

Table 4.2  
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,  
1975-2012 With up to Five Joinpoints, 1992-2012 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 <sup>d</sup>	
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2003-12	2008-12
<u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2012</u>														
All Races	1975-80	-1.4	1980-85	3.1*	1985-12	0.1							0.1	0.1
White	1975-80	-1.1	1980-87	2.7*	1987-94	-0.8	1994-12	0.3*					0.3*	0.3*
Black	1975-90	1.3*	1990-12	-0.1									-0.1	-0.1
<u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2012</u>														
All Races	1992-12	0.2*											0.2*	0.2*
White	1992-12	0.2*											0.2*	0.2*
Black	1992-02	-1.3*	2002-05	3.9	2005-12	-0.8							0.3	-0.8
<u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2012</u>														
All Races	1975-80	-1.5	1980-85	3.1*	1985-12	0.0							0.0	0.0
White	1975-80	-1.1	1980-87	2.7*	1987-93	-1.0	1993-12	0.2*					0.2*	0.2*
Black	1975-91	1.2*	1991-12	-0.2									-0.2	-0.2
<u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2012</u>														
All Races	1992-12	0.1*											0.1*	0.1*
White	1992-12	0.1*											0.1*	0.1*
White NH <sup>ef</sup>	1992-12	0.4*											0.4*	0.4*
Black	1992-02	-1.3*	2002-05	3.9	2005-12	-1.0							0.1	-1.0
Black NH <sup>ef</sup>	1992-02	-1.4*	2002-05	4.3	2005-12	-0.8							0.3	-0.8
API <sup>e</sup>	1992-12	0.8*											0.8*	0.8*
AI/AN <sup>eg</sup>	1992-12	-0.2											-0.2	-0.2
Hispanic <sup>f</sup>	1992-12	0.1											0.1	0.1
<u>U.S. Cancer Mortality<sup>c</sup>, 1975-2012</u>														
All Races	1975-90	-0.4*	1990-07	-3.2*	2007-12	-1.2							-2.1*	-1.2
White	1975-91	-0.7*	1991-99	-4.3*	1999-12	-2.5*							-2.5*	-2.5*
Black	1975-87	1.8*	1987-95	-1.2*	1995-12	-2.4*							-2.4*	-2.4*
<u>U.S. Cancer Mortality<sup>c</sup>, 1992-2012</u>														
All Races	1992-07	-3.2*	2007-12	-1.3									-2.1*	-1.3
White	1992-99	-4.4*	1999-12	-2.5*									-2.5*	-2.5*
White NH <sup>ef</sup>	1992-99	-4.2*	1999-12	-2.4*									-2.4*	-2.4*
Black	1992-12	-2.3*											-2.3*	-2.3*
Black NH <sup>ef</sup>	1992-12	-2.2*											-2.2*	-2.2*
API <sup>e</sup>	1992-01	-0.8	2001-09	-5.2*	2009-12	7.8							-1.1	4.4
AI/AN <sup>eg</sup>	1992-12	-2.3*											-2.3*	-2.3*
Hispanic <sup>f</sup>	1992-10	-3.0*	2010-12	6.7									-0.9	1.7

Joinpoint Regression Program Version 4.2.0, April 2015, National Cancer Institute. (<http://surveillance.cancer.gov/joinpoint/>).  
<sup>a</sup> The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
<sup>b</sup> Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
<sup>c</sup> Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).  
<sup>d</sup> Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
<sup>e</sup> The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.  
<sup>f</sup> API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic  
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.  
The Hispanic and Non-Hispanic mortality trends exclude deaths from New Hampshire and Oklahoma.  
<sup>g</sup> Data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.  
\* The APC/AAPC is significantly different from zero (p<.05).  
- Joinpoint regression line analysis could not be performed on data series.