



Female Breast Cancer in Florida, 2007

Bureau of Epidemiology



Female breast cancer forms in tissues of the breast; usually the ducts (tubes that carry milk to the nipple) and lobules (glands that make milk). Risk factors that are associated with female breast cancer include old age, personal and family history of the disease, not having children, or having the first child later in life. Other factors include starting the first menstrual period at an early age, beginning menopause at a late age, having a genetic condition (certain mutations in BRCA1 or BRCA2 genes), and having been treated with radiation therapy to the breast or chest. In addition, being overweight, long term use of hormone replacement therapy, alcohol use, using oral contraceptives, and being physically inactive are factors.

This report presents incidence data on breast cancer among females in Florida because male breast cancer is rare. Incidence data are obtained from the Florida Cancer Data System (FCDS), and mortality data from Florida Department of Health, Office of Vital Statistics. The Florida data are compared with data from the Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute (NCI). The U.S. mortality data reported by SEER are provided by the National Center for Health Statistics (NCHS). Breast cancer screening data are obtained from the 2007 Florida Behavioral Risk Factor Surveillance System (BRFSS) survey.

Incidence

- In 2007, 13,277 new breast cancer cases were diagnosed among females in Florida.
- The age-adjusted incidence rate was 110.8 per 100,000 females, which was lower than the SEER rate (122.9 per 100,000 females).

Table 1. Age-Adjusted[†] and Age-Specific[‡] Incidence Rates (per 100,000) for Breast Cancer, Florida, 2007

	Florida	U.S.
Florida[†]	110.8	122.9
Black [†]	103.7	118.3
White [†]	109.5	126.5
0-14 [‡]	^	N/A
15-39 [‡]	21.2	N/A
40-64 [‡]	202.9	N/A
65+ [‡]	349.2	N/A

[^] Data suppressed

- Incidence rates were higher among females 65 years of age and older than among females less than 65 years of age.
- The rate was 6% higher among whites than blacks.
- The rates among both race groups in Florida were lower than the SEER rates.

Mortality

- In 2007, 2,594 females died of breast cancer in Florida.
- The age-adjusted mortality rate was 19.9 per 100,000 females, which was lower than the U.S. rate (24.0 per 100,000 females).
- The mortality rate was higher among females 65 years of age and older than among females less than 65 years of age.

Table 2. Age-Adjusted[†] and Age-Specific[‡] Mortality Rates (per 100,000) for Breast Cancer, Florida, 2007

	Florida	U.S.
Florida[†]	19.9	24.0
Black [†]	29.0	32.4
White [†]	18.8	23.4
0-14 [‡]	^	N/A
15-39 [‡]	2.5	N/A
40-64 [‡]	30.5	N/A
65+ [‡]	86.5	N/A

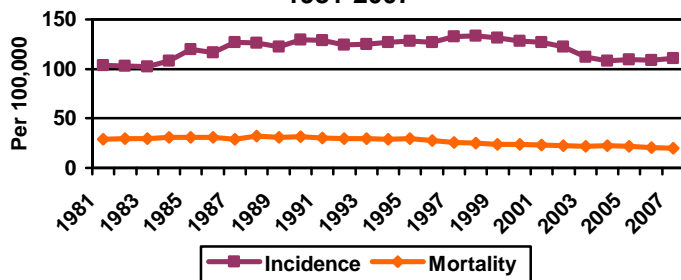
[^] Data suppressed

- The rate was 54% higher among blacks than whites.
- The rates among both race groups in Florida were significantly lower than the comparable U.S. rates.

Trends in Incidence and Mortality Rate

- Although the 2007 incidence rate (110.8 per 100,000) was 7% higher than the 1981 rate (103.5 per 100,000), the 2007 rate was 13% lower than the 2000 rate (127.9 per 100,000).
- The 2007 mortality rate (19.9 per 100,000) was 32% lower than the rate in 1981 (29.2 per 100,000).

Figure 1. Age-Adjusted Incidence and Mortality Rates of Breast Cancer, Florida, 1981-2007



Stage at Diagnosis

Table 3. Percentage of Breast Cancer by Stage at Diagnosis, Florida, 2007

	Early	Advanced	Unknown
Total	61.3	33.3	5.3
White	63.0	31.8	5.2
Black	47.5	46.1	6.4

- Early-stage breast cancer is localized to one part or organ of the body. Advanced-stage cancer has spread to other organs or throughout the body beyond the organ of origin.
- Of all breast cancer cases in 2007, 61.3% were diagnosed at an early stage, 33.3% were diagnosed at an advanced stage, and 5.3% were reported without stage information.
- The percentage of cases with an advanced-stage diagnosis was higher among blacks than

whites.

- The percentage of cases with an early-stage diagnosis was 44% higher in 2007 (61.3%) compared to 1981 (42.7%).

Cancer Screening

Table 4. Prevalence of Breast Cancer Screening Among Females Aged 40 and Older in the Past Two Years, Florida, 2007

	Mammogram	Clinical Breast Exam
Total	78.4	77.8
Black	81.6	80.6
White	78.9	78.8
40-44	65.2	79.1
45-64	79.7	81.3
65+	82.3	72.5
< High School	75.6	66.4
High School	76.1	74.0
> High School	80.1	81.5
<\$25,000	71.8	67.5
\$25,000-\$49,999	77.9	75.4
\$50,000-\$74,999	82.7	87.3
\$75,000+	84.2	88.9
Insured	81.6	80.1
Uninsured	55.0	60.4

- The U.S. Preventive Services Task Force recommends screening mammography, with or without clinical breast examination, every 1-2 years for women aged 40 and older.
- In Florida in 2007, 78.4% of females aged 40 and older had a mammogram and 77.8% had a clinical breast exam in the past two years.
- Racial differences observed in both breast cancer screening tests were not statistically significant.
- The prevalence of having both a mammogram and a clinical breast exam was lower among females with less than a high school education and females without health insurance compared to their counterparts.

For additional information on this report, please contact Florida Department of Health, Bureau of Epidemiology at 850.245.4401 or visit our website at: <http://www.floridachronicdisease.org/>.

For additional information about the data source, please refer to 'Sources of Cancer Data' available at: http://www.doh.state.fl.us/disease_ctrl/epi/cancer/CancerIndex.htm.

For additional information on breast cancer, please visit Florida Department of Health, Breast and Cervical Cancer Early Detection Program's website at: <http://www.doh.state.fl.us/Family/bcc/index.html>

