

Melanoma of the Skin (Invasive)  
 Long-Term Trends in U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program  
 By Females, All Races (includes Hispanic), All Ages  
 1975-2019 With up to Five Joinpoints

Race/ Ethnicity	Model	JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC		Comparability Ratio Estimate
		Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2010-19	2015-19	
All Races	Jump	1975-86	1.0*	1986-12	-0.4*	2012-19	-4.2*							-3.3*	-4.2*	0.9783 <sup>§</sup>
All Races	Comparability Ratio <sup>^</sup>	1975-86	1.0*	1986-12	-0.3*	2012-19	-4.2*							-3.3*	-4.2*	0.9677 <sup>§</sup>
All Races	Standard Joinpoint	1975-88	0.8*	1988-12	-0.5*	2012-19	-4.0*							-3.3*	-4.0*	
White	Jump	1975-86	1.1*	1986-12	-0.2*	2012-19	-3.8*							-3.0*	-3.8*	0.9841 <sup>§</sup>
White	Comparability Ratio <sup>^</sup>	1975-85	1.2*	1985-12	-0.1	2012-19	-3.9*							-3.1*	-3.9*	0.9677 <sup>§</sup>
White	Standard Joinpoint	1975-86	1.1*	1986-12	-0.3*	2012-19	-3.8*							-3.0*	-3.8*	
Black	Jump	1975-07	0.4	2007-19	-3.9*									-3.9*	-3.9*	0.7986 <sup>§</sup>
Black	Comparability Ratio <sup>^</sup>	1975-98	0.3	1998-19	-2.6*									-2.6*	-2.6*	0.9677 <sup>§</sup>
Black	Standard Joinpoint	1975-97	0.3	1997-19	-2.6*									-2.6*	-2.6*	

<sup>^</sup>Indicates the final selected model.

Joinpoint Regression Program Version 4.9.1.0, April 2022, 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).

<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.

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

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

<sup>§</sup> Significant at level 0.05 for test of Comparability Ratio = 1.