

Table 4.2
Cancer of the Female Breast (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program,
1975-2017 With up to Five Joinpoints, 2000-2017 With up to Three Joinpoints,
Ages <50 by Race/Ethnicity

| | JP Trend 1 | | JP Trend 2 | | JP Trend 3 | | JP Trend 4 | | JP Trend 5 | | JP Trend 6 | | AAPC ^d | |
|----------------------------------------------------------------|------------|-------|------------|-------|------------|-------|------------|------|------------|-----|------------|-----|-------------------|---------|
| | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | 2008-17 | 2013-17 |
| <u>SEER 9 Delay-Adjusted Incidence^a, 1975-2017</u> | | | | | | | | | | | | | | |
| All Races | 1975-80 | -1.3 | 1980-87 | 2.7* | 1987-94 | -0.8 | 1994-17 | 0.3* | | | | | 0.3* | 0.3* |
| White | 1975-80 | -1.1 | 1980-87 | 2.7* | 1987-94 | -0.9 | 1994-17 | 0.3* | | | | | 0.3* | 0.3* |
| Black | 1975-90 | 1.3* | 1990-17 | -0.1 | | | | | | | | | -0.1 | -0.1 |
| <u>SEER 21 Delay-Adjusted Incidence^b, 2000-2017</u> | | | | | | | | | | | | | | |
| All Races | 2000-17 | 0.4* | | | | | | | | | | | 0.4* | 0.4* |
| White | 2000-17 | 0.4* | | | | | | | | | | | 0.4* | 0.4* |
| White NH ^{ef} | 2000-17 | 0.5* | | | | | | | | | | | 0.5* | 0.5* |
| Black | 2000-17 | 0.5* | | | | | | | | | | | 0.5* | 0.5* |
| Black NH ^{ef} | 2000-17 | 0.6* | | | | | | | | | | | 0.6* | 0.6* |
| API ^e | 2000-17 | 1.3* | | | | | | | | | | | 1.3* | 1.3* |
| AI/AN ^{eg} | 2000-17 | -0.1 | | | | | | | | | | | -0.1 | -0.1 |
| Hispanic ^f | 2000-06 | -1.0 | 2006-17 | 1.3* | | | | | | | | | 1.3* | 1.3* |
| <u>U.S. Cancer Mortality^c, 1975-2017</u> | | | | | | | | | | | | | | |
| All Races | 1975-90 | -0.4* | 1990-07 | -3.2* | 2007-17 | -1.3* | | | | | | | -1.3* | -1.3* |
| White | 1975-90 | -0.6* | 1990-05 | -3.6* | 2005-17 | -1.4* | | | | | | | -1.4* | -1.4* |
| Black | 1975-89 | 1.6* | 1989-17 | -2.2* | | | | | | | | | -2.2* | -2.2* |
| <u>U.S. Cancer Mortality^c, 2000-2017</u> | | | | | | | | | | | | | | |
| All Races | 2000-08 | -2.9* | 2008-17 | -1.2* | | | | | | | | | -1.2* | -1.2* |
| White | 2000-07 | -3.1* | 2007-17 | -1.2* | | | | | | | | | -1.2* | -1.2* |
| White NH ^{ef} | 2000-07 | -3.0* | 2007-17 | -1.3* | | | | | | | | | -1.3* | -1.3* |
| Black | 2000-17 | -2.2* | | | | | | | | | | | -2.2* | -2.2* |
| Black NH ^{ef} | 2000-17 | -2.1* | | | | | | | | | | | -2.1* | -2.1* |
| API ^e | 2000-08 | -5.2* | 2008-17 | 1.3 | | | | | | | | | 1.3 | 1.3 |
| AI/AN ^{eg} | 2000-17 | -1.5 | | | | | | | | | | | -1.5 | -1.5 |
| Hispanic ^f | 2000-17 | -1.5* | | | | | | | | | | | -1.5* | -1.5* |

Joinpoint Regression Program Version 4.8, April 2020, National Cancer Institute. (<https://surveillance.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^a Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

^b Trends are from the SEER 21 areas (SEER 9 areas, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

^c Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^d The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

^e API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

^f Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

^g Data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

* The APC/AAPC is significantly different from zero (p<.05).

- Joinpoint regression line analysis could not be performed on data series.