Table 16.2 Melanoma of the Skin (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program, 1975-2013 With up to Five Joinpoints, 1992-2013 With up to Four Joinpoints, Males by Race/Ethnicity

		JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC ^d	
Name		Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2004-13	2009-13
Name	SEER 9 Delay-Adjus	ted Incide	nce ^a , 197	75-2013											
Black 1975-13 -0.4 -0.4 -0.4	All Races	1975-85	5.6*	1985-05	3.2*	2005-13	1.7*							1.8*	1.7*
Reces 1992-96 5.0* 1996-13 2.0*	White	1975-85	5.9*	1985-06	3.4*	2006-13	1.6*							2.0*	1.6*
Races 1992-96 5.0* 1996-13 2.0*	Black	1975-13	-0.4											-0.4	-0.4
Name															
Black 1992-95 53.6* 1995-13 -2.8* -2.8* -2.8*	All Races	1992-96	5.0*		2.0*										
SEER 9 Observed Incidence*, 1975-2013 All Races 1975-86 5.4* 1986-06 3.1* 2006-13 1.2* 1.6* 1.2* 1.6* 1.1* 1.5* 1.6* 1.1* 1.1* 1.5* 1.6* 1.1* 1.	White	1992-07	3.1*	2007-13	0.9									1.6*	0.9
All Races	Black	1992-95	53.6*	1995-13	-2.8*									-2.8*	-2.8*
Mite 1975-85 5.9* 1985-06 3.4* 2006-13 1.1* 1.6* 1.1* 1.6* 1.1* 1.6* 1.1* 1.6* 1.1* 1.6* 1.1*	SEER 9 Observed In														
SEER 13 Observed Incidence	All Races	1975-86	5.4*	1986-06	3.1*	2006-13	1.2*							1.6*	1.2*
All Races 1992-08 2.5* 2008-13 0.2 1.2* 0.2	White	1975-85	5.9*	1985-06	3.4*	2006-13	1.1*							1.6*	1.1*
All Races 1992-08 2.5* 2008-13 0.2 White 1992-08 3.0* 2008-13 -0.2 White NHef 1992-07 3.4* 2007-13 0.6 Black 1992-95 54.1* 1995-13 -2.9* Black NHef 1992-95 53.9* 1995-13 -2.8* All Races 1992-13 1.1 AT/AN® 1992-13 1.6 Hispanic 1992-13 1.3* U.S. Cancer Mortality 1975-2013 All Races 1975-87 2.5* 1987-97 1.0* 1997-00 -1.7 2000-09 0.9* 2009-13 -1.1 Mite 1975-87 2.5* 1987-97 1.0* 1997-00 -1.6 2000-09 1.1* 2009-13 -0.9 U.S. Cancer Mortality 1992-2013 All Races 1992-13 0.3* White NHef 1992-13 0.6* White NHef 1992-13 0.6* Black 1992-13 -0.1 All Races 1992-13 -0.1	Black	1975-13	-0.5											-0.5	-0.5
White NHefe 1992-08 3.0* 2008-13 -0.2	SEER 13 Observed I	ncidence ^b ,	1992-201	<u>L3</u>											
White NHef 1992-07 3.4* 2007-13 0.6 Black 1992-95 54.1* 1995-13 -2.9* -2.9* Black NHef 1992-95 53.9* 1995-13 -2.8* -2.8* API 1992-13 1.1 AI/AN 1992-13 1.3* -2.8* -2.8* Black 1975-87 2.4* 1987-97 1.0* 1997-00 -1.7 2000-09 0.9* 2009-13 -1.1 0.0 0.0 -1.1 White 1975-87 2.5* 1987-97 1.0* 1997-00 -1.6 2000-09 1.1* 2009-13 -0.9 Black 1975-13 0.8* U.S. Cancer Mortality 1992-2013	All Races	1992-08	2.5*	2008-13	0.2									1.2*	0.2
Black 1992-95 54.1* 1995-13 -2.9* -2.9* -2.9* Black NHef 1992-95 53.9* 1995-13 -2.8* -2.8* -2.8* -2.8* -2.8* APIe 1992-13 1.1	White	1992-08	3.0*	2008-13	-0.2									1.2*	-0.2
Black NHef 1992-95 53.9* 1995-13 -2.8* APTe 1992-13 1.1 AI/ANeg 1992-13 1.6 Hispanicf 1992-13 1.3* U.S. Cancer Mortalityc, 1975-2013 All Races 1975-87 2.4* 1987-97 0.9* 1997-00 -1.7 2000-09 0.9* 2009-13 -1.1 White 1975-87 2.5* 1987-97 1.0* 1997-00 -1.6 2000-09 1.1* 2009-13 -0.9 Black 1975-13 -0.8* U.S. Cancer Mortalityc, 1992-2013 All Races 1992-13 0.3* White 1992-13 0.4* White 1992-13 0.6* Black 1992-13 0.6* Black 1992-13 -0.1 Black NHef 1992-13 -0.1 Black 1992-13 -0.1 Black NHef 1992-13 -0.1 Black 1992-13 -0.1	White NH ^{ef}	1992-07	3.4*	2007-13	0.6									1.6*	0.6
API ^e 1992-13 1.1 AI/AN ^{eg} 1992-13 1.6 Hispanic ^f 1992-13 1.3* U.S. Cancer Mortality ^c , 1975-2013 All Races 1975-87 2.4* 1987-97 0.9* 1997-00 -1.7 2000-09 0.9* 2009-13 -1.1 White 1975-87 2.5* 1987-97 1.0* 1997-00 -1.6 2000-09 1.1* 2009-13 -0.9 Black 1975-13 -0.8* U.S. Cancer Mortality ^c , 1992-2013 All Races 1992-13 0.3* White 1992-13 0.3* White 1992-13 0.6* Black 1992-13 0.6* Black 1992-13 -0.1 Black NH ^{ef} 1992-13 -0.1		1992-95	54.1*	1995-13	-2.9*									-2.9*	-2.9*
AI/AN ^{eg} 1992-13 1.6 Hispanic ^f 1992-13 1.3* U.S. Cancer Mortality ^c , 1975-2013 All Races 1975-87 2.4* 1987-97 0.9* 1997-00 -1.7 2000-09 0.9* 2009-13 -1.1 0.0 -1.1 White 1975-87 2.5* 1987-97 1.0* 1997-00 -1.6 2000-09 1.1* 2009-13 -0.9 Black 1975-13 -0.8* U.S. Cancer Mortality ^c , 1992-2013 All Races 1992-13 0.3* White 1992-13 0.4* White NH ^{ef} 1992-13 0.6* Black 1992-13 -0.1 Black NH ^{ef} 1992-13 -0.1 Black NH ^{ef} 1992-13 -0.1 Black NH ^{ef} 1992-13 -1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.3* 1.3* 1.3* 1.3* 1.1 1.0.0 1.1 1.0.0 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.1 1.0 1.1 1.0 1.1 1.1 1		1992-95	53.9*	1995-13	-2.8*									-2.8*	-2.8*
Hispanic 1992-13 1.3* \[\begin{array}{c c c c c c c c c c c c c c c c c c c	API ^e	1992-13	1.1											1.1	1.1
U.S. Cancer Mortality ^c , 1975-2013 All Races 1975-87 2.4* 1987-97 0.9* 1997-00 -1.7 2000-09 0.9* 2009-13 -1.1 0.0 -1.1 White 1975-87 2.5* 1987-97 1.0* 1997-00 -1.6 2000-09 1.1* 2009-13 -0.9 0.2 -0.9 Black 1975-13 -0.8* U.S. Cancer Mortality ^c , 1992-2013 All Races 1992-13 0.3* 0.3* White 1992-13 0.4* White NH ^{ef} 1992-13 0.6* Black 1992-13 -0.1 Black NH ^{ef} 1992-13 -0.1 -0.1 -0.1 Black NH ^{ef} 1992-13 -0.1 -0.1 -0.1 API ^e 1992-13 -1.5	•	1992-13	1.6											1.6	1.6
All Races 1975-87 2.4* 1987-97 0.9* 1997-00 -1.7 2000-09 0.9* 2009-13 -1.1 0.0 -1.1 White 1975-87 2.5* 1987-97 1.0* 1997-00 -1.6 2000-09 1.1* 2009-13 -0.9 0.2 -0.9 Black 1975-13 -0.8* -0	Hispanic ^f	1992-13	1.3*											1.3*	1.3*
White 1975-87 2.5* 1987-97 1.0* 1997-00 -1.6 2000-09 1.1* 2009-13 -0.9 Black 1975-13 -0.8* U.S. Cancer Mortality ^c , 1992-2013 All Races 1992-13 0.3* White 1992-13 0.4* White NH ^{ef} 1992-13 0.6* Black 1992-13 -0.1 Black NH ^{ef} 1992-13 -0.1 API ^e 1992-13 -1.5	U.S. Cancer Mortal	ity ^c , 1975-	-2013												
Black 1975-13 -0.8* -0.8* U.S. Cancer Mortality ^c , 1992-2013 All Races 1992-13 0.3* White 1992-13 0.4* White NH ^{ef} 1992-13 0.6* Black 1992-13 -0.1 Black NH ^{ef} 1992-13 -0.1 API ^e 1992-13 -1.5	All Races	1975-87	2.4*	1987-97	0.9*	1997-00	-1.7	2000-09	0.9*	2009-13	-1.1			0.0	-1.1
U.S. Cancer Mortality ^c , 1992-2013 All Races 1992-13 0.3* White 1992-13 0.4* White NH ^{ef} 1992-13 0.6* Black 1992-13 -0.1 Black NH ^{ef} 1992-13 -0.1 API ^e 1992-13 -1.5	White	1975-87	2.5*	1987-97	1.0*	1997-00	-1.6	2000-09	1.1*	2009-13	-0.9			0.2	-0.9
All Races 1992-13 0.3* White 1992-13 0.4* White NHef 1992-13 0.6* Black 1992-13 -0.1 Black NHef 1992-13 -0.1 APIe 1992-13 -1.5	Black	1975-13	-0.8*											-0.8*	-0.8*
White 1992-13 0.4* White NH ^{ef} 1992-13 0.6* Black 1992-13 -0.1 Black NH ^{ef} 1992-13 -0.1 API ^e 1992-13 -1.5	U.S. Cancer Mortality ^c , 1992-2013														
White NH ^{ef} 1992-13 0.6* 0.6* 0.6* Black 1992-13 -0.1 -0.1 -0.1 Black NH ^{ef} 1992-13 -0.1 -0.1 -0.1 API ^e 1992-13 -1.5 -1.5	All Races	1992-13	0.3*											0.3*	0.3*
Black 1992-13 -0.1 -0.1 -0.1 Black NH ^{ef} 1992-13 -0.1 -0.1 -0.1 -0.1 API ^e 1992-13 -1.5 -1.5	White	1992-13	0.4*											0.4*	0.4*
Black NH ^{ef} 1992-13 -0.1 -0.1 API ^e 1992-13 -1.5 -1.5	White NH ^{ef}	1992-13	0.6*											0.6*	0.6*
API ^e 1992-13 -1.5 -1.5		1992-13	-0.1											-0.1	-0.1
	Black NH ^{ef}	1992-13	-0.1											-0.1	-0.1
ΔΤ/ΔΝ ^{eg} 1992-13 2.6 2.6 2.6	API ^e	1992-13	-1.5											-1.5	-1.5
FILE TO 2.0 2.0	AI/AN ^{eg}	1992-13	2.6											2.6	2.6
Hispanic ^f $1992-13 -0.2$ -0.2	Hispanic ^f	1992-13	-0.2											-0.2	-0.2

Joinpoint Regression Program Version 4.3.0.0, April 2016, National Cancer Institute. (http://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).

Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

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

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

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.

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).</p>

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