         | 4,919   | 3.1     | 1,193   | 2.6     | 3,634     | 1.5     |
| Breast                | 27,018      | 9.2     | 26,646  | 19.9    |         |         | 5,622   | 12.1    | 20,744    | 8.7     |
| Colorectal            | 25,070      | 8.6     | 10,577  | 7.9     | 14,493  | 9.1     | 4,875   | 10.4    | 19,664    | 8.2     |
| Bladder               | 4,127       | 1.4     | 978     | 0.7     | 3,149   | 2.0     | 452     | 1.0     | 3,606     | 1.5     |
| Head & Neck           | 9,632       | 3.3     | 2,127   | 1.6     | 7,505   | 4.7     | 1,441   | 3.1     | 7,924     | 3.3     |
| Non-Hodgkin           | 10,442      | 3.6     | 3,481   | 2.6     | 6,961   | 4.4     | 2,237   | 4.8     | 7,863     | 3.3     |
| Melanoma              | 5,921       | 2.0     | 1,925   | 1.4     | 3,996   | 2.5     |         |         | 5,850     | 2.4     |
| Ovary                 | 5,593       | 1.9     | 5,593   | 4.2     |         |         | 1,146   | 2.5     | 4,124     | 1.7     |
| Cervix                | 8,444       | 2.9     | 8,444   | 6.3     |         |         | 833     | 1.8     | 7,280     | 3.0     |
| All Other Cancers     | 115,315     | 39.4    | 42,840  | 32.1    | 72,824  | 45.8    | 19,928  | 42.7    | 92,782    | 38.7    |

(1) Florida and All Cancer totals include years lost in persons of "Other" and unknown races, and unknown sex, males with breast cancer, and blacks with melanoma.

Source of data: Office of Vital Statistics

(2) Years lost to childhood cancers are included in totals for specific cancer sites.

**Table 26 Years of Potential Life Lost Due to All Causes and Selected Cancers by Sex and Race Florida, 2008**

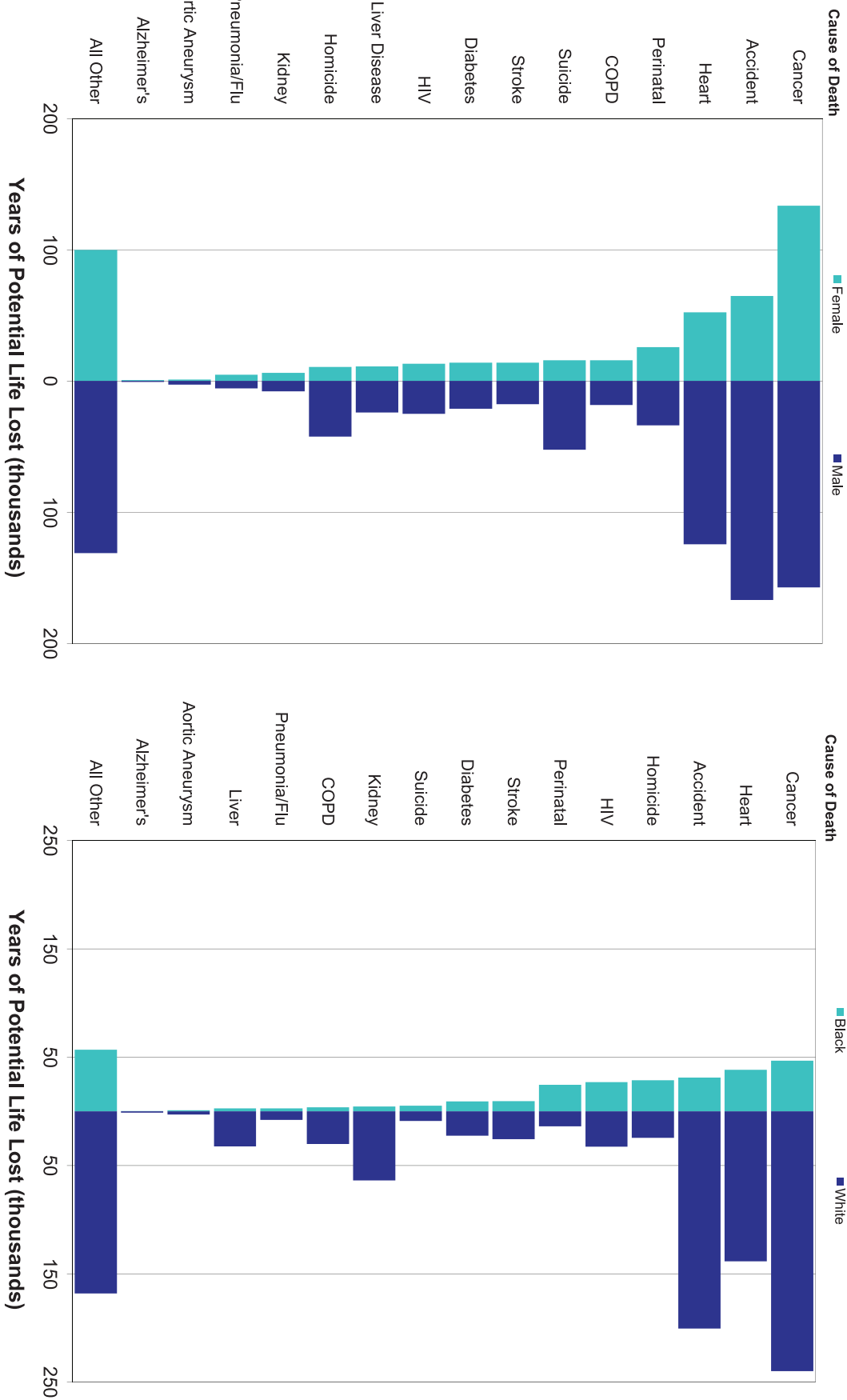
|                       | Female  |         |         |         | Male    |         |         |         |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                       | Black   |         | White   |         | Black   |         | White   |         |
|                       | Years   | Percent | Years   | Percent | Years   | Percent | Years   | Percent |
| All Causes of Death   | 116,288 | --      | 362,477 | --      | 174,977 | --      | 653,426 | --      |
| All Cancers (1)       | 21,949  | 100.0   | 108,144 | 100.0   | 24,706  | 100.0   | 131,495 | 100.0   |
| Childhood Cancers (2) | 555     | 2.5     | 1,561   | 1.4     | 676     | 2.7     | 1,912   | 1.5     |
| Lung & Bronchus       | 3,129   | 14.3    | 27,365  | 25.3    | 5,799   | 23.5    | 38,825  | 29.5    |
| Prostate              |         |         |         |         | 1,193   | 4.8     | 3,634   | 2.8     |
| Breast                | 5,521   | 25.2    | 20,473  | 18.9    |         |         |         |         |
| Colorectal            | 2,050   | 9.3     | 8,220   | 7.6     | 2,825   | 11.4    | 11,444  | 8.7     |
| Bladder               | 164     | 0.7     | 786     | 0.7     | 288     | 1.2     | 2,820   | 2.1     |
| Head & Neck           | 281     | 1.3     | 1,753   | 1.6     | 1,160   | 4.7     | 6,171   | 4.7     |
| Non-Hodgkin           | 811     | 3.7     | 2,548   | 2.4     | 1,426   | 5.8     | 5,315   | 4.0     |
| Melanoma              |         |         | 1,864   | 1.7     |         |         | 3,986   | 3.0     |
| Ovary                 | 1,146   | 5.2     | 4,124   | 3.8     |         |         |         |         |
| Cervix                | 833     | 3.8     | 7,280   | 6.7     |         |         |         |         |
| All Other Cancers     | 8,014   | 36.5    | 33,731  | 31.2    | 11,316  | 45.8    | 59,300  | 45.1    |

(1) All Cancers total includes years lost in persons of "Other" and unknown races, males with breast cancer, and blacks with melanoma.

Source of data: Office of Vital Statistics

(2) Years lost to childhood cancers are included in totals for specific cancer sites.

Figure 19. Years of Potential Life Lost by Sex and by Race, Florida, 2008



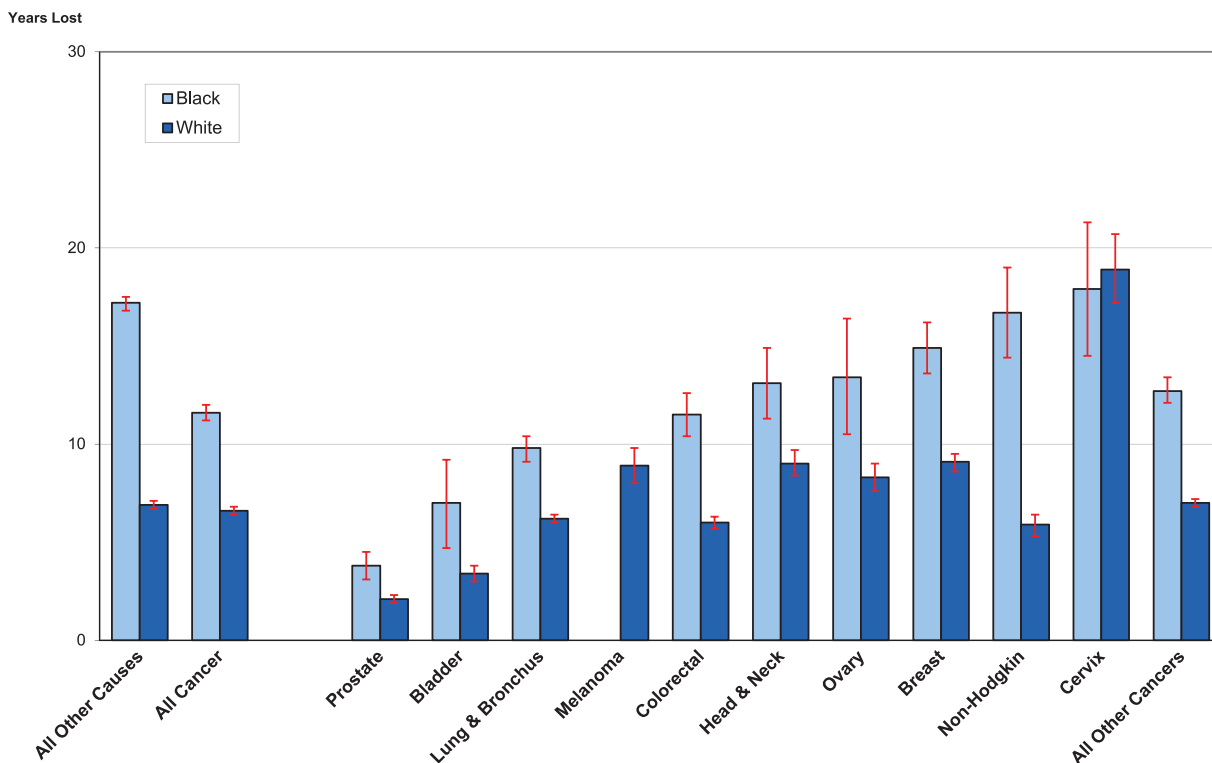
\*COPD=Chronic Obstructive Pulmonary Disease

\*\*HIV=Human Immunodeficiency Virus

Source of data: Office of Vital Statistics

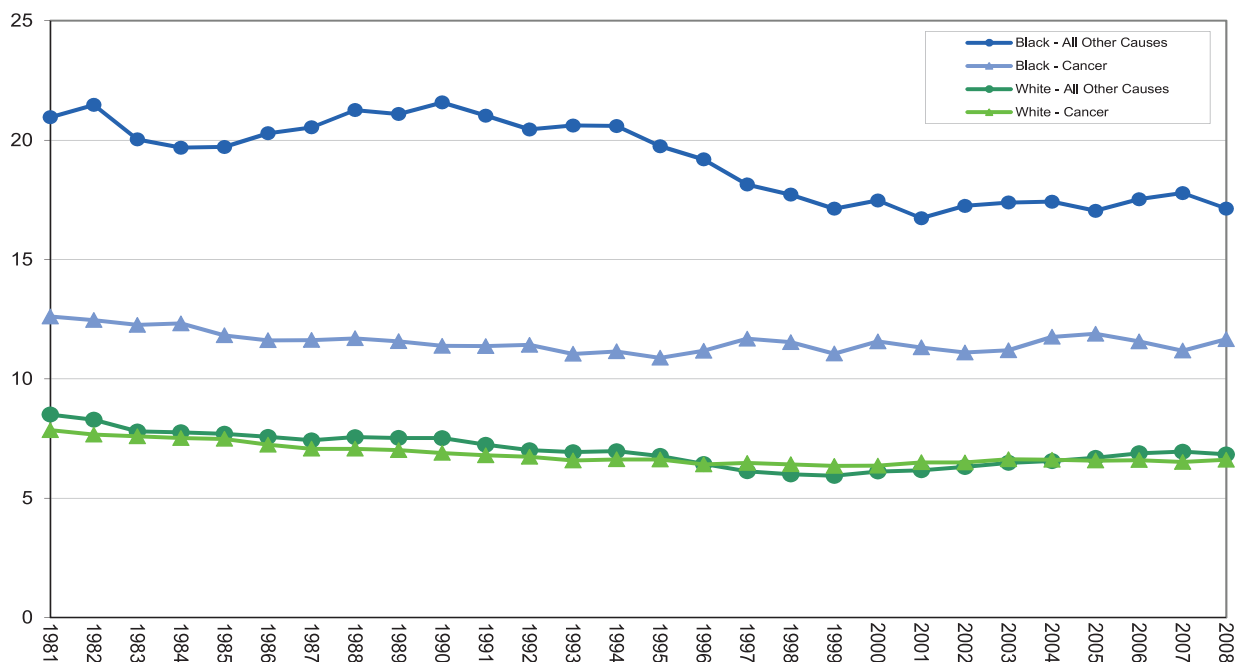


**Figure 20. Average Years of Potential Life Lost by Race and Cancer Site, Florida, 2008**



Source of data: Office of Vital Statistics

**Figure 21. Average Years of Potential Life Lost by Race, Florida, 2008**



Source of data: Office of Vital Statistics

## CANCER BY AGE Group

Cancer occurs at all ages, but types of cancer vary by age. Incidence and mortality for the cancer sites with the highest age-specific incidence rates for four age groups are presented in this section: childhood (0 to 14 years); young adults (15 to 39 years); adults (40 to 64 years); and elderly (65 years and older). Incidence and mortality for the five highest-ranked cancers for females and for males in each age group are discussed in this section.

### CHILDREN (0 TO 14 YEARS)

Cancer in children less than age 15 is a rare occurrence. For this reason, the age-specific rates for this group were calculated for a five-year period from 2004 to 2008, and expressed in cases per million population in contrast to all other rates in this report, which were calculated per 100,000 population per year.

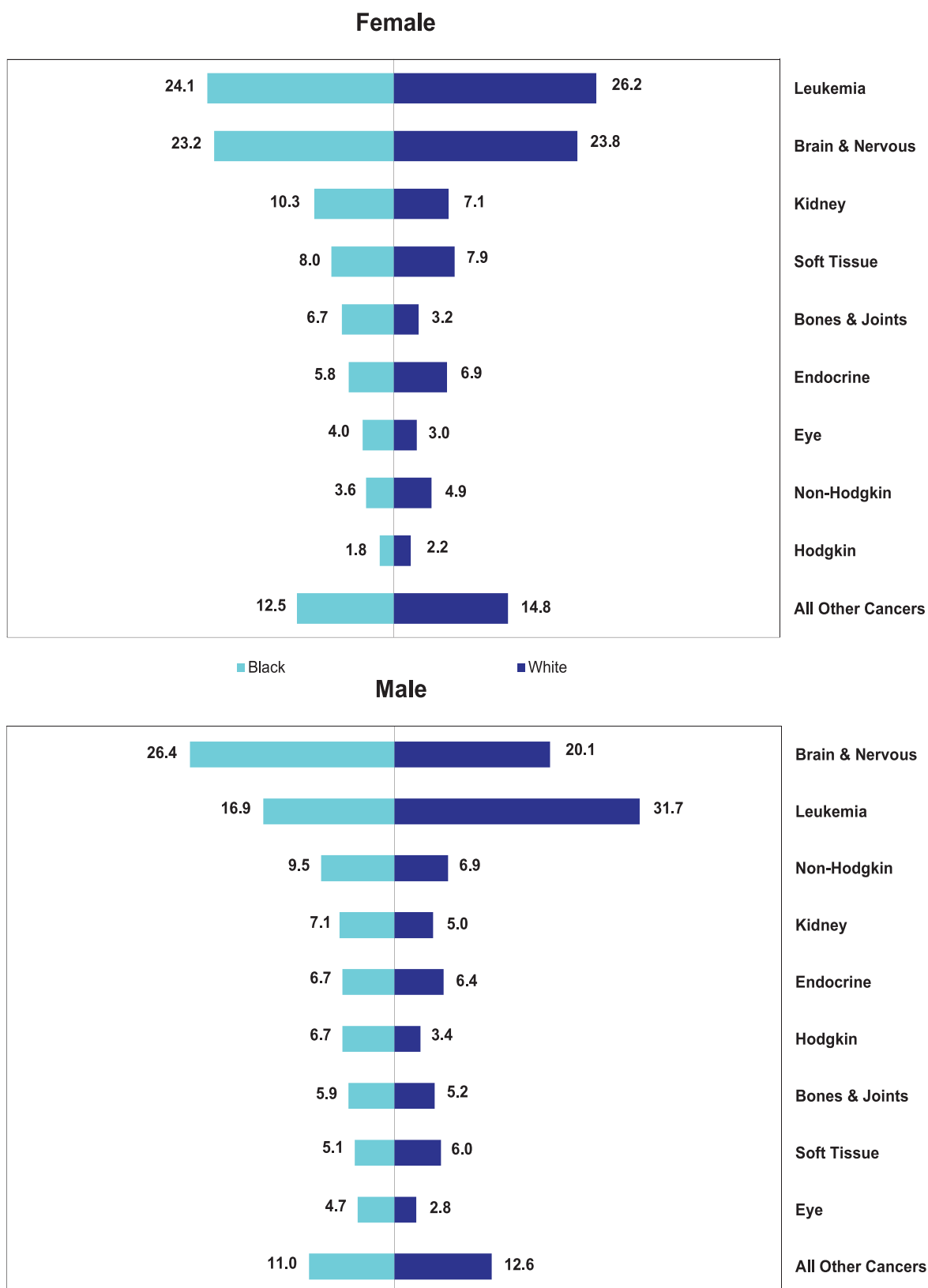
#### Incidence

- Three cancers (leukemia, brain and nervous system and soft tissue) were among the five highest-ranked in this age group for both females and males.
- The age-specific incidence rate of leukemia was higher in white males than in black males.

#### Mortality

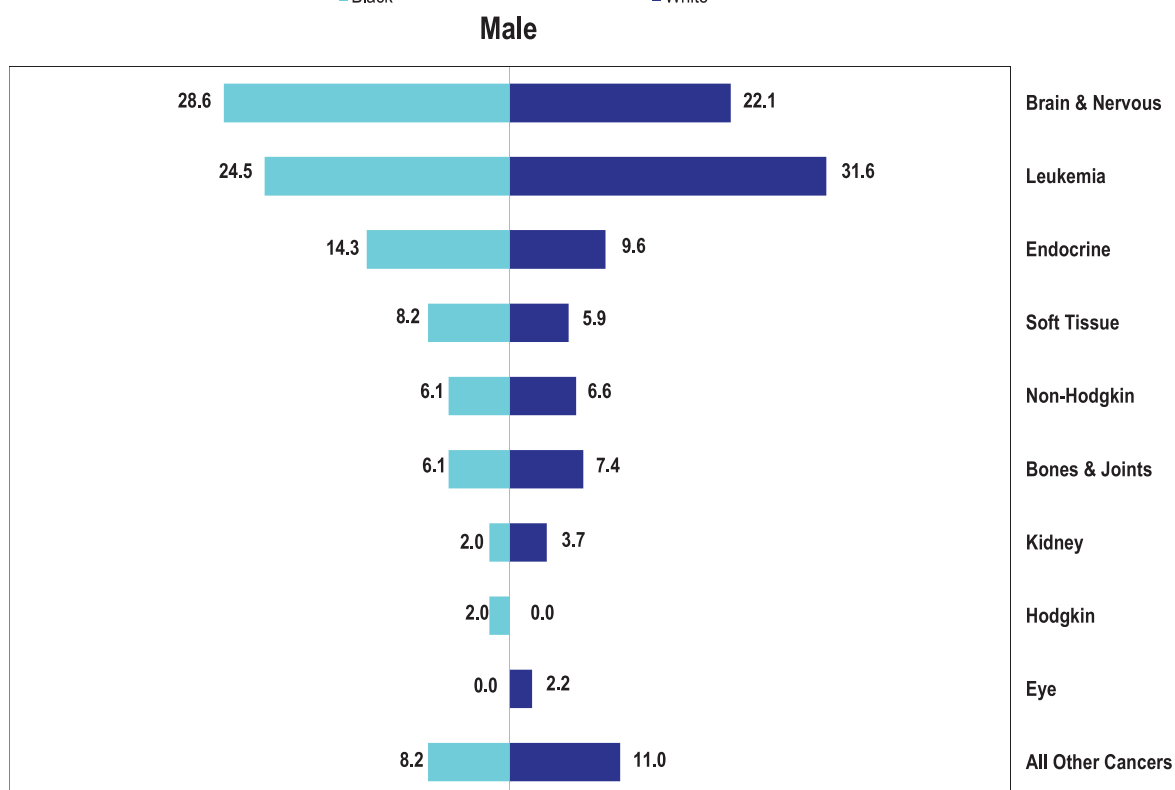
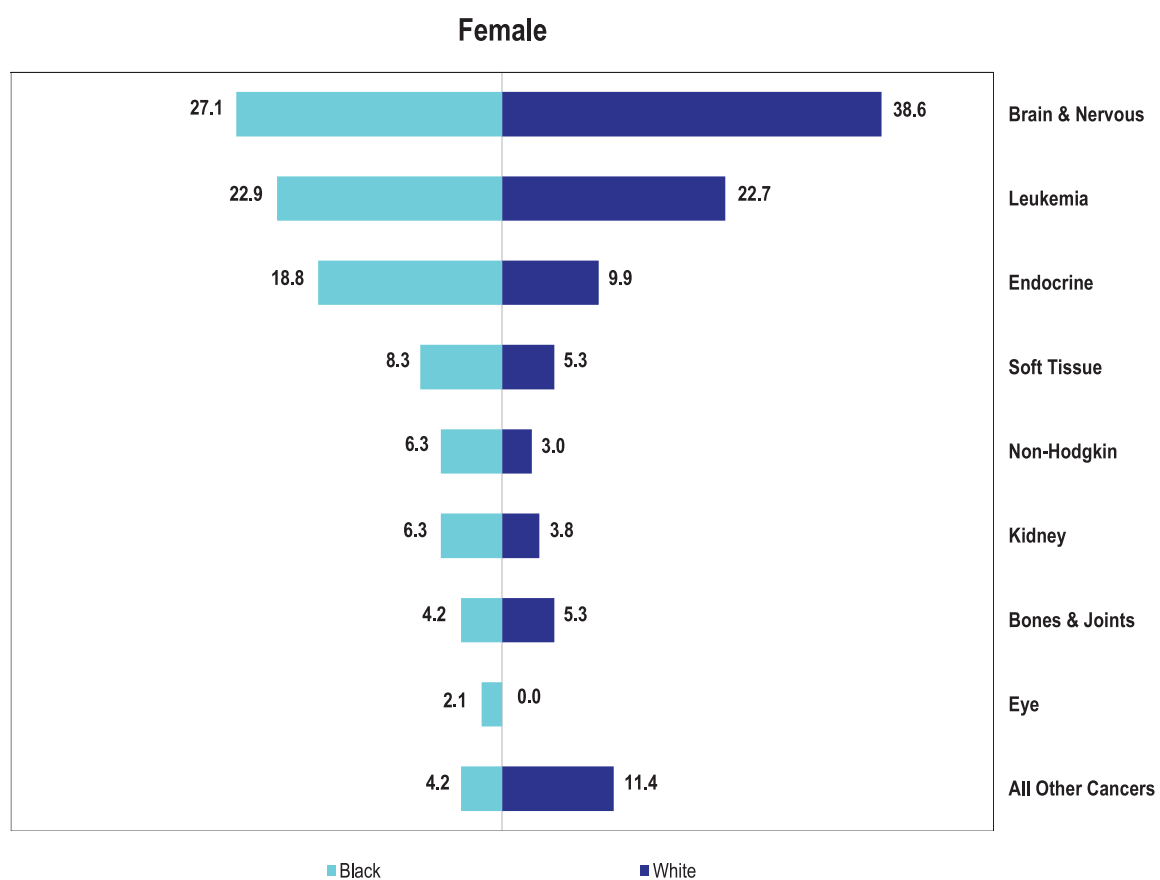
- The mortality rate for cancer of the brain and nervous system was highest among females; the mortality rate of leukemia was highest among males.
- The mortality rates for leukemia were similar in black and white males.

**Figure 22.1 Percentage of New Cancers by Sex, Race, and Site, Age 0-14, Florida, 2004-2008**



Source of data: Florida Cancer Data System

**Figure 22.2 Percentage of Cancer Deaths by Sex, Race, and Site, Age 0-14, Florida, 2004-2008**



Source of data: Office of Vital Statistics

**Table 27. Age-Specific Rates (1) of the Five Highest-Ranked Sites by Sex and Race,  
Age 0-14, Florida, 2004-2008**

| <b>Female</b>    |                |           |          |              |           |          |              |           |          |
|------------------|----------------|-----------|----------|--------------|-----------|----------|--------------|-----------|----------|
| <b>Incidence</b> | <b>Florida</b> |           |          | <b>Black</b> |           |          | <b>White</b> |           |          |
|                  | <b>Rate</b>    | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |          |
| Leukemia         | <b>36.8</b>    | 32.8      | 41.3     | <b>30.1</b>  | 22.6      | 39.2     | <b>39.4</b>  | 34.5      | 44.7     |
| Brain & Nervous  | <b>34.7</b>    | 30.8      | 39.1     | <b>29.0</b>  | 21.6      | 38.0     | <b>35.7</b>  | 31.1      | 40.8     |
| Soft Tissue      | <b>11.4</b>    | 9.2       | 14.0     | <b>10.0</b>  | 5.9       | 15.8     | <b>11.8</b>  | 9.3       | 14.9     |
| Kidney           | <b>11.1</b>    | 8.9       | 13.7     | <b>12.8</b>  | 8.1       | 19.2     | <b>10.7</b>  | 8.2       | 13.6     |
| Endocrine        | <b>10.0</b>    | 8.0       | 12.4     | <b>7.2</b>   | 3.9       | 12.4     | <b>10.3</b>  | 7.9       | 13.3     |
| <b>Mortality</b> |                |           |          |              |           |          |              |           |          |
| Leukemia         | <b>5.1</b>     | 3.6       | 6.9      | <b>6.1</b>   | 3.1       | 11.0     | <b>5.0</b>   | 3.4       | 7.1      |
| Brain & Nervous  | <b>8.3</b>     | 6.4       | 10.5     | <b>7.2</b>   | 3.9       | 12.4     | <b>8.5</b>   | 6.3       | 11.2     |
| Soft Tissue      | <b>1.5</b>     | 0.8       | 2.6      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>^</b>     | <b>^</b>  | <b>^</b> |
| Kidney           | <b>^</b>       | <b>^</b>  | <b>^</b> | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>^</b>     | <b>^</b>  | <b>^</b> |
| Endocrine        | <b>2.8</b>     | 1.8       | 4.3      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>2.2</b>   | 1.2       | 3.7      |
| <b>Male</b>      |                |           |          |              |           |          |              |           |          |
| <b>Incidence</b> | <b>Florida</b> |           |          | <b>Black</b> |           |          | <b>White</b> |           |          |
|                  | <b>Rate</b>    | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |          |
| Leukemia         | <b>49.1</b>    | 44.5      | 54.1     | <b>23.2</b>  | 16.8      | 31.2     | <b>55.4</b>  | 49.7      | 61.5     |
| Brain & Nervous  | <b>36.6</b>    | 32.6      | 40.9     | <b>36.1</b>  | 28.0      | 45.9     | <b>35.2</b>  | 30.7      | 40.1     |
| Non-Hodgkin      | <b>12.2</b>    | 9.9       | 14.8     | <b>12.9</b>  | 8.3       | 19.2     | <b>12.1</b>  | 9.5       | 15.1     |
| Endocrine        | <b>10.4</b>    | 8.4       | 12.8     | <b>9.2</b>   | 5.3       | 14.7     | <b>11.1</b>  | 8.7       | 14.1     |
| Soft Tissue      | <b>9.8</b>     | 7.8       | 12.2     | <b>7.0</b>   | 3.7       | 12.0     | <b>10.5</b>  | 8.1       | 13.4     |
| <b>Mortality</b> |                |           |          |              |           |          |              |           |          |
| Leukemia         | <b>6.9</b>     | 5.2       | 8.9      | <b>6.5</b>   | 3.3       | 11.3     | <b>6.7</b>   | 4.8       | 9.0      |
| Brain & Nervous  | <b>5.6</b>     | 4.1       | 7.4      | <b>7.5</b>   | 4.1       | 12.7     | <b>4.8</b>   | 3.2       | 6.8      |
| Non-Hodgkin      | <b>1.3</b>     | 0.6       | 2.3      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>^</b>     | <b>^</b>  | <b>^</b> |
| Endocrine        | <b>2.4</b>     | 1.4       | 3.7      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>2.1</b>   | 1.1       | 3.5      |
| Soft Tissue      | <b>1.4</b>     | 0.7       | 2.5      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>^</b>     | <b>^</b>  | <b>^</b> |

(1) Rates for children less than age 15 are calculated per million population.

<sup>^</sup> Rates are not displayed when calculated from less than 10 cases.

## YOUNG ADULTS (15 TO 39 YEARS)

### Incidence

- Breast cancer had the highest incidence rate among females in this age group followed by thyroid cancer.
- The age-specific rate of thyroid cancer among white females was more than two times the rate among black females.
- Among males, testicular cancer had the highest incidence rate; the rate among white males was 3 times higher than among black males.
- Melanoma was the third-ranked cancer among white females, second-ranked for white males, and was one of the two cancers common to both sexes in this age group.

### Mortality

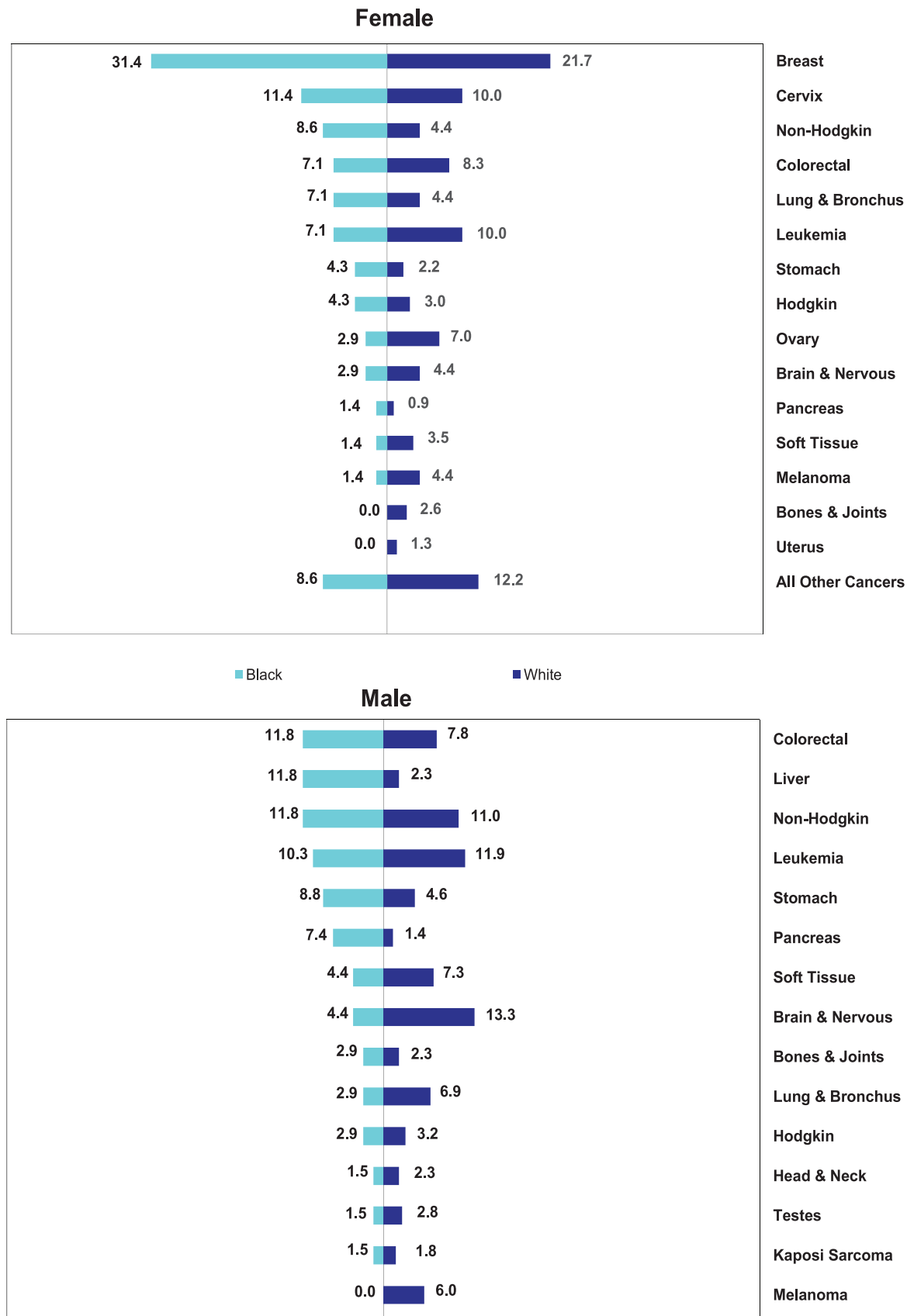
- Breast cancer had the highest mortality rate among females.
- Leukemia, ranked fourth in age-specific incidence among males, tied for the highest mortality rate with non-Hodgkin lymphoma and cancer of the brain and nervous system.

**Figure 23.1 Percentage of New Cancers by Sex, Race, and Site, Age 15-39, Florida, 2008**



Source of data: Florida Cancer Data System

**Figure 23.2 Percentage of Cancer Deaths by Sex, Race, and Site, Age 15-39, Florida, 2008**





**Table 28. Age-Specific Rates of the Five Highest-Ranked Sites by Sex and Race, Age 15-39, Florida, 2008**

| <b>Female</b>    |                |           |          |              |           |          |              |           |          |
|------------------|----------------|-----------|----------|--------------|-----------|----------|--------------|-----------|----------|
| <b>Incidence</b> | <b>Florida</b> |           |          | <b>Black</b> |           |          | <b>White</b> |           |          |
|                  | <b>Rate</b>    | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |          |
| Breast           | <b>21.4</b>    | 19.7      | 23.2     | <b>19.3</b>  | 15.9      | 23.2     | <b>21.3</b>  | 19.3      | 23.4     |
| Thyroid          | <b>15.0</b>    | 13.6      | 16.5     | <b>6.2</b>   | 4.3       | 8.6      | <b>16.5</b>  | 14.8      | 18.3     |
| Cervix           | <b>8.1</b>     | 7.1       | 9.3      | <b>7.8</b>   | 5.7       | 10.4     | <b>8.3</b>   | 7.1       | 9.6      |
| Melanoma         | <b>7.1</b>     | 6.1       | 8.1      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>9.0</b>   | 7.8       | 10.4     |
| Non-Hodgkin      | <b>4.4</b>     | 3.7       | 5.3      | <b>5.2</b>   | 3.5       | 7.4      | <b>4.2</b>   | 3.3       | 5.1      |
| <b>Mortality</b> |                |           |          |              |           |          |              |           |          |
| Breast           | <b>2.7</b>     | 2.1       | 3.4      | <b>3.8</b>   | 2.4       | 5.7      | <b>2.4</b>   | 1.8       | 3.2      |
| Thyroid          | <b>^</b>       | <b>^</b>  | <b>^</b> | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>^</b>     | <b>^</b>  | <b>^</b> |
| Cervix           | <b>1.2</b>     | 0.9       | 1.7      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>1.1</b>   | 0.7       | 1.7      |
| Melanoma         | <b>0.4</b>     | 0.2       | 0.7      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>0.5</b>   | 0.2       | 0.9      |
| Non-Hodgkin      | <b>0.6</b>     | 0.4       | 1.0      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>0.5</b>   | 0.2       | 0.9      |

| <b>Male</b>      |                |           |          |              |           |          |              |           |          |
|------------------|----------------|-----------|----------|--------------|-----------|----------|--------------|-----------|----------|
| <b>Incidence</b> | <b>Florida</b> |           |          | <b>Black</b> |           |          | <b>White</b> |           |          |
|                  | <b>Rate</b>    | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |          |
| Testes           | <b>10.3</b>    | 9.1       | 11.5     | <b>2.6</b>   | 1.4       | 4.3      | <b>11.9</b>  | 10.5      | 13.4     |
| Non-Hodgkin      | <b>5.3</b>     | 4.5       | 6.2      | <b>5.4</b>   | 3.6       | 7.6      | <b>5.0</b>   | 4.1       | 6.0      |
| Melanoma         | <b>4.5</b>     | 3.8       | 5.4      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>5.7</b>   | 4.7       | 6.7      |
| Lukemia          | <b>4.2</b>     | 3.5       | 5.0      | <b>4.3</b>   | 2.8       | 6.4      | <b>4.1</b>   | 3.3       | 5.1      |
| Colorectal       | <b>3.7</b>     | 3.0       | 4.5      | <b>4.3</b>   | 2.8       | 6.4      | <b>3.4</b>   | 2.7       | 4.3      |
| Brain & Nervous  | <b>3.7</b>     | 3.0       | 4.5      | <b>1.0</b>   | 0.4       | 2.3      | <b>4.4</b>   | 3.6       | 5.4      |
| <b>Mortality</b> |                |           |          |              |           |          |              |           |          |
| Testes           | <b>^</b>       | <b>^</b>  | <b>^</b> | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>^</b>     | <b>^</b>  | <b>^</b> |
| Non-Hodgkin      | <b>1.2</b>     | 0.8       | 1.6      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>1.1</b>   | 0.7       | 1.6      |
| Melanoma         | <b>0.5</b>     | 0.2       | 0.8      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>0.6</b>   | 0.3       | 1.0      |
| Leukemia         | <b>1.2</b>     | 0.8       | 1.6      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>1.2</b>   | 0.8       | 1.8      |
| Colorectal       | <b>0.9</b>     | 0.6       | 1.3      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>0.8</b>   | 0.5       | 1.3      |
| Brain & Nervous  | <b>1.2</b>     | 0.8       | 1.6      | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>1.3</b>   | 0.9       | 1.9      |

^ Rates are not displayed when calculated from less than 10 cases.

## ADULTS (40 TO 64 YEARS)

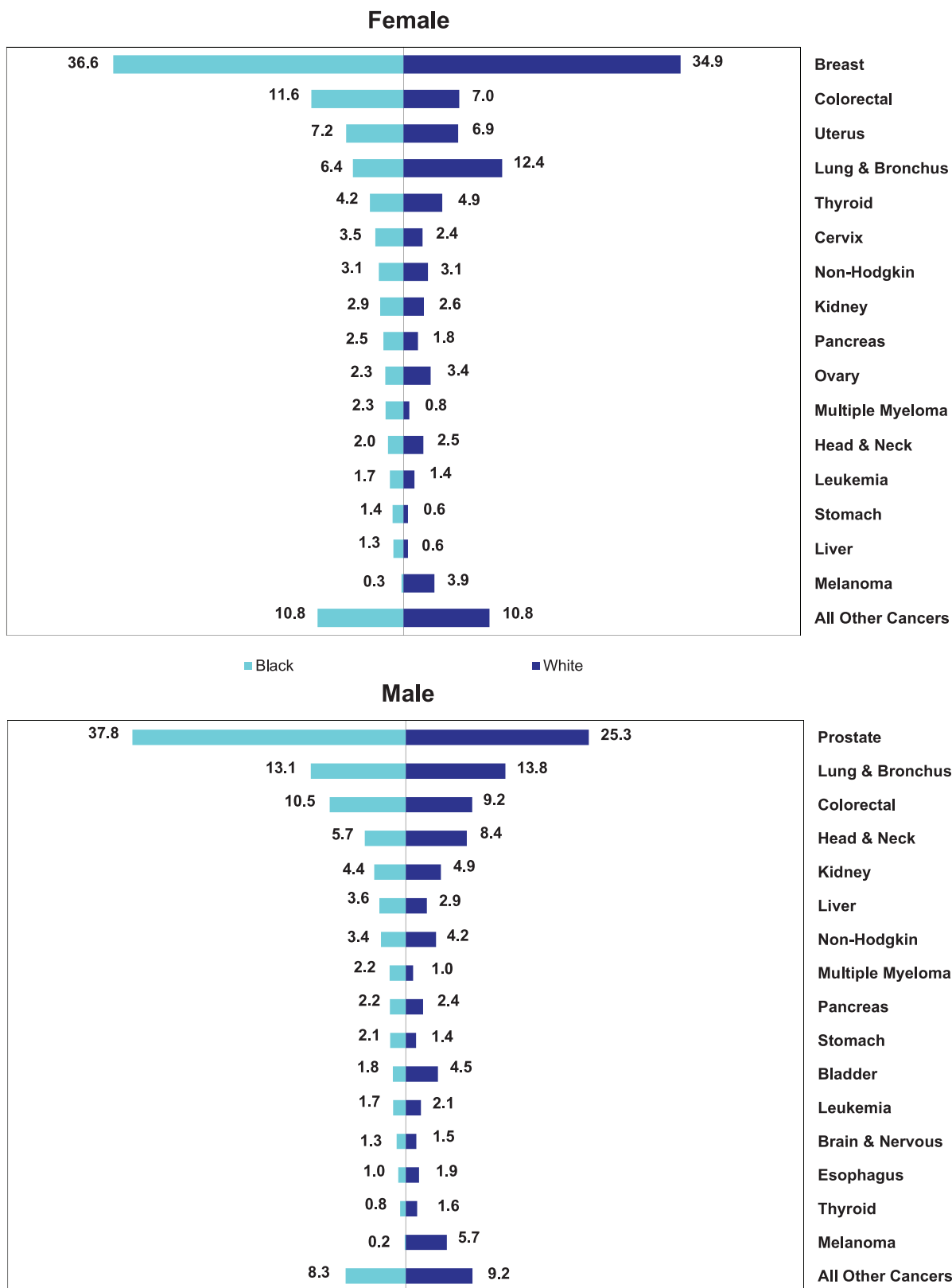
### Incidence

- Breast cancer had the highest age-specific incidence rates in both black and white females. Cancer of the lung and bronchus ranked second for white females; colorectal cancer ranked second for black females.
- White females had higher rates of breast and thyroid cancers and cancer of the lung and bronchus than black females.
- Black females had higher incidence rates of colorectal cancer than white females.
- Prostate cancer ranked highest for both black and white males; the rate for black males was higher than for whites.
- Black males had a lower rate of cancer of the head and neck than white males.

### Mortality

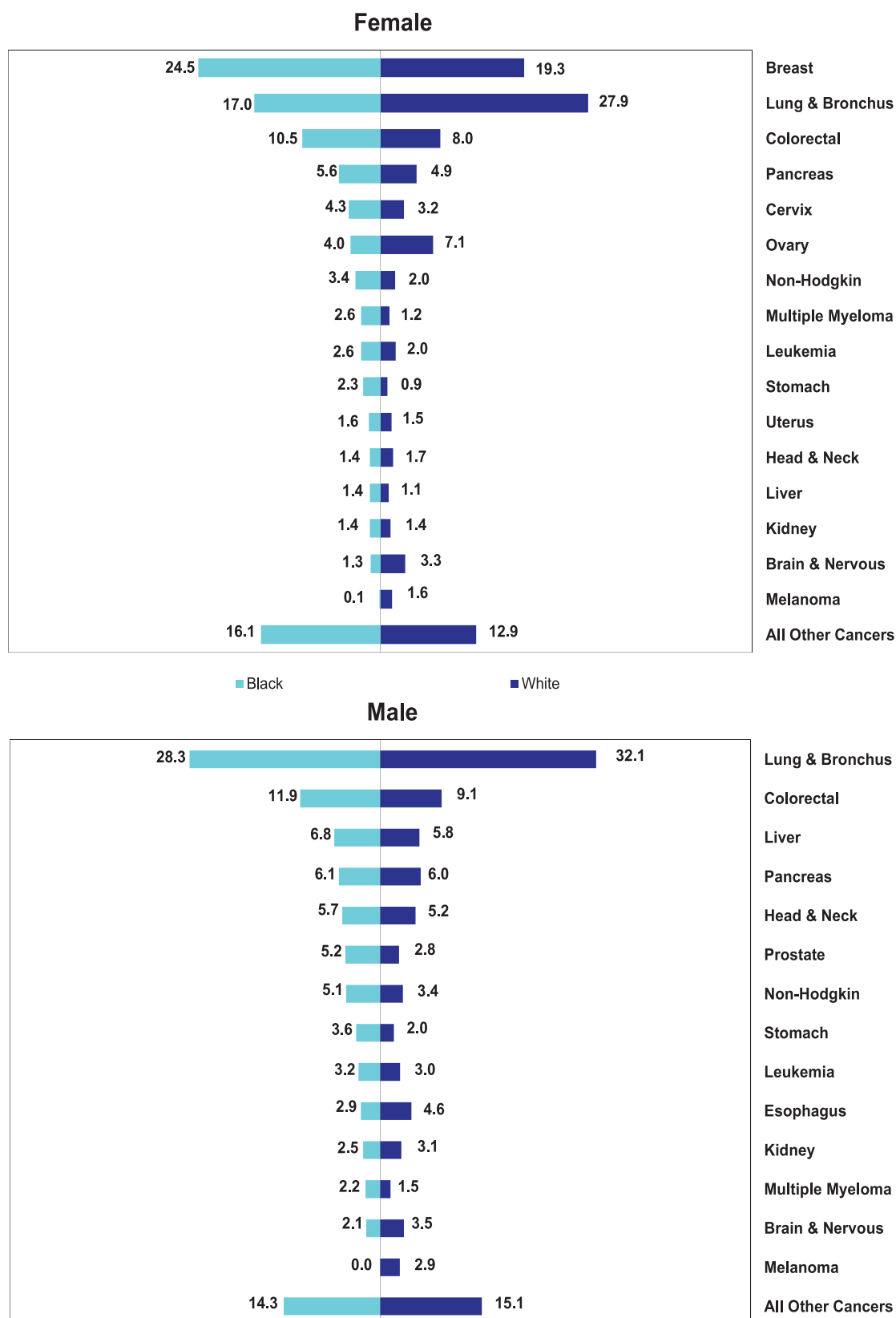
- In males of both races and in white females, cancer of the lung and bronchus had the highest mortality rates in this age group. For black females, the mortality rate for breast cancer was highest.
- Black males had a higher mortality rate of prostate cancer than white males.

**Figure 24.1 Percentage of New Cancers by Sex, Race, and Site, Age 40-64, Florida, 2008**



Source of data: Florida Cancer Data System

**Figure 24.2 Percentage of Cancer Deaths by Sex, Race, and Site, Age 40-64, Florida, 2008**



Source of data: Office of Vital Statistics

**Table 29. Age-Specific Rates of the Five Highest-Ranked Sites by Sex and Race,  
Age 40-64, Florida, 2008**

| <b>Female</b>    |                |           |       |              |           |       |              |           |       |
|------------------|----------------|-----------|-------|--------------|-----------|-------|--------------|-----------|-------|
| <b>Incidence</b> | <b>Florida</b> |           |       | <b>Black</b> |           |       | <b>White</b> |           |       |
|                  | <b>Rate</b>    | <b>CI</b> |       | <b>Rate</b>  | <b>CI</b> |       | <b>Rate</b>  | <b>CI</b> |       |
| Breast           | <b>205.2</b>   | 200.3     | 210.2 | <b>177.6</b> | 165.9     | 189.9 | <b>206.8</b> | 201.3     | 212.3 |
| Lung & Bronchus  | <b>66.6</b>    | 63.8      | 69.5  | <b>30.9</b>  | 26.1      | 36.3  | <b>73.7</b>  | 70.5      | 77.0  |
| Colorectal       | <b>44.4</b>    | 42.1      | 46.7  | <b>56.4</b>  | 49.9      | 63.5  | <b>41.7</b>  | 39.3      | 44.2  |
| Uterus           | <b>40.1</b>    | 38.0      | 42.4  | <b>35.0</b>  | 29.9      | 40.7  | <b>40.8</b>  | 38.4      | 43.3  |
| Thyroid          | <b>28.3</b>    | 26.5      | 30.2  | <b>20.5</b>  | 16.7      | 25.0  | <b>29.0</b>  | 26.9      | 31.1  |
| <b>Mortality</b> |                |           |       |              |           |       |              |           |       |
| Breast           | <b>30.4</b>    | 28.6      | 32.4  | <b>39.2</b>  | 33.8      | 45.2  | <b>29.0</b>  | 26.9      | 31.1  |
| Lung & Bronchus  | <b>39.2</b>    | 37.0      | 41.4  | <b>27.1</b>  | 22.7      | 32.2  | <b>41.8</b>  | 39.4      | 44.4  |
| Colorectal       | <b>12.6</b>    | 11.4      | 13.9  | <b>16.4</b>  | 13.0      | 20.4  | <b>11.9</b>  | 10.6      | 13.3  |
| Uterus           | <b>2.2</b>     | 1.7       | 2.8   | <b>2.5</b>   | 1.3       | 4.3   | <b>2.2</b>   | 1.7       | 2.9   |
| Thyroid          | <b>0.4</b>     | 0.2       | 0.7   | <b>0.4</b>   | 0.1       | 1.5   | <b>0.3</b>   | 0.2       | 0.6   |

| <b>Male</b>      |                |           |       |              |           |          |              |           |       |
|------------------|----------------|-----------|-------|--------------|-----------|----------|--------------|-----------|-------|
| <b>Incidence</b> | <b>Florida</b> |           |       | <b>Black</b> |           |          | <b>White</b> |           |       |
|                  | <b>Rate</b>    | <b>CI</b> |       | <b>Rate</b>  | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |       |
| Prostate         | <b>172.9</b>   | 168.3     | 177.6 | <b>240.8</b> | 226.1     | 256.3    | <b>160.3</b> | 155.4     | 165.3 |
| Lung & Bronchus  | <b>86.8</b>    | 83.5      | 90.1  | <b>83.7</b>  | 75.1      | 93.0     | <b>87.1</b>  | 83.6      | 90.8  |
| Colorectal       | <b>60.5</b>    | 57.8      | 63.3  | <b>66.9</b>  | 59.2      | 75.3     | <b>58.3</b>  | 55.4      | 61.3  |
| Head & Neck      | <b>51.6</b>    | 49.1      | 54.2  | <b>36.0</b>  | 30.4      | 42.3     | <b>53.4</b>  | 50.6      | 56.3  |
| Melanoma         | <b>31.5</b>    | 29.6      | 33.6  | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>36.0</b>  | 33.8      | 38.4  |
| <b>Mortality</b> |                |           |       |              |           |          |              |           |       |
| Prostate         | <b>6.1</b>     | 5.2       | 7.0   | <b>10.9</b>  | 8.0       | 14.6     | <b>5.3</b>   | 4.5       | 6.3   |
| Lung & Bronchus  | <b>61.0</b>    | 58.3      | 63.8  | <b>59.6</b>  | 52.4      | 67.5     | <b>61.9</b>  | 58.9      | 65.0  |
| Colorectal       | <b>18.3</b>    | 16.8      | 19.8  | <b>24.6</b>  | 20.0      | 29.9     | <b>17.4</b>  | 15.9      | 19.1  |
| Head & Neck      | <b>10.3</b>    | 9.2       | 11.5  | <b>11.9</b>  | 8.8       | 15.8     | <b>10.1</b>  | 8.9       | 11.4  |
| Melanoma         | <b>4.7</b>     | 4.0       | 5.6   | <b>^</b>     | <b>^</b>  | <b>^</b> | <b>5.6</b>   | 4.7       | 6.6   |

^ Rates are not displayed when calculated from less than 10 cases.

## ELDERLY (65+ YEARS)

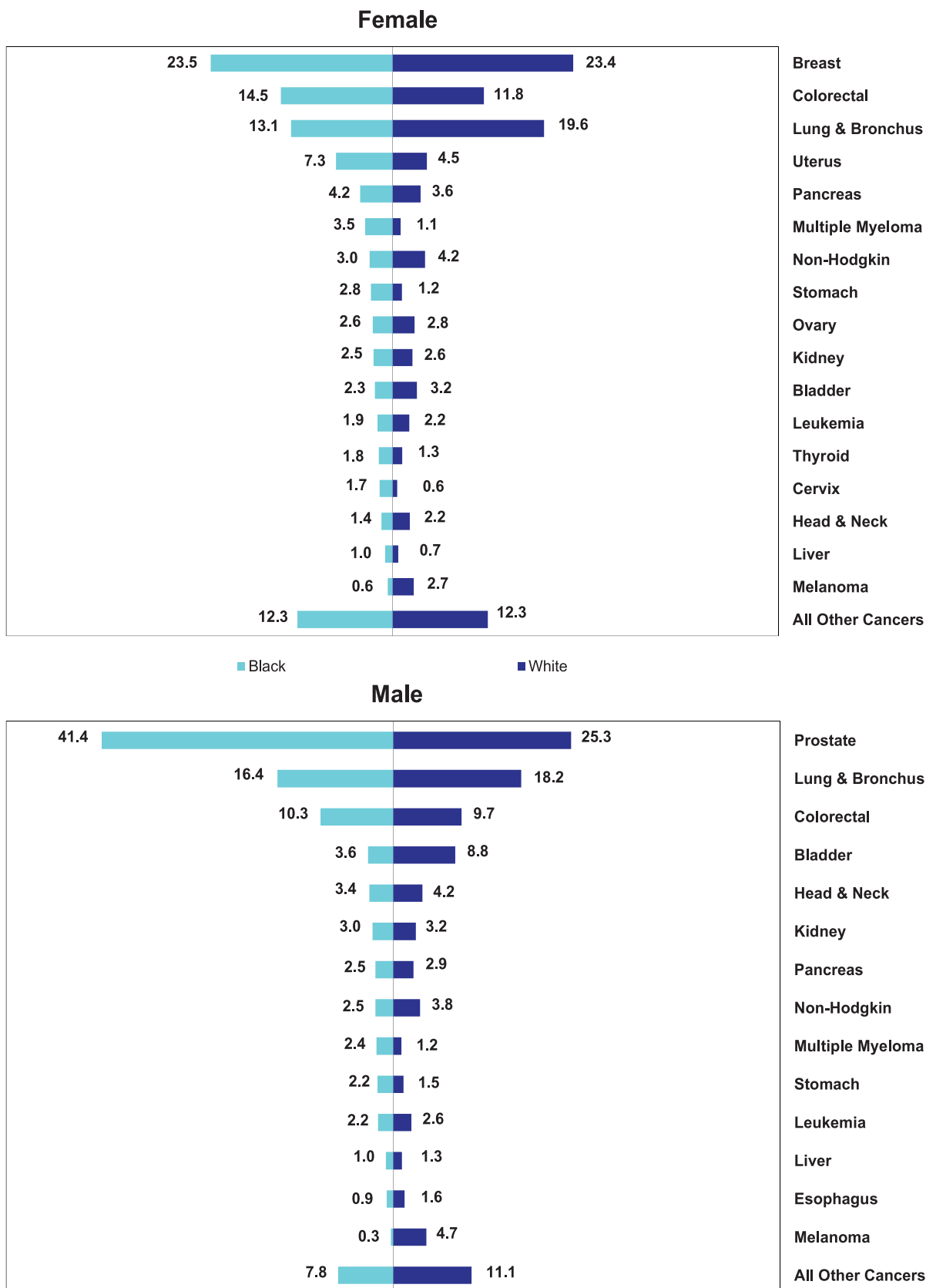
### Incidence

- White females had higher age-specific incidence rates of cancer of the lung and bronchus and non-Hodgkin lymphoma than black females.
- Black females had higher rates of colorectal and uterine cancers than white females.
- Prostate cancer had the highest incidence rates among males of both races; black males had a higher rate than white males.
- White males had a higher incidence rate of bladder cancer than black males.
- Black males had a higher incidence rate of colorectal cancer than white males.

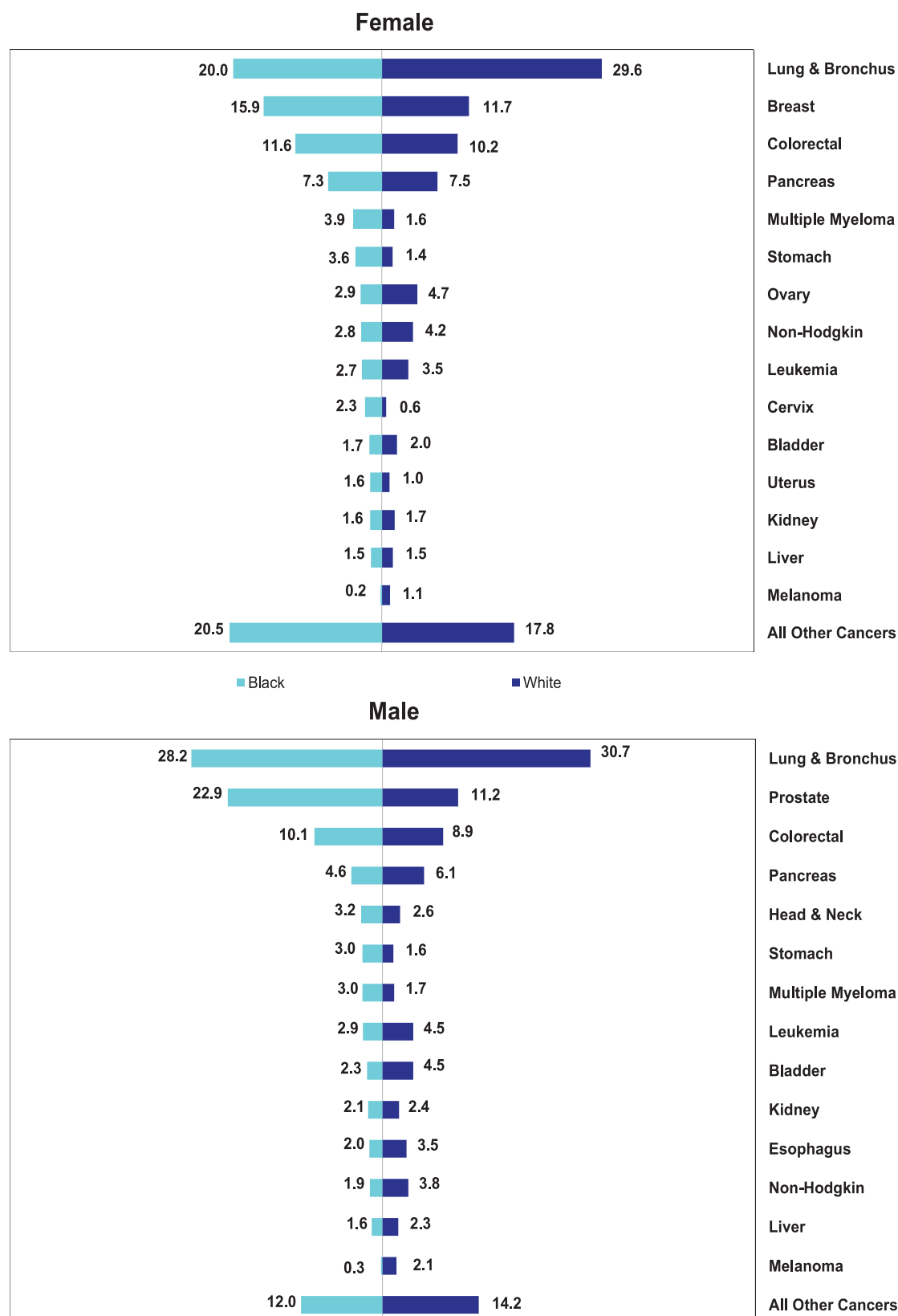
### Mortality

- Cancer of the lung and bronchus had the highest age-specific mortality rate for all sex-race groups.
- The mortality rate of cancer of the lung and bronchus among white females was higher than the rate among black females.
- The mortality rate for prostate cancer among black males was almost twice the rate among whites.
- White males had a mortality rate for bladder cancer nearly twice the rate among black males.

**Figure 25.1 Percentage of New Cancers by Sex, Race, and Site, Age 65+, Florida, 2008**



**Figure 25.2 Percentage of Cancer Deaths by Sex, Race, and Site, Age 65+, Florida, 2008**



Source of data: Office of Vital Statistics



**Table 30. Age-specific Rates of the Five Highest-ranked Sites by Sex and Race,  
Age 65+, Florida, 2008**

| <b>Female</b>    |                |           |       |              |           |       |              |           |       |
|------------------|----------------|-----------|-------|--------------|-----------|-------|--------------|-----------|-------|
| <b>Incidence</b> | <b>Florida</b> |           |       | <b>Black</b> |           |       | <b>White</b> |           |       |
|                  | <b>Rate</b>    | <b>CI</b> |       | <b>Rate</b>  | <b>CI</b> |       | <b>Rate</b>  | <b>CI</b> |       |
| Breast           | <b>352.1</b>   | 343.6     | 360.7 | <b>332.7</b> | 302.9     | 364.5 | <b>347.8</b> | 339.0     | 356.8 |
| Lung & Bronchus  | <b>285.6</b>   | 278.0     | 293.4 | <b>185.9</b> | 163.8     | 210.0 | <b>291.5</b> | 283.5     | 299.7 |
| Colorectal       | <b>180.5</b>   | 174.4     | 186.7 | <b>204.7</b> | 181.5     | 229.9 | <b>175.5</b> | 169.3     | 181.9 |
| Uterus           | <b>70.2</b>    | 66.4      | 74.1  | <b>103.4</b> | 87.2      | 121.8 | <b>66.3</b>  | 62.5      | 70.2  |
| Non-Hodgkin      | <b>62.2</b>    | 58.7      | 65.9  | <b>41.9</b>  | 31.8      | 54.2  | <b>62.5</b>  | 58.8      | 66.4  |
| <b>Mortality</b> |                |           |       |              |           |       |              |           |       |
| Breast           | <b>86.5</b>    | 82.3      | 90.8  | <b>115.7</b> | 98.5      | 135.1 | <b>84.0</b>  | 79.7      | 88.5  |
| Lung & Bronchus  | <b>206.8</b>   | 200.3     | 213.4 | <b>145.4</b> | 126.0     | 166.9 | <b>212.2</b> | 205.3     | 219.2 |
| Colorectal       | <b>72.4</b>    | 68.6      | 76.4  | <b>81.7</b>  | 67.3      | 98.2  | <b>71.5</b>  | 67.6      | 75.7  |
| Uterus           | <b>7.5</b>     | 6.3       | 8.8   | <b>11.6</b>  | 6.6       | 18.8  | <b>7.2</b>   | 5.9       | 8.5   |
| Non-Hodgkin      | <b>29.2</b>    | 26.8      | 31.7  | <b>20.2</b>  | 13.5      | 29.3  | <b>29.9</b>  | 27.3      | 32.6  |

| <b>Male</b>      |                |           |       |               |           |          |              |           |       |
|------------------|----------------|-----------|-------|---------------|-----------|----------|--------------|-----------|-------|
| <b>Incidence</b> | <b>Florida</b> |           |       | <b>Black</b>  |           |          | <b>White</b> |           |       |
|                  | <b>Rate</b>    | <b>CI</b> |       | <b>Rate</b>   | <b>CI</b> |          | <b>Rate</b>  | <b>CI</b> |       |
| Prostate         | <b>640.8</b>   | 627.7     | 654.0 | <b>1119.9</b> | 1052.9    | 1190.1   | <b>594.7</b> | 581.6     | 608.1 |
| Lung & Bronchus  | <b>431.2</b>   | 420.5     | 442.1 | <b>444.1</b>  | 402.2     | 489.1    | <b>427.8</b> | 416.7     | 439.2 |
| Colorectal       | <b>234.5</b>   | 226.6     | 242.6 | <b>279.2</b>  | 246.2     | 315.3    | <b>228.1</b> | 220.0     | 236.4 |
| Bladder          | <b>201.9</b>   | 194.6     | 209.4 | <b>97.0</b>   | 78.0      | 119.2    | <b>207.4</b> | 199.7     | 215.3 |
| Melanoma         | <b>106.4</b>   | 101.1     | 111.9 | <b>^</b>      | <b>^</b>  | <b>^</b> | <b>111.0</b> | 105.3     | 116.8 |
| <b>Mortality</b> |                |           |       |               |           |          |              |           |       |
| Prostate         | <b>133.4</b>   | 127.4     | 139.5 | <b>288.9</b>  | 255.3     | 325.6    | <b>122.5</b> | 116.6     | 128.7 |
| Lung & Bronchus  | <b>337.0</b>   | 327.5     | 346.6 | <b>356.8</b>  | 319.4     | 397.4    | <b>336.7</b> | 326.9     | 346.8 |
| Colorectal       | <b>97.7</b>    | 92.6      | 102.9 | <b>126.1</b>  | 104.3     | 151.1    | <b>95.5</b>  | 90.3      | 101.0 |
| Bladder          | <b>48.2</b>    | 44.7      | 52.0  | <b>29.1</b>   | 19.2      | 42.3     | <b>49.5</b>  | 45.8      | 53.5  |
| Melanoma         | <b>21.1</b>    | 18.8      | 23.6  | <b>^</b>      | <b>^</b>  | <b>^</b> | <b>22.6</b>  | 20.1      | 25.3  |

<sup>^</sup> Rates are not displayed when calculated from less than 10 cases.

# TOBACCO-RELATED CANCERS

The cancers known to be associated with tobacco use are: acute myeloid leukemia, trachea, lung and bronchus, lip, oral cavity, pharynx, larynx, esophagus, pancreas, cervix, urinary bladder, kidney and renal pelvis, and stomach.

TOBACCO

The risk of dying from these cancers depends on an individual's smoking status, sex, age, environmental exposure, genetics, the stage at diagnosis and the quality of treatment. A portion of deaths from tobacco-related cancers at age 35 and older can be attributed to tobacco use. According to the CDC, the relative risks of death for current smokers range from 13% higher for acute myeloid leukemia among female smokers, to 22 times higher for cancers of the trachea and lung and bronchus among male smokers than for their counterparts who never smoked. The relative risk decreases significantly for former smokers. Quitting smoking can significantly reduce the risks for these cancers. More information about smoking-attributable cancer is available at the CDC web site: [www.apps.nccd.cdc.gov/sammec/](http://www.apps.nccd.cdc.gov/sammec/).

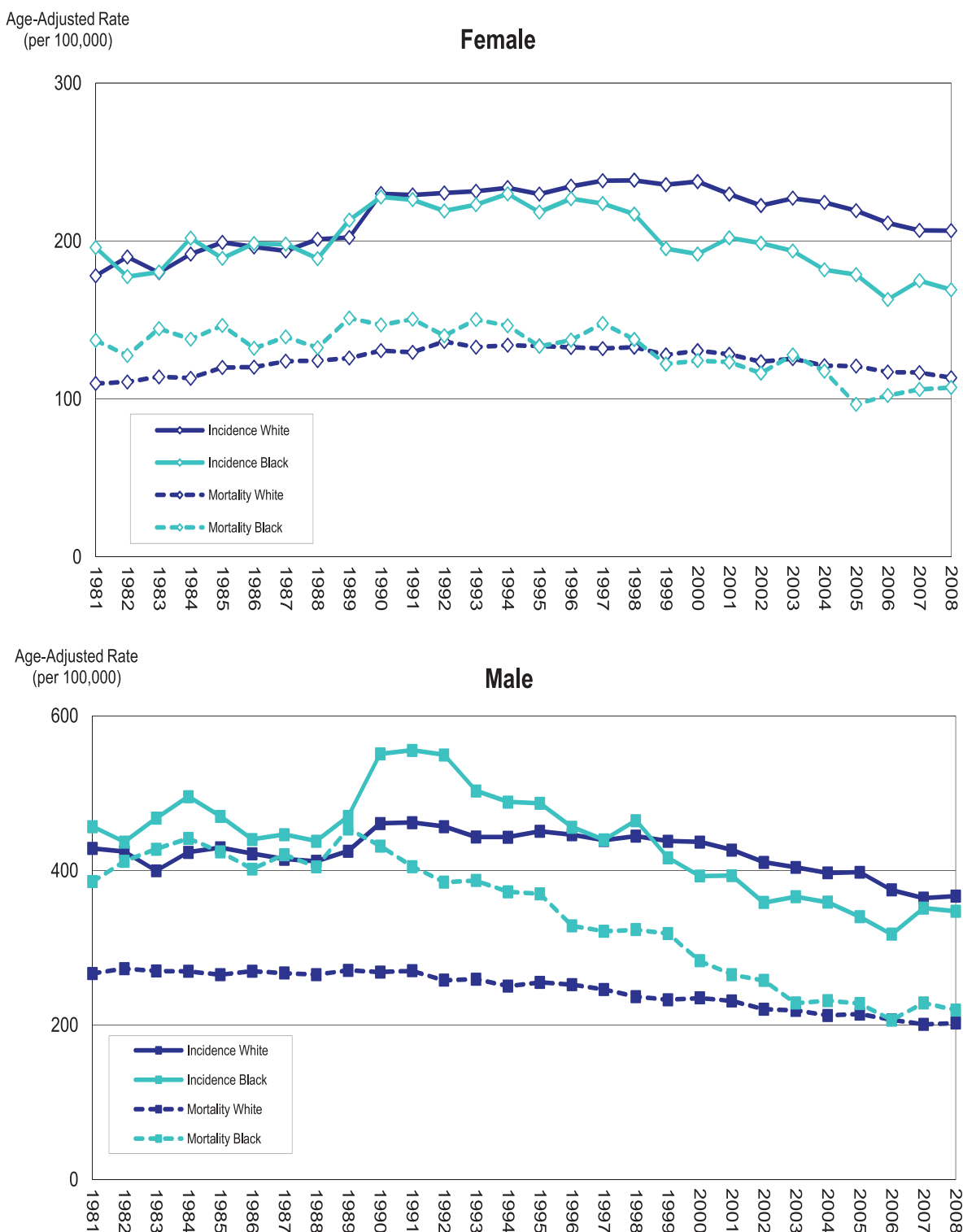
## INCIDENCE

- In 2008, 35,585 tobacco-related cancers were diagnosed in Florida. Of these cancers, 35,191 occurred among Floridians age 35 and older.
- The age-adjusted incidence rate for tobacco-related cancers was higher among males than females over the last 28 years.
- The age-adjusted incidence rate for tobacco-related cancers was similar among white females and black females from 1981 to 1990; since 1991, the rate for white females has been higher than for blacks.
- The age-adjusted incidence rates of tobacco-related cancer among both black and white females increased from 1981 to 1990. Rates for black females declined from 1990 to 2008; rates for white females continued to increase slightly before turning downward in 2000.
- From 1981 to 1998, age-adjusted incidence rates of tobacco-related cancers were higher among black males and white males, but were lower from 1999 to 2006, due to a sharp decline in rates for black males beginning in 1993 and stable rates for white males from 1990 to 2000. In 2007, age-adjusted rates for blacks increased again, and then declined slightly in 2008.

## MORTALITY

- In 2008, 19,968 deaths occurred from tobacco-related cancers in Florida. Of these cancer deaths, 19,247 occurred among Floridians age 35 and older.
- According to the prevalence of cigarette use in Florida in 2008 and the relative risk of dying from cancers that are due to cigarette smoking, 61% (12,088) of the 19,247 deaths might be attributable to tobacco use.
- A total of 198,620 YPLL in 2008 were due to the 12,088 smoking-attributable deaths.
- On average, one smoking-attributable death accounted for 16.4 YPLL.
- Males had higher mortality rates for tobacco-related cancers than females.
- Over the 28-year period since 1981, black males had higher mortality rates from tobacco-related cancers than white males.
- Mortality rates for tobacco-related cancers declined sharply among black males since 1989; rates among whites had smaller declines; therefore, the gap between the mortality rates of black and white males present in 1981 was smaller in 2008.

**Figure 26. Age-Adjusted Incidence and Mortality Rates for Tobacco-Related Cancers (1) by Sex and Race, Florida 1981-2008**



(1) Tobacco-related cancers are: lung and bronchus, pancreas, esophagus, stomach, bladder, kidney, oral cavity, larynx, trachea, cervix, and acute myeloid leukemia. Rates are computed for age 35 and older.

Source of data: Florida Cancer Data System and Office of Vital Statistics

**Table 31. Tobacco-Related and Smoking-Attributable Cancer Deaths and Years of Potential Life Lost (YPLL) among Those Age 35+, by County, Florida, 2008**

|                | Tobacco-Related Cancer Deaths | Smoking-Attributable Cancer Deaths | Smoking-Attributable YPLL |
|----------------|-------------------------------|------------------------------------|---------------------------|
| <b>Florida</b> | <b>19,247</b>                 | <b>12,088</b>                      | <b>198,620</b>            |
| Alachua        | 187                           | 114                                | 1,993                     |
| Baker          | 30                            | 18                                 | 344                       |
| Bay            | 206                           | 137                                | 2,365                     |
| Bradford       | 31                            | 20                                 | 385                       |
| Brevard        | 744                           | 494                                | 7,870                     |
| Broward        | 1,552                         | 897                                | 14,231                    |
| Calhoun        | 18                            | 13                                 | 268                       |
| Charlotte      | 293                           | 189                                | 2,909                     |
| Citrus         | 303                           | 202                                | 3,177                     |
| Clay           | 180                           | 113                                | 2,017                     |
| Collier        | 320                           | 197                                | 2,930                     |
| Columbia       | 85                            | 54                                 | 1,021                     |
| Dade           | 1,639                         | 885                                | 14,624                    |
| Desoto         | 31                            | 19                                 | 289                       |
| Dixie          | 29                            | 18                                 | 359                       |
| Duval          | 802                           | 513                                | 9,423                     |
| Escambia       | 347                           | 219                                | 3,808                     |
| Flagler        | 122                           | 79                                 | 1,339                     |
| Franklin       | 15                            | 9                                  | 160                       |
| Gadsden        | 61                            | 36                                 | 665                       |
| Gilchrist      | 13                            | 9                                  | 114                       |
| Glades         | 13                            | 10                                 | 170                       |
| Gulf           | 22                            | 16                                 | 280                       |
| Hamilton       | 17                            | 12                                 | 206                       |
| Hardee         | 21                            | 10                                 | 204                       |
| Hendry         | 29                            | 20                                 | 333                       |
| Hernando       | 325                           | 219                                | 3,457                     |
| Highlands      | 151                           | 102                                | 1,535                     |
| Hillsborough   | 970                           | 627                                | 11,201                    |
| Holmes         | 26                            | 18                                 | 298                       |
| Indian River   | 209                           | 134                                | 2,021                     |
| Jackson        | 53                            | 37                                 | 610                       |
| Jefferson      | 19                            | 12                                 | 224                       |
| Lafayette      | 8                             | 7                                  | 112                       |
| Lake           | 389                           | 265                                | 4,297                     |
| Lee            | 672                           | 421                                | 6,640                     |
| Leon           | 145                           | 91                                 | 1,642                     |
| Levy           | 72                            | 47                                 | 788                       |
| Liberty        | 4                             | 3                                  | 39                        |
| Madison        | 23                            | 15                                 | 284                       |
| Manatee        | 390                           | 260                                | 4,134                     |
| Marion         | 549                           | 382                                | 6,149                     |
| Martin         | 245                           | 154                                | 2,192                     |
| Monroe         | 72                            | 38                                 | 728                       |
| Nassau         | 82                            | 53                                 | 940                       |
| Okaloosa       | 174                           | 112                                | 1,961                     |
| Okeechobee     | 59                            | 39                                 | 656                       |
| Orange         | 673                           | 447                                | 7,808                     |
| Osceola        | 146                           | 92                                 | 1,736                     |
| Palm Beach     | 1,456                         | 819                                | 12,356                    |
| Pasco          | 700                           | 462                                | 7,326                     |
| Pinellas       | 1,184                         | 763                                | 11,877                    |
| Polk           | 664                           | 440                                | 7,416                     |
| Putnam         | 117                           | 73                                 | 1,262                     |
| Santa Rosa     | 133                           | 85                                 | 1,609                     |
| Sarasota       | 567                           | 350                                | 5,405                     |
| Seminole       | 283                           | 180                                | 3,073                     |
| St. Johns      | 179                           | 119                                | 2,025                     |
| St. Lucie      | 287                           | 185                                | 3,022                     |
| Sumter         | 156                           | 104                                | 1,683                     |
| Suwannee       | 59                            | 38                                 | 713                       |
| Taylor         | 26                            | 16                                 | 301                       |
| Union          | 39                            | 32                                 | 715                       |
| Volusia        | 699                           | 454                                | 7,306                     |
| Wakulla        | 26                            | 17                                 | 338                       |
| Walton         | 70                            | 44                                 | 735                       |
| Washington     | 36                            | 29                                 | 522                       |

Source of data: Office of Vital Statistics and BRFSS

## PREVALENCE OF CURRENT CIGARETTE USE

### TOBACCO

The Florida BRFSS has collected data on current cigarette smoking among adults since 1986. A current smoker is defined as a person who has smoked at least 100 cigarettes in his or her life and who smoked on some days or all days in the past 30 days when the survey was conducted.

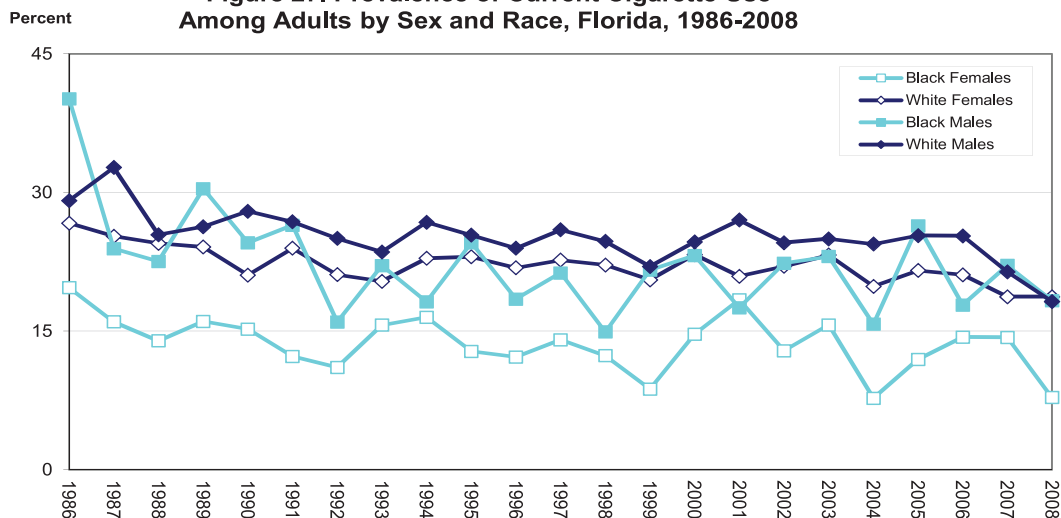
- In 2008, the overall prevalence of current cigarette use was 17.5%, which is lower than the national prevalence of 18.3%.
- The prevalence of current cigarette use was higher among white females than black males, and higher among people who had no healthcare coverage than their counterparts.
- The prevalence of cigarette use was inversely related to age, education, and household income, becoming significantly lower in each older age group and with increasing levels of education and household income.
- The overall prevalence of current cigarette smoking among Florida adults decreased from 27.9% in 1986 to 17.5% in 2008.
- Between 1986 and 2008, the prevalence of current cigarette use decreased in all four sex-race groups: by 54% among black males; by 60% among black females; by 30% among white females; and by 37% among white males.
- The prevalence also decreased in all age groups: by 33% in the group age 18 to 39; by 42% in the group age 40 to 64; and by 31% in the group age 65 and older.

**Table 32. Prevalence of Current Cigarette Use  
Among Adults Age 18 and Older, Florida, 2008**

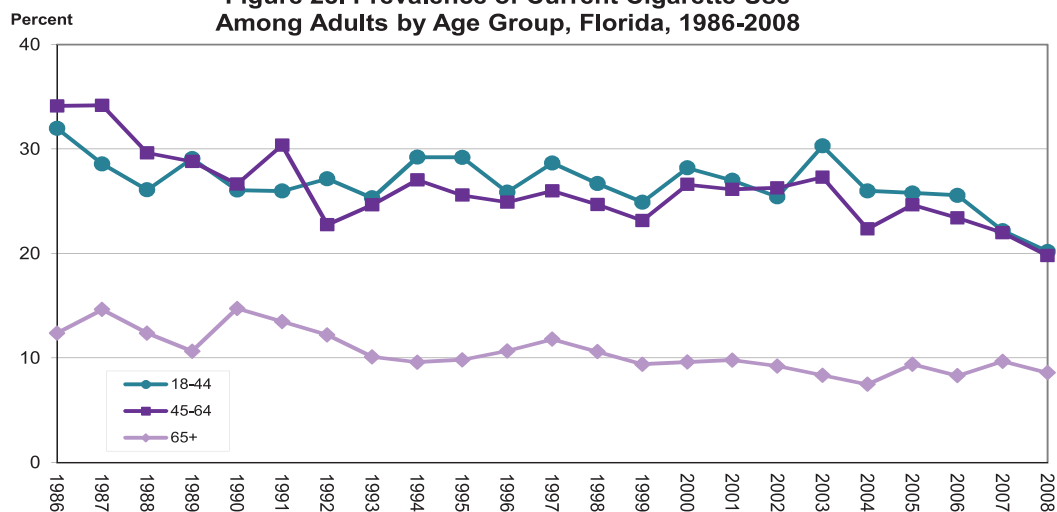
|                         | Sample Size | Prevalence | CI   |      |
|-------------------------|-------------|------------|------|------|
| <b>Florida</b>          | 10,811      | 17.5       | 16.2 | 18.9 |
| Female                  | 6,844       | 16.4       | 14.7 | 18.0 |
| Male                    | 3,967       | 18.8       | 16.5 | 21.0 |
| Black                   | 848         | 12.3       | 8.8  | 15.9 |
| White                   | 9,116       | 18.5       | 16.9 | 20.0 |
| Black Female            | 590         | 7.8        | 4.4  | 11.3 |
| White Female            | 5,760       | 18.7       | 16.7 | 20.6 |
| Black Male              | 258         | 18.3       | 11.5 | 25.1 |
| White Male              | 3,356       | 18.2       | 15.8 | 20.7 |
| <b>Age</b>              |             |            |      |      |
| 18-44                   | 2,556       | 20.2       | 17.6 | 22.7 |
| 45-64                   | 4,343       | 19.8       | 17.7 | 21.9 |
| 65+                     | 3,831       | 8.6        | 7.2  | 10.0 |
| <b>Education</b>        |             |            |      |      |
| < High School           | 1,285       | 26.6       | 20.8 | 32.4 |
| HS Graduate/GED         | 3,477       | 20.1       | 17.5 | 22.6 |
| > High School           | 5,986       | 14.9       | 13.3 | 16.6 |
| <b>Household Income</b> |             |            |      |      |
| <\$25,000               | 3,285       | 23.5       | 20.6 | 26.4 |
| \$25,000-\$49,999       | 2,787       | 20.6       | 17.6 | 23.6 |
| \$50,000-\$74,999       | 1,440       | 14.6       | 11.2 | 17.9 |
| \$75,000+               | 1,997       | 11.1       | 8.9  | 13.3 |
| <b>Health Insurance</b> |             |            |      |      |
| Yes                     | 9,281       | 15.1       | 13.8 | 16.5 |
| No                      | 1,509       | 28.7       | 24.3 | 33.1 |

Source of data: Florida BRFSS

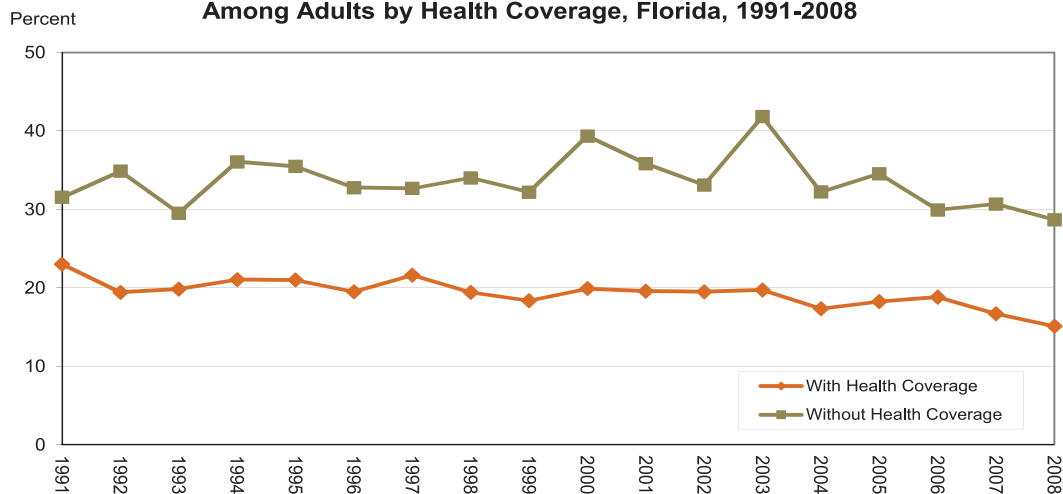
**Figure 27. Prevalence of Current Cigarette Use Among Adults by Sex and Race, Florida, 1986-2008**



**Figure 28. Prevalence of Current Cigarette Use Among Adults by Age Group, Florida, 1986-2008**



**Figure 29. Prevalence of Current Cigarette Use Among Adults by Health Coverage, Florida, 1991-2008**



Source of data: Florida BRFSS

# HOSPITALIZATIONS FOR CANCER

## HOSPITALIZATIONS

- In 2008, a total of 85,139 hospitalizations with cancer coded as the primary diagnosis were reported.
- Of these hospitalizations, 16% were among blacks and 82% among whites.
- The ten cancers listed in this report accounted for 48% of all cancer hospitalizations.
- Cancer of the lung and bronchus and colorectal cancer together accounted for 24% of all cancer hospitalizations in Florida; 12% for cancer of the lung and bronchus and 11% for colorectal cancer.
- In 2008, females had 2% more hospitalizations for all cancers combined. However, males had more hospitalizations for each of the selected cancer sites discussed in this report.
- Hospitalizations for cancer of the lung and bronchus accounted for 13% of all cancers among whites, higher than among blacks (9.6%). Percentages of bladder cancer were 3.4% and 1.8% among whites and blacks, respectively.
- Among males, hospitalizations for bladder cancer accounted for 5.3% of all hospitalizations among whites and 2.4% among blacks. The percentage of hospitalizations for prostate cancer was 12% among whites and 16% among blacks.
- Among females, hospitalizations for cancer of the lung and bronchus accounted for 12% of hospitalizations among whites and 7.0% among blacks. The percentage of hospitalizations for cervical cancer was 3.1% among blacks and 1.8% among whites.
- The crude hospitalization rate for all cancers combined was 463 per 100,000.



## LENGTH OF HOSPITAL STAY

- The diagnosis and treatment of cancer consumes a large portion of available healthcare resources.
- In 2008, patients with a primary diagnosis of cancer stayed in hospitals a total of 541,201 days.
- The median length of stay (LOS) per hospitalization for cancer was five days.
- The longest median LOS was for non-Hodgkin lymphoma and colorectal cancer, both at seven days, and the shortest median LOS was for prostate, breast, and melanoma cancer all at two days.

**Table 33. Number of Cancer Hospitalizations by Sex and Race, Florida, 2008**

|                | All<br>Cancers | Lung &<br>Bronchus | Prostate     | Breast       | Colorectal   | Bladder      | Head &<br>Neck | Non-<br>Hodgkin | Melanoma   | Ovary        | Cervix     |
|----------------|----------------|--------------------|--------------|--------------|--------------|--------------|----------------|-----------------|------------|--------------|------------|
| <b>Florida</b> | <b>85,139</b>  | <b>10,507</b>      | <b>5,534</b> | <b>4,628</b> | <b>9,590</b> | <b>2,636</b> | <b>2,080</b>   | <b>2,959</b>    | <b>218</b> | <b>1,656</b> | <b>883</b> |
| Female         | 42,911         | 4,926              |              | 4,628        | 4,644        | 612          | 567            | 1,311           | 72         | 1,656        | 883        |
| Male           | 42,228         | 5,581              | 5,534        |              | 4,946        | 2,024        | 1,513          | 1,648           | 146        |              |            |
| Black          | 13,484         | 1,292              | 1,054        | 808          | 1,417        | 240          | 345            | 448             |            | 208          | 221        |
| White          | 70,227         | 9,086              | 4,388        | 3,750        | 7,968        | 2,367        | 1,688          | 2,451           | 218        | 1,404        | 646        |
| Black Female   | 7,065          | 497                |              | 808          | 749          | 83           | 85             | 207             |            | 208          | 221        |
| White Female   | 35,115         | 4,367              |              | 3,750        | 3,819        | 520          | 471            | 1,086           | 72         | 1,404        | 646        |
| Black Male     | 6,419          | 795                | 1,054        |              | 722          | 157          | 260            | 241             |            |              |            |
| White Male     | 35,112         | 4,719              | 4,388        |              | 4,149        | 1,847        | 1,217          | 1,365           | 146        |              |            |

Source of data: Agency for Health Care Administration

**Table 34. Number of Cancer Hospitalizations by County, Florida, 2008**

|                | All<br>Cancers | Lung &<br>Bronchus | Prostate     | Breast       | Colorectal   | Bladder      | Head &<br>Neck | Non-<br>Hodgkin | Melanoma   | Ovary        | Cervix     |
|----------------|----------------|--------------------|--------------|--------------|--------------|--------------|----------------|-----------------|------------|--------------|------------|
| <b>Florida</b> | <b>85,139</b>  | <b>10,507</b>      | <b>5,534</b> | <b>4,628</b> | <b>9,590</b> | <b>2,636</b> | <b>2,080</b>   | <b>2,959</b>    | <b>218</b> | <b>1,656</b> | <b>883</b> |
| Alachua        | 1,024          | 119                | 86           | 68           | 91           | 32           | 30             | 40              | ^          | 21           | ^          |
| Baker          | 110            | 20                 | ^            | ^            | 11           | ^            | ^              | ^               | ^          | ^            | ^          |
| Bay            | 706            | 95                 | 103          | 23           | 71           | 24           | 15             | 19              | ^          | 13           | ^          |
| Bradford       | 129            | 21                 | ^            | ^            | 20           | ^            | ^              | ^               | ^          | ^            | ^          |
| Brevard        | 2,899          | 419                | 142          | 143          | 325          | 107          | 85             | 108             | ^          | 54           | 24         |
| Broward        | 8,028          | 914                | 453          | 518          | 878          | 225          | 177            | 266             | 27         | 145          | 107        |
| Calhoun        | 52             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Charlotte      | 943            | 129                | 56           | 41           | 126          | 39           | 21             | 28              | ^          | 20           | ^          |
| Citrus         | 819            | 110                | 54           | 42           | 109          | 28           | 22             | 27              | ^          | 27           | ^          |
| Clay           | 713            | 93                 | 32           | 30           | 60           | 22           | 24             | 30              | ^          | ^            | ^          |
| Collier        | 1,398          | 139                | 175          | 36           | 155          | 44           | 32             | 50              | ^          | 34           | 13         |
| Columbia       | 319            | 54                 | ^            | 23           | 34           | 15           | ^              | ^               | ^          | ^            | ^          |
| Miami-Dade     | 11,976         | 1,204              | 768          | 661          | 1,358        | 366          | 282            | 452             | 18         | 236          | 181        |
| Desoto         | 102            | 13                 | 11           | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Dixie          | 73             | 12                 | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Duval          | 3,395          | 472                | 180          | 140          | 336          | 91           | 120            | 111             | ^          | 50           | 57         |
| Escambia       | 1,103          | 149                | 88           | 45           | 128          | 23           | 32             | 36              | ^          | 18           | 11         |
| Flagler        | 481            | 69                 | 32           | 24           | 64           | ^            | 17             | 25              | ^          | ^            | ^          |
| Franklin       | 48             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Gadsden        | 196            | 14                 | 20           | 15           | 24           | ^            | ^              | ^               | ^          | ^            | ^          |
| Gilchrist      | 73             | 15                 | ^            | ^            | 10           | ^            | ^              | ^               | ^          | ^            | ^          |
| Glades         | 29             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Gulf           | 63             | 10                 | 10           | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Hamilton       | 52             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Hardee         | 104            | ^                  | ^            | ^            | 11           | ^            | ^              | ^               | ^          | ^            | ^          |
| Hendry         | 147            | 22                 | ^            | 10           | 21           | ^            | ^              | ^               | ^          | ^            | ^          |
| Hernando       | 897            | 111                | 33           | 55           | 114          | 25           | 24             | 21              | ^          | 25           | ^          |
| Highlands      | 529            | 68                 | 32           | 33           | 67           | 23           | 15             | 16              | ^          | 11           | ^          |
| Hillsborough   | 4,796          | 579                | 279          | 305          | 507          | 143          | 130            | 176             | ^          | 97           | 53         |
| Holmes         | 40             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Indian River   | 774            | 110                | 48           | 43           | 105          | 29           | 20             | 30              | ^          | 17           | ^          |
| Jackson        | 141            | 12                 | ^            | 12           | 18           | ^            | ^              | ^               | ^          | ^            | ^          |
| Jefferson      | 64             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Lafayette      | 19             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Lake           | 1,696          | 219                | 126          | 79           | 217          | 47           | 46             | 48              | 11         | 35           | ^          |
| Lee            | 2,420          | 314                | 208          | 117          | 286          | 50           | 42             | 92              | ^          | 52           | 19         |
| Leon           | 846            | 71                 | 92           | 112          | 73           | 16           | 16             | 32              | ^          | 17           | 11         |
| Levy           | 212            | 25                 | 20           | 11           | 30           | 13           | 11             | 11              | ^          | ^            | ^          |
| Liberty        | 27             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Madison        | 63             | ^                  | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Manatee        | 1,583          | 205                | 74           | 140          | 189          | 60           | 44             | 46              | ^          | 30           | 14         |
| Marion         | 1,814          | 263                | 160          | 57           | 205          | 45           | 32             | 64              | ^          | 40           | 14         |
| Martin         | 831            | 130                | 82           | 26           | 104          | 45           | 24             | 23              | ^          | ^            | ^          |
| Monroe         | 288            | 39                 | 15           | 23           | 36           | 14           | ^              | ^               | ^          | ^            | ^          |
| Nassau         | 286            | 37                 | 13           | 16           | 31           | ^            | 11             | 11              | ^          | ^            | ^          |
| Okaloosa       | 581            | 81                 | 22           | 19           | 61           | 23           | 16             | ^               | ^          | 11           | ^          |
| Okeechobee     | 222            | 21                 | ^            | 11           | 24           | 17           | ^              | ^               | ^          | ^            | ^          |
| Orange         | 4,193          | 530                | 282          | 203          | 451          | 83           | 113            | 170             | 17         | 93           | 42         |
| Osceola        | 923            | 84                 | 66           | 67           | 118          | 20           | 14             | 31              | ^          | 20           | 12         |
| Palm Beach     | 6,838          | 821                | 320          | 362          | 733          | 243          | 141            | 247             | 17         | 145          | 57         |
| Pasco          | 2,290          | 308                | 143          | 143          | 268          | 84           | 61             | 59              | ^          | 56           | 17         |
| Pinellas       | 4,816          | 618                | 318          | 301          | 560          | 183          | 120            | 132             | 13         | 88           | 43         |
| Polk           | 2,837          | 373                | 209          | 127          | 365          | 127          | 72             | 98              | ^          | 33           | 17         |
| Putnam         | 347            | 49                 | 27           | 20           | 55           | ^            | ^              | 16              | ^          | ^            | ^          |
| Saint Johns    | 709            | 65                 | 37           | 47           | 83           | 19           | 21             | 30              | ^          | 14           | ^          |
| Saint Lucie    | 1,321          | 188                | 83           | 66           | 141          | 34           | 24             | 54              | ^          | 34           | 16         |
| Santa Rosa     | 537            | 81                 | 31           | 22           | 51           | 10           | 11             | 18              | ^          | 12           | ^          |
| Sarasota       | 1,969          | 251                | 169          | 55           | 237          | 65           | 34             | 72              | ^          | 42           | 16         |
| Seminole       | 1,580          | 173                | 132          | 68           | 145          | 47           | 32             | 65              | ^          | 30           | ^          |
| Sumter         | 592            | 62                 | 84           | 39           | 68           | 10           | 15             | 15              | ^          | 14           | ^          |
| Suwannee       | 217            | 31                 | ^            | 16           | 18           | ^            | ^              | 16              | ^          | ^            | ^          |
| Taylor         | 85             | ^                  | ^            | 10           | 10           | ^            | ^              | ^               | ^          | ^            | ^          |
| Union          | 196            | 25                 | ^            | ^            | 17           | ^            | 17             | ^               | ^          | ^            | ^          |
| Volusia        | 2,195          | 348                | 96           | 107          | 266          | 55           | 35             | 68              | 10         | 43           | 25         |
| Wakulla        | 127            | 19                 | 16           | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |
| Walton         | 180            | 24                 | ^            | 14           | 22           | ^            | ^              | ^               | ^          | ^            | ^          |
| Washington     | 76             | 10                 | ^            | ^            | ^            | ^            | ^              | ^               | ^          | ^            | ^          |

^ Cells with less than 10 hospitalizations are not displayed.

Source of data: Agency for Health Care Administration

**CANCER  
BURDEN**

Table 35. Crude Hospitalization Rates (1) for Cancer by County, Florida, 2008

|                | All<br>Cancers | Lung &<br>Bronchus | Prostate    | Breast      | Colorectal  | Bladder     | Head &<br>Neck | Non-<br>Hodgkin | Melanoma   | Ovary       | Cervix     |
|----------------|----------------|--------------------|-------------|-------------|-------------|-------------|----------------|-----------------|------------|-------------|------------|
| <b>Florida</b> | <b>462.5</b>   | <b>57.1</b>        | <b>61.6</b> | <b>49.1</b> | <b>52.1</b> | <b>14.3</b> | <b>11.3</b>    | <b>16.1</b>     | <b>1.5</b> | <b>17.6</b> | <b>9.4</b> |
| Alachua        | 411.6          | 47.8               | 70.5        | 53.6        | 36.6        | 12.9        | 12.1           | 16.1            | ^          | 16.6        | ^          |
| Baker          | 440.1          | 80.0               | ^           | ^           | 44.0        | ^           | ^              | ^               | ^          | ^           | ^          |
| Bay            | 433.7          | 58.4               | 127.3       | 28.1        | 43.6        | 14.7        | 9.2            | 11.7            | ^          | 15.9        | ^          |
| Bradford       | 455.2          | 74.1               | ^           | ^           | 70.6        | ^           | ^              | ^               | ^          | ^           | ^          |
| Brevard        | 541.8          | 78.3               | 54.3        | 52.2        | 60.7        | 20.0        | 15.9           | 20.2            | ^          | 19.7        | 8.8        |
| Broward        | 432.0          | 49.2               | 50.4        | 54.0        | 47.2        | 12.1        | 9.5            | 14.3            | 2.0        | 15.1        | 11.2       |
| Calhoun        | 370.2          | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Charlotte      | 568.6          | 77.8               | 70.0        | 47.7        | 76.0        | 23.5        | 12.7           | 16.9            | ^          | 23.3        | ^          |
| Citrus         | 600.2          | 80.6               | 82.7        | 59.0        | 79.9        | 20.5        | 16.1           | 19.8            | ^          | 37.9        | ^          |
| Clay           | 417.9          | 54.5               | 38.1        | 34.6        | 35.2        | 12.9        | 14.1           | 17.6            | ^          | ^           | ^          |
| Collier        | 415.1          | 41.3               | 105.8       | 21.0        | 46.0        | 13.1        | 9.5            | 14.8            | ^          | 19.8        | 7.6        |
| Columbia       | 475.1          | 80.4               | ^           | 71.5        | 50.6        | 22.3        | ^              | ^               | ^          | ^           | ^          |
| Miami-Dade     | 480.6          | 48.3               | 63.4        | 51.6        | 54.5        | 14.7        | 11.3           | 18.1            | 1.0        | 18.4        | 14.1       |
| Desoto         | 270.2          | 34.4               | 52.8        | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Dixie          | 436.4          | 71.7               | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Duval          | 390.6          | 54.3               | 42.5        | 31.4        | 38.7        | 10.5        | 13.8           | 12.8            | ^          | 11.2        | 12.8       |
| Escambia       | 350.8          | 47.4               | 56.4        | 28.4        | 40.7        | 7.3         | 10.2           | 11.4            | ^          | 11.4        | 6.9        |
| Flagler        | 683.7          | 98.1               | 95.4        | 65.2        | 91.0        | ^           | 24.2           | 35.5            | ^          | ^           | ^          |
| Franklin       | 414.5          | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Gadsden        | 412.8          | 29.5               | 88.6        | 60.2        | 50.5        | ^           | ^              | ^               | ^          | ^           | ^          |
| Gilchrist      | 412.5          | 84.8               | ^           | ^           | 56.5        | ^           | ^              | ^               | ^          | ^           | ^          |
| Glades         | 243.7          | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Gulf           | 400.9          | 63.6               | 111.4       | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Hamilton       | 359.7          | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Hardee         | 348.4          | ^                  | ^           | ^           | 36.9        | ^           | ^              | ^               | ^          | ^           | ^          |
| Hendry         | 349.8          | 52.3               | ^           | 51.5        | 50.0        | ^           | ^              | ^               | ^          | ^           | ^          |
| Hernando       | 589.3          | 72.9               | 45.4        | 69.1        | 74.9        | 16.4        | 15.8           | 13.8            | ^          | 31.4        | ^          |
| Highlands      | 539.5          | 69.3               | 67.9        | 64.8        | 68.3        | 23.5        | 15.3           | 16.3            | ^          | 21.6        | ^          |
| Hillsborough   | 412.5          | 49.8               | 49.0        | 51.4        | 43.6        | 12.3        | 11.2           | 15.1            | ^          | 16.3        | 8.9        |
| Holmes         | 203.2          | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Indian River   | 589.1          | 83.7               | 75.9        | 63.1        | 79.9        | 22.1        | 15.2           | 22.8            | ^          | 25.0        | ^          |
| Jackson        | 280.8          | 23.9               | ^           | 51.2        | 35.8        | ^           | ^              | ^               | ^          | ^           | ^          |
| Jefferson      | 455.5          | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Lafayette      | 236.5          | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Lake           | 628.4          | 81.1               | 96.9        | 56.5        | 80.4        | 17.4        | 17.0           | 17.8            | 4.5        | 25.0        | ^          |
| Lee            | 448.0          | 58.1               | 79.3        | 42.1        | 52.9        | 9.3         | 7.8            | 17.0            | ^          | 18.7        | 6.8        |
| Leon           | 313.4          | 26.3               | 70.4        | 80.4        | 27.0        | 5.9         | 5.9            | 11.9            | ^          | 12.2        | 7.9        |
| Levy           | 521.0          | 61.4               | 100.8       | 52.8        | 73.7        | 31.9        | 27.0           | 27.0            | ^          | ^           | ^          |
| Liberty        | 351.4          | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Madison        | 320.0          | ^                  | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Manatee        | 514.6          | 66.6               | 49.9        | 87.9        | 61.4        | 19.5        | 14.3           | 15.0            | ^          | 18.8        | 8.8        |
| Marion         | 594.6          | 86.2               | 109.0       | 36.0        | 67.2        | 14.7        | 10.5           | 21.0            | ^          | 25.3        | 8.8        |
| Martin         | 570.8          | 89.3               | 114.9       | 35.0        | 71.4        | 30.9        | 16.5           | 15.8            | ^          | ^           | ^          |
| Monroe         | 347.9          | 47.1               | 35.5        | 56.8        | 43.5        | 16.9        | ^              | ^               | ^          | ^           | ^          |
| Nassau         | 410.6          | 53.1               | 37.9        | 45.3        | 44.5        | ^           | 15.8           | 15.8            | ^          | ^           | ^          |
| Okaloosa       | 302.1          | 42.1               | 22.9        | 19.7        | 31.7        | 12.0        | 8.3            | ^               | ^          | 11.4        | ^          |
| Okeechobee     | 570.4          | 54.0               | ^           | 59.3        | 61.7        | 43.7        | ^              | ^               | ^          | ^           | ^          |
| Orange         | 383.5          | 48.5               | 52.3        | 36.6        | 41.2        | 7.6         | 10.3           | 15.5            | 2.1        | 16.8        | 7.6        |
| Osceola        | 398.6          | 36.3               | 58.0        | 56.9        | 51.0        | 8.6         | 6.0            | 13.4            | ^          | 17.0        | 10.2       |
| Palm Beach     | 513.4          | 61.6               | 49.8        | 52.5        | 55.0        | 18.2        | 10.6           | 18.5            | 1.6        | 21.0        | 8.3        |
| Pasco          | 576.3          | 77.5               | 75.0        | 69.2        | 67.4        | 21.1        | 15.4           | 14.8            | ^          | 27.1        | 8.2        |
| Pinellas       | 495.9          | 63.6               | 68.2        | 59.6        | 57.7        | 18.8        | 12.4           | 13.6            | 1.5        | 17.4        | 8.5        |
| Polk           | 517.7          | 68.1               | 78.1        | 45.3        | 66.6        | 23.2        | 13.1           | 17.9            | ^          | 11.8        | 6.1        |
| Putnam         | 468.4          | 66.1               | 74.4        | 52.9        | 74.2        | ^           | ^              | 21.6            | ^          | ^           | ^          |
| Saint Johns    | 446.4          | 40.9               | 47.9        | 57.7        | 52.3        | 12.0        | 13.2           | 18.9            | ^          | 17.2        | ^          |
| Saint Lucie    | 583.1          | 83.0               | 75.4        | 56.7        | 62.2        | 15.0        | 10.6           | 23.8            | ^          | 29.2        | 13.7       |
| Santa Rosa     | 372.9          | 56.3               | 43.1        | 30.5        | 35.4        | 6.9         | 7.6            | 12.5            | ^          | 16.6        | ^          |
| Sarasota       | 535.2          | 68.2               | 96.8        | 28.4        | 64.4        | 17.7        | 9.2            | 19.6            | ^          | 21.7        | 8.3        |
| Seminole       | 362.3          | 39.7               | 61.7        | 30.6        | 33.3        | 10.8        | 7.3            | 14.9            | ^          | 13.5        | ^          |
| Sumter         | 774.9          | 81.2               | 210.2       | 107.1       | 89.0        | 13.1        | 19.6           | 19.6            | ^          | 38.4        | ^          |
| Suwannee       | 547.7          | 78.2               | ^           | 78.8        | 45.4        | ^           | ^              | 40.4            | ^          | ^           | ^          |
| Taylor         | 396.2          | ^                  | ^           | 99.9        | 46.6        | ^           | ^              | ^               | ^          | ^           | ^          |
| Union          | 1250.3         | 159.5              | ^           | ^           | 108.4       | ^           | 108.4          | ^               | ^          | ^           | ^          |
| Volusia        | 438.6          | 69.5               | 39.5        | 41.6        | 53.2        | 11.0        | 7.0            | 13.6            | 2.3        | 16.7        | 9.7        |
| Wakulla        | 440.3          | 65.9               | 106.7       | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |
| Walton         | 330.0          | 44.0               | ^           | 51.7        | 40.3        | ^           | ^              | ^               | ^          | ^           | ^          |
| Washington     | 325.0          | 42.8               | ^           | ^           | ^           | ^           | ^              | ^               | ^          | ^           | ^          |

^ Statistics for cells with less than 10 hospitalizations are not displayed.

Source of data: Agency for Health Care Administration

(1) Rates are per 100,000 population.

## HOSPITAL CHARGES

- Cancer constitutes an enormous economic burden on Floridians, with approximately \$4.5 billion in hospital charges for inpatient hospital care in 2008 for those with a primary diagnosis of cancer.
- Including patients with any secondary diagnosis of cancer in the analysis brings total hospital charges to \$9.6 billion.
- The total hospital charges for colorectal cancer (\$638 million) and cancer of the lung and bronchus (\$588 million) accounted for 27% of the hospital charges for all cancer hospitalizations in 2008.
- The total hospital charge for prostate and breast cancer and non-Hodgkin lymphoma was \$577 million, accounting for 12% of the charges for all cancer hospitalizations in 2008.
- The median charge for each cancer hospitalization was \$38,919.
- The median hospital charge was highest for patients with colorectal cancer, \$53,018, and lowest for melanoma, \$25,608.

**Table 36. Total and Median Length of Stay (1) per Cancer Hospitalization by Sex and Race, Florida, 2008**

|                                                         | All<br>Cancers | Lung &<br>Bronchus | Prostate      | Breast        | Colorectal    | Bladder       | Head &<br>Neck | Non-<br>Hodgkin | Melanoma   | Ovary         | Cervix       |
|---------------------------------------------------------|----------------|--------------------|---------------|---------------|---------------|---------------|----------------|-----------------|------------|---------------|--------------|
| <b>Total length of hospital stay (days)</b>             |                |                    |               |               |               |               |                |                 |            |               |              |
| <b>Florida</b>                                          | <b>541,201</b> | <b>75,767</b>      | <b>13,477</b> | <b>11,820</b> | <b>79,392</b> | <b>15,480</b> | <b>14,035</b>  | <b>25,958</b>   | <b>846</b> | <b>11,098</b> | <b>4,169</b> |
| Female                                                  | 264,841        | 34,737             |               | 11,820        | 38,151        | 3,643         | 3,516          | 11,585          | 247        | 11,098        | 4,169        |
| Male                                                    | 276,360        | 41,030             | 13,477        |               | 41,242        | 11,838        | 10,520         | 14,374          | 600        |               |              |
| Black                                                   | 95,076         | 10,247             | 3,203         | 2,741         | 13,244        | 1,838         | 2,600          | 4,229           |            | 1,651         | 1,191        |
| White                                                   | 437,327        | 64,576             | 9,977         | 8,942         | 64,977        | 13,442        | 11,114         | 21,147          | 846        | 9,193         | 2,899        |
| Black Female                                            | 48,303         | 3,735              |               | 2,741         | 6,620         | 571           | 590            | 2,019           |            | 1,651         | 1,191        |
| White Female                                            | 212,571        | 30,633             |               | 8,942         | 30,993        | 2,988         | 2,857          | 9,379           | 247        | 9,193         | 2,899        |
| Black Male                                              | 46,773         | 6,512              | 3,203         |               | 6,625         | 1,268         | 2,010          | 2,210           |            |               |              |
| White Male                                              | 224,756        | 33,943             | 9,977         |               | 33,984        | 10,454        | 8,257          | 11,768          | 600        |               |              |
| <b>Median length of stay per hospitalization (days)</b> |                |                    |               |               |               |               |                |                 |            |               |              |
| <b>Florida</b>                                          | <b>5.0</b>     | <b>6.0</b>         | <b>2.0</b>    | <b>2.0</b>    | <b>7.0</b>    | <b>4.0</b>    | <b>5.0</b>     | <b>7.0</b>      | <b>2.0</b> | <b>5.0</b>    | <b>3.0</b>   |
| Female                                                  | 4.0            | 6.0                |               | 2.0           | 7.0           | 5.0           | 4.0            | 6.0             | 2.0        | 5.0           | 3.0          |
| Male                                                    | 5.0            | 6.0                | 2.0           |               | 7.0           | 4.0           | 5.0            | 7.0             | 2.0        |               |              |
| Black                                                   | 5.0            | 6.0                | 2.0           | 2.0           | 7.0           | 7.0           | 6.0            | 7.0             |            | 6.0           | 4.0          |
| White                                                   | 5.0            | 6.0                | 2.0           | 2.0           | 7.0           | 4.0           | 5.0            | 6.0             | 2.0        | 5.0           | 3.0          |
| Black Female                                            | 5.0            | 6.0                |               | 2.0           | 7.0           | 5.0           | 6.0            | 8.0             |            | 6.0           | 4.0          |
| White Female                                            | 4.0            | 6.0                |               | 2.0           | 7.0           | 5.0           | 4.0            | 6.0             | 2.0        | 5.0           | 3.0          |
| Black Male                                              | 5.0            | 7.0                | 2.0           |               | 7.0           | 7.0           | 6.0            | 7.0             |            |               |              |
| White Male                                              | 5.0            | 6.0                | 1.0           |               | 7.0           | 4.0           | 5.0            | 7.0             | 2.0        |               |              |

(1) Length of stay is number of days.

Source of data: Agency for Health Care Administration

**Table 37. Total Length of Stay (1) per Cancer Hospitalizations by County, Florida, 2008**

|                | All<br>Cancers | Lung &<br>Bronchus | Prostate      | Breast        | Colorectal    | Bladder       | Head &<br>Neck | Non-<br>Hodgkin | Melanoma   | Ovary         | Cervix       |
|----------------|----------------|--------------------|---------------|---------------|---------------|---------------|----------------|-----------------|------------|---------------|--------------|
| <b>Florida</b> | <b>541,201</b> | <b>75,767</b>      | <b>13,477</b> | <b>11,820</b> | <b>79,392</b> | <b>15,480</b> | <b>14,035</b>  | <b>25,958</b>   | <b>846</b> | <b>11,098</b> | <b>4,169</b> |
| Alachua        | 6,239          | 735                | 273           | 149           | 868           | 219           | 177            | 282             | ^          | 167           | 18           |
| Baker          | 895            | 155                | 13            | 15            | 107           | 18            | 30             | 77              | ^          | 28            | ^            |
| Bay            | 4,188          | 702                | 194           | 44            | 534           | 89            | 58             | 216             | ^          | 100           | 26           |
| Bradford       | 671            | 106                | 30            | 27            | 140           | 12            | 13             | 10              | ^          | ^             | 17           |
| Brevard        | 19,097         | 3,131              | 437           | 331           | 2,529         | 673           | 583            | 1,022           | 35         | 431           | 114          |
| Broward        | 49,672         | 6,488              | 953           | 1,442         | 7,417         | 1,205         | 1,176          | 2,317           | 112        | 862           | 573          |
| Calhoun        | 301            | 86                 | 11            | ^             | 56            | 16            | ^              | 18              | ^          | 21            | ^            |
| Charlotte      | 5,815          | 882                | 120           | 91            | 866           | 216           | 159            | 256             | ^          | 120           | 14           |
| Citrus         | 4,861          | 586                | 97            | 100           | 924           | 170           | 121            | 291             | ^          | 149           | 18           |
| Clay           | 4,552          | 640                | 75            | 74            | 533           | 107           | 142            | 274             | ^          | 53            | ^            |
| Collier        | 7,748          | 924                | 300           | 77            | 1,305         | 209           | 163            | 468             | ^          | 160           | 36           |
| Columbia       | 1,772          | 341                | 22            | 66            | 282           | 77            | 40             | 54              | ^          | 21            | 14           |
| Miami-Dade     | 80,660         | 9,189              | 2,118         | 2,124         | 11,129        | 2,436         | 2,042          | 4,337           | 118        | 1,784         | 949          |
| Desoto         | 634            | 101                | 22            | 22            | 64            | ^             | ^              | 14              | ^          | ^             | ^            |
| Dixie          | 522            | 105                | 14            | ^             | 52            | ^             | ^              | 28              | ^          | 28            | ^            |
| Duval          | 22,887         | 3,299              | 538           | 436           | 2,844         | 622           | 926            | 1,052           | 14         | 451           | 180          |
| Escambia       | 7,119          | 1,096              | 252           | 102           | 917           | 153           | 197            | 303             | 21         | 95            | 50           |
| Flagler        | 2,737          | 527                | 106           | 50            | 425           | 69            | 53             | 215             | ^          | 54            | 19           |
| Franklin       | 269            | 60                 | ^             | ^             | 30            | ^             | ^              | ^               | ^          | 16            | ^            |
| Gadsden        | 1,170          | 93                 | 55            | 45            | 197           | 22            | 25             | 82              | ^          | 20            | 14           |
| Gilchrist      | 519            | 118                | ^             | ^             | 121           | ^             | 11             | 13              | ^          | ^             | ^            |
| Glades         | 156            | 23                 | ^             | ^             | 38            | ^             | 24             | ^               | ^          | ^             | ^            |
| Gulf           | 371            | 65                 | 23            | ^             | 65            | ^             | ^              | ^               | ^          | ^             | ^            |
| Hamilton       | 324            | 31                 | 12            | 14            | 81            | 14            | ^              | 25              | ^          | ^             | ^            |
| Hardee         | 694            | 50                 | 11            | 10            | 103           | ^             | ^              | 111             | ^          | 17            | ^            |
| Hendry         | 886            | 155                | 11            | 25            | 152           | 44            | 24             | 37              | ^          | 49            | 16           |
| Hernando       | 5,593          | 702                | 67            | 128           | 929           | 107           | 127            | 205             | ^          | 191           | 16           |
| Highlands      | 3,012          | 467                | 90            | 68            | 553           | 113           | 79             | 99              | ^          | 65            | 43           |
| Hillsborough   | 32,837         | 4,659              | 717           | 755           | 4,640         | 857           | 970            | 1,636           | 29         | 571           | 327          |
| Holmes         | 205            | 23                 | ^             | 13            | 27            | 14            | ^              | ^               | ^          | ^             | ^            |
| Indian River   | 4,555          | 768                | 115           | 98            | 803           | 131           | 138            | 219             | ^          | 148           | 16           |
| Jackson        | 805            | 103                | 13            | 33            | 143           | ^             | 27             | 24              | ^          | 34            | 23           |
| Jefferson      | 448            | 58                 | ^             | ^             | 100           | 22            | ^              | 26              | ^          | 11            | ^            |
| Lafayette      | 98             | 28                 | ^             | ^             | 20            | ^             | ^              | ^               | ^          | ^             | ^            |
| Lake           | 10,792         | 1,514              | 227           | 166           | 1,824         | 317           | 284            | 379             | 39         | 220           | 28           |
| Lee            | 15,060         | 2,334              | 414           | 303           | 2,262         | 373           | 275            | 867             | ^          | 373           | 72           |
| Leon           | 5,005          | 468                | 242           | 282           | 564           | 90            | 72             | 313             | ^          | 132           | 54           |
| Levy           | 1,328          | 163                | 48            | 27            | 248           | 48            | 111            | 119             | ^          | 39            | ^            |
| Liberty        | 136            | ^                  | ^             | ^             | ^             | ^             | ^              | ^               | ^          | ^             | 10           |
| Madison        | 439            | 74                 | 10            | 22            | 75            | ^             | ^              | ^               | ^          | 10            | ^            |
| Manatee        | 9,363          | 1,353              | 195           | 266           | 1,498         | 348           | 261            | 389             | ^          | 129           | 74           |
| Marion         | 11,914         | 2,005              | 286           | 100           | 1,965         | 353           | 251            | 507             | 11         | 235           | 106          |
| Martin         | 4,735          | 825                | 179           | 54            | 880           | 176           | 155            | 193             | 17         | 39            | ^            |
| Monroe         | 1,900          | 389                | 18            | 37            | 261           | 107           | 37             | 48              | ^          | 15            | 40           |
| Nassau         | 1,771          | 248                | 23            | 30            | 261           | 39            | 34             | 94              | ^          | ^             | ^            |
| Okaloosa       | 3,785          | 572                | 71            | 76            | 500           | 151           | 120            | 92              | ^          | 52            | 26           |
| Okeechobee     | 1,400          | 145                | 10            | 37            | 230           | 86            | 44             | 66              | ^          | 55            | ^            |
| Orange         | 28,756         | 4,153              | 594           | 655           | 4,018         | 508           | 844            | 1,398           | 95         | 616           | 172          |
| Osceola        | 6,110          | 699                | 145           | 177           | 958           | 87            | 115            | 335             | ^          | 112           | 41           |
| Palm Beach     | 41,324         | 5,443              | 853           | 908           | 5,808         | 1,280         | 892            | 1,829           | 58         | 882           | 291          |
| Pasco          | 13,956         | 2,073              | 385           | 286           | 2,253         | 483           | 394            | 547             | ^          | 371           | 86           |
| Pinellas       | 30,347         | 4,244              | 789           | 665           | 4,927         | 1,197         | 916            | 1,144           | 45         | 608           | 154          |
| Polk           | 19,136         | 2,837              | 596           | 258           | 3,130         | 658           | 532            | 875             | 34         | 247           | 112          |
| Putnam         | 2,342          | 395                | 116           | 49            | 506           | 48            | 75             | 94              | 16         | ^             | ^            |
| Saint Johns    | 4,363          | 506                | 88            | 115           | 662           | 129           | 132            | 224             | ^          | 92            | 13           |
| Saint Lucie    | 8,188          | 1,330              | 242           | 152           | 1,154         | 196           | 156            | 366             | 10         | 215           | 52           |
| Santa Rosa     | 3,051          | 546                | 70            | 37            | 361           | 87            | 74             | 125             | 21         | 90            | 25           |
| Sarasota       | 10,502         | 1,586              | 352           | 126           | 1,738         | 306           | 257            | 518             | 42         | 202           | 50           |
| Seminole       | 11,014         | 1,497              | 332           | 229           | 1,154         | 276           | 175            | 600             | 19         | 253           | 43           |
| Sumter         | 2,918          | 402                | 118           | 55            | 531           | 56            | 61             | 72              | ^          | 72            | ^            |
| Suwannee       | 1,339          | 240                | 18            | 33            | 136           | 73            | 39             | 157             | ^          | ^             | ^            |
| Taylor         | 448            | 57                 | 22            | 18            | 72            | ^             | ^              | 23              | ^          | 12            | ^            |
| Union          | 1,431          | 253                | 43            | ^             | 124           | 28            | 70             | 64              | ^          | ^             | 14           |
| Volusia        | 13,837         | 2,633              | 195           | 206           | 1,981         | 310           | 282            | 624             | 23         | 295           | 131          |
| Wakulla        | 706            | 116                | 51            | 25            | 83            | 22            | ^              | 71              | ^          | 18            | ^            |
| Walton         | 1,048          | 121                | 23            | 36            | 170           | ^             | 40             | 74              | ^          | 36            | 10           |
| Washington     | 460            | 54                 | 15            | ^             | 63            | ^             | 18             | 36              | ^          | ^             | ^            |

(1) Length of stay is number of days.

Source of data: Agency for Health Care Administration

^ Cells with less than 10 days are not displayed.

**Table 38. Total Charges (1) for All Cancer Hospitalizations by Sex and Race, Florida, 2008**

|              | All<br>Cancers | Lung &<br>Bronchus | Prostate | Breast | Colorectal | Bladder | Head &<br>Neck | Non-<br>Hodgkin | Melanoma | Ovary | Cervix |
|--------------|----------------|--------------------|----------|--------|------------|---------|----------------|-----------------|----------|-------|--------|
| Florida      | 4,480.4        | 587.6              | 208.0    | 163.8  | 637.9      | 127.9   | 123.7          | 204.8           | 7.4      | 91.6  | 37.0   |
| Female       | 2,166.6        | 266.9              |          | 163.8  | 301.5      | 28.7    | 32.2           | 89.4            | 2.3      | 91.6  | 37.0   |
| Male         | 2,313.8        | 320.8              | 208.0    |        | 336.4      | 99.2    | 91.5           | 115.4           | 5.1      |       |        |
| Black        | 759.9          | 74.8               | 44.5     | 30.8   | 104.8      | 14.1    | 21.1           | 33.5            |          | 13.0  | 9.3    |
| White        | 3,645.4        | 505.1              | 159.8    | 130.2  | 523.7      | 112.4   | 99.7           | 166.9           | 7.4      | 76.3  | 26.9   |
| Black Female | 378.8          | 27.7               |          | 30.8   | 52.6       | 4.0     | 5.5            | 16.5            |          | 13.0  | 9.3    |
| White Female | 1,753.5        | 236.2              |          | 130.2  | 244.6      | 24.1    | 26.0           | 71.2            | 2.3      | 76.3  | 26.9   |
| Black Male   | 381.1          | 47.0               | 44.5     |        | 52.2       | 10.1    | 15.7           | 17.1            |          |       |        |
| White Male   | 1,891.9        | 269.0              | 159.8    |        | 279.1      | 88.3    | 73.8           | 95.7            | 5.1      |       |        |

(1) Charges are shown in millions of dollars.

Source of data: Agency for Health Care Administration

**Table 39. Median Charge (1) per Cancer Hospitalization by Sex and Race, Florida, 2008**

|              | All<br>Cancers | Lung &<br>Bronchus | Prostate | Breast | Colorectal | Bladder | Head &<br>Neck | Non-<br>Hodgkin | Melanoma | Ovary  | Cervix |
|--------------|----------------|--------------------|----------|--------|------------|---------|----------------|-----------------|----------|--------|--------|
| Florida      | 38,919         | 44,909             | 32,601   | 29,028 | 53,018     | 34,286  | 42,515         | 48,869          | 25,608   | 42,820 | 31,267 |
| Female       | 37,685         | 44,372             |          | 29,028 | 51,610     | 33,872  | 40,727         | 48,840          | 23,438   | 42,820 | 31,267 |
| Male         | 39,386         | 45,515             | 32,601   |        | 54,220     | 34,341  | 43,597         | 48,942          | 27,380   |        |        |
| Black        | 40,862         | 45,620             | 36,742   | 31,272 | 57,580     | 42,021  | 45,667         | 59,600          |          | 47,332 | 33,468 |
| White        | 38,365         | 44,734             | 31,916   | 28,528 | 52,176     | 33,525  | 42,199         | 46,988          | 25,608   | 42,088 | 29,956 |
| Black Female | 38,919         | 42,604             |          | 31,272 | 56,250     | 37,241  | 47,425         | 60,603          |          | 47,332 | 33,468 |
| White Female | 37,368         | 44,563             |          | 28,528 | 50,881     | 33,562  | 39,537         | 45,225          | 23,438   | 42,088 | 29,956 |
| Black Male   | 43,475         | 48,957             | 36,742   |        | 59,234     | 47,488  | 44,688         | 57,152          |          |        |        |
| White Male   | 38,919         | 44,877             | 31,916   |        | 53,463     | 33,417  | 43,445         | 47,892          | 27,380   |        |        |

(1) Charges are expressed in dollars.

Source of data: Agency for Health Care Administration

**Table 40. Total Charges (1) for All Cancer Hospitalizations by County, Florida, 2008**

|                | All<br>Cancers   | Lung &<br>Bronchus | Prostate       | Breast         | Colorectal     | Bladder        | Head &<br>Neck | Non-<br>Hodgkin | Melanoma     | Ovary         | Cervix        |
|----------------|------------------|--------------------|----------------|----------------|----------------|----------------|----------------|-----------------|--------------|---------------|---------------|
| <b>Florida</b> | <b>4,480,405</b> | <b>587,637</b>     | <b>208,027</b> | <b>163,754</b> | <b>637,862</b> | <b>127,876</b> | <b>123,684</b> | <b>204,832</b>  | <b>7,385</b> | <b>91,550</b> | <b>36,999</b> |
| Alachua        | 56,874           | 6,579              | 4,549          | 2,408          | 7,791          | 2,264          | 1,502          | 2,857           | 40           | 1,432         | 203           |
| Baker          | 5,758            | 990                | 80             | 163            | 590            | 111            | 224            | 307             | 30           | 181           | ^             |
| Bay            | 31,129           | 4,352              | 2,706          | 611            | 3,831          | 827            | 594            | 1,257           | 113          | 670           | 202           |
| Bradford       | 6,207            | 752                | 456            | 308            | 1,345          | 76             | 184            | 68              | ^            | 58            | 177           |
| Brevard        | 125,109          | 18,319             | 5,212          | 3,755          | 16,922         | 4,315          | 3,904          | 6,234           | 195          | 2,475         | 588           |
| Broward        | 439,583          | 54,689             | 17,956         | 20,148         | 61,898         | 10,734         | 11,481         | 19,829          | 1,227        | 8,323         | 4,620         |
| Calhoun        | 1,862            | 311                | 198            | 18             | 371            | 92             | ^              | 61              | ^            | 87            | ^             |
| Charlotte      | 51,154           | 6,738              | 1,985          | 1,201          | 8,759          | 1,991          | 1,261          | 2,093           | 34           | 967           | 107           |
| Citrus         | 38,955           | 3,841              | 1,430          | 1,647          | 7,275          | 1,622          | 1,137          | 1,942           | ^            | 1,182         | 136           |
| Clay           | 43,948           | 6,159              | 1,245          | 1,292          | 5,458          | 1,404          | 1,458          | 2,983           | ^            | 576           | 95            |
| Collier        | 61,800           | 6,907              | 5,836          | 1,112          | 9,896          | 1,657          | 1,298          | 3,317           | 169          | 1,249         | 407           |
| Columbia       | 15,170           | 2,546              | 474            | 814            | 2,355          | 581            | 385            | 384             | 20           | 410           | 213           |
| Miami-Dade     | 714,556          | 76,692             | 31,342         | 30,299         | 103,550        | 19,683         | 20,068         | 34,501          | 789          | 15,571        | 9,391         |
| Desoto         | 5,426            | 790                | 349            | 172            | 668            | 15             | ^              | 58              | ^            | ^             | ^             |
| Dixie          | 4,900            | 956                | 347            | 104            | 516            | 117            | 28             | 260             | ^            | 282           | 30            |
| Duval          | 169,156          | 22,240             | 6,999          | 4,380          | 20,390         | 4,885          | 8,067          | 7,418           | 237          | 3,058         | 1,445         |
| Escambia       | 46,089           | 7,216              | 2,263          | 1,222          | 5,736          | 885            | 1,231          | 2,078           | 147          | 665           | 277           |
| Flagler        | 19,301           | 3,322              | 1,055          | 556            | 2,890          | 488            | 693            | 1,475           | ^            | 309           | 115           |
| Franklin       | 1,651            | 345                | 16             | 53             | 196            | 33             | 43             | ^               | ^            | 95            | 39            |
| Gadsden        | 7,950            | 578                | 491            | 398            | 1,318          | 146            | 137            | 531             | 75           | 115           | 115           |
| Gilchrist      | 4,551            | 1,151              | 71             | 203            | 1,169          | 58             | 98             | 74              | ^            | 53            | ^             |
| Glades         | 1,304            | 157                | ^              | 73             | 299            | ^              | 317            | ^               | ^            | ^             | ^             |
| Gulf           | 3,037            | 696                | 273            | 25             | 352            | 54             | ^              | ^               | ^            | 17            | ^             |
| Hamilton       | 3,030            | 180                | 267            | 189            | 593            | 214            | ^              | 341             | ^            | ^             | 49            |
| Hardee         | 5,903            | 359                | 234            | 216            | 693            | 23             | 14             | 1,063           | ^            | 102           | 22            |
| Hendry         | 6,353            | 1,160              | 100            | 356            | 1,063          | 276            | 100            | 394             | ^            | 183           | 66            |
| Hernando       | 61,276           | 7,611              | 1,354          | 2,384          | 10,616         | 1,295          | 1,629          | 1,901           | 22           | 1,540         | 123           |
| Highlands      | 25,040           | 3,560              | 1,178          | 1,032          | 4,304          | 941            | 924            | 1,125           | 12           | 597           | 255           |
| Hillsborough   | 283,451          | 39,244             | 12,999         | 10,818         | 37,000         | 7,227          | 8,144          | 13,400          | 269          | 5,456         | 2,715         |
| Holmes         | 1,451            | 156                | ^              | 66             | 330            | 31             | ^              | 19              | ^            | 14            | 33            |
| Indian River   | 30,946           | 4,594              | 1,617          | 1,549          | 4,386          | 1,064          | 1,181          | 1,443           | 46           | 1,198         | 144           |
| Jackson        | 4,435            | 286                | 250            | 228            | 658            | 12             | 337            | 146             | ^            | 172           | 171           |
| Jefferson      | 3,315            | 411                | 100            | 38             | 739            | 85             | ^              | 181             | ^            | 100           | 45            |
| Lafayette      | 740              | 291                | 46             | 50             | 56             | ^              | 53             | ^               | ^            | ^             | ^             |
| Lake           | 80,838           | 10,313             | 3,617          | 1,891          | 12,443         | 2,287          | 2,272          | 2,821           | 354          | 1,952         | 311           |
| Lee            | 107,725          | 15,013             | 5,552          | 3,227          | 16,464         | 3,012          | 2,165          | 5,970           | 45           | 2,385         | 618           |
| Leon           | 32,225           | 2,782              | 2,335          | 2,589          | 3,612          | 619            | 519            | 1,688           | 19           | 810           | 403           |
| Levy           | 12,514           | 1,429              | 1,256          | 436            | 2,689          | 566            | 821            | 713             | ^            | 328           | 59            |
| Liberty        | 860              | 89                 | 74             | 58             | 38             | ^              | ^              | ^               | ^            | ^             | 83            |
| Madison        | 2,276            | 186                | 129            | 136            | 461            | 33             | ^              | 35              | ^            | 122           | ^             |
| Manatee        | 66,424           | 9,423              | 2,457          | 3,365          | 9,913          | 2,471          | 1,735          | 2,837           | 10           | 1,016         | 527           |
| Marion         | 88,822           | 12,747             | 4,514          | 1,258          | 13,077         | 2,626          | 2,362          | 4,559           | 75           | 1,804         | 835           |
| Martin         | 43,181           | 7,159              | 2,998          | 1,018          | 7,178          | 1,653          | 1,482          | 1,900           | 184          | 315           | 80            |
| Monroe         | 18,324           | 2,571              | 551            | 903            | 2,525          | 856            | 448            | 675             | 20           | 200           | 543           |
| Nassau         | 12,822           | 1,573              | 371            | 524            | 1,901          | 240            | 401            | 631             | ^            | 45            | 46            |
| Okaloosa       | 38,243           | 6,086              | 878            | 1,272          | 6,137          | 1,730          | 1,279          | 732             | ^            | 545           | 273           |
| Okeechobee     | 12,171           | 1,051              | 265            | 482            | 2,043          | 841            | 380            | 492             | ^            | 246           | 61            |
| Orange         | 241,157          | 32,604             | 10,582         | 7,749          | 33,573         | 4,164          | 7,039          | 11,062          | 793          | 5,735         | 1,568         |
| Osceola        | 55,834           | 6,256              | 2,342          | 2,420          | 8,919          | 930            | 1,048          | 2,866           | 79           | 1,096         | 415           |
| Palm Beach     | 356,179          | 45,793             | 11,512         | 14,226         | 47,337         | 11,234         | 8,489          | 15,654          | 511          | 7,656         | 2,383         |
| Pasco          | 137,833          | 21,728             | 7,646          | 4,915          | 21,086         | 4,624          | 3,885          | 4,453           | 105          | 3,249         | 973           |
| Pinellas       | 256,170          | 34,922             | 13,800         | 10,717         | 38,389         | 9,285          | 6,801          | 9,150           | 331          | 5,545         | 1,687         |
| Polk           | 152,125          | 22,458             | 8,567          | 4,362          | 22,707         | 4,820          | 4,326          | 7,396           | 281          | 1,912         | 888           |
| Putnam         | 15,919           | 2,214              | 1,168          | 511            | 2,990          | 424            | 618            | 683             | 144          | 79            | 54            |
| Saint Johns    | 32,426           | 3,129              | 1,301          | 1,415          | 4,787          | 1,010          | 1,440          | 1,287           | 56           | 605           | 96            |
| Saint Lucie    | 77,297           | 12,495             | 3,959          | 2,965          | 10,144         | 2,087          | 1,329          | 3,359           | 115          | 1,788         | 880           |
| Santa Rosa     | 21,499           | 3,609              | 727            | 509            | 2,910          | 566            | 427            | 983             | 102          | 641           | 165           |
| Sarasota       | 81,339           | 11,458             | 5,575          | 1,521          | 12,116         | 2,395          | 1,792          | 4,232           | 266          | 1,313         | 335           |
| Seminole       | 91,910           | 11,854             | 5,233          | 2,497          | 9,131          | 2,641          | 1,549          | 4,967           | 210          | 1,891         | 534           |
| Sumter         | 22,633           | 2,852              | 2,280          | 808            | 3,867          | 351            | 578            | 533             | ^            | 465           | 46            |
| Suwannee       | 10,508           | 1,828              | 248            | 509            | 993            | 662            | 395            | 1,030           | ^            | ^             | 38            |
| Taylor         | 3,106            | 297                | 363            | 142            | 488            | ^              | 21             | 179             | 31           | 50            | 26            |
| Union          | 12,473           | 2,144              | 420            | 110            | 1,038          | 233            | 877            | 568             | ^            | ^             | 144           |
| Volusia        | 95,419           | 15,371             | 2,938          | 2,335          | 12,243         | 2,000          | 2,252          | 4,316           | 220          | 2,245         | 1,027         |
| Wakulla        | 5,232            | 698                | 414            | 186            | 559            | 171            | 43             | 499             | ^            | 90            | 71            |
| Walton         | 10,348           | 949                | 316            | 757            | 1,798          | 140            | 291            | 623             | ^            | 258           | 50            |
| Washington     | 3,163            | 377                | 159            | 50             | 291            | ^              | 130            | 196             | ^            | 20            | ^             |

^ Statistics for cells with less than 10 hospitalizations are not displayed.

(1) Charges are shown in thousands of dollars.

Source of data: Agency for Health Care Administration

Table 41. Median Charge (1) per Cancer Hospitalization by County, Florida, 2008

|                | All<br>Cancers | Lung &<br>Bronchus | Prostate      | Breast        | Colorectal    | Bladder       | Head &<br>Neck | Non-<br>Hodgkin | Melanoma      | Ovary         | Cervix        |
|----------------|----------------|--------------------|---------------|---------------|---------------|---------------|----------------|-----------------|---------------|---------------|---------------|
| <b>Florida</b> | <b>38,919</b>  | <b>44,909</b>      | <b>32,601</b> | <b>29,028</b> | <b>53,018</b> | <b>34,286</b> | <b>42,515</b>  | <b>48,869</b>   | <b>25,608</b> | <b>42,821</b> | <b>31,267</b> |
| Alachua        | 38,919         | 47,252             | 36,416        | 35,156        | 68,743        | 53,469        | 43,098         | 45,898          | 19,930        | 34,753        | 21,797        |
| Baker          | 34,330         | 37,772             | 26,905        | 20,861        | 37,870        | 55,567        | 111,787        | 59,946          | 29,904        | 90,696        | ^             |
| Bay            | 29,544         | 38,666             | 26,306        | 14,817        | 40,993        | 19,883        | 22,881         | 40,650          | 56,566        | 35,770        | 23,531        |
| Bradford       | 38,919         | 27,512             | 43,203        | 37,151        | 41,385        | 18,956        | 43,124         | 34,116          | ^             | 29,189        | 27,611        |
| Brevard        | 32,326         | 36,744             | 31,888        | 20,625        | 42,450        | 29,604        | 40,617         | 38,925          | 23,320        | 34,018        | 20,332        |
| Broward        | 40,415         | 49,352             | 37,833        | 31,925        | 54,928        | 35,913        | 46,023         | 55,094          | 25,644        | 45,810        | 33,019        |
| Calhoun        | 20,896         | 30,138             | 26,448        | 18,033        | 25,073        | 26,912        | ^              | 8,769           | ^             | 43,286        | ^             |
| Charlotte      | 38,752         | 40,391             | 30,052        | 29,049        | 61,100        | 32,311        | 38,668         | 42,811          | 16,988        | 31,146        | 29,048        |
| Citrus         | 34,195         | 26,919             | 25,138        | 35,190        | 58,158        | 42,187        | 29,602         | 55,713          | ^             | 38,275        | 20,089        |
| Clay           | 43,883         | 58,923             | 31,338        | 38,700        | 65,368        | 60,244        | 42,955         | 68,460          | ^             | 42,783        | 47,404        |
| Collier        | 33,038         | 39,418             | 28,466        | 25,903        | 51,959        | 26,510        | 24,948         | 45,374          | 36,374        | 36,623        | 24,955        |
| Columbia       | 36,340         | 35,775             | 49,361        | 33,429        | 69,008        | 17,769        | 40,598         | 44,262          | 19,725        | 58,196        | 26,648        |
| Miami-Dade     | 44,129         | 50,651             | 36,058        | 37,420        | 66,104        | 35,894        | 54,684         | 55,754          | 40,460        | 53,603        | 38,467        |
| Desoto         | 34,642         | 47,046             | 31,579        | 31,000        | 88,252        | 14,759        | ^              | 26,150          | ^             | ^             | ^             |
| Dixie          | 45,768         | 63,222             | 74,038        | 26,502        | 77,879        | 27,828        | 27,862         | 22,256          | ^             | 282,478       | 29,755        |
| Duval          | 37,652         | 38,095             | 34,104        | 23,434        | 46,116        | 38,443        | 50,600         | 51,365          | 30,174        | 39,508        | 20,467        |
| Escambia       | 30,065         | 35,840             | 26,669        | 25,188        | 36,272        | 27,247        | 24,352         | 39,858          | 25,040        | 29,736        | 19,320        |
| Flagler        | 31,531         | 44,554             | 28,550        | 17,662        | 39,692        | 41,491        | 33,469         | 43,857          | ^             | 23,046        | 22,608        |
| Franklin       | 33,129         | 43,911             | 15,952        | 17,872        | 63,661        | 32,579        | 42,550         | ^               | ^             | 47,489        | 38,919        |
| Gadsden        | 28,430         | 30,742             | 20,057        | 18,461        | 51,707        | 73,167        | 68,414         | 33,807          | 75,087        | 47,571        | 57,353        |
| Gilchrist      | 38,919         | 82,483             | 35,374        | 33,269        | 88,205        | 28,816        | 49,112         | 12,567          | ^             | 53,236        | ^             |
| Glades         | 34,844         | 26,886             | ^             | 36,420        | 72,990        | ^             | 67,386         | ^               | ^             | ^             | ^             |
| Gulf           | 29,162         | 42,497             | 24,948        | 12,662        | 37,582        | 53,855        | ^              | ^               | ^             | 17,239        | ^             |
| Hamilton       | 46,263         | 29,752             | 93,936        | 34,995        | 81,398        | 34,710        | ^              | 170,524         | ^             | ^             | 49,106        |
| Hardee         | 36,393         | 33,139             | 37,530        | 29,785        | 63,308        | 11,713        | 13,626         | 116,486         | ^             | 51,194        | 22,131        |
| Hendry         | 29,849         | 27,876             | 22,395        | 42,940        | 35,813        | 30,918        | 16,030         | 38,919          | ^             | 45,400        | 25,326        |
| Hernando       | 51,684         | 52,999             | 34,374        | 38,452        | 83,643        | 38,107        | 36,950         | 75,076          | 22,016        | 52,102        | 30,234        |
| Highlands      | 35,598         | 38,445             | 34,571        | 27,064        | 48,918        | 40,413        | 32,753         | 41,128          | 12,298        | 47,217        | 28,375        |
| Hillsborough   | 43,966         | 55,730             | 39,895        | 29,262        | 59,749        | 41,192        | 42,078         | 65,390          | 19,469        | 48,708        | 39,267        |
| Holmes         | 22,505         | 44,990             | ^             | 32,782        | 28,434        | 30,776        | ^              | 18,924          | ^             | 14,313        | 32,822        |
| Indian River   | 31,502         | 37,660             | 31,524        | 29,521        | 34,342        | 23,878        | 38,802         | 27,414          | 18,677        | 54,664        | 22,306        |
| Jackson        | 21,855         | 25,804             | 29,576        | 12,720        | 30,161        | 12,252        | 42,321         | 5,862           | ^             | 31,849        | 29,799        |
| Jefferson      | 41,758         | 64,609             | 27,586        | 12,944        | 83,320        | 35,529        | ^              | 42,825          | ^             | 49,813        | 22,525        |
| Lafayette      | 31,080         | 68,077             | 23,032        | 25,202        | 55,744        | ^             | 52,901         | ^               | ^             | ^             | ^             |
| Lake           | 35,796         | 41,292             | 28,666        | 21,108        | 46,048        | 37,359        | 41,817         | 39,122          | 32,948        | 48,700        | 37,144        |
| Lee            | 32,957         | 38,372             | 25,526        | 22,731        | 45,582        | 49,348        | 33,012         | 44,106          | 22,552        | 35,888        | 27,011        |
| Leon           | 26,908         | 31,018             | 22,395        | 20,551        | 33,242        | 30,033        | 22,383         | 38,532          | 19,313        | 38,919        | 28,341        |
| Levy           | 44,088         | 41,301             | 28,133        | 34,353        | 74,588        | 33,154        | 53,734         | 34,592          | ^             | 84,848        | 59,410        |
| Liberty        | 21,392         | 88,574             | 19,908        | 14,069        | 37,580        | ^             | ^              | ^               | ^             | ^             | 20,135        |
| Madison        | 27,991         | 13,441             | 34,138        | 15,080        | 42,821        | 16,528        | ^              | 35,328          | ^             | 61,062        | ^             |
| Manatee        | 31,988         | 36,416             | 31,892        | 21,692        | 44,276        | 33,164        | 27,784         | 40,186          | 9,649         | 23,221        | 26,136        |
| Marion         | 35,420         | 40,726             | 25,386        | 18,475        | 49,479        | 34,388        | 56,388         | 45,230          | 18,060        | 37,752        | 44,673        |
| Martin         | 40,009         | 48,134             | 33,433        | 34,310        | 54,866        | 27,390        | 48,742         | 54,744          | 30,364        | 31,652        | 40,184        |
| Monroe         | 47,402         | 64,455             | 35,438        | 32,535        | 67,036        | 29,492        | 51,288         | 142,709         | 20,171        | 48,415        | 63,398        |
| Nassau         | 33,866         | 38,361             | 29,219        | 29,968        | 42,949        | 23,204        | 35,442         | 46,214          | ^             | 44,831        | 15,499        |
| Okaloosa       | 49,520         | 58,930             | 31,448        | 57,945        | 92,160        | 45,723        | 80,948         | 65,040          | ^             | 52,263        | 20,366        |
| Okeechobee     | 38,919         | 44,697             | 28,150        | 36,740        | 63,256        | 16,503        | 47,561         | 61,557          | ^             | 69,157        | 30,650        |
| Orange         | 42,367         | 52,232             | 36,800        | 30,717        | 60,957        | 38,630        | 45,110         | 49,754          | 31,074        | 50,722        | 27,236        |
| Osceola        | 44,563         | 59,160             | 32,848        | 29,133        | 66,408        | 28,897        | 64,532         | 66,264          | 20,088        | 47,602        | 34,483        |
| Palm Beach     | 38,919         | 45,515             | 31,914        | 38,110        | 51,188        | 32,371        | 38,919         | 48,899          | 36,116        | 45,134        | 34,562        |
| Pasco          | 44,714         | 60,358             | 40,292        | 29,779        | 63,002        | 37,941        | 42,884         | 56,249          | 22,762        | 49,612        | 38,063        |
| Pinellas       | 40,534         | 47,774             | 36,122        | 26,910        | 58,129        | 40,408        | 45,096         | 49,597          | 17,789        | 47,320        | 28,111        |
| Polk           | 39,801         | 50,603             | 38,363        | 31,482        | 50,324        | 24,104        | 45,993         | 53,451          | 24,339        | 49,757        | 35,879        |
| Putnam         | 34,596         | 32,701             | 34,413        | 18,869        | 43,915        | 33,050        | 55,318         | 34,760          | 16,871        | 39,596        | 53,525        |
| Saint Johns    | 35,863         | 43,790             | 32,336        | 26,227        | 49,378        | 36,616        | 44,035         | 38,136          | 27,897        | 38,751        | 24,232        |
| Saint Lucie    | 42,603         | 54,255             | 38,955        | 39,750        | 52,726        | 39,170        | 47,348         | 41,644          | 44,308        | 44,818        | 42,306        |
| Santa Rosa     | 29,735         | 36,818             | 23,412        | 21,163        | 40,956        | 56,967        | 34,435         | 38,066          | 51,148        | 37,296        | 32,178        |
| Sarasota       | 30,567         | 38,020             | 32,479        | 24,148        | 39,298        | 23,389        | 32,767         | 28,766          | 44,880        | 25,244        | 21,814        |
| Seminole       | 42,027         | 56,835             | 36,786        | 27,540        | 56,570        | 37,454        | 39,794         | 57,639          | 38,346        | 50,445        | 44,492        |
| Sumter         | 27,710         | 39,328             | 24,803        | 17,215        | 48,376        | 24,096        | 33,092         | 31,365          | ^             | 28,748        | 22,860        |
| Suwannee       | 35,476         | 34,468             | 33,117        | 31,162        | 41,313        | 55,418        | 41,345         | 47,094          | ^             | ^             | 37,651        |
| Taylor         | 26,334         | 34,174             | 34,384        | 12,712        | 39,222        | ^             | 21,209         | 48,721          | 15,566        | 25,128        | 26,448        |
| Union          | 50,532         | 83,609             | 59,720        | 33,620        | 60,319        | 29,817        | 55,469         | 107,526         | ^             | ^             | 47,284        |
| Volusia        | 32,093         | 37,628             | 32,246        | 16,931        | 33,503        | 28,346        | 51,706         | 41,193          | 19,386        | 31,898        | 33,624        |
| Wakulla        | 27,844         | 33,278             | 23,204        | 22,027        | 32,943        | 45,890        | 21,658         | 38,985          | ^             | 45,171        | 35,412        |
| Walton         | 41,624         | 33,774             | 27,656        | 51,525        | 76,294        | 36,641        | 19,152         | 98,142          | ^             | 86,028        | 11,224        |
| Washington     | 26,226         | 34,948             | 28,732        | 14,323        | 30,285        | ^             | 8,387          | 9,117           | ^             | 20,013        | ^             |

^ Statistics for cells with less than 10 hospitalizations are not displayed.

Source of data: Agency for Health Care Administration

(1) Charges are shown in thousands of dollars.



# CANCER CONTROL PROGRAMS IN FLORIDA

## CANCER PROGRAMS

### COMPREHENSIVE CANCER CONTROL PROGRAM

In 2001, the Florida Comprehensive Cancer Control (CCC) Program, housed in the Bureau of Chronic Disease Prevention and Health Promotion, was created through a cooperative agreement with the Centers for Disease Control and Prevention (CDC). The main objective of the cooperative agreement is to reduce the cancer burden through a collaborative effort with public and private partners. The CDC started the National Comprehensive Cancer Control Program (NCCCP) to help states, tribes, and territories form coalitions, also called programs, to fight cancer. These coalitions collect data to determine the greatest cancer-related needs in their area and develop and implement cancer plans to meet those needs.

Statewide support and leadership in Florida is provided by the Governor-appointed Cancer Control and Research Advisory Council (C-CRAB [sic]), established in Florida Statutes in 1979, as well as the Florida Cancer Plan Council (FCPC), which was established in 2004. These two councils are currently merging to better coordinate statewide planning and leadership. Local leadership and cancer control efforts are conducted through a network of regional partnerships, comprised of volunteer cancer stakeholders, called regional cancer control collaboratives who participate through representatives on the councils.

The CCC Program, in collaboration with the C-CRAB, FCPC, and regional cancer collaboratives facilitate cancer activities and initiatives throughout Florida based in part on the Council's prioritized goals and strategies of the Florida Cancer Plan 2010. Additionally, the CCC Program has created the Florida Cancer Plan Guide: Building Blocks to Reduce the Burden and Enhance Cancer Collaboratives as an accompanying document that provides a planning framework for cancer partners. The documents are available online at:

[http://www.doh.state.fl.us/family/cancer/ccc/plan/Florida\\_Cancer\\_Report.pdf](http://www.doh.state.fl.us/family/cancer/ccc/plan/Florida_Cancer_Report.pdf) and [http://www.doh.state.fl.us/family/cancer/ccc/plan/Florida\\_Cancer\\_Plan\\_Guide\\_2010.pdf](http://www.doh.state.fl.us/family/cancer/ccc/plan/Florida_Cancer_Plan_Guide_2010.pdf), respectively.

In addition, the CCC Program networks with other Department of Health programs in coordinating activities for overlapping risk factors including tobacco use, poor nutrition, lack of physical activity, and sun exposure. Other CCC Program activities include collaborating with the CDC on various media projects, promoting healthy lifestyles, disseminating educational materials for cancer prevention and reduction, and maintaining a program-specific website. Furthermore, the CCC Program provides the administration and management of contractual funds for several providers who are supported through "Closing the Gap - Reducing Racial and Ethnic Health Disparities." This program implements a sun safety program providing shade shelters and programming annually to school systems and provides funding for ovarian cancer initiatives annually.

For more information about CCC visit <http://www.doh.state.fl.us/family/cancer/index.html>.

## BREAST AND CERVICAL CANCER EARLY DETECTION PROGRAM

Established in 1994, the Florida Breast and Cervical Cancer Early Detection Program (BCCEDP) is a breast and cervical cancer screening program that provides reduced-cost or free mammograms, clinical breast exams, and Pap smears to low-income, under insured, or uninsured females between the ages of 50 and 64 who are at or below 200% of the Federal Poverty Level. Diagnostic exams are provided as needed and case management is provided to all clients. Treatment for eligible females may be paid by Medicaid with initial facilitation by case managers.

The program is funded by the CDC. All 67 Florida counties may access the BCCEDP through the 16 lead CHD sites that implement the program: Brevard, Broward, Duval, Escambia, Gadsden, Hillsborough, Jackson, Leon, Manatee, Miami-Dade, Orange, Osceola, Pasco, Pinellas, Putnam, and Volusia. Data are collected and utilized to assess the program's effectiveness and quality of services.

Outreach, public education, and professional education are provided at both the state and local level. There is a 24-hour hotline that provides callers with information on determining where the nearest clinic is to them. There are strong linkages between other CDC-funded cancer-related programs, e.g. Florida Comprehensive Cancer Control Program and the National Program of Cancer Registries, as well as with many programs within the DOH. These programs and other community agencies and organizations collaborate to enhance shared objectives and the success of the program.

More information about the Florida Breast and Cervical Cancer Early Detection Program is available at: [www.doh.state.fl.us/family/bcc/index.html](http://www.doh.state.fl.us/family/bcc/index.html).

## CANCER CONTROL AND RESEARCH ADVISORY COUNCIL

The Florida Cancer Control and Research Act, section 1004.435, F.S., created the C-CRAB in 1979. The C-CRAB is housed within the H. Lee Moffitt Cancer Center and Research Institute, Inc. The council consists of 35 members, with 33 members appointed by the Governor and one each by the House and the Senate. The members represent various cancer-focused organizations, agencies, universities, research institutes, legislators, and the general public.

The council formulates and makes recommendations to the State Surgeon General, the Board of Governors, and the Florida state legislators with regard to cancer policy and research for the state. These recommendations include, but are not limited to, approval of the state cancer plan, cancer control initiatives, and the awarding of grants and contracts, as funds are available, to establish, or conduct programs in cancer control or prevention, cancer education and training, and cancer research.

Technical Advisory Groups are formed by the council to review such areas as the state cancer plan evaluation, tobacco use prevention, cancer disparities, cancer-related data, and legislative initiatives. The council represents all cancer stakeholders in the state with a focused priority to reduce the burden of cancer for all citizens.

## **BANKHEAD-COLEY CANCER GRANT PROGRAM**

### **CANCER PROGRAMS**

The William B. “Bill” Bankhead, Jr. and David Coley Cancer Research Program, section 381.922, F.S., began in fiscal year 2006-07 and was re-enacted following a legislative review during the 2010 regular session. For FY 2009-10 funding was increased “up to” \$25 million dependent on revenue generated by a \$1.00 per pack user fee assessed on cigarette sales. In FY 2010-11, this was decreased to a fixed appropriation of \$20 million. The purpose of the program is to advance progress toward cures for cancer through grants awarded through a peer-reviewed, competitive process. The legislative intent of this program is to reduce dramatically the state's inordinately high cancer burden, both incidence and mortality, while advancing scientific endeavors in this state, making Florida a world-class leader in cancer research and treatment.

By statute, the program has been charged with achieving three long-term goals:

- Significantly expand cancer research capacity in the state.
- Improve both research and treatment through greater participation in clinical trials networks.
- Reduce the impact of cancer on disparate groups.

Since its inception in 2006, according to the 2010 Bankhead-Coley Cancer Research Program Annual Report, 177 awards valued at \$61.4 million have gone to researchers at 15 different institutions in Florida. This investment has resulted in \$109 million in funding directly attributable to research findings resulting from initial program funding. Nearly 300 articles of research findings have appeared in peer-reviewed journals.

DOH administers this program. The program web site is [www.floridabiomed.com](http://www.floridabiomed.com).

## **JAMES AND ESTHER KING BIOMEDICAL RESEARCH PROGRAM**

The James and Esther King Biomedical Research Program (section 215.5602, F.S.) was established in 1999 as a result of the historic tobacco lawsuit settlement agreement. Its mission is to provide funding for research on prevention, diagnosis, treatment, and cure of diseases related to tobacco use, including cancers. Medical evidence connecting tobacco usage with a wide range of serious illness, not the least of which is cancer, led the Florida Supreme Court to rule in July 2006 “that smoking cigarettes causes aortic aneurysm, bladder cancer, cerebrovascular disease, cervical cancer, chronic obstructive pulmonary disease, coronary heart disease, esophageal cancer, kidney cancer, laryngeal cancer, lung cancer (specifically, adenocarcinoma, large cell carcinoma, small cell carcinoma, and squamous cell carcinoma), complications of pregnancy, oral cavity/tongue cancer, pancreatic cancer, peripheral vascular disease, pharyngeal cancer, and stomach cancer” and “that nicotine in cigarettes is addictive.” According to the 2010 James and Esther King Biomedical Research Annual Report, 31% of all projects are cancer related.

The program was re-enacted following a legislative review during the 2010 regular session. For FY 2009-10 funding was increased to “up to” \$25 million dependent on revenue generated by a \$1.00 per pack user fee assessed on cigarette sales. In FY 2010-11 this was decreased to a fixed appropriation of \$20 million. The program also receives interest earned from a biomedical research set-aside within the Lawton Chiles Endowment Fund, ranging from \$1.5 – 6.0 million, depending on investment performance.

DOH administers this program and is advised by the 11-member Biomedical Research Advisory Council. The program web site is [www.floridabiomed.com](http://www.floridabiomed.com).

## FLORIDA TOBACCO PREVENTION CONTROL PROGRAM

Florida's involvement in tobacco prevention efforts dates back to 1989 when DOH began receiving federal funding to implement tobacco prevention and control activities. By 1997, Florida successfully settled with the tobacco industry for \$11.3 billion to recoup Medicaid costs incurred by smokers. As part of the settlement agreement, Florida launched the Tobacco Pilot Program targeting tobacco use among underage youth. Five years later, the funding for the tobacco program was cut to \$1 million, at which time the program discontinued several key components of its youth tobacco program, such as school-based tobacco education, youth development, and counter-marketing efforts, otherwise known as the "Truth" campaign.

As a result of a 2006 ballot initiative organized by Floridians for Youth Tobacco Education, Florida voters passed a constitutional amendment requiring the Florida Legislature to fund a comprehensive, statewide tobacco education and prevention program. Annual funding would be 15% of the 2006 tobacco settlement payments to Florida, adjusted annually for inflation, with one-third of the total annual funding being used for educational and counter-marketing mass media. The constitutional amendment requires that the tobacco program conform to the 1999 CDC Best Practices to target youth and other at-risk Floridians.

DOH's Tobacco Prevention and Control Program currently operates with a total of \$57.7 million in funding allocated from two sources: state funds (\$57 million) and the CDC (\$705,000). Approximately \$10 million of the \$57 million has been allocated to the Area Health Education Centers (AHEC) Network to expand smoking cessation initiatives to every county in the state.

DOH has enforcement responsibilities for the Florida Clean Indoor Air Act (FCIAA). Smoking became prohibited in enclosed indoor workplaces on July 1, 2004, with specific exceptions. The smoking prohibition was a result of the passage of Amendment 6 in November 2002. Amendment 6 was approved by 71% of Florida voters. The purpose of the FCIAA is to protect people from the health hazards of secondhand tobacco smoke and to implement Amendment 6, which is the Florida health initiative in section 20, Article X of the State Constitution. The Department of Business and Professional Regulation (DBPR) is the agency responsible for enforcing the FCIAA in restaurants, stand-alone bars, bowling centers, billiard halls, and any civic/fraternal organization that holds a beverage license with DBPR.

To assist residents who are interested in quitting smoking, DOH supports the tobacco cessation Quitline. This toll-free telephone-based (1-877-822-6669) service is available to any Florida resident who wants to quit using tobacco. The Quitline provides counseling, self-help materials, and pharmacotherapy coupons for individuals who call. In addition, the Quitline service is available in all languages as well as TDD for the hearing impaired.

The program conducts two surveys annually. The Florida Youth Tobacco Survey is administered to public middle and high school students. The Florida Adult Tobacco Survey is a random telephone survey that is administered to adults 18 and older. Both surveys measure smoking prevalence and behaviors. Results of the surveys are posted on the program's website at: [www.doh.state.fl.us/tobacco](http://www.doh.state.fl.us/tobacco).

## OFFICE OF MINORITY HEALTH

In July 2000, the Patient Protection Act, also known as Reducing Racial and Ethnic Health Disparities: Closing the Gap Act, was signed into law. The act provides funding for

community-based projects within Florida counties and Front Porch Florida Communities to eliminate health disparities. The act targets seven priority health areas, including cancer, in which racial and ethnic groups currently experience serious disparities in access to healthcare and health concerns.

DOH Office of Minority Health administers many grant programs, including three projects for early detection and referral of individuals with cancer to services. The availability of funds appropriated by the Florida Legislature is publicized through a grant announcement and application process. The Office of Minority Health is currently reviewing the "Closing the Gap" program to ensure efficiency and 21st century strategies designed to close the gaps in health disparities. Any person, entity, or organization within a single county may apply for a "Closing the Gap" grant.

## **FLORIDA CANCER CLINICAL TRIAL MATCHING SERVICE**

The Florida Cancer Clinical Trial Matching Service offers patients, caregivers, and their healthcare providers up-to-date information about clinical trials available in the state of Florida. This unique patient resource was created by the FDOC in 2004 to address Florida's growing cancer burden and the need for increased clinical trials participation. The Clinical Trial Matching Service is administered and maintained by the American Cancer Society.

Individuals are able to access the Florida Cancer Clinical Trial Matching Service by telephone and by internet. Information is available in English and Spanish. The process begins by answering a brief series of questions about the patient's diagnosis and treatment. The matching service will then find appropriate clinical trials in Florida or throughout the United States. Each patient decides whether to contact a medical center and enroll in a specific trial. All information is kept strictly confidential and the service is provided free of charge.

There are approximately 1,000 sessions accessing the Trial Matching Service each month. Since its inception, approximately 5,000 patients have been referred for clinical trials. Learn more about the Florida Cancer Clinical Trial Matching Service at 1-800-584-9976, or via the internet at: [www.floridacancertrials.com](http://www.floridacancertrials.com).

## **AMERICAN CANCER SOCIETY**

The American Cancer Society (ACS) represents the world's largest voluntary, community-based health agency. Dedicated to eliminating cancer through research, advocacy, education, and service, the ACS's mission is closely aligned with the goals of the Florida Cancer Plan. The Florida Division of the ACS has provided help for the development of the regional cancer plans and works with other organizations and agencies to achieve the goals of the Florida Cancer Plan. The ACS web site is [www.cancer.org](http://www.cancer.org).

## **THE AMERICAN COLLEGE OF SURGEONS, THE COMMISSION ON CANCER**

The Commission on Cancer (CoC), of the American College of Surgeons, is a consortium of professional organizations dedicated to improving survival and quality of life for cancer patients. The CoC Approvals Program recognizes hospitals and treatment centers that have cancer programs offering high-quality care through various cancer-related programs. These programs are concerned with cancer prevention, early diagnosis, pretreatment evaluation, staging, optimal treatment, rehabilitation, surveillance for recurrent disease, support services, and end-of-life care.



There are 70 cancer programs located throughout Florida that have received CoC approval. To meet the standards necessary for CoC approval, each cancer program must undergo a rigorous evaluation and performance review. In order to maintain approval, facilities must undergo an on-site review every three years. Receiving care at a CoC-approved cancer program ensures that patients will receive comprehensive care, with state of the art services and equipment, via a multi-specialty team approach, close to their home.

An important component of each CoC-approved program is its Cancer Liaison Physician. Cancer Liaison Physicians are volunteer physicians responsible for providing the leadership and direction to establish, maintain, and support their facility's cancer program. A close collaborative relationship is maintained between each CoC-approved cancer program and the ACS. Information on the services available at each CoC-approved program is shared with the ACS, and is available to the public on the ACS website - CoC Hospital Locator at: [www.cancer.org](http://www.cancer.org). This unique program allows Floridians to locate hospitals close to their home that have received CoC approval. More information on the CoC can be obtained at: [www.facs.org/cancer](http://www.facs.org/cancer).

## **THE NATIONAL CANCER INSTITUTE'S CANCER INFORMATION SERVICE**

The Coastal Cancer Information Service (CIS) is a program of the National Cancer Institute. The CIS is a national program that helps people, particularly those who are medically underserved, become active participants in their own healthcare by providing the latest information on cancer in understandable language. Serving Florida, Puerto Rico, and the U.S. Virgin Islands, the main coastal office is located at the Sylvester Comprehensive Cancer Center at the University of Miami. Additional Coastal CIS offices are in Tallahassee and Tampa, Florida, and San Juan, Puerto Rico. Access to cancer information can be obtained through 1-800-4-CANCER and at: [www.cancer.gov](http://www.cancer.gov) for instant messaging and email.

## **CHILDREN'S MEDICAL SERVICES PEDIATRIC HEMATOLOGY/ONCOLOGY CENTERS PROGRAM**

Children's Medical Services (CMS), the state's Title V program for children under the age of 21 with special healthcare needs, provides a family-centered, comprehensive, and coordinated statewide managed system of care. The CMS Pediatric Hematology/Oncology Centers Program is a regionalized program that was initiated in 1988 and is authorized by section 385.206, F.S. Children with blood disorders or with cancer who are enrolled in the CMS Network are eligible to participate in the CMS Pediatric Hematology/Oncology Centers Program. To be enrolled in the CMS Network, a child must meet the clinical and financial eligibility criteria mandated by section 391.029, F.S.

CMS contracts with pediatric hematology/oncology centers throughout the state. The centers meet standards developed by CMS and are members of the Children's Oncology Group (COG), a National Cancer Institute-supported clinical trials cooperative group devoted exclusively to childhood and adolescent cancer research. To be a member of COG, institutions must fulfill stringent competence, commitment, and compliance criteria. There are currently ten CMS designated centers providing comprehensive, multidisciplinary childhood cancer treatment services.

The centers provide medical evaluation and diagnosis, long-term medical management and treatment, and other healthcare services. Pediatric hematology/oncology physicians and other healthcare staff from the Pediatric Hematology/Oncology Centers conduct clinics at some of the CMS area offices. CMS nurses and social workers provide care coordination for families and assist them in obtaining services that are needed for their child's care.

For more information about Children's Medical Services, visit [www.cms-kids.com](http://www.cms-kids.com) or [www.doh.state.fl.us/cms](http://www.doh.state.fl.us/cms).

## **FLORIDA ASSOCIATION OF PEDIATRIC TUMOR PROGRAMS, INC.**

The Florida Association of Pediatric Tumor Program, Inc. (FAPTP) is an integral part of a coordinated network of physicians and other medical personnel who care for children with cancer and blood disorders in Florida. Since 1973, FAPTP has been established as a Florida not-for-profit, charitable, scientific, and educational organization with the mission of ensuring improved care for these children.

In 1981, the Florida Legislature designated FAPTP to oversee and maintain data for Florida CMS Pediatric Hematology/Oncology program. Since then, FAPTP has:

- Developed and continues to maintain the only exclusively pediatric cancer registry from selected medical institutions in Florida.
- Provided a framework for a coordinated network of physicians and other medical personnel who care for children with cancer and blood disorders.
- Established a quality-control audit mechanism to ensure that state-of-the-art care is available for Florida's children.

In keeping with its mission, FAPTP provides many scientific and educational opportunities. These educational and research programs help to meet the growing demands for accurate, and credible information from the member institutions and Florida.

- **Educational Opportunities:** This year will be the 29<sup>th</sup> year of FAPTP's educational seminar, "Advances in Pediatric Hematology/Oncology," which provides educational opportunities for healthcare personnel. This is a unique opportunity to further enhance the level of care for children with cancer and blood disorders.
- **Reporting System:** The FAPTP reporting system provides the state and the public with data on cancer incidence, clinical trial participation, and survivorship. This information aids investigators in studies conducted on both the state and national level.
- **Quality Assurance:** Through a contract between FAPTP and DOH, the center directors from around the state provide evaluation and consultation to Florida's CMS hematology/oncology programs.

## Appendices

### APPENDICES

| Appendix A.1. Population by Sex, Race, and Age Group, Florida, 2008 |                   |                  |                  |
|---------------------------------------------------------------------|-------------------|------------------|------------------|
|                                                                     | Total             | Female           | Male             |
| <b>Florida</b>                                                      | <b>18,087,829</b> | <b>9,256,984</b> | <b>8,830,845</b> |
| 0-14                                                                | 3,244,841         | 1,587,694        | 1,657,147        |
| 15-39                                                               | 5,536,773         | 2,716,040        | 2,820,733        |
| 40-64                                                               | 6,114,601         | 3,140,878        | 2,973,723        |
| 65+                                                                 | 3,191,614         | 1,812,372        | 1,379,242        |
| <b>Black</b>                                                        | <b>2,935,850</b>  | <b>1,519,023</b> | <b>1,416,827</b> |
| 0-14                                                                | 711,472           | 349,746          | 361,726          |
| 15-39                                                               | 1,138,127         | 570,445          | 567,682          |
| 40-64                                                               | 864,074           | 466,012          | 398,062          |
| 65+                                                                 | 222,177           | 132,820          | 89,357           |
| <b>White</b>                                                        | <b>14,662,549</b> | <b>7,484,319</b> | <b>7,178,230</b> |
| 0-14                                                                | 2,414,529         | 1,179,557        | 1,234,972        |
| 15-39                                                               | 4,210,057         | 2,050,813        | 2,159,244        |
| 40-64                                                               | 5,105,770         | 2,596,630        | 2,509,140        |
| 65+                                                                 | 2,932,193         | 1,657,319        | 1,274,874        |
| <b>Other Races</b>                                                  | <b>489,430</b>    | <b>253,642</b>   | <b>235,788</b>   |
| 0-14                                                                | 118,840           | 58,391           | 60,449           |
| 15-39                                                               | 188,589           | 94,782           | 93,807           |
| 40-64                                                               | 144,757           | 78,236           | 66,521           |
| 65+                                                                 | 37,244            | 22,233           | 15,011           |

Source of data: Florida Consensus Estimating Conference



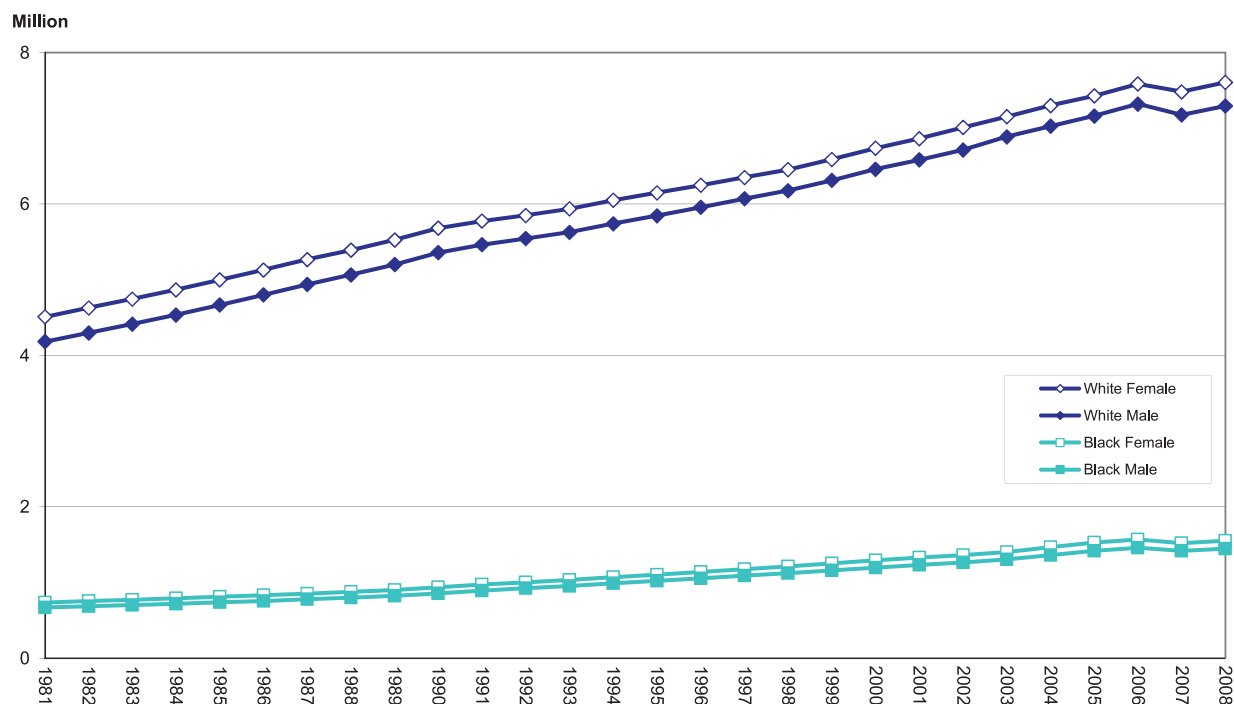
**Appendix A.2. Population by County, Florida, 2008**

| <b>County</b> | <b>Population</b> | <b>County</b> | <b>Population</b> |
|---------------|-------------------|---------------|-------------------|
| Florida       | <b>18,087,829</b> | Lafayette     | 8,034             |
| Alachua       | 245,659           | Lake          | 269,910           |
| Baker         | 24,629            | Lee           | 540,149           |
| Bay           | 160,733           | Leon          | 269,975           |
| Bradford      | 28,071            | Levy          | 40,690            |
| Brevard       | 526,318           | Liberty       | 7,684             |
| Broward       | 1,828,063         | Madison       | 19,686            |
| Calhoun       | 13,924            | Manatee       | 307,621           |
| Charlotte     | 162,785           | Marion        | 305,099           |
| Citrus        | 134,014           | Martin        | 145,578           |
| Clay          | 166,454           | Monroe        | 82,781            |
| Collier       | 325,386           | Nassau        | 69,647            |
| Columbia      | 66,400            | Okaloosa      | 192,335           |
| Miami-Dade    | 2,460,150         | Okeechobee    | 38,918            |
| Desoto        | 36,749            | Orange        | 1,093,460         |
| Dixie         | 16,480            | Osceola       | 231,540           |
| Duval         | 857,101           | Palm Beach    | 1,331,920         |
| Escambia      | 311,540           | Pasco         | 397,365           |
| Flagler       | 67,393            | Pinellas      | 971,194           |
| Franklin      | 11,072            | Polk          | 548,024           |
| Gadsden       | 47,210            | Putnam        | 74,087            |
| Gilchrist     | 17,266            | Saint Johns   | 158,815           |
| Glades        | 11,722            | Saint Lucie   | 226,549           |
| Gulf          | 15,562            | Santa Rosa    | 143,996           |
| Hamilton      | 14,352            | Sarasota      | 367,899           |
| Hardee        | 29,526            | Seminole      | 436,074           |
| Hendry        | 41,368            | Sumter        | 76,393            |
| Hernando      | 149,109           | Suwannee      | 39,617            |
| Highlands     | 96,522            | Taylor        | 21,456            |
| Hillsborough  | 1,142,913         | Union         | 15,676            |
| Holmes        | 19,524            | Volusia       | 500,452           |
| Indian River  | 128,913           | Wakulla       | 28,846            |
| Jackson       | 49,779            | Walton        | 54,551            |
| Jefferson     | 13,976            | Washington    | 23,386            |

Source of data: Florida Consensus Estimating Conference

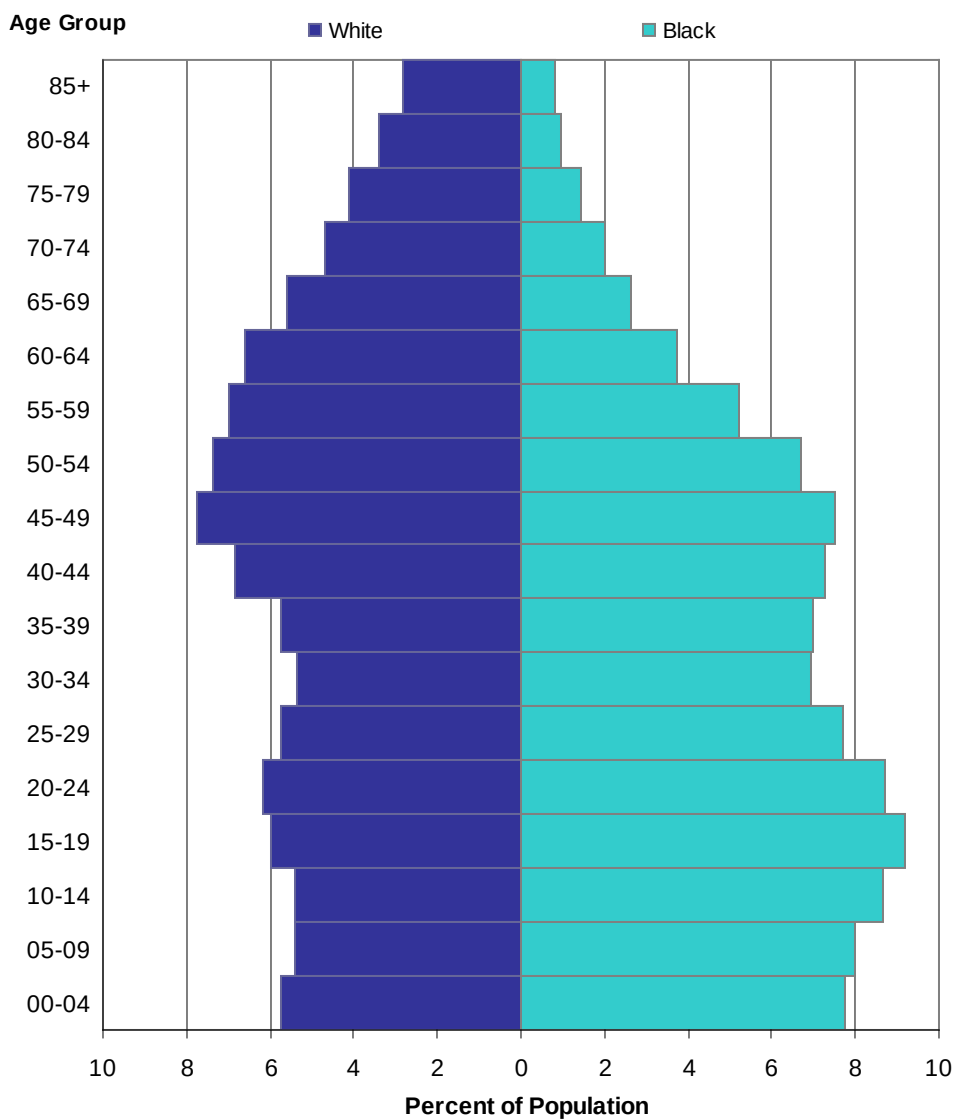
**Appendix A.3. 2000 United States Standard Million Population by Age Group**

| Age Group | Population | Age Group    | Population |
|-----------|------------|--------------|------------|
| 0-4       | 69,135     | 5-9          | 72,533     |
| 10-14     | 73,032     | 15-19        | 72,169     |
| 20-24     | 66,478     | 25-29        | 64,529     |
| 30-34     | 71,044     | 35-39        | 80,762     |
| 40-44     | 81,851     | 45-59        | 72,118     |
| 50-54     | 62,716     | 55-59        | 48,454     |
| 60-64     | 38,793     | 65-69        | 34,264     |
| 70-74     | 31,773     | 75-79        | 26,999     |
| 80-84     | 17,842     | 85 and older | 15,508     |

**Appendix B.****Population by Sex and Race, Florida, 1981-2008**

## Appendix C.

### Percent of Total Population By Race and Age Group, Florida, 2008



## Appendix D. Incidence and Mortality Codes for Cancer Sites

| FCDS Site Number         | Primary Site                                     | Incidence ICD-O-3 Codes                           | Mortality ICD-10 Codes                          |
|--------------------------|--------------------------------------------------|---------------------------------------------------|-------------------------------------------------|
| <b>HEAD AND NECK</b>     |                                                  |                                                   |                                                 |
| 1                        | Lip                                              | C00.0 - C00.9                                     | C00.0 - C00.9                                   |
| 2                        | Tongue                                           | C01.9 - C02.9                                     | C01.9 - C02.9                                   |
| 3                        | Salivary Glands                                  | C07.9 - C08.9                                     | C07.9 - C08.9                                   |
| 4                        | Floor of Mouth                                   | C04.0 - C04.9                                     | C04.0 - C04.9                                   |
| 5                        | Gum and Other Mouth                              | C03.0 - C03.9,<br>C05.0 - C05.9,<br>C06.0 - C06.9 | C03.0 - C03.9<br>C05.0 - C05.9<br>C06.0 - C06.9 |
| 6                        | Nasopharynx                                      | C11.0 - C11.9                                     | C11.0 - C11.9                                   |
| 7                        | Tonsil                                           | C09.0 - C09.9                                     | C09.0 - C09.9                                   |
| 8                        | Oropharynx                                       | C10.0 - C10.9                                     | C10.0 - C10.9                                   |
| 9                        | Hypopharynx                                      | C12.9, C13.0 - C13.9                              | C12.9, C13.0 - C13.9                            |
| 10                       | Other Buccal Cavity and Pharynx                  | C14.0, C14.2 - C14.8                              | C14.0, C14.2, C14.8                             |
| 34                       | Nasal Cavities, Middle Ear and Accessory Sinuses | C30.0 - C30.1, C31.0 - C31.9                      | C30.0 - C30.1,<br>C31.0 - C31.9                 |
| 35                       | Larynx                                           | C32.0 - C32.9                                     | C32.0 - C32.9                                   |
| <b>COLORECTAL</b>        |                                                  |                                                   |                                                 |
| 14                       | Cecum                                            | C18.0                                             | C18.0                                           |
| 15                       | Appendix                                         | C18.1                                             | C18.1                                           |
| 16                       | Ascending Colon                                  | C18.2                                             | C18.2                                           |
| 17                       | Hepatic Flexure                                  | C18.3                                             | C18.3                                           |
| 18                       | Transverse Colon                                 | C18.4                                             | C18.4                                           |
| 19                       | Splenic Flexure                                  | C18.5                                             | C18.5                                           |
| 20                       | Descending Colon                                 | C18.6                                             | C18.6                                           |
| 21                       | Sigmoid Colon                                    | C18.7                                             | C18.7                                           |
| 22                       | Large Intestine, NOS                             | C18.8 - C18.9, C26.0                              | C18.8 - C18.9                                   |
| 23                       | Rectosigmoid Junction                            | C19.9                                             | C19.9                                           |
| 24                       | Rectum                                           | C20.9                                             | C20.9                                           |
| <b>LUNG AND BRONCHUS</b> |                                                  |                                                   |                                                 |
| 36                       | Lung and Bronchus                                | C34.0 - C34.9                                     | C34.0 - C34.9                                   |
| <b>MELANOMA</b>          |                                                  |                                                   |                                                 |
| 41                       | Melanoma of the Skin                             | C44.0 - C44.9<br>Histology 8720-8790              | C43.0 - C43.9                                   |
| <b>BREAST</b>            |                                                  |                                                   |                                                 |
| 43                       | Breast                                           | C53.0 - C53.9                                     | C53.0 - C53.9                                   |
| <b>CERVIX</b>            |                                                  |                                                   |                                                 |
| 44                       | Cervix Uteri                                     | C61.9                                             | C61.9                                           |
| <b>PROSTATE</b>          |                                                  |                                                   |                                                 |
| 51                       | Prostate Gland                                   | C61.9                                             | C61.9                                           |

## Appendix D. Incidence and Mortality Codes for Cancer Sites (cont.)

| FCDS Site<br>Number | Primary Site | Incidence<br>ICD-O-3 Codes | Mortality<br>ICD-10 Codes |
|---------------------|--------------|----------------------------|---------------------------|
|---------------------|--------------|----------------------------|---------------------------|

**BLADDER**

|    |                 |               |                      |
|----|-----------------|---------------|----------------------|
| 55 | Urinary Bladder | C67.0 - C67.9 | C67.0 - C67.9, D09.0 |
|----|-----------------|---------------|----------------------|

**NON-HODGKIN LYMPHOMA**

|    |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |
|----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 66 | NHL Nodal       | Histology 9590-9596,<br>9670-9671, 9673, 9675,<br>9678-9680, 9684, 9687,<br>9689-9691, 9695, 9698-9702,<br>9705, 9708-9709, 9714-9719,<br>9727-9729, 9823, 9827<br>For Sites C02.4, C09.8, C09.9,<br>C11.1, C14.2, C37.9, C42.2,<br>C77.0 - C77.9                                                                                                                                                                                                                          | C82.0 - C85.9,<br>B21.1, B21.2 |
| 67 | NHL Extra-nodal | Histology 9590-9596,<br>9670-9671, 9673, 9675,<br>9678-9680, 9684, 9687,<br>9689-9691, 9695, 9698-9702,<br>9705, 9708-9709, 9714-9719,<br>9727-9729<br>For Sites C00.0-C02.3,<br>C02.5-C09.7, C10.0-C11.0,<br>C11.2-C14.1, C14.3-C38.7,<br>C38.0-C42.1, C42.3-C76.9,<br>C78.0-C99.9<br>Histology: 9823, 9827<br>For Sites C00.0-C02.3,<br>C02.5-C09.7, C10.0-C11.0,<br>C11.2-C14.1, C14.3-C38.7,<br>C38.0-C41.1, C42.3, C42.5-<br>C76.9, C78.0-C99.9<br>C76.9, C78.0-C99.9 | Not Available                  |

**OTHER SITES**

|    |                         |                            |               |
|----|-------------------------|----------------------------|---------------|
| 11 | Esophagus               | C15.0 - C15.9              | C15.0 - C15.9 |
| 12 | Stomach                 | C16.0 - C16.9              | C16.0 - C16.9 |
| 26 | Liver                   | C22.0                      | C22.0 - C22.9 |
| 30 | Pancreas                | C25.0 - C25.9              | C25.0 - C25.9 |
| 45 | Corpus Uteri            | C54.0 - C54.9              | C54.0 - C54.9 |
| 47 | Ovary                   | C56.9                      | C56.9         |
| 56 | Kidney and Renal Pelvis | C64.9, C65.9               | C64.9, C65.9  |
| 62 | Thyroid Gland           | C73.9                      | C73.9         |
| 68 | Multiple Myeloma        | Histology: 9731-9732, 9734 | C90.0, C90.2  |

**BRAIN AND NERVOUS SYSTEM**

|    |       |                                                                              |               |
|----|-------|------------------------------------------------------------------------------|---------------|
| 60 | Brain | C71.0 - C71.9<br>Histology: 8000-9049,<br>9056-9139, 9141-9529,<br>9540-9589 | C71.0 - C71.9 |
|----|-------|------------------------------------------------------------------------------|---------------|

**Appendix D. Incidence and Mortality Codes for Cancer Sites (cont.)**

| FCDS Site Number | Primary Site         | Incidence<br>ICD-O-3 Codes                                                                                              | Mortality<br>ICD-10 Codes       |
|------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 61               | Other Nervous System | a) C71.0 - C71.9<br>Histology 9530-9539<br>b) C70.0- C70.9, C72.0-C72.9<br>Histology 8000-9049,<br>9056-9139, 9141-9589 | C70.0 - C70.9,<br>C72.0 - C72.9 |

**LEUKEMIA**

|    |                                   |                                                                                                                     |                                                                    |
|----|-----------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| 69 | Acute Lymphocytic                 | Histology 9826, 9835-9837                                                                                           | C91.0                                                              |
| 70 | Chronic Lymphocytic               | Histology 9823 For Sites<br>C42.0, C42.1, C42.4                                                                     | C91.1                                                              |
| 71 | Other Lymphocytic                 | Histology 9820, 9832-9834,<br>9940                                                                                  | C91.2, C91.3, C91.4,<br>C91.5, C91.7, C91.9                        |
| 72 | Acute Myeloid                     | Histology 9840, 9861, 9866,<br>9867, 9871-9874, 9895-9897,<br>9910, 9920                                            | C92.0, C92.4 - C92.6,<br>C94.0, C94.2                              |
| 73 | Chronic Myeloid                   | Histology 9863, 9875, 9876,<br>9945, 9946                                                                           | C92.1                                                              |
| 74 | Other Myeloid/Monocytic           | Histology 9860, 9930                                                                                                | C92.2, C92.3, C92.7,<br>C92.9, C93.1, C93.2,<br>C93.7, C93.9       |
| 75 | Acute Monocytic                   | Histology 9891                                                                                                      | C93.0                                                              |
| 76 | Other Acute                       | Histology 9801, 9805, 9931                                                                                          | C94.4, C94.5, C96.0                                                |
| 77 | Aleukemic, Subleukemic<br>and NOS | a) Histology 9733, 9742, 9800,<br>9831, 9870, 9948, 9963, 9964<br>b) Histology 9827<br>For Site C42.0, C42.1, C42.4 | C90.1, C91.5, C94.1,<br>C94.3, C94.7, C95.1<br>C95.2, C95.7, C95.9 |

**ALL OTHER CANCERS**

|    |                                                      |                                                     |                                                               |
|----|------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------|
| 13 | Small Intestine                                      | C17.0 - C17.9                                       | C17.0 - C17.9                                                 |
| 25 | Anus, Anal Canal, and<br>Anorectum                   | C21.0 - C21.2, C21.8                                | C21.0, C21.1, C21.8                                           |
| 27 | Intrahepatic Bile Duct                               | C22.1                                               | C22.1                                                         |
| 28 | Gall Bladder                                         | C23.9                                               | C23.9                                                         |
| 29 | Other Biliary                                        | C24.0 - C24.9                                       | C24.0 - C24.9                                                 |
| 31 | Retroperitoneum                                      | C48.0                                               | C48.0                                                         |
| 32 | Peritoneum, Omentum, and<br>Mesentery                | C48.1 - C48.2                                       | C48.1 - C48.2                                                 |
| 33 | Other Digestive Organs                               | C26.8 - C26.9, C48.8                                | C26.0 - C26.9, C48.8                                          |
| 37 | Pleura                                               | C38.4                                               | C38.4                                                         |
| 38 | Trachea, Mediastinum and<br>Other Respiratory Organs | C33.9, C38.1 - C38.3,<br>C38.8, C39.0, C39.8, C39.9 | C33.9, C38.1 - C38.3,<br>C38.8, C39.0, C39.9,<br>C45.7, C45.9 |
| 39 | Bones and Joints                                     | C40.0 - C41.9                                       | C40.0 - C41.9                                                 |
| 40 | Soft Tissue<br>(Including Heart)                     | C38.0, C47.0 - C47.9,<br>C49.0 - C49.9              | C38.0, C45.2, C46.1,<br>C47.0 - C47.9,<br>C49.0 - C49.9       |
| 46 | Uterus, NOS                                          | C55.9                                               | C55.9                                                         |

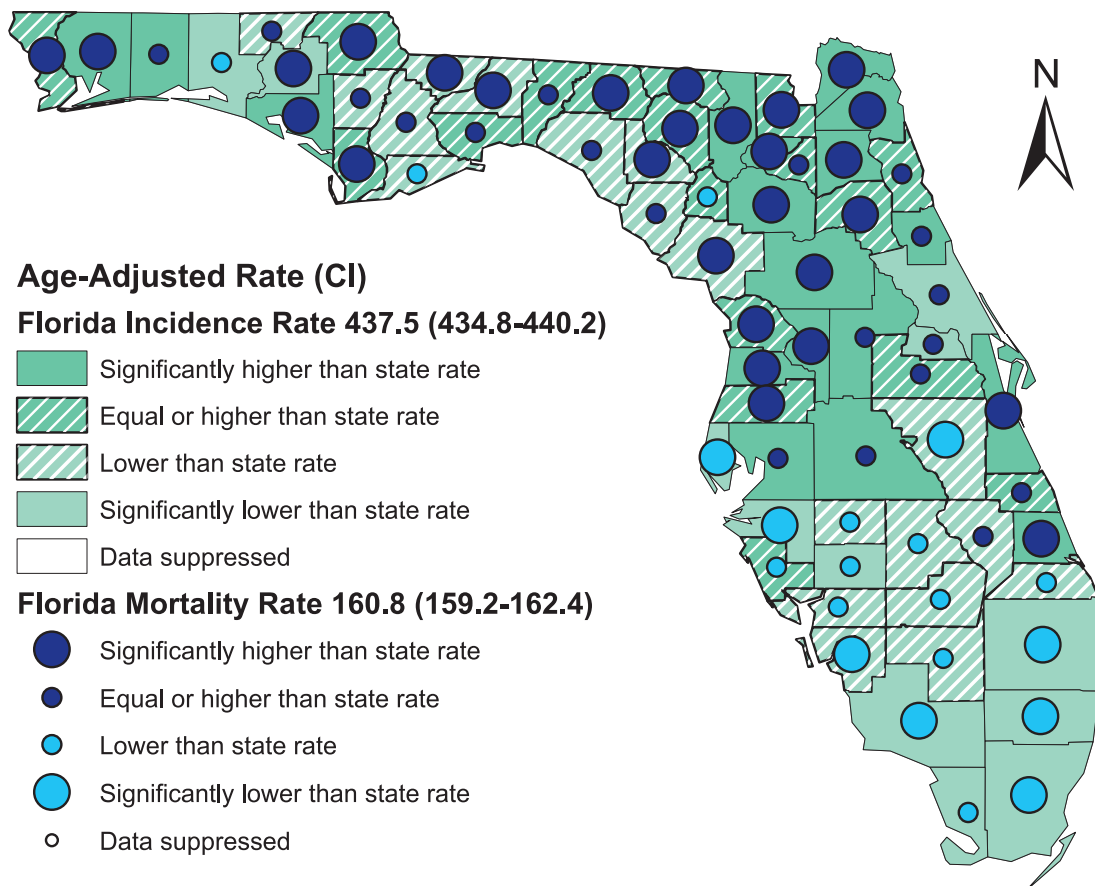
## Appendix D. Incidence and Mortality Codes for Cancer Sites (cont.)

| FCDS Site<br>Number | Primary Site                          | Incidence<br>ICD-O-3 Codes                                                                                                                                                  | Mortality<br>ICD-10 Codes             |
|---------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 48                  | Vagina                                | C55.9                                                                                                                                                                       | C55.9                                 |
| 49                  | Vulva                                 | C52.9                                                                                                                                                                       | C52.9                                 |
| 50                  | Other Female Genital<br>Organs        | C51.0 - C51.9<br>C57.0 - C58.9                                                                                                                                              | C51.0 - C51.9<br>C57.0 - C58.9        |
| 52                  | Testes                                |                                                                                                                                                                             |                                       |
| 53                  | Penis                                 | C62.0 - C62.9                                                                                                                                                               | C62.0 - C62.9                         |
| 54                  | Other Male Genital Organs             | C60.0 - C60.9                                                                                                                                                               | C60.0 - C60.9                         |
| 57                  | Ureter                                | C63.0 - C63.9                                                                                                                                                               | C63.0 - C63.9                         |
| 58                  | Other Urinary Organs                  | C66.9                                                                                                                                                                       | C66.9                                 |
| 59                  | Eye and Orbit                         | C68.0 - C68.9                                                                                                                                                               | C68.0 - C68.9                         |
| 63                  | Other Endocrine<br>(Including Thymus) | C69.0 - C69.9<br>C37.9, C74.0 - C74.9,                                                                                                                                      | C69.0 - C69.9<br>C37.9, C74.0 - C74.9 |
| 64                  | Hodgkin Lymphoma<br>Nodal             | C75.0 - C75.9<br>Histology 9650-9667<br>For Sites C02.4, C09.8,<br>C09.9, C11.1, C14.2, C37.9,                                                                              | C75.0 - C75.9<br>C81.0 - C81.9        |
| 65                  | Hodgkin Extra-nodal                   | C42.2, C77.0 - C77.9<br>Histology 9650-9667<br>For Sites C00.0-C02.3,<br>C02.5-C09.7, C10.0-C11.0,<br>C11.2-C14.1, C14.3-C37.8,<br>C38.0-C42.1, C42.3-C76.9<br>C78.0-C99.9, | Not Available                         |
| 78                  | Mesothelioma                          | Histology 9150-9055                                                                                                                                                         | C45, C46                              |
| 79                  | Kaposi Sarcoma                        | Histology 9140                                                                                                                                                              | C26.1, C76-C80,<br>C88, C96.0-C96.2,  |
| 80                  | Miscellaneous                         | All other                                                                                                                                                                   | C96.7, C96.9, C97                     |

## APPENDIX E. MAPS OF AGE-ADJUSTED INCIDENCE AND MORTALITY RATES BY COUNTY

APPENDICES

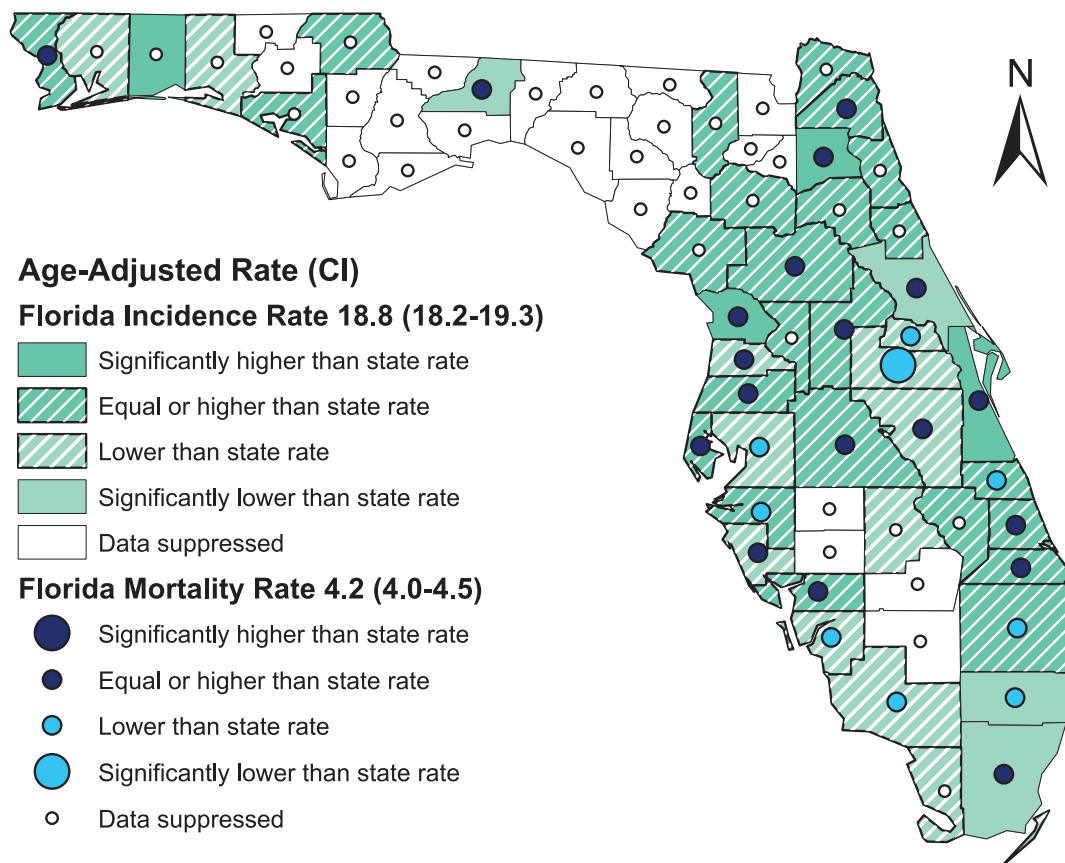
### E. 1 Age-Adjusted Incidence and Mortality Rates of All Cancer Sites by County, Florida, 2008



Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

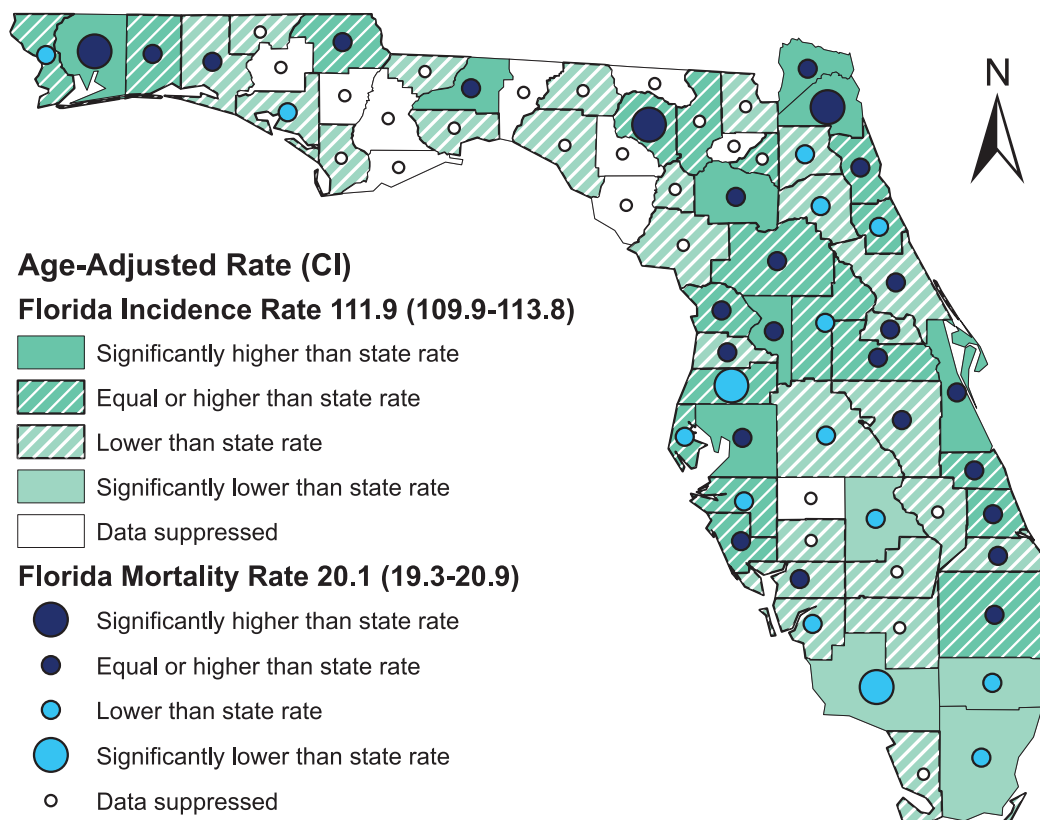


## E. 2 Age-Adjusted Incidence and Mortality Rates of Bladder Cancer by County, Florida, 2008



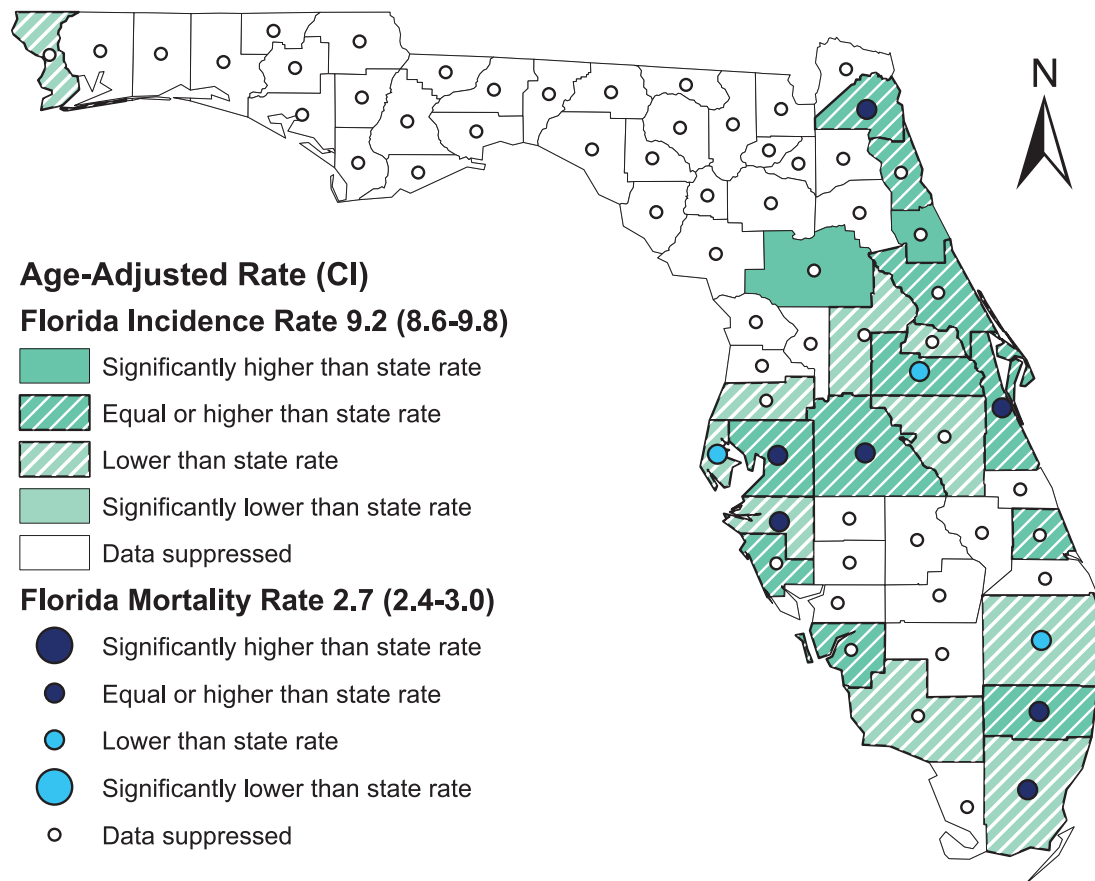
Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

## E. 3 Age-Adjusted Incidence and Mortality Rates of Breast Cancer by County, Florida, 2008



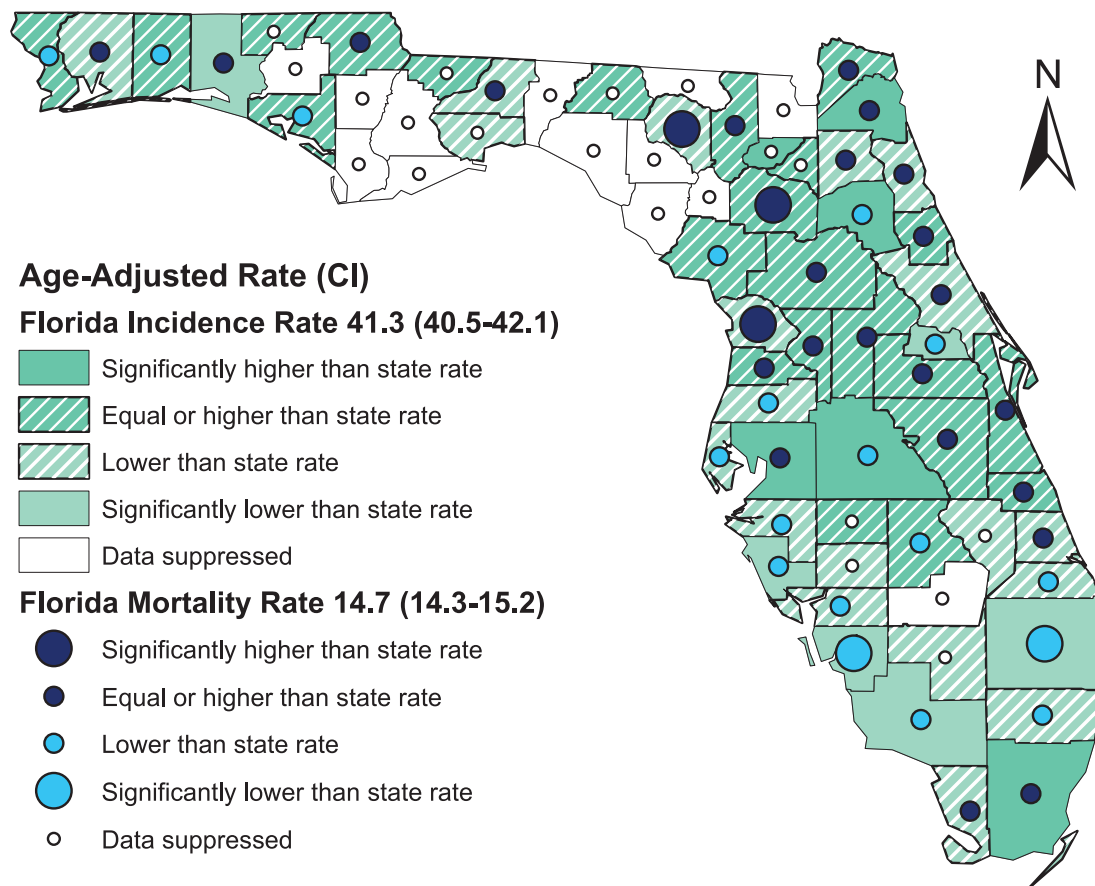
Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

## E.4 Age-Adjusted Incidence and Mortality Rates of Cervical Cancer by County, Florida, 2008



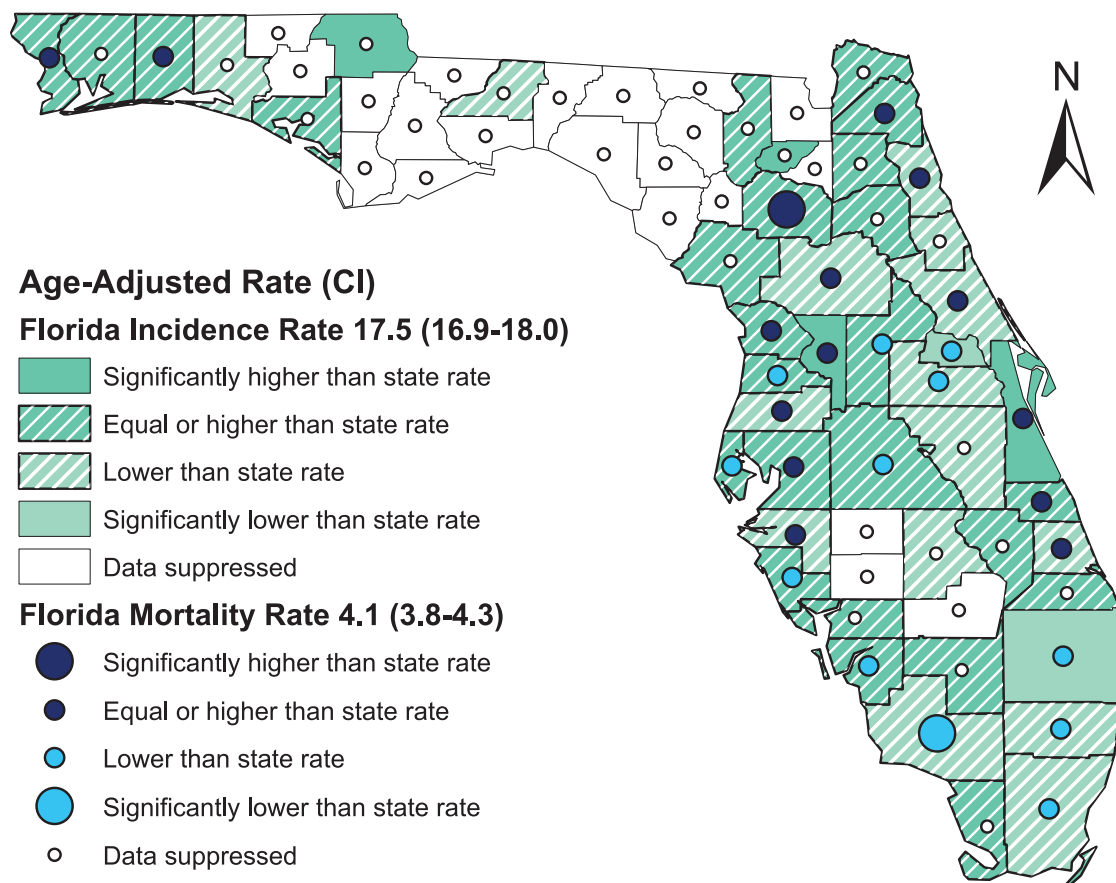
Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

## E. 5 Age-Adjusted Incidence and Mortality Rates of Colorectal Cancer by County, Florida, 2008



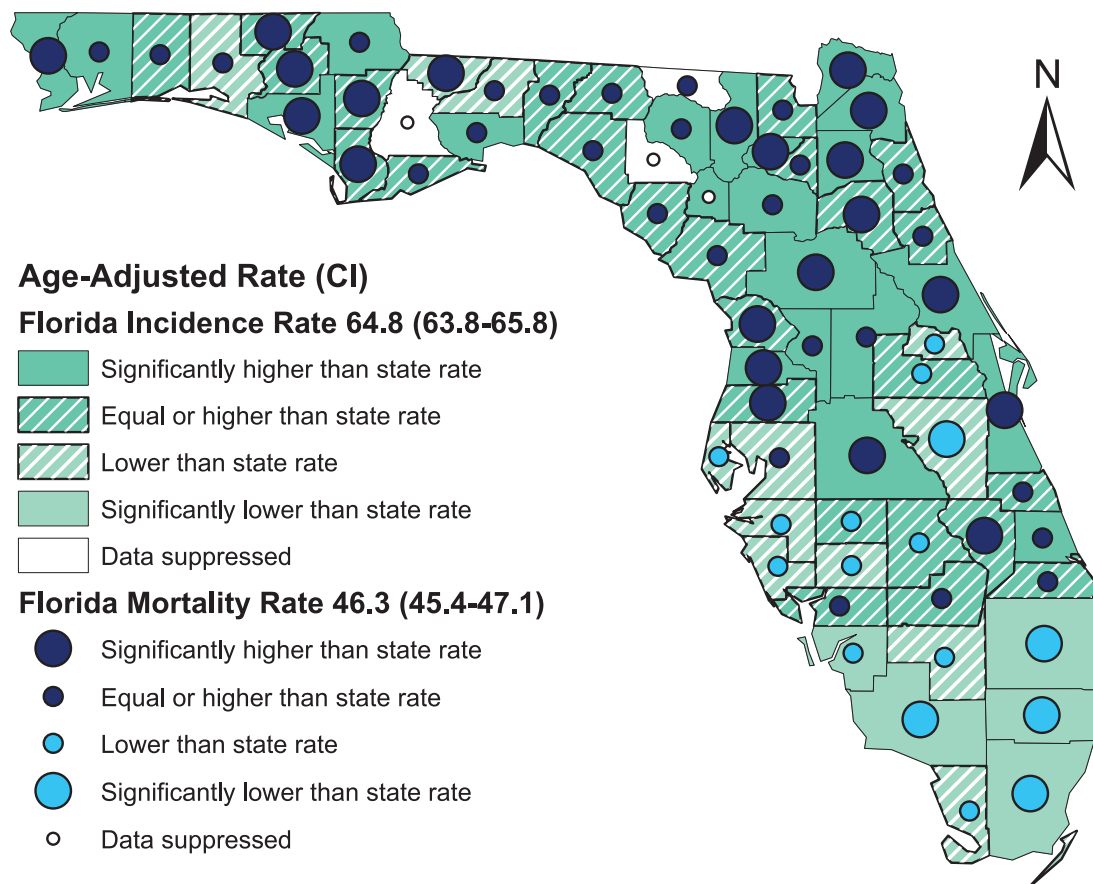
Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

## E. 6 Age-Adjusted Incidence and Mortality Rates of Head and Neck Cancer by County, Florida, 2008



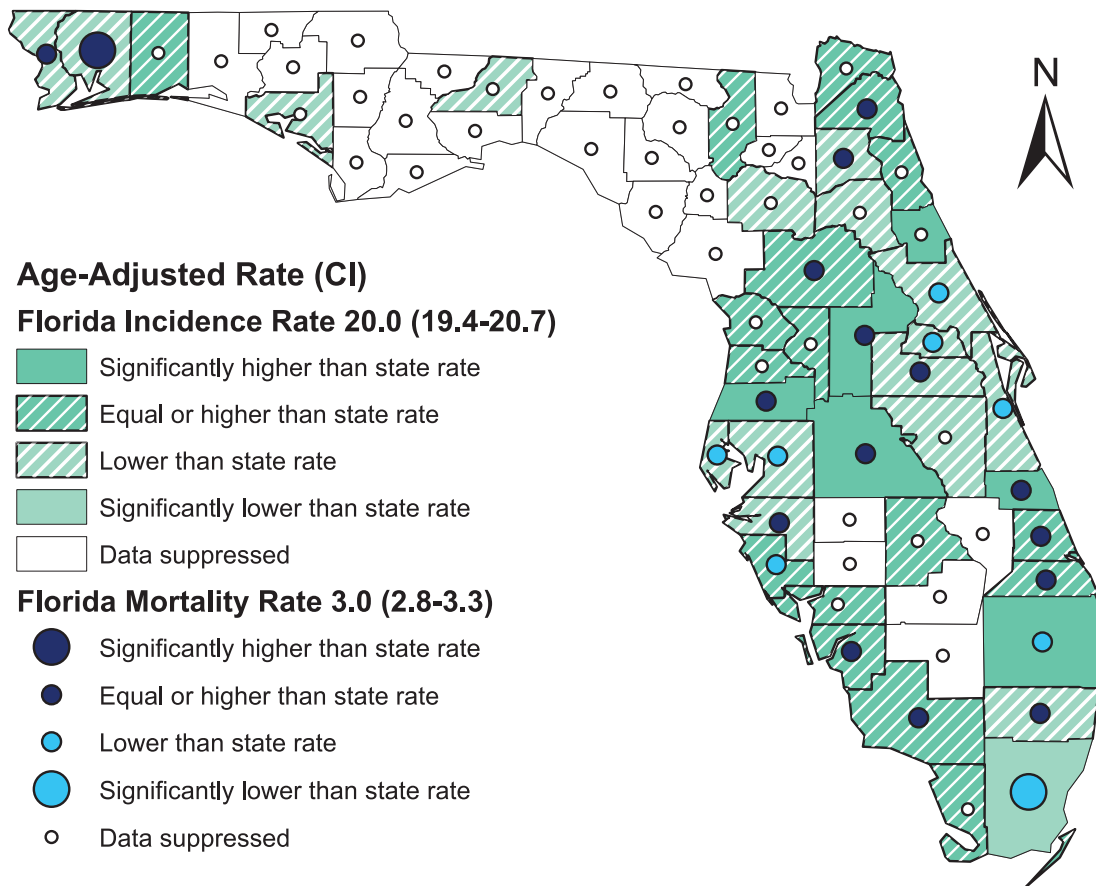
Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

## E. 7 Age-Adjusted Incidence and Mortality Rates of Lung Cancer by County, Florida, 2008



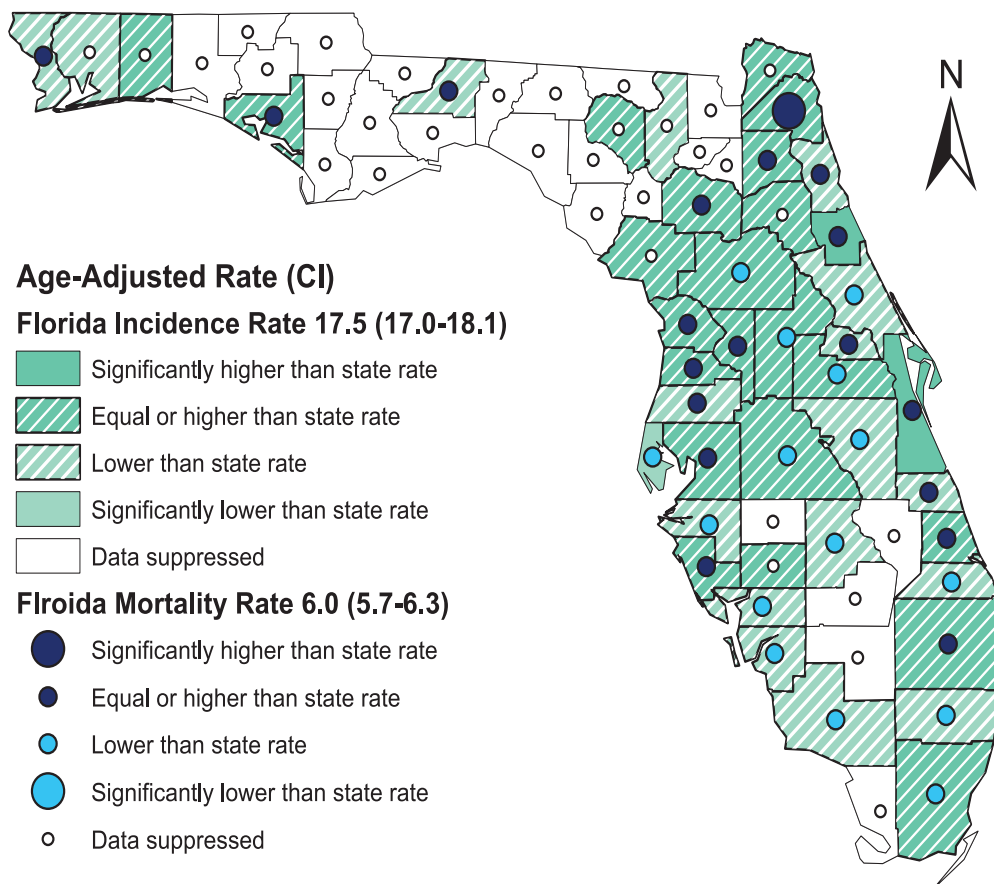
Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

## E. 8 Age-Adjusted Incidence and Mortality Rates of Melanoma by County, Florida, 2008



Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

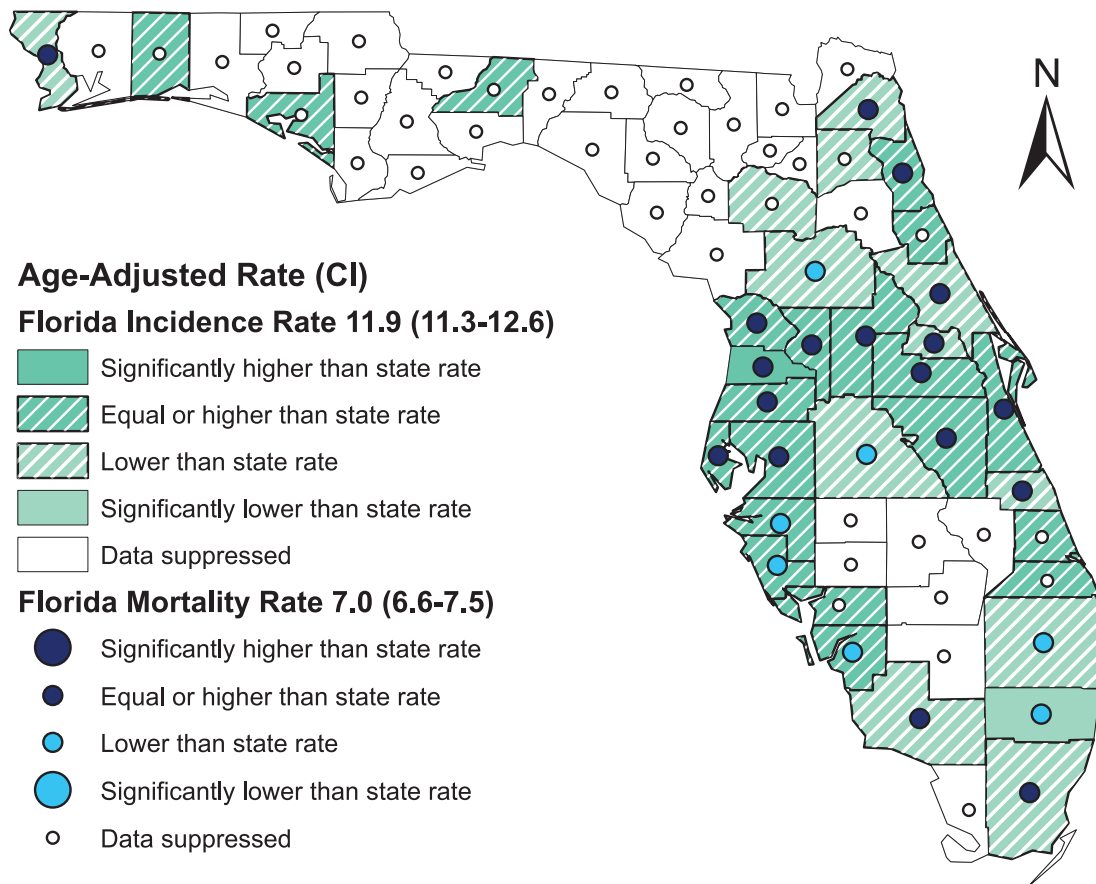
## E. 9 Age-Adjusted Incidence and Mortality Rates of Non-Hodgkin Lymphoma by County, Florida, 2008



Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

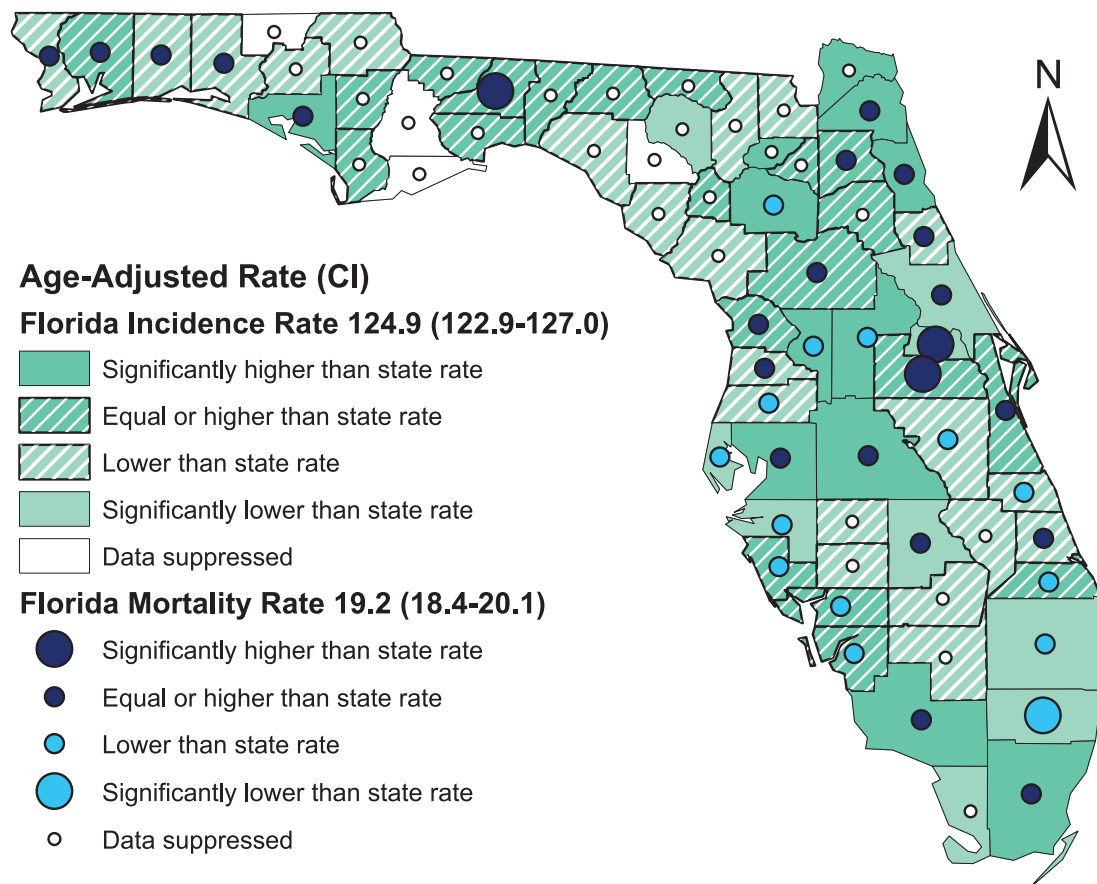


## E. 10 Age-Adjusted Incidence and Mortality Rates of Ovarian Cancer by County, Florida, 2008



Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

## E. 11 Age-Adjusted Incidence and Mortality Rates of Prostate Cancer by County, Florida, 2008



Data for counties with less than 10 cases or deaths are suppressed  
 Source of Data: Florida Cancer Data System and Office of Vital Statistics

## REFERENCES

### REFERENCES

Anton-Culver H, Lee-Feldstein A, Taylor TH. "Occupation and Bladder Cancer Risk," *American Journal of Epidemiology*, Vol. 136,1992; pp. 89-94.

Bryant J, Thompson D, Hopkins R. *1997 and 1998 Smoking-Attributable Mortality Report*. Florida Department of Health, Epidemiological Series 99-1124, 2000.

Centers for Disease Control and Prevention (CDC). *Behavioral Risk Factor Surveillance System Survey Data*. Atlanta, Georgia: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, 2002.

Coley CM, Barry MJ, Fleming C, Mulley A. "Early Detection of Prostate Cancer: Part I, Probability and Effectiveness of Tests," *Annals of Internal Medicine*, Vol. 126, 1997; pp. 394-406.

Collins MM, Barry, MJ. "Controversies in Prostate Cancer Screening: Analogies to the Early Lung Cancer Screening Debate," *Journal of the American Medical Association*, Vol. 276, 1996; pp.1976-1978.

Florida Behavioral Risk Factor Surveillance System (BRFSS): [apps.nccd.cdc.gov/brfss/Trends/TrendData.asp](http://apps.nccd.cdc.gov/brfss/Trends/TrendData.asp), Accessed on September 22, 2008.

Kosary CL, Ries LA, Miller BA, Hankey BF, Harras A, Edwards BK (eds.). *SEER Cancer Statistics Review, 1973-1992: Tables and Graphs*. NIH: Bethesda, MD, 1995; Publication Number 96-2789:476.

Lamm DL, Torti FM. "Bladder Cancer," *Cancer Journal for Clinicians*, Vol. 46, 1996; pp. 93-112.

National Institutes of Health. *The SEER Program Code Manual, 3rd Edition*. Bethesda: NIH, National Cancer Institute. NIH Publication Number 98-2000, January 1998.

Schottenfeld D, Fraumeni Jr. JF, (eds.). *Cancer Epidemiology and Prevention*, 2nd ed., Oxford University Press, New York, 1996.

Snodgrass J (ed.). *Procedure Guidelines for Cancer Registries: Series I, Inter-State Data Exchange*. North American Association of Central Cancer Registries, December 2000.

U.S. Cancer Statistics Working Group. *United States Cancer Statistics: 2000 Incidence*. Department of Health and Human Services, Centers for Disease Control and Prevention, and National Cancer Institute, 2004.

World Health Organization. *International Classification of Diseases, Ninth Revision*, 1975.

World Health Organization. *International Statistical Classification of Diseases and Related Health Problems, Tenth Revision*, 1994.

World Health Organization. Fritz A, Percy C, Jack A, et. al. (eds.). *International Classification of Diseases for Oncology, Third Edition (ICD-O-3)*, 2000.





