Table 20.1 Cancer of the Oral Cavity and Pharynx (Invasive)

Trends in SEER Incidence^{ab} and U.S. Mortality^c Using the Joinpoint Regression Program, 1975-2014 With up to Five Joinpoints, 1992-2014 With up to Four Joinpoints, Both Sexes by Race/Ethnicity

SEER 9		JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC ^d	
All Races		Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2005-14	2010-14
All Races	SEER 9 Delay-Adius	sted Incide	nce ^a , 197	75-2014											
Sign 1975-94 2.2 1984-14 2.4* -2.4					-1.1*	2003-14	0.8*							0.8*	0.8*
All Races 1992-04 -1.2* 2004-14 0.8* 1912-14 0.8* 1912-14 0.8* 1912-14 0.8* 1912-14 0.8* 1912-14 0.1* 1.1	White	1975-03	-0.9*	2003-14	1.2*									1.2*	1.2*
All Races	Black	1975-84	2.2*	1984-14	-2.4*									-2.4*	-2.4*
Name	SEER 13 Delay-Adju	992-2014													
Black 1992-14 -2.3* -2.3* -2.3* -2.3* -2.3* -2.3* -2.3* -2.3* -2.3* -2.3*	All Races	1992-04	-1.2*	2004-14	0.8*									0.8*	0.8*
All Races	White	1992-03	-1.1*	2003-14	1.1*									1.1*	1.1*
All Races	Black	1992-14	-2.3*											-2.3*	-2.3*
Milte	SEER 9 Observed In	ncidenceª, 1	1975-2014	<u>1</u>											
Selack 1975-84 2.3* 1984-14 -2.4* -2.4* -2.4* -2.4* -2.4*						2003-14	0.6*								
All Races 1992-03 -1.3 2003-14 0.5 0	White														
All Races 1992-03 -1.3* 2003-14 0.5* 0.5* 0.5* White 1992-03 -1.1* 2003-14 0.9* 0	Black	1975-84	2.3*	1984-14	-2.4*									-2.4*	-2.4*
White NHeff 1992-03 -1.1* 2003-14 0.9*	SEER 13 Observed 1	Incidence ^b ,	1992-201	<u>L4</u>											
White NHef 1992-03 -0.8* 2003-14 1.1* Black 1992-14 -2.4* -2.1* -2.0* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1* -2.1*	All Races	1992-03	-1.3*	2003-14	0.5*									0.5*	0.5*
Black 1992-14 -2.4* Black NH ^{ef} 1992-14 -2.4* API ^e 1992-14 -0.8* AI/AN ^{eg} 1992-14 -1.3 Hispanic ^f 1992-02 -2.1* 2002-14 0.7 U.S. Cancer Mortality ^c , 1975-2014 All Races 1975-79 -0.5 1979-93 -1.7* 1993-00 -2.7* 2000-09 -1.3* 2009-14 0.6 Black 1975-80 3.2* 1980-93 -1.5* 1993-09 -4.0* 2009-14 -0.5 U.S. Cancer Mortality ^c , 1992-2014 All Races 1992-06 -2.1* 2006-14 0.2 Black 1975-80 3.2* 1980-93 -1.5* 1993-09 -4.0* 2009-14 -0.5 U.S. Cancer Mortality ^c , 1992-2014 All Races 1992-06 -2.1* 2006-14 0.1 White 1975-80 3.2* 2006-14 0.1 White 1992-05 -1.9* 2005-14 0.3 White NH ^{ef} 1992-05 -1.7* 2005-14 0.4 Black 1992-09 -3.9* 2009-14 -0.6 Black 1992-09 -3.9* 2009-14 -0.6 Black 1992-09 -3.9* 2009-14 -0.6 API ^e 1992-14 -2.0* AI/AN ^{eg} 1992-14 -1.8*		1992-03		2003-14	0.9*										
Black NHef 1992-14 -2.4* -2.4* -2.4* APIe 1992-14 -0.8* -0.8				2003-14	1.1*										
API ^e 1992-14 -0.8* AI/AN ^{eg} 1992-14 -1.3 Hispanic ^f 1992-02 -2.1* 2002-14 0.7 <u>U.S. Cancer Mortality^c, 1975-2014</u> All Races 1975-79 -0.5 1979-93 -1.7* 1993-00 -2.7* 2000-09 -1.3* 2009-14 0.6 White 1975-80 3.2* 1980-93 -1.5* 1993-09 -4.0* 2009-14 -0.5 <u>U.S. Cancer Mortality^c, 1992-2014</u> All Races 1992-06 -2.1* 2006-14 0.2 Black 1975-80 1.9* 2005-14 0.1 White 1992-05 -1.9* 2005-14 0.1 White 1992-05 -1.9* 2005-14 0.1 White 1992-05 -1.9* 2005-14 0.4 Black 1992-09 -3.9* 2009-14 -0.6 Black 1992-09 -3.9* 2009-14 -0.6 Black NH ^{ef} 1992-09 -3.9* 2009-14 -0.6 API ^e 1992-14 -2.0* AI/AN ^{eg} 1992-14 -1.8*		1992-14													
AI/AN°S 1992-14 -1.3															
Hispanic 1992-02 -2.1* 2002-14 0.7 U.S. Cancer Mortality 1975-2014 All Races 1975-79 -0.5 1979-93 -1.7* 1993-00 -2.7* 2000-09 -1.3* 2009-14 0.6 -0.3 0.6 White 1975-80 3.2* 1980-93 -1.5* 1993-09 -4.0* 2009-14 -0.5 -2.1* -0.5 U.S. Cancer Mortality 1992-2014 All Races 1992-06 -2.1* 2006-14 0.1 White 1992-05 -1.9* 2005-14 0.3 White NHef 1992-05 -1.7* 2005-14 0.4 Black 1992-05 -3.9* 2009-14 -0.6 Black NHef 1992-09 -3.9* 2009-14 -0.6 Black NHef 1992-09 -3.9* 2009-14 -0.6 API 1992-14 -2.0* AI/ANeg 1992-14 -1.8*															
U.S. Cancer Mortality ^c , 1975-2014 All Races 1975-79 -0.5 1979-93 -1.7* 1993-00 -2.7* 2000-09 -1.3* 2009-14 0.6 -0.3 0.6 White 1975-05 -1.9* 2005-14 0.2 Black 1975-80 3.2* 1980-93 -1.5* 1993-09 -4.0* 2009-14 -0.5 U.S. Cancer Mortality ^c , 1992-2014 All Races 1992-06 -2.1* 2006-14 0.1 White 1992-05 -1.9* 2005-14 0.3 White NH ^{ef} 1992-05 -1.7* 2005-14 0.4 Black 1992-09 -3.9* 2009-14 -0.6 Black NH ^{ef} 1992-09 -3.9* 2009-14 -0.6 API ^e 1992-14 -2.0* AI/AN ^{eg} 1992-14 -1.8*														-1.3	
All Races 1975-79 -0.5 1979-93 -1.7* 1993-00 -2.7* 2000-09 -1.3* 2009-14 0.6	Hispanic ^f	1992-02	-2.1*	2002-14	0.7									0.7	0.7
White 1975-05 -1.9* 2005-14 0.2 Black 1975-80 3.2* 1980-93 -1.5* 1993-09 -4.0* 2009-14 -0.5 U.S. Cancer Mortality ^c , 1992-2014 All Races 1992-06 -2.1* 2006-14 0.1 White 1992-05 -1.9* 2005-14 0.3 White NH ^{ef} 1992-05 -1.7* 2005-14 0.4 Black 1992-09 -3.9* 2009-14 -0.6 Black NH ^{ef} 1992-09 -3.9* 2009-14 -0.6 API ^e 1992-14 -2.0* AI/AN ^{eg} 1992-14 -1.8*	U.S. Cancer Mortality ^c , 1975-2014														
Black 1975-80 3.2* 1980-93 -1.5* 1993-09 -4.0* 2009-14 -0.5 -2.1* -0.5 <u>U.S. Cancer Mortality^c, 1992-2014</u> All Races 1992-06 -2.1* 2006-14 0.1 White 1992-05 -1.9* 2005-14 0.3 White NH ^{ef} 1992-05 -1.7* 2005-14 0.4 Black 1992-09 -3.9* 2009-14 -0.6 Black NH ^{ef} 1992-09 -3.9* 2009-14 -0.6 API ^e 1992-14 -2.0* AI/AN ^{eg} 1992-14 -1.8*						1993-00	-2.7*	2000-09	-1.3*	2009-14	0.6				
U.S. Cancer Mortality ^c , 1992-2014 All Races 1992-06 -2.1* 2006-14 0.1 White 1992-05 -1.9* 2005-14 0.3 White NH ^{ef} 1992-05 -1.7* 2005-14 0.4 Black 1992-09 -3.9* 2009-14 -0.6 Black NH ^{ef} 1992-09 -3.9* 2009-14 -0.6 API ^e 1992-14 -2.0* AI/AN ^{eg} 1992-14 -1.8*	White	1975-05			0.2									0.2	0.2
All Races 1992-06 -2.1* 2006-14 0.1 White 1992-05 -1.9* 2005-14 0.3 White NHef 1992-05 -1.7* 2005-14 0.4 Black 1992-09 -3.9* 2009-14 -0.6 Black NHef 1992-09 -3.9* 2009-14 -0.6 APIe 1992-14 -2.0* AI/ANeg 1992-14 -1.8*	Black	1975-80	3.2*	1980-93	-1.5*	1993-09	-4.0*	2009-14	-0.5					-2.1*	-0.5
White 1992-05 -1.9* 2005-14 0.3 0.3 White NH ^{ef} 1992-05 -1.7* 2005-14 0.4 0.4 0.4 0.4 Black 1992-09 -3.9* 2009-14 -0.6 -2.1* -0.6 Black NH ^{ef} 1992-09 -3.9* 2009-14 -0.6 -2.1* -0.6 API ^e 1992-14 -2.0* -2.0* AI/AN ^{eg} 1992-14 -1.8*			-2014												
White NH ^{ef} 1992-05 -1.7* 2005-14 0.4 Black 1992-09 -3.9* 2009-14 -0.6 Black NH ^{ef} 1992-09 -3.9* 2009-14 -0.6 API ^e 1992-14 -2.0* AI/AN ^{eg} 1992-14 -1.8*		1992-06													
Black 1992-09 -3.9* 2009-14 -0.6 Black NH ^{ef} 1992-09 -3.9* 2009-14 -0.6 API ^e 1992-14 -2.0* AI/AN ^{eg} 1992-14 -1.8*															
Black NH ^{ef} 1992-09 -3.9* 2009-14 -0.6 API ^e 1992-14 -2.0* -2.0* AI/AN ^{eg} 1992-14 -1.8* -1.8*		1992-05	-1.7*	2005-14	0.4									0.4	0.4
API ^e 1992-14 -2.0* -2.0* AI/AN ^{eg} 1992-14 -1.8* -1.8*		1992-09	-3.9*	2009-14	-0.6									-2.1*	-0.6
AI/AN^{eg} 1992-14 -1.8* -1.8*		1992-09	-3.9*	2009-14	-0.6									-2.1*	-0.6
	API ^e	1992-14	-2.0*											-2.0*	-2.0*
Hispanic ^f 1992-05 -3.0* 2005-14 -0.5 -0.5	•	1992-14	-1.8*											-1.8*	-1.8*
	Hispanic ^f	1992-05	-3.0*	2005-14	-0.5									-0.5	-0.5

Joinpoint Regression Program Version 4.4, January 2017, 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). 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.