## Table 5.1 Cancer of the Cervix Uteri (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program, 1975-2010 With up to Five Joinpoints, 1992-2010 With up to Three Joinpoints, All Ages by Race/Ethnicity

SEER   Delay-Adjusted   Inticidence   195-2011   1982-90   -0.2   1990-10   -2.5*		JP Trend	1 JP Tr	JP Trend 2_		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC <sup>d</sup>	
All Races 1975-82 4.6.* 1982-90 -0.2 1990-10 -2.5.* -2.5* -2.5* -2.5*   Black 1975-10 -3.8.* -3.8* -3.8* -3.8*    SEER 13 Delay-Adjusted Incidence*. 1992-10 -2.5.*2.5*   White 1992-10 -2.0.* -2.5.*2.5*   White 1992-10 -2.0.*2.0* -2.0*   Black 1992-10 -3.6.*2.0* -2.0*   Black 1992-10 -3.6.*2.0* -2.0*   SEER 9 Observed Incidence*. 1975-2010   All Races 1975-82 -4.6.* 1982-90   All Races 1975-82 -4.6.* 1982-90   All Races 1975-80 -4.6.* 1982-90   All Races 1992-10 -2.5.*   White 1992-10 -3.7*   Black Number 1992-10 -2.1.*   All Races 1992-10 -2.1.*   All Races 1992-10 -2.3.*   Black 1992-10 -3.6.*   Black 1992-10 -3.7.*   Black 1992-10 -3.8.*   Black 1992-2010   Black 1992-10 -3.8.*   Black 1992-30 -2.8.*		Years A	APC Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2001-10	2006-10	
All Races 1975-82 4.6.* 1982-90 -0.2 1990-10 -2.5.* -2.5* -2.5* -2.5*   Black 1975-10 -3.8.* -3.8* -3.8* -3.8*    SEER 13 Delay-Adjusted Incidence*. 1992-10 -2.5.*2.5*   White 1992-10 -2.0.* -2.5.*2.5*   White 1992-10 -2.0.*2.0* -2.0*   Black 1992-10 -3.6.*2.0* -2.0*   Black 1992-10 -3.6.*2.0* -2.0*   SEER 9 Observed Incidence*. 1975-2010   All Races 1975-82 -4.6.* 1982-90   All Races 1975-82 -4.6.* 1982-90   All Races 1975-80 -4.6.* 1982-90   All Races 1992-10 -2.5.*   White 1992-10 -3.7*   Black Number 1992-10 -2.1.*   All Races 1992-10 -2.1.*   All Races 1992-10 -2.3.*   Black 1992-10 -3.6.*   Black 1992-10 -3.7.*   Black 1992-10 -3.8.*   Black 1992-2010   Black 1992-10 -3.8.*   Black 1992-30 -2.8.*	SEER 9 Delay-Adiu	sted Incidence	a, 1975-2010												
Black   1975-10   -3.8*   -3.8*   -3.8*				-0.2	1990-10	-2.5*							-2.5*	-2.5*	
All Races   1992-10   -2.5*	White	1975-82 -4	4.6* 1982-90	0.2	1990-10	-2.1*							-2.1*	-2.1*	
All Races   1992-10   -2.5*   -2.5*   -2.0*	Black	1975-10 -3	3.8*										-3.8*	-3.8*	
Marke   1992-10   -2.0*   -2	SEER 13 Delay-Adj	usted Incidence	e <sup>b</sup> , 1992-2010												
Black   1992-10   -3.6*	All Races	1992-10 -2	2.5*										-2.5*	-2.5*	
All Races	White	1992-10 -2	2.0*										-2.0*	-2.0*	
All Races	Black	1992-10 -3	3.6*										-3.6*	-3.6*	
Mite   1975-82	SEER 9 Observed I	ncidence <sup>a</sup> , 1975	5-2010												
Black   1975-10   -3.7*   -3.7*   -3.7*     -3.7*     -3.7*     -3.7*     -3.7*	All Races	1975-82 -4	4.6* 1982-90	-0.2	1990-10	-2.5*							-2.5*	-2.5*	
SEER 13 Observed Incidence   1992-10   -2.5*	White	1975-82 -4	4.7* 1982-90	0.2	1990-10	-2.2*							-2.2*	-2.2*	
All Races 1992-10 -2.5* White 1992-10 -2.10* White NHef 1992-10 -2.00* Black 1992-10 -3.7* Black NHef 1992-10 -3.7* APTe 1992-10 -1.3 Hispanicf 1992-10 -1.3 Hispanicf 1992-10 -3.9*  U.S. Cancer Mortalityc, 1975-2010 All Races 1975-82 -4.3* 1982-96 -1.6* 1996-03 -3.7* 2003-10 -1.1* White 1975-83 -4.2* 1983-96 -1.3* 1996-03 -3.4* 2003-10 -0.9* Black NHef 1992-96 -1.1 1996-03 -3.4* 2003-10 -2.1*  U.S. Cancer Mortalityc, 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortalityc, 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortalityc, 1992-2010 All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9* White NHef 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9* White NHef 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9* Black 1992-01 -5.1* 2001-10 -2.5* APIE 1992-10 -4.1* AI/Aneg 1992-10 -2.0*	Black	1975-10 -3	3.7*										-3.7*	-3.7*	
White NHeff 1992-10	SEER 13 Observed Incidence <sup>b</sup> , 1992-2010														
White NHef 1992-10 -2.0* Black 1992-10 -3.7* Black NHef 1992-10 -3.7* Black NHef 1992-10 -3.6* API* 1992-10 -4.4* AI/AN** Black NHef 1992-10 -1.3 Hispanicf 1992-10 -3.9*  U.S. Cancer Mortality*, 1975-2010 All Races 1975-82 -4.3* 1982-96 -1.6* 1996-03 -3.7* 2003-10 -1.1* White 1975-83 -4.2* 1983-96 -1.3* 1996-03 -3.4* 2003-10 -0.9* Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortality*, 1992-2010 All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White NHef 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9* Black 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9* White NHef 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9* Black 1992-01 -5.1* 2001-10 -2.0* Black NHef 1992-01 -5.1* 2001-10 -2.5* API* AI/AN** Black NHef 1992-01 -2.0*	All Races	1992-10 -2	2.5*										-2.5*	-2.5*	
Black 1992-10 -3.7* Black NHef 1992-10 -3.6* APIe 1992-10 -4.4* AI/ANeg 1992-10 -1.3 Hispanicf 1992-10 -3.9*  U.S. Cancer Mortalityc, 1975-2010 All Races 1975-82 -4.3* 1982-96 -1.6* 1996-03 -3.7* 2003-10 -1.1* White 1975-81 -4.8* 1981-93 -2.4* 1993-03 -3.4* 2003-10 -0.9* Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortalityc, 1992-2010 All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.1*  U.S. Cancer Mortalityc, 1992-2010 All Races 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9* White 1975-81 -4.8* 1981-93 -3.4* 2003-10 -0.9* White NHef 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9* White NHef 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9* Black 1992-03 -4.8* 2003-10 -2.0* Black 1992-03 -4.8* 2003-10 -2.0* Black 1992-01 -5.1* 2001-10 -2.5* APIe 1992-10 -4.1* AI/ANeg 1992-10 -2.0*	White	1992-10 -2	2.1*										-2.1*	-2.1*	
Black NHef 1992-10 -3.6* API 1992-10 -4.4* AI/ANPeg 1992-10 -1.3 Hispanicf 1992-10 -3.9*  U.S. Cancer Mortalityc, 1975-2010 All Races 1975-82 -4.3* 1982-96 -1.6* 1996-03 -3.7* 2003-10 -1.1* White 1975-83 -4.2* 1983-96 -1.3* 1996-03 -3.4* 2003-10 -0.9* Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortalityc, 1992-2010 All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9* White Nhef 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9* White Nhef 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9*  White Nhef 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9*  Black 1992-03 -4.8* 2003-10 -2.0*  Black 1992-01 -5.1* 2001-10 -2.5* API 1992-10 -4.1* AI/ANPeg 1992-10 -2.0*	White NH <sup>ef</sup>	1992-10 -2	2.0*										-2.0*	-2.0*	
API <sup>e</sup> 1992-10 -4.4* AI/AN <sup>eg</sup> 1992-10 -1.3 Hispanic <sup>f</sup> 1992-10 -3.9*  U.S. Cancer Mortality <sup>c</sup> , 1975-2010 All Races 1975-82 -4.3* 1982-96 -1.3* 1996-03 -3.4* 2003-10 -0.9* Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortality <sup>c</sup> , 1992-2010 All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9* White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9* White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9* Black 1992-03 -4.8* 2003-10 -2.0* Black 1992-01 -5.1* 2001-10 -2.5* API <sup>e</sup> 1992-10 -4.1* AI/AN <sup>eg</sup> 1992-10 -2.0*	Black	1992-10 -3	3.7*										-3.7*	-3.7*	
AI/AN <sup>eg</sup> 1992-10 -1.3 Hispanic <sup>f</sup> 1992-10 -3.9*  U.S. Cancer Mortality <sup>c</sup> , 1975-2010 All Races 1975-82 -4.3* 1982-96 -1.6* 1996-03 -3.7* 2003-10 -1.1* White 1975-83 -4.2* 1983-96 -1.3* 1996-03 -3.4* 2003-10 -0.9* Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortality <sup>c</sup> , 1992-2010 All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9* White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.7  Black 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.7  Black 1992-03 -4.8* 2003-10 -2.0* Black NH <sup>ef</sup> 1992-01 -5.1* 2001-10 -2.5* API <sup>e</sup> 1992-10 -4.1*  AI/AN <sup>eg</sup> 1992-10 -2.0*  -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3 -1.3	Black NH <sup>ef</sup>	1992-10 -3	3.6*										-3.6*	-3.6*	
Hispanic <sup>f</sup> 1992-10 -3.9*  U.S. Cancer Mortality <sup>c</sup> , 1975-2010  All Races 1975-82 -4.3* 1982-96 -1.6* 1996-03 -3.7* 2003-10 -1.1*  White 1975-83 -4.2* 1983-96 -1.3* 1996-03 -3.4* 2003-10 -0.9*  Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortality <sup>c</sup> , 1992-2010  All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9*  White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.9*  White NH <sup>ef</sup> 1992-03 -4.8* 2003-10 -2.0*  Black 1992-03 -4.8* 2003-10 -2.0*  All Races 1992-01 -5.1* 2001-10 -2.5*  API <sup>e</sup> 1992-10 -4.1*  AI/AN <sup>eg</sup> 1992-10 -2.0*	API <sup>e</sup>	1992-10 -4	4.4*										-4.4*	-4.4*	
U.S. Cancer Mortality <sup>c</sup> , 1975-2010 All Races 1975-82 -4.3* 1982-96 -1.6* 1996-03 -3.7* 2003-10 -1.1* White 1975-83 -4.2* 1983-96 -1.3* 1996-03 -3.4* 2003-10 -0.9* Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortality <sup>c</sup> , 1992-2010 All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9* White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.7  Black 1992-03 -4.8* 2003-10 -2.0* Black NH <sup>ef</sup> 1992-01 -5.1* 2001-10 -2.5* API <sup>e</sup> 1992-10 -4.1* AI/AN <sup>eg</sup> 1992-10 -2.0*	AI/AN <sup>eg</sup>	1992-10 -1	1.3										-1.3	-1.3	
All Races 1975-82 -4.3* 1982-96 -1.6* 1996-03 -3.7* 2003-10 -1.1* White 1975-83 -4.2* 1983-96 -1.3* 1996-03 -3.4* 2003-10 -0.9* Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1*  U.S. Cancer Mortality <sup>c</sup> , 1992-2010 All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9* White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.7  Black 1992-03 -4.8* 2003-10 -2.0*  Black NH <sup>ef</sup> 1992-01 -5.1* 2001-10 -2.5*  API <sup>e</sup> 1992-10 -4.1* AI/AN <sup>eg</sup> 1992-10 -2.0*	Hispanic <sup>f</sup>	1992-10 -3	3.9*										-3.9*	-3.9*	
White 1975-83 -4.2* 1983-96 -1.3* 1996-03 -3.4* 2003-10 -0.9* Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1* -2.7* -2.1*  U.S. Cancer Mortality <sup>c</sup> , 1992-2010  All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9*  White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.7  Black 1992-03 -4.8* 2003-10 -2.0*  Black NH <sup>ef</sup> 1992-01 -5.1* 2001-10 -2.5*  API <sup>e</sup> 1992-10 -4.1*  AI/AN <sup>eg</sup> 1992-10 -2.0*	U.S. Cancer Morta	lity <sup>c</sup> , 1975-201	10												
Black 1975-81 -4.8* 1981-93 -2.4* 1993-03 -4.7* 2003-10 -2.1* -2.1* <u>U.S. Cancer Mortality<sup>c</sup>, 1992-2010</u> All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9*  White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.7  Black 1992-03 -4.8* 2003-10 -2.0*  Black NH <sup>ef</sup> 1992-01 -5.1* 2001-10 -2.5*  API <sup>e</sup> 1992-10 -4.1*  AI/AN <sup>eg</sup> 1992-10 -2.0*	All Races	1975-82 -4	4.3* 1982-96	-1.6*	1996-03	-3.7*	2003-10	-1.1*					-1.7*	-1.1*	
U.S. Cancer Mortality <sup>c</sup> , 1992-2010 All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4*  White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9*  White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.7  Black 1992-03 -4.8* 2003-10 -2.0*  Black NH <sup>ef</sup> 1992-01 -5.1* 2001-10 -2.5*  API <sup>e</sup> 1992-10 -4.1*  AI/AN <sup>eg</sup> 1992-10 -2.0*	White	1975-83 -4	4.2* 1983-96	-1.3*	1996-03	-3.4*	2003-10	-0.9*					-1.4*	-0.9*	
All Races 1992-96 -2.3* 1996-04 -3.5* 2004-07 0.3 2007-10 -2.4* -1.9* -1.8* White 1992-96 -1.4 1996-03 -3.4* 2003-10 -0.9* -1.4* -0.9* White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.7 -1.3* -0.7 Black 1992-03 -4.8* 2003-10 -2.0* -2.0* -2.0* Black NH <sup>ef</sup> 1992-01 -5.1* 2001-10 -2.5* -2.5* API <sup>e</sup> 1992-10 -4.1* -4.1* AI/AN <sup>eg</sup> 1992-10 -2.0* -2.0*	Black	1975-81 -4	4.8* 1981-93	-2.4*	1993-03	-4.7*	2003-10	-2.1*					-2.7*	-2.1*	
White $1992-96$ -1.4 $1996-03$ -3.4* $2003-10$ -0.9* $-1.4*$ -0.9* White $NH^{ef}$ $1992-96$ -1.1 $1996-03$ -3.4* $2003-10$ -0.7 $-1.3*$ -0.7 Black $1992-03$ -4.8* $2003-10$ -2.0* $-2.0*$ Black $1992-01$ -5.1* $2001-10$ -2.5* $-2.5*$ API $^{e}$ $1992-10$ -4.1* $-4.1*$ AI/AN $^{eg}$ $1992-10$ -2.0* $-2.0*$	U.S. Cancer Morta	lity <sup>c</sup> , 1992-201	10												
White NH <sup>ef</sup> 1992-96 -1.1 1996-03 -3.4* 2003-10 -0.7  Black 1992-03 -4.8* 2003-10 -2.0* -2.7* -2.0*  Black NH <sup>ef</sup> 1992-01 -5.1* 2001-10 -2.5* -2.5*  API <sup>e</sup> 1992-10 -4.1*  AI/AN <sup>eg</sup> 1992-10 -2.0* -2.0*	All Races	1992-96 -2	2.3* 1996-04	-3.5*	2004-07	0.3	2007-10	-2.4*					-1.9*	-1.8*	
Black 1992-03 -4.8* 2003-10 -2.0* -2.0* -2.5* -2.5* -2.5* API <sup>e</sup> 1992-10 -4.1* -4.1* -4.1* AI/AN <sup>eg</sup> 1992-10 -2.0*	White	1992-96 -1	1.4 1996-03	-3.4*	2003-10	-0.9*							-1.4*	-0.9*	
Black NH <sup>ef</sup> 1992-01 -5.1* 2001-10 -2.5* -2.5* API <sup>e</sup> 1992-10 -4.1* -4.1* AI/AN <sup>eg</sup> 1992-10 -2.0* -2.0*	White NH <sup>ef</sup>	1992-96 -1	1.1 1996-03	-3.4*	2003-10	-0.7							-1.3*	-0.7	
API <sup>e</sup> 1992-10 -4.1* -4.1* -4.1* AI/AN <sup>eg</sup> 1992-10 -2.0* -2.0*	Black	1992-03 -4	4.8* 2003-10	-2.0*									-2.7*	-2.0*	
$AI/AN^{eg}$ 1992-10 -2.0*	Black NH <sup>ef</sup>	1992-01 -5	5.1* 2001-10	-2.5*									-2.5*	-2.5*	
	API <sup>e</sup>	1992-10 -4	4.1*										-4.1*	-4.1*	
Hispanic <sup>f</sup> 1992-10 -2.7* -2.7*	AI/AN <sup>eg</sup>	1992-10 -2	2.0*										-2.0*	-2.0*	
	Hispanic <sup>f</sup>	1992-10 -2	2.7*										-2.7*	-2.7*	

Joinpoint Regression Program Version 4.0.3, April 2013, National Cancer Institute. (<a href="http://surveillance.cancer.gov/joinpoint/">http://surveillance.cancer.gov/joinpoint/</a>). 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.

d 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 CT, DC, ME, MD, MN, NH, NY, ND, SC, OK and VT.

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).

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