

Table 4.1  
Cancer of the Female Breast (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program,  
1975-2016 With up to Five Joinpoints, 2000-2016 With up to Three Joinpoints,  
All Ages by Race/Ethnicity

	JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC <sup>d</sup>	
	Years	APC	Years	APC	2007-16	2012-16								
<u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2016</u>														
All Races	1975-80	-0.5	1980-87	4.0*	1987-94	-0.2	1994-99	1.8*	1999-04	-2.3*	2004-16	0.3*	0.3*	0.3*
White	1975-80	-0.5	1980-87	4.1*	1987-94	-0.2	1994-99	2.0*	1999-04	-2.4*	2004-16	0.2	0.2	0.2
Black	1975-79	-1.5	1979-86	4.5*	1986-16	0.4*							0.4*	0.4*
<u>SEER 21 Delay-Adjusted Incidence<sup>b</sup>, 2000-2016</u>														
All Races	2000-04	-2.1*	2004-16	0.3*									0.3*	0.3*
White	2000-04	-2.2*	2004-16	0.2*									0.2*	0.2*
White NH <sup>ef</sup>	2000-04	-2.2*	2004-16	0.3*									0.3*	0.3*
Black	2000-16	0.8*											0.8*	0.8*
Black NH <sup>ef</sup>	2000-16	0.8*											0.8*	0.8*
API <sup>e</sup>	2000-16	1.2*											1.2*	1.2*
AI/AN <sup>eg</sup>	2000-16	0.8*											0.8*	0.8*
Hispanic <sup>f</sup>	2000-16	0.5*											0.5*	0.5*
<u>U.S. Cancer Mortality<sup>c</sup>, 1975-2016</u>														
All Races	1975-90	0.4*	1990-95	-1.7*	1995-98	-3.4*	1998-16	-1.8*					-1.8*	-1.8*
White	1975-90	0.3*	1990-95	-2.0*	1995-98	-3.5*	1998-11	-1.9*	2011-16	-1.3*			-1.6*	-1.3*
Black	1975-93	1.4*	1993-16	-1.5*									-1.5*	-1.5*
<u>U.S. Cancer Mortality<sup>c</sup>, 2000-2016</u>														
All Races	2000-08	-2.1*	2008-16	-1.5*									-1.6*	-1.5*
White	2000-08	-2.1*	2008-16	-1.5*									-1.6*	-1.5*
White NH <sup>ef</sup>	2000-08	-2.1*	2008-16	-1.5*									-1.6*	-1.5*
Black	2000-16	-1.5*											-1.5*	-1.5*
Black NH <sup>ef</sup>	2000-16	-1.4*											-1.4*	-1.4*
API <sup>e</sup>	2000-16	-0.9*											-0.9*	-0.9*
AI/AN <sup>eg</sup>	2000-16	-1.1											-1.1	-1.1
Hispanic <sup>f</sup>	2000-16	-1.1*											-1.1*	-1.1*

<sup>a</sup> Joinpoint Regression Program Version 4.7, February 2019, 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). Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

<sup>b</sup> 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).

<sup>c</sup> Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>d</sup> The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

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

<sup>f</sup> 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.

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

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

<sup>-</sup> Joinpoint regression line analysis could not be performed on data series.