

Table 8.2  
Cancer of the Esophagus (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,  
Males 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	1975-04	0.8*	2004-12	-1.3*									-1.0*	-1.3*
White	1975-04	1.7*	2004-12	-0.5									-0.2	-0.5
Black	1975-86	1.2	1986-12	-4.9*									-4.9*	-4.9*
<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	0.7*											0.7*	0.7*
Black	1992-12	-4.8*											-4.8*	-4.8*
<u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2012</u>														
All Races	1975-04	0.8*	2004-12	-1.4*									-1.1*	-1.4*
White	1975-04	1.7*	2004-12	-0.6									-0.3	-0.6
Black	1975-86	1.3	1986-12	-4.9*									-4.9*	-4.9*
<u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2012</u>														
All Races	1992-12	-0.2											-0.2	-0.2
White	1992-01	2.0*	2001-12	-0.2									-0.2	-0.2
White NH <sup>ef</sup>	1992-04	1.9*	2004-12	-0.6									-0.3	-0.6
Black	1992-12	-4.9*											-4.9*	-4.9*
Black NH <sup>ef</sup>	1992-12	-4.9*											-4.9*	-4.9*
API <sup>e</sup>	1992-12	-2.1*											-2.1*	-2.1*
AI/AN <sup>eg</sup>	1992-12	-3.2											-3.2	-3.2
Hispanic <sup>f</sup>	1992-12	-1.1*											-1.1*	-1.1*
<u>U.S. Cancer Mortality<sup>c</sup>, 1975-2012</u>														
All Races	1975-85	0.7*	1985-94	1.2*	1994-05	0.4*	2005-12	-1.0*					-0.7*	-1.0*
White	1975-82	0.3	1982-99	1.9*	1999-05	1.0*	2005-12	-0.5*					-0.2	-0.5*
Black	1975-84	0.8*	1984-93	-1.9*	1993-12	-4.7*							-4.7*	-4.7*
<u>U.S. Cancer Mortality<sup>c</sup>, 1992-2012</u>														
All Races	1992-05	0.5*	2005-12	-1.1*									-0.7*	-1.1*
White	1992-05	1.4*	2005-12	-0.7*									-0.2	-0.7*
White NH <sup>ef</sup>	1992-04	1.7*	2004-12	-0.4									-0.1	-0.4
Black	1992-12	-4.6*											-4.6*	-4.6*
Black NH <sup>ef</sup>	1992-12	-4.5*											-4.5*	-4.5*
API <sup>e</sup>	1992-12	-2.1*											-2.1*	-2.1*
AI/AN <sup>eg</sup>	1992-05	3.1*	2005-12	-6.2									-4.2	-6.2
Hispanic <sup>f</sup>	1992-12	-0.8*											-0.8*	-0.8*

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.  
<sup>g</sup> The Hispanic and Non-Hispanic mortality trends exclude deaths from New Hampshire and Oklahoma.  
 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.