

Table XIX-1  
ORAL CAVITY AND PHARYNX CANCER (Invasive)

TRENDS IN SEER INCIDENCE AND U.S. MORTALITY, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>INCIDENCE TRENDS (expressed in percents):</u>									
<u>1973-96</u>									
All Ages									
Percent Change (PC)	-11.0	-15.5	-3.6	-13.4	-19.6	-3.3	18.3	29.1	3.2
Est. Annual PC (EAPC)	-0.5★	-0.7★	-0.3★	-0.6★	-0.9★	-0.3	0.5	0.9★	-0.4
Under 65									
Percent Change (PC)	-13.8	-12.3	-17.6	-17.3	-17.5	-18.7	10.8	23.2	-7.6
Est. Annual PC (EAPC)	-0.6★	-0.5★	-1.1★	-0.8★	-0.7★	-1.2★	0.2	0.9	-1.0
65 and over									
Percent Change (PC)	-7.1	-19.1	22.5	-8.2	-21.9	24.3	38.2	43.0	37.3
Est. Annual PC (EAPC)	-0.4★	-1.0★	0.8★	-0.4★	-1.1★	0.9★	1.0★	1.1★	1.0
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	3.6	1.6	8.0	1.7	-0.5	6.3	19.4	23.3	12.2
Est. Annual PC (EAPC)	1.3	0.7	2.7	0.6	-0.1	2.2	7.2	8.2★	5.0
<u>1992-96 - ALL AGES</u>									
Percent Change (PC)	-7.0	-9.4	-1.4	-7.8	-10.7	-1.4	-6.6	-7.0	-4.7
Est. Annual PC (EAPC)	-2.0◆	-2.7◆	-0.4◇	-2.5★◆	-3.3★◆	-0.7	-1.3◇	-1.7◆	0.1
<u>MORTALITY TRENDS (expressed in percents)*:</u>									
<u>1973-96</u>									
All Ages									
Percent Change (PC)	-28.4	-32.2	-21.8	-31.9	-36.7	-23.5	-6.4	-1.7	-10.9
Est. Annual PC (EAPC)	-1.6★	-1.8★	-1.2★	-1.8★	-2.1★	-1.3★	-0.5	-0.3	-0.6★
Under 65									
Percent Change (PC)	-34.1	-32.8	-39.3	-39.4	-38.8	-43.1	-15.0	-9.6	-25.2
Est. Annual PC (EAPC)	-2.0★	-1.8★	-2.5★	-2.3★	-2.2★	-2.8★	-0.9★	-0.7	-1.6★
65 and over									
Percent Change (PC)	-22.2	-31.7	-2.0	-24.5	-34.9	-3.2	12.0	14.3	20.5
Est. Annual PC (EAPC)	-1.2★	-1.9★	0.0	-1.4★	-2.1★	-0.1	0.5★	0.4	1.4★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	-1.1	-2.4	1.6	-2.4	-3.9	0.6	7.7	7.4	11.9
Est. Annual PC (EAPC)	-0.4	-0.8	0.5	-0.8	-1.4	0.2	2.8★	2.7★	4.2★
<u>1992-96 - ALL AGES</u>									
Percent Change (PC)	-7.5	-8.2	-6.6	-7.1	-7.4	-7.4	-8.9	-10.7	-2.2
Est. Annual PC (EAPC)	-2.5★◆	-2.7★◆	-2.4★◆	-2.3★◆	-2.4★	-2.5★◆	-3.3★◆	-3.7★◆	-1.8◇

The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.  
 SEER Program.  
 NCHS public use tape.  
 The EAPC is significantly different from zero ( $p < .05$ ).  
 The EAPC for 1992-96 is significantly different from the EAPC for 1975-79 ( $p < .05$ ).  
 The EAPC for 1992-96 is significantly different from the EAPC for 1975-79 ( $p < .10$ ).  
 Statistic could not be calculated.

Table XIX-2  
 ORAL CAVITY AND PHARYNX CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	11.3	17.5	6.2	11.2	17.6	6.1	10.9	16.6	6.0
1974	11.1	17.4	6.1	11.2	17.6	6.1	10.8	16.1	6.3
1975	11.4	18.0	6.2	11.4	18.3	6.0	11.7	17.2	7.3
1976	11.5	17.8	6.5	11.4	17.8	6.4	13.2	20.4	7.4
1977	11.1	17.4	6.1	11.0	17.1	6.1	12.8	21.1	6.0
1978	11.6	17.7	6.7	11.5	17.6	6.7	13.2	21.5	6.7
1979	12.1	18.7	6.9	11.8	18.4	6.6	16.5	24.9	9.9
1980	11.6	17.4	6.8	11.2	17.0	6.6	15.3	23.1	8.6
1981	11.8	18.0	6.9	11.6	17.5	6.9	14.9	25.1	6.7
1982	11.5	17.4	6.8	11.3	17.0	6.7	15.4	24.7	7.9
1983	11.6	18.2	6.3	11.5	18.1	6.3	14.3	23.3	7.1
1984	11.8	17.9	6.9	11.3	17.2	6.7	16.9	26.9	8.9
1985	11.5	17.1	7.0	11.4	16.8	7.1	14.1	22.6	7.5
1986	11.0	16.8	6.2	10.8	16.4	6.2	14.3	24.8	6.0
1987	11.6	17.8	6.5	11.5	17.5	6.6	14.8	26.2	6.1
1988	10.8	16.2	6.3	10.4	15.7	6.1	14.8	23.3	8.0
1989	10.7	16.2	6.3	10.5	15.6	6.3	14.2	24.2	6.4
1990	11.2	17.0	6.3	10.9	16.4	6.4	14.2	24.5	6.1
1991	10.8	16.3	6.2	10.7	16.1	6.2	12.9	21.2	6.5
1992	10.5	16.1	6.0	10.4	15.7	5.9	13.3	22.6	6.2
1993	10.9	16.5	6.1	10.6	16.0	6.1	14.2	22.9	7.2
1994	10.4	15.7	5.8	10.0	14.8	5.8	14.6	25.0	6.4
1995	10.0	14.7	6.0	9.8	14.3	6.1	12.2	20.3	5.9
1996	10.0	14.8	5.9	9.5	14.0	5.7	13.5	21.9	6.8
<u>AGE-ADJUSTED RATES, 1992-96</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	10.3	15.5	6.0	10.0	14.9	5.9	13.5	22.5	6.5
Under 65	6.5	9.7	3.6	6.1	8.9	3.4	10.7	17.6	4.9
65 and over	45.0	69.2	27.6	46.0	70.3	28.7	39.8	67.0	20.8
All ages (world std.) <sup>§</sup>	8.6	12.9	4.9	8.3	12.3	4.9	11.8	19.5	5.6
<u>AGE-SPECIFIC RATES, 1992-96</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3
5-9	0.1	0.2	0.1	0.1	0.2	0.1	0.0	0.0	0.0
10-14	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.9	0.0
15-19	0.6	0.6	0.6	0.5	0.5	0.5	0.9	1.1	0.7
20-24	0.7	0.8	0.7	0.7	0.8	0.6	0.4	0.5	0.3
25-29	1.5	1.6	1.3	1.3	1.5	1.1	1.8	2.1	1.4
30-34	2.6	3.9	1.3	2.4	3.7	1.1	2.5	4.1	1.2
35-39	3.7	5.3	2.2	3.1	4.3	1.9	4.8	7.5	2.6
40-44	6.5	9.4	3.7	5.7	8.2	3.3	10.7	17.2	5.1
45-49	12.7	19.0	6.7	11.5	16.7	6.2	22.7	37.4	10.0
50-54	19.6	30.2	9.4	18.0	27.5	8.7	37.2	61.7	16.3
55-59	30.3	45.2	16.4	28.6	41.5	16.1	53.3	92.3	22.0
60-64	37.0	55.2	20.6	36.3	53.4	20.5	53.3	87.1	26.7
65-69	43.3	66.0	24.4	43.9	65.8	25.5	50.4	81.4	26.4
70-74	45.4	69.2	27.0	46.6	70.2	28.3	37.2	65.0	17.8
75-79	45.6	69.8	28.9	46.7	70.7	30.2	37.8	70.0	17.3
80-84	48.5	77.0	32.2	50.1	80.5	33.2	29.1	51.7	17.1
85+	44.3	70.7	33.7	45.7	75.2	34.4	21.5	23.5	20.7

§ SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.  
 § SEER Program. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XIX-3  
 ORAL CAVITY AND PHARYNX CANCER (Invasive)

U.S. MORTALITY RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES\*, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DEATH:</u>									
1973	3.6	5.9	1.9	3.5	5.7	1.8	5.0	8.3	2.3
1974	3.6	5.9	1.9	3.5	5.8	1.8	4.7	7.8	2.2
1975	3.7	5.8	1.9	3.5	5.6	1.9	5.1	8.7	2.1
1976	3.6	5.8	1.9	3.4	5.5	1.8	5.3	9.2	2.3
1977	3.7	5.9	1.9	3.5	5.6	1.9	5.4	9.4	2.3
1978	3.6	5.7	1.9	3.4	5.4	1.8	5.4	9.3	2.3
1979	3.6	5.7	2.0	3.4	5.3	1.9	5.8	9.9	2.6
1980	3.5	5.6	1.9	3.3	5.1	1.8	6.1	10.9	2.3
1981	3.4	5.5	1.9	3.2	5.0	1.8	5.7	9.9	2.4
1982	3.4	5.4	1.8	3.1	5.0	1.8	5.8	10.0	2.5
1983	3.3	5.3	1.8	3.1	4.8	1.7	5.8	10.3	2.4
1984	3.3	5.2	1.8	3.0	4.7	1.8	5.6	10.3	2.1
1985	3.2	5.0	1.8	2.9	4.6	1.7	5.5	9.7	2.3
1986	3.1	4.9	1.8	2.9	4.4	1.7	5.6	9.8	2.5
1987	3.0	4.6	1.7	2.8	4.2	1.6	5.0	8.7	2.2
1988	3.0	4.7	1.7	2.8	4.3	1.6	5.3	9.4	2.2
1989	3.0	4.5	1.7	2.7	4.1	1.6	5.3	9.3	2.3
1990	3.0	4.7	1.6	2.7	4.2	1.6	5.4	9.7	2.2
1991	2.9	4.5	1.7	2.7	4.1	1.6	5.2	8.9	2.4
1992	2.8	4.3	1.6	2.6	3.9	1.5	5.0	8.9	2.0
1993	2.8	4.4	1.6	2.6	3.9	1.5	5.0	8.9	2.1
1994	2.7	4.1	1.5	2.4	3.7	1.4	4.7	8.2	2.0
1995	2.7	4.1	1.5	2.4	3.7	1.4	4.7	8.2	2.2
1996	2.6	3.9	1.4	2.4	3.6	1.4	4.3	7.7	1.8
<u>AGE-ADJUSTED RATES, 1992-96</u>									
<u>AGE AT DEATH:</u>									
All ages	2.7	4.2	1.5	2.5	3.7	1.4	4.7	8.4	2.0
Under 65	1.4	2.3	0.7	1.2	1.9	0.6	3.3	5.9	1.3
65 and over	14.1	21.4	9.0	13.9	20.7	9.1	17.5	30.9	8.8
All ages (world std.)N	2.2	3.3	1.2	2.0	3.0	1.1	4.0	7.1	1.7
<u>AGE-SPECIFIC RATES, 1992-96</u>									
<u>AGE AT DEATH:</u>									
0-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0
20-24	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0
25-29	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30-34	0.2	0.2	0.1	0.1	0.2	0.1	0.3	0.4	0.3
35-39	0.5	0.7	0.3	0.3	0.5	0.2	1.1	1.7	0.6
40-44	1.1	1.7	0.5	0.8	1.2	0.4	3.0	5.1	1.3
45-49	2.4	3.9	1.0	1.9	3.0	0.8	6.7	11.8	2.4
50-54	4.6	7.4	1.9	3.7	5.8	1.6	12.5	22.9	4.0
55-59	7.3	11.5	3.4	6.2	9.7	3.0	16.9	30.1	6.5
60-64	10.2	15.8	5.1	9.2	14.1	4.8	19.2	33.9	8.1
65-69	12.3	18.7	6.9	11.7	17.4	6.8	19.1	33.5	8.4
70-74	13.3	20.1	8.1	13.0	19.3	8.1	18.1	31.4	9.1
75-79	14.7	21.9	9.7	14.6	21.5	9.9	16.6	29.8	8.5
80-84	16.5	25.1	11.7	16.6	24.9	12.0	15.2	28.7	8.2
85+	20.7	31.2	16.7	21.4	32.2	17.2	14.4	22.5	11.1

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

N NCHS public use tape. Rates are per 100,000 and are age-adjusted to the world standard population.

Table XIX-4  
ORAL CAVITY AND PHARYNX CANCER (Invasive)

SURVIVAL RATES, BY RACE, SEX, DIAGNOSIS YEAR, STAGE AND AGE

	<u>All Races</u>			<u>Whites</u>			<u>Blacks</u>		
	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>	<u>Males</u>	<u>Females</u>
<u>5-YR RELATIVE SURVIVAL RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1960-63 <sup>a</sup>	-	-	-	45	-	-	-	-	-
1970-73 <sup>a</sup>	-	-	-	43	-	-	-	-	-
1974-76 <sup>b</sup>	53.3	52.3	55.7	55.0	54.5	56.2	36.3	31.3	45.9
1977-79 <sup>b</sup>	52.7	51.5	55.4	54.6	53.9	56.1	36.8	31.2	49.1
1980-82 <sup>b</sup>	52.7	51.1	56.1	55.4	54.3	57.6	30.8	26.2	42.3
1983-85 <sup>b</sup>	53.0	51.5	56.2	55.1	54.3	56.8	35.1	29.9	47.3
1986-88 <sup>b</sup>	52.8	49.2	60.6	55.1	52.0	61.9	34.8	29.6	49.0
1989-95 <sup>b</sup>	53.3	50.0	60.2S	55.5	52.7	61.3S	33.8	28.4	48.4
1989-95 <sup>b</sup>									
ALL STAGES	53.3	50.0	60.2	55.5	52.7	61.3	33.8	28.4	48.4
LOCALIZED	81.3	79.3	84.7	81.7	80.1	84.3	72.1	63.4	85.7
REGIONAL	42.5	41.1	45.8	43.9	42.7	46.5	28.3	26.2	34.2
DISTANT	21.6	20.4	24.4	23.2	21.9	25.6	13.7	11.9	22.5↑
UNSTAGED	35.0	30.3	50.5	35.8	31.5	50.1	22.9	15.0	47.0↑
<u>STAGE DISTRIBUTION (%) 1989-95<sup>b</sup></u>									
ALL STAGES									
Number of cases	15,602	10,680	4,922	12,837	8,703	4,134	1,704	1,257	447
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	35	33	40	38	37	42	19	16	28
REGIONAL	43	44	42	41	42	40	54	55	49
DISTANT	9	9	8	8	8	8	15	16	12
UNSTAGED	12	14	10	13	14	10	12	13	11
<u>5-YR RELATIVE SURVIVAL RATES, 1989-95<sup>b</sup></u>									
<u>AGE AT DIAGNOSIS:</u>									
<45	58.5	50.9	77.9	60.5	52.7	81.6	40.3	32.4	58.4↑
45-54	54.5	50.1	67.6	59.4	54.5	73.0	31.9	27.0	49.1↑
55-64	51.4	48.6	58.5	54.1	51.6	60.3	32.9	28.8	44.7↑
65-74	52.2	49.8	56.4	53.4	51.8	56.4	32.9	27.6	43.9↑
75+	52.6	54.7	50.1	53.9	56.8	50.6	26.2↑	22.6↑	33.6↑
Under 65	54.1	49.6	66.0	57.2	52.7	68.8	34.4	28.9	50.3
65 and over	52.3	51.3	54.1	53.6	53.3	54.2	31.3	26.4	42.1↑

<sup>a</sup> Rates are based on End Results data from a series of hospital registries and one population-based registry.  
<sup>b</sup> Rates are from the SEER Program. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients through 1996.  
**S** The difference in rates between 1974-76 and 1989-95 is statistically significant (p<.05).  
**↑** The standard error of the survival rate is between 5 and 10 percentage points.  
**↑↑** The standard error of the survival rate is greater than 10 percentage points.  
**-** Statistic could not be calculated.

Table XIX-5  
ORAL CAVITY AND PHARYNX CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males and Females

	Year of Diagnosis/Death																					
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Incidence																						
SEER	11.4	11.5	11.1	11.6	12.1	11.6	11.8	11.5	11.6	11.8	11.5	11.0	11.6	10.8	10.7	11.2	10.8	10.5	10.9	10.4	10.0	10.0
Mortality																						
U.S.	3.7	3.6	3.7	3.6	3.6	3.5	3.4	3.4	3.3	3.3	3.2	3.1	3.0	3.0	3.0	2.9	2.8	2.8	2.7	2.7	2.6	
SEER	3.7	3.5	3.7	3.4	3.9	3.6	3.5	3.4	3.4	3.6	3.2	3.4	2.9	2.9	3.2	3.0	2.9	2.8	2.7	2.7	2.5	2.3
Relative Survival Rates (SEER)																						
1-year	79.6	80.4	80.6	79.9	80.6	79.5	80.4	80.0	79.0	81.0	81.6	80.0	80.7	81.8	79.2	81.0	80.9	79.6	81.3	82.9	82.2	
2-year	66.0	67.5	65.5	66.6	65.2	67.1	66.5	66.1	65.3	66.4	68.2	66.4	67.6	66.5	66.6	68.3	67.4	67.9	67.8	70.0		
3-year	60.0	61.3	58.1	60.8	59.1	60.5	59.6	59.0	60.3	59.6	60.9	60.4	61.0	58.6	59.6	61.0	60.3	60.2	61.1			
4-year	55.7	57.2	54.2	57.0	55.1	56.8	56.1	54.4	55.6	56.0	57.1	56.9	57.6	53.6	54.9	57.5	55.3	55.3				
5-year	52.6	53.9	51.5	54.1	52.4	54.0	53.3	50.9	52.2	52.8	54.0	53.8	54.2	50.4	51.4	54.5	51.9					
6-year	50.4	51.8	48.8	51.9	49.9	51.3	51.0	48.2	49.8	49.7	52.2	51.4	51.9	47.4	48.4	52.2						
7-year	49.1	49.6	47.3	48.9	47.6	49.0	48.3	45.8	48.2	47.5	49.6	49.3	49.4	44.4	45.6							
8-year	47.6	48.1	44.7	47.0	44.5	47.7	46.8	44.2	46.3	46.2	48.2	47.4	46.3	42.1								
9-year	45.8	46.7	42.6	45.3	42.6	45.6	45.4	42.4	44.5	44.1	46.1	45.1	44.4									
10-year	44.2	45.4	40.4	42.3	40.7	44.1	43.7	40.7	42.7	42.5	44.7	43.1										
11-year	42.1	43.5	39.0	39.9	39.2	42.9	42.5	39.5	40.8	41.0	43.5											
12-year	40.4	42.5	37.2	39.0	37.8	42.0	41.5	37.6	39.0	39.5												
13-year	38.8	41.4	35.2	38.6	36.7	39.8	39.6	36.6	37.3													
14-year	38.2	40.1	34.0	38.0	35.6	39.1	38.0	35.7														
15-year	37.0	38.4	33.3	35.9	34.4	38.1	35.5															
16-year	35.8	37.2	31.7	34.4	33.2	37.3																
17-year	34.5	36.4	30.9	34.1	32.6																	
18-year	32.7	35.2	30.5	33.1																		
19-year	32.3	34.9	29.1																			
20-year	29.8	34.7																				
21-year	27.8																					

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 Survival rates are relative rates expressed as percents.

Table XIX-6  
ORAL CAVITY AND PHARYNX CANCER (Invasive)  
INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Incidence																						
SEER	18.0	17.8	17.4	17.7	18.7	17.4	18.0	17.4	18.2	17.9	17.1	16.8	17.8	16.2	16.2	17.0	16.3	16.1	16.5	15.7	14.7	14.8
Mortality																						
U.S.	5.8	5.8	5.9	5.7	5.7	5.6	5.5	5.4	5.3	5.2	5.0	4.9	4.6	4.7	4.5	4.7	4.5	4.3	4.4	4.1	4.1	3.9
SEER	5.8	5.5	5.7	5.4	6.2	5.5	5.3	5.4	5.1	5.6	4.8	5.2	4.4	4.5	4.6	4.6	4.6	4.1	3.9	4.0	3.7	3.5
Relative Survival Rates (SEER)																						
1-year	78.4	79.7	81.0	78.4	80.4	78.4	80.0	79.4	78.5	81.3	81.9	78.4	79.9	80.7	77.7	79.8	80.0	78.4	79.8	83.0	81.8	
2-year	65.0	66.0	64.7	65.0	65.4	65.6	65.3	65.8	64.8	65.7	67.9	63.5	66.2	65.0	64.1	65.6	65.7	66.1	65.5	69.8		
3-year	59.6	59.5	57.7	59.2	58.8	58.6	57.6	58.7	59.5	58.0	59.9	56.2	59.2	56.3	56.3	58.2	57.6	57.7	57.9			
4-year	54.5	55.4	53.6	54.2	54.6	55.0	53.9	53.6	55.1	54.3	56.5	52.4	55.4	50.6	50.8	54.5	51.5	53.0				
5-year	51.3	51.8	51.0	51.4	52.0	52.5	50.6	50.1	51.2	50.5	52.7	48.7	51.7	47.0	47.0	51.3	47.8					
6-year	49.9	49.8	48.1	48.9	49.3	49.7	48.6	47.3	49.0	47.1	50.9	46.6	49.2	44.3	44.7	48.8						
7-year	48.9	47.5	46.2	45.5	46.9	47.6	46.1	44.9	47.4	44.7	48.4	44.7	47.4	41.5	41.9							
8-year	47.8	45.7	44.0	44.3	43.6	46.1	45.1	42.6	45.5	43.3	47.4	42.3	44.0	38.5								
9-year	45.8	44.1	41.5	42.8	41.6	44.1	43.6	41.3	43.7	41.3	45.5	40.3	42.3									
10-year	43.9	42.7	39.2	40.2	39.5	42.2	42.1	39.7	41.4	39.3	43.9	38.1										
11-year	41.5	40.8	38.0	37.9	37.8	40.8	40.9	38.4	39.7	37.4	43.0											
12-year	39.9	40.0	36.5	37.0	36.2	40.3	40.0	36.3	38.7	35.5												
13-year	38.2	39.4	34.6	36.4	35.4	38.7	38.6	35.3	37.3													
14-year	37.6	37.7	33.6	36.3	34.2	38.0	37.4	34.2														
15-year	36.8	36.2	33.4	34.5	32.5	36.0	35.4															
16-year	35.3	34.9	31.4	33.1	31.6	35.4																
17-year	33.9	34.2	30.9	32.8	30.5																	
18-year	32.8	32.9	29.9	31.9																		
19-year	32.8	32.9	28.5																			
20-year	30.9	32.9																				
21-year	28.3																					

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
Survival rates are relative rates expressed as percents.

Table XIX-7  
ORAL CAVITY AND PHARYNX CANCER (Invasive)  
INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Incidence																						
SEER	6.2	6.5	6.1	6.7	6.9	6.8	6.9	6.8	6.3	6.9	7.0	6.2	6.5	6.3	6.3	6.3	6.2	6.0	6.1	5.8	6.0	5.9
Mortality																						
U.S.	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.7	1.6	1.6	1.5	1.5	1.4
SEER	2.0	2.0	2.1	1.9	2.2	2.0	2.1	1.9	2.0	2.1	2.0	1.9	1.7	1.6	2.0	1.6	1.6	1.6	1.6	1.6	1.5	1.4
Relative Survival Rates (SEER)																						
1-year	82.4	81.9	79.6	83.4	81.2	81.6	81.4	81.2	80.3	80.4	81.1	83.7	82.4	84.1	82.3	83.9	82.8	82.2	84.5	82.7	83.1	
2-year	68.4	70.9	67.5	70.0	65.0	70.2	69.0	66.8	66.5	67.9	68.8	72.9	70.8	69.7	71.9	74.6	71.0	72.0	72.8	70.3		
3-year	61.0	65.2	59.0	64.2	59.6	64.4	63.8	59.7	62.1	63.2	62.8	69.6	65.1	63.5	66.3	67.2	66.1	65.9	68.1			
4-year	58.6	61.2	55.5	62.8	56.4	60.4	60.7	56.0	56.8	59.5	58.3	66.8	62.6	59.8	63.3	64.4	63.7	60.4				
5-year	55.8	58.4	52.7	59.9	53.3	56.9	58.9	52.6	54.5	57.5	56.5	64.8	59.7	57.5	60.5	61.6	60.5					
6-year	51.8	55.8	50.5	57.9	51.1	54.4	55.9	49.9	51.5	55.0	54.7	61.7	57.8	54.0	56.0	59.7						
7-year	49.6	53.8	49.6	55.6	49.1	51.8	52.8	47.5	49.8	53.3	51.9	59.3	53.9	50.5	53.0							
8-year	47.3	52.8	46.3	52.5	46.6	50.7	50.5	47.2	48.0	52.0	49.6	58.4	51.3	49.6								
9-year	45.9	51.8	44.8	50.2	44.8	48.5	48.9	44.4	46.3	49.6	47.2	55.5	49.1									
10-year	44.9	50.8	42.9	46.5	43.3	47.6	47.0	42.6	45.4	48.8	46.1	53.8										
11-year	43.4	48.9	41.0	43.8	42.1	46.9	45.6	41.7	43.2	48.0	44.4											
12-year	41.4	47.4	38.6	42.7	41.0	45.3	44.3	40.0	39.9	47.2												
13-year	40.0	45.2	36.4	42.7	39.4	41.9	41.6	39.2	37.3													
14-year	39.3	44.4	34.9	41.1	38.4	41.1	39.0	38.6														
15-year	37.5	42.3	33.2	38.5	38.0	41.1	35.7															
16-year	36.7	41.3	32.3	36.9	36.5	40.6																
17-year	35.9	40.5	31.0	36.3	36.4																	
18-year	32.5	39.3	31.0	35.3																		
19-year	30.4	37.9	30.3																			
20-year	28.0	37.3																				
21-year	27.1																					

Note: Incidence and mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
Survival rates are relative rates expressed as percents.

Table XIX-8  
ORAL CAVITY AND PHARYNX CANCER (Invasive)

Percent Diagnosed With Cancer In 10, 20 and 30 Years and In Remaining Lifetime,  
 Given Cancer Free At Current Age By Race and Sex

Lifetime Risk (Percent) of Being Diagnosed With Cancer and  
 Lifetime Risk (Percent) of Dying From Cancer

SEER Areas, 1994-96

All Races

Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.00	0.01	0.02	1.47	0.00	0.01	0.02	0.73	
10	0.00	0.02	0.06	1.49	0.00	0.02	0.03	0.73	
20	0.01	0.06	0.18	1.49	0.01	0.03	0.08	0.73	
30	0.04	0.17	0.48	1.51	0.02	0.07	0.18	0.72	
40	0.13	0.44	0.90	1.50	0.05	0.17	0.36	0.72	
50	0.33	0.80	1.19	1.43	0.12	0.31	0.51	0.68	
60	0.51	0.94	1.16	1.20	0.20	0.41	0.55	0.59	
Lifetime Risk of Being Diagnosed =				1.47%	Lifetime Risk of Being Diagnosed =				0.73%
Lifetime Risk of Dying =				0.41%	Lifetime Risk of Dying =				0.23%

Whites

Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.00	0.00	0.02	1.45	0.00	0.00	0.02	0.74	
10	0.00	0.01	0.05	1.46	0.00	0.01	0.03	0.75	
20	0.01	0.05	0.15	1.47	0.01	0.02	0.07	0.74	
30	0.04	0.15	0.44	1.48	0.01	0.06	0.17	0.74	
40	0.11	0.41	0.85	1.47	0.05	0.16	0.36	0.73	
50	0.31	0.77	1.16	1.41	0.12	0.32	0.52	0.70	
60	0.50	0.92	1.15	1.19	0.21	0.42	0.56	0.60	
Lifetime Risk of Being Diagnosed =				1.45%	Lifetime Risk of Being Diagnosed =				0.74%
Lifetime Risk of Dying =				0.39%	Lifetime Risk of Dying =				0.23%

Blacks

Current Age	Males				Females				
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually	
0	0.00	0.01	0.02	1.56	0.00	0.01	0.01	0.60	
10	0.01	0.02	0.07	1.59	0.00	0.01	0.03	0.61	
20	0.01	0.07	0.27	1.61	0.01	0.02	0.09	0.61	
30	0.06	0.27	0.78	1.65	0.01	0.08	0.24	0.61	
40	0.23	0.77	1.33	1.69	0.07	0.23	0.42	0.61	
50	0.60	1.22	1.54	1.62	0.17	0.37	0.48	0.57	
60	0.75	1.14	1.21	1.23	0.22	0.35	0.40	0.44	
Lifetime Risk of Being Diagnosed =				1.56%	Lifetime Risk of Being Diagnosed =				0.60%
Lifetime Risk of Dying =				0.51%	Lifetime Risk of Dying =				0.19%



Table XIX-9  
ORAL CAVITY AND PHARYNX CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE AND U.S. MORTALITY RATES

By Race/Ethnicity and Sex

Incidence<sup>i</sup>

RACE/ETHNICITY	Rate 1990-1996 Rate per 100,000 persons			Trend 1990-1996 EAPC (%)		
	Total	Males	Females	Total	Males	Females
All Races	10.2	15.3	5.9	-1.9★	-2.1★	-1.5★
White	10.0	14.9	6.0	-2.1★	-2.4★	-1.6★
White Hispanic	6.1	9.6	3.3	0.3	-0.7	1.4
White Non-Hispanic	10.5	15.5	6.3	-2.1★	-2.4★	-1.7★
Black	12.5	20.8	6.0	-0.6	-1.3	1.2
Asian/Pacific Islander <sup>‡</sup>	7.9	11.6	4.8	-1.7	-0.8	-2.8
American Indian	4.1	7.1	1.8	-	-	-
Hispanic <sup>⊙</sup>	5.8	9.1	3.1	-0.1	-0.9	0.7

Mortality<sup>❖</sup>

RACE/ETHNICITY	Rate 1990-1996 Rate per 100,000 persons			Trend 1990-1996 EAPC (%)		
	Total	Males	Females	Total	Males	Females
All Races	2.8	4.3	1.6	-2.6★	-2.8★	-2.5★
White	2.5	3.8	1.5	-2.5★	-2.7★	-2.5★
White Hispanic	1.8	3.1	0.7	-2.0	-1.9	-3.2
White Non-Hispanic	2.6	3.9	1.5	-2.4★	-2.6★	-2.4★
Black	4.9	8.6	2.1	-3.2★	-3.3★	-2.6
Asian/Pacific Islander <sup>‡</sup>	2.4	3.7	1.3	-2.3	-2.7	-0.6
American Indian	1.9	2.9	-	-2.4	-2.9	-
Hispanic <sup>⊙</sup>	1.7	3.0	0.7	-2.5	-2.3	-4.4

- The EAPC is the Estimated Annual Percent Change over the time interval.
- Statistic not shown. Rate based on less than 25 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.
- <sup>i</sup> Incidence data are from the 11 SEER areas (San Francisco, Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, and Los Angeles).
- ⊙ Unless specified, other tables use data from 9 SEER areas (San Francisco, Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, and Atlanta).
- ⊙ Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians. For incidence, all 11 SEER areas are included. For mortality, information is included for all states except Connecticut, Oklahoma, Louisiana, and New Hampshire.
- ❖ Mortality data are analyzed from a public-use file provided by the National Center for Health Statistics (NCHS).
- ‡ Population estimates for the Asian Pacific Islanders rates are adjusted Census Bureau estimates. The population estimates used in Wingo PA, Ries LAG, Rosenberg HM, Miller DS, Edwards BK. Cancer Incidence and mortality, 1973-1996. Cancer 82:1197-207, 1998 were unadjusted.
- ★ The EAPC is significantly different from zero (p<.05).

Table XIX-10  
ORAL CAVITY AND PHARYNX CANCER (Invasive)AGE-ADJUSTED SEER INCIDENCE RATES§ AND SEER MORTALITY RATES\*  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES§, 1992-96</u>									
REGISTRY									
11 registries	10.0	15.0	5.8	9.8	14.6	5.8	12.5	20.7	6.1
9 registries	10.3	15.5	6.0	10.0	14.9	5.9	13.5	22.5	6.5
San Francisco-Oakland	11.6	17.0	6.9	11.9	17.5	7.0	12.1	19.1	6.2
Connecticut	10.1	14.8	6.2	9.5	13.8	6.0	16.6	28.4	7.7
Metropolitan Detroit	11.1	17.2	6.1	10.0	15.1	5.8	14.7	25.2	6.8
Hawaii	10.1	15.6	5.1	16.7	24.8	8.3	-	-	-
Iowa	9.6	15.2	5.0	9.5	15.0	5.0	-	-	-
New Mexico	9.1	13.9	5.1	9.5	14.4	5.3	-	-	-
Seattle-Puget Sound	10.5	15.0	6.6	10.5	14.9	6.7	8.8	15.1	2.6
Utah	8.1	12.0	4.6	8.0	11.8	4.6	-	-	-
Metropolitan Atlanta	10.4	15.7	6.2	9.4	13.6	6.0	13.1	21.9	6.6
San Jose-Monterey	9.5	13.3	6.2	9.6	13.6	6.3	11.2	15.5	8.9
Los Angeles	9.2	13.9	5.3	9.2	13.7	5.5	10.4	17.3	5.0
<u>SEER MORTALITY RATES*, 1992-96</u>									
REGISTRY									
11 registries	2.7	4.0	1.6	2.5	3.6	1.6	4.0	7.0	1.8
9 registries	2.6	3.8	1.5	2.4	3.5	1.5	4.0	7.0	1.7
San Francisco-Oakland	3.1	4.8	1.8	3.1	4.5	1.8	3.6	6.7	1.1
Connecticut	2.7	4.0	1.5	2.5	3.6	1.5	4.6	9.1	1.3
Metropolitan Detroit	3.0	4.4	1.8	2.7	3.8	1.8	4.0	6.9	1.9
Hawaii	3.1	4.8	1.5	4.1	6.2	2.0	-	-	-
Iowa	2.1	3.3	1.1	2.1	3.4	1.1	-	-	-
New Mexico	2.2	3.0	1.6	2.2	3.0	1.6	-	-	-
Seattle-Puget Sound	2.3	3.1	1.6	2.3	3.0	1.6	2.7	3.4	2.1
Utah	1.4	2.0	0.9	1.4	2.0	0.8	-	-	-
Metropolitan Atlanta	2.8	4.5	1.5	2.3	3.6	1.4	4.7	8.7	2.0
San Jose-Monterey	2.5	3.6	1.5	2.3	3.4	1.4	2.5	4.6	1.2
Los Angeles	2.9	4.5	1.7	2.8	4.2	1.7	4.3	7.4	2.0

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.  
 § SEER Program. Incidence rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 \* NCHS public use tape. Mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 - Statistic could not be calculated or populations are inadequate.

Table XIX-11  
ORAL CAVITY AND PHARYNX CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1992-96

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	2.7	0.01		
High Five States				
District of Columbia	6.7⊕*	0.48	(01)	148.1
Delaware	4.0*	0.32	(02)	48.1
South Carolina	3.9⊕*	0.14	(03)	44.4
Louisiana	3.5⊕*	0.13	(04)	29.6
Florida	3.3⊕*	0.06	(05)	22.2
Low Five States				
Minnesota	2.0⊕*	0.09	(47)	-25.9
Wyoming	2.0*	0.29	(48)	-25.9
Colorado	2.0⊕*	0.10	(49)	-25.9
North Dakota	1.8*	0.22	(50)	-33.3
Utah	1.4⊕*	0.13	(51)	-48.1

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	2.8	0.11	(20)	3.7	Montana	2.9	0.24	(16)	7.4
Alaska	2.9	0.43	(15)	7.4	Nebraska	2.1*	0.15	(46)	-22.2
Arizona	2.2⊕*	0.10	(43)	-18.5	Nevada	2.3	0.17	(35)	-14.8
Arkansas	2.6	0.13	(28)	-3.7	New Hampshire	3.3*	0.24	(06)	22.2
California	2.8	0.04	(18)	3.7	New Jersey	2.8	0.08	(19)	3.7
Colorado	2.0⊕*	0.10	(49)	-25.9	New Mexico	2.2*	0.16	(41)	-18.5
Connecticut	2.7	0.12	(25)	0.0	New York	2.7	0.05	(23)	0.0
Delaware	4.0*	0.32	(02)	48.1	North Carolina	3.0	0.09	(11)	11.1
District of Columbia	6.7⊕*	0.48	(01)	148.1	North Dakota	1.8*	0.22	(50)	-33.3
Florida	3.3⊕*	0.06	(05)	22.2	Ohio	2.5	0.06	(30)	-7.4
Georgia	3.1	0.10	(09)	14.8	Oklahoma	2.2*	0.11	(39)	-18.5
Hawaii	3.1	0.22	(10)	14.8	Oregon	2.2*	0.11	(40)	-18.5
Idaho	2.3	0.20	(36)	-14.8	Pennsylvania	2.3⊕	0.06	(38)	-14.8
Illinois	2.8	0.07	(21)	3.7	Rhode Island	2.6	0.21	(27)	-3.7
Indiana	2.1⊕*	0.08	(45)	-22.2	South Carolina	3.9⊕*	0.14	(03)	44.4
Iowa	2.1*	0.11	(44)	-22.2	South Dakota	2.2*	0.23	(42)	-18.5
Kansas	2.3	0.13	(37)	-14.8	Tennessee	2.9	0.10	(13)	7.4
Kentucky	2.8	0.11	(17)	3.7	Texas	2.9	0.06	(14)	7.4
Louisiana	3.5⊕*	0.13	(04)	29.6	Utah	1.4⊕*	0.13	(51)	-48.1
Maine	2.9	0.20	(12)	7.4	Vermont	2.6	0.29	(26)	-3.7
Maryland	3.3⊕*	0.11	(07)	22.2	Virginia	2.7	0.09	(22)	0.0
Massachusetts	2.7	0.09	(24)	0.0	Washington	2.3	0.09	(34)	-14.8
Michigan	2.5	0.07	(29)	-7.4	West Virginia	2.5	0.15	(32)	-7.4
Minnesota	2.0⊕*	0.09	(47)	-25.9	Wisconsin	2.5	0.09	(31)	-7.4
Mississippi	3.2*	0.15	(08)	18.5	Wyoming	2.0*	0.29	(48)	-25.9
Missouri	2.4	0.09	(33)	-11.1					

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 SE Standard error of the rate.  
 PD Percent difference between state rate and total U.S. rate.  
 \* Absolute difference between state rate and total U.S. rate is 15% or more.  
 ⊕ Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table XIX-12  
ORAL CAVITY AND PHARYNX CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1992-96

All Races, Males

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	4.2	0.03							
High Five States									
District of Columbia	11.4⊕*	0.95	(01)	171.4					
Delaware	6.5*	0.62	(02)	54.8					
South Carolina	6.5⊕*	0.28	(03)	54.8					
Louisiana	5.6⊕*	0.24	(04)	33.3					
Mississippi	5.3*	0.29	(05)	26.2					
Low Five States									
Minnesota	2.9⊕*	0.16	(47)	-31.0					
Colorado	2.8⊕*	0.19	(48)	-33.3					
Wyoming	2.7*	0.49	(49)	-35.7					
North Dakota	2.4*	0.37	(50)	-42.9					
Utah	2.0⊕*	0.24	(51)	-52.4					
Alabama	4.5	0.21	(16)	7.1	Montana	3.7	0.40	(33)	-11.9
Alaska	4.2	0.80	(22)	0.0	Nebraska	3.1*	0.27	(44)	-26.2
Arizona	3.2⊕*	0.18	(41)	-23.8	Nevada	3.1*	0.29	(45)	-26.2
Arkansas	4.1	0.25	(24)	-2.4	New Hampshire	4.8	0.43	(10)	14.3
California	4.1	0.08	(23)	-2.4	New Jersey	4.3	0.15	(20)	2.4
Colorado	2.8⊕*	0.19	(48)	-33.3	New Mexico	3.0*	0.28	(46)	-28.6
Connecticut	4.0	0.22	(27)	-4.8	New York	4.2	0.10	(21)	0.0
Delaware	6.5*	0.62	(02)	54.8	North Carolina	4.8	0.17	(11)	14.3
District of Columbia	11.4⊕*	0.95	(01)	171.4	North Dakota	2.4*	0.37	(50)	-42.9
Florida	5.0⊕*	0.11	(07)	19.0	Ohio	3.9	0.12	(29)	-7.1
Georgia	4.9*	0.19	(08)	16.7	Oklahoma	3.4*	0.20	(35)	-19.0
Hawaii	4.8	0.40	(09)	14.3	Oregon	3.2*	0.20	(40)	-23.8
Idaho	3.1*	0.34	(43)	-26.2	Pennsylvania	3.6⊕	0.11	(34)	-14.3
Illinois	4.4	0.13	(17)	4.8	Rhode Island	3.9	0.40	(28)	-7.1
Indiana	3.2⊕*	0.15	(38)	-23.8	South Carolina	6.5⊕*	0.28	(03)	54.8
Iowa	3.3*	0.21	(37)	-21.4	South Dakota	3.1*	0.40	(42)	-26.2
Kansas	3.4*	0.23	(36)	-19.0	Tennessee	4.7	0.19	(12)	11.9
Kentucky	4.5	0.22	(14)	7.1	Texas	4.6	0.11	(13)	9.5
Louisiana	5.6⊕*	0.24	(04)	33.3	Utah	2.0⊕*	0.24	(51)	-52.4
Maine	4.5	0.37	(15)	7.1	Vermont	4.0	0.54	(26)	-4.8
Maryland	5.0*	0.21	(06)	19.0	Virginia	4.4	0.17	(18)	4.8
Massachusetts	4.3	0.17	(19)	2.4	Washington	3.2⊕*	0.16	(39)	-23.8
Michigan	3.8	0.13	(31)	-9.5	West Virginia	4.1	0.28	(25)	-2.4
Minnesota	2.9⊕*	0.16	(47)	-31.0	Wisconsin	3.7	0.17	(32)	-11.9
Mississippi	5.3*	0.29	(05)	26.2	Wyoming	2.7*	0.49	(49)	-35.7
Missouri	3.8	0.17	(30)	-9.5					

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 SE Standard error of the rate.  
 PD Percent difference between state rate and total U.S. rate.  
 \* Absolute difference between state rate and total U.S. rate is 15% or more.  
 ⊕ Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table XIX-13  
ORAL CAVITY AND PHARYNX CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY\* RATES BY STATE, 1992-96

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	1.5	0.01		
High Five States				
District of Columbia	3.0*	0.41	(01)	100.0
Montana	2.2*	0.29	(02)	46.7
New Hampshire	2.0*	0.24	(03)	33.3
Delaware	1.9*	0.29	(04)	26.7
Florida	1.9⊕*	0.06	(05)	26.7
Low Five States				
Colorado	1.2*	0.11	(47)	-20.0
Indiana	1.2*	0.08	(48)	-20.0
West Virginia	1.2*	0.13	(49)	-20.0
Iowa	1.1*	0.11	(50)	-26.7
Utah	0.9*	0.14	(51)	-40.0

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	1.4	0.10	(29)	-6.7	Montana	2.2*	0.29	(02)	46.7
Alaska	1.8*	0.45	(09)	20.0	Nebraska	1.2*	0.16	(46)	-20.0
Arizona	1.3	0.10	(39)	-13.3	Nevada	1.6	0.20	(13)	6.7
Arkansas	1.3	0.13	(40)	-13.3	New Hampshire	2.0*	0.24	(03)	33.3
California	1.7	0.05	(10)	13.3	New Jersey	1.6	0.08	(14)	6.7
Colorado	1.2*	0.11	(47)	-20.0	New Mexico	1.6	0.18	(16)	6.7
Connecticut	1.5	0.12	(17)	0.0	New York	1.5	0.05	(25)	0.0
Delaware	1.9*	0.29	(04)	26.7	North Carolina	1.5	0.08	(24)	0.0
District of Columbia	3.0*	0.41	(01)	100.0	North Dakota	1.3	0.26	(43)	-13.3
Florida	1.9⊕*	0.06	(05)	26.7	Ohio	1.4	0.06	(34)	-6.7
Georgia	1.7	0.09	(11)	13.3	Oklahoma	1.3	0.11	(41)	-13.3
Hawaii	1.5	0.20	(26)	0.0	Oregon	1.4	0.12	(37)	-6.7
Idaho	1.5	0.21	(18)	0.0	Pennsylvania	1.2⊕*	0.05	(45)	-20.0
Illinois	1.4	0.06	(30)	-6.7	Rhode Island	1.5	0.22	(21)	0.0
Indiana	1.2*	0.08	(48)	-20.0	South Carolina	1.9*	0.13	(07)	26.7
Iowa	1.1*	0.11	(50)	-26.7	South Dakota	1.4	0.25	(38)	-6.7
Kansas	1.4	0.13	(32)	-6.7	Tennessee	1.5	0.09	(27)	0.0
Kentucky	1.5	0.11	(20)	0.0	Texas	1.5	0.05	(22)	0.0
Louisiana	1.8*	0.12	(08)	20.0	Utah	0.9*	0.14	(51)	-40.0
Maine	1.7	0.20	(12)	13.3	Vermont	1.4	0.28	(35)	-6.7
Maryland	1.9*	0.11	(06)	26.7	Virginia	1.4	0.09	(31)	-6.7
Massachusetts	1.4	0.08	(36)	-6.7	Washington	1.6	0.10	(15)	6.7
Michigan	1.5	0.07	(23)	0.0	West Virginia	1.2*	0.13	(49)	-20.0
Minnesota	1.3	0.10	(42)	-13.3	Wisconsin	1.4	0.10	(28)	-6.7
Mississippi	1.5	0.13	(19)	0.0	Wyoming	1.4	0.33	(33)	-6.7
Missouri	1.3	0.09	(44)	-13.3					

\* NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 SE Standard error of the rate.  
 PD Percent difference between state rate and total U.S. rate.  
 \* Absolute difference between state rate and total U.S. rate is 15% or more.  
 ⊕ Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

# SEER Incidence and U.S. Mortality Oral Cavity and Pharynx, Male By Race

## White

## Black

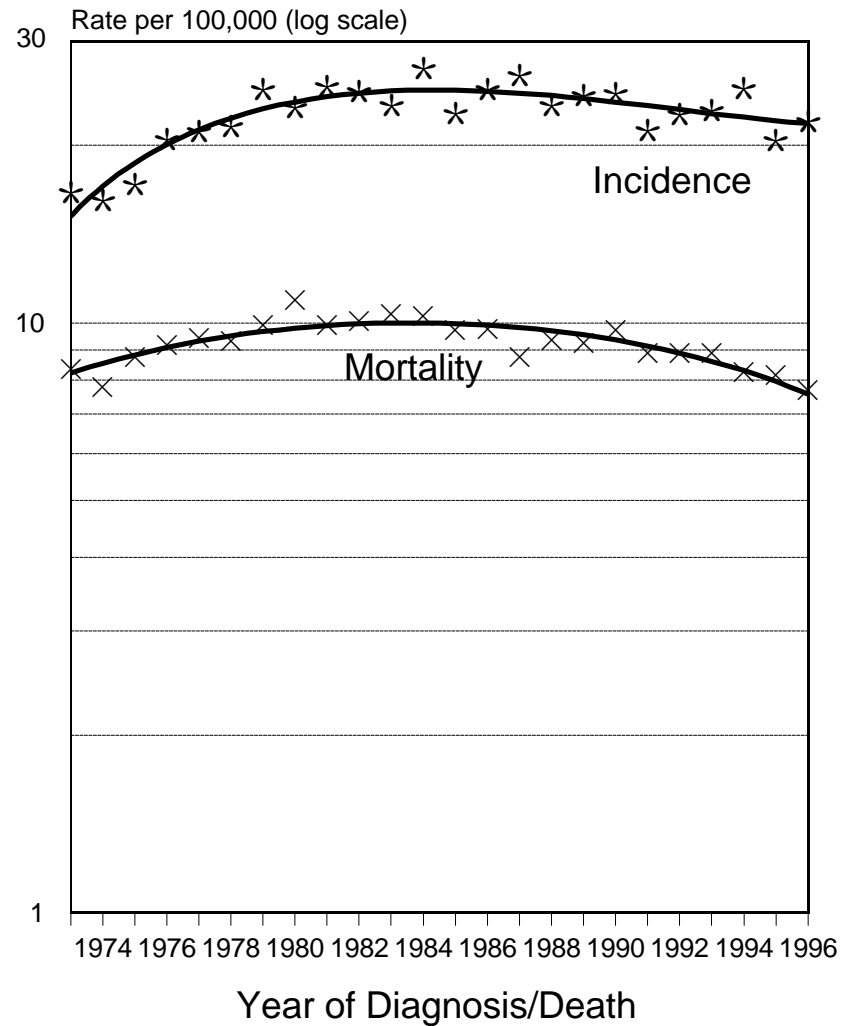
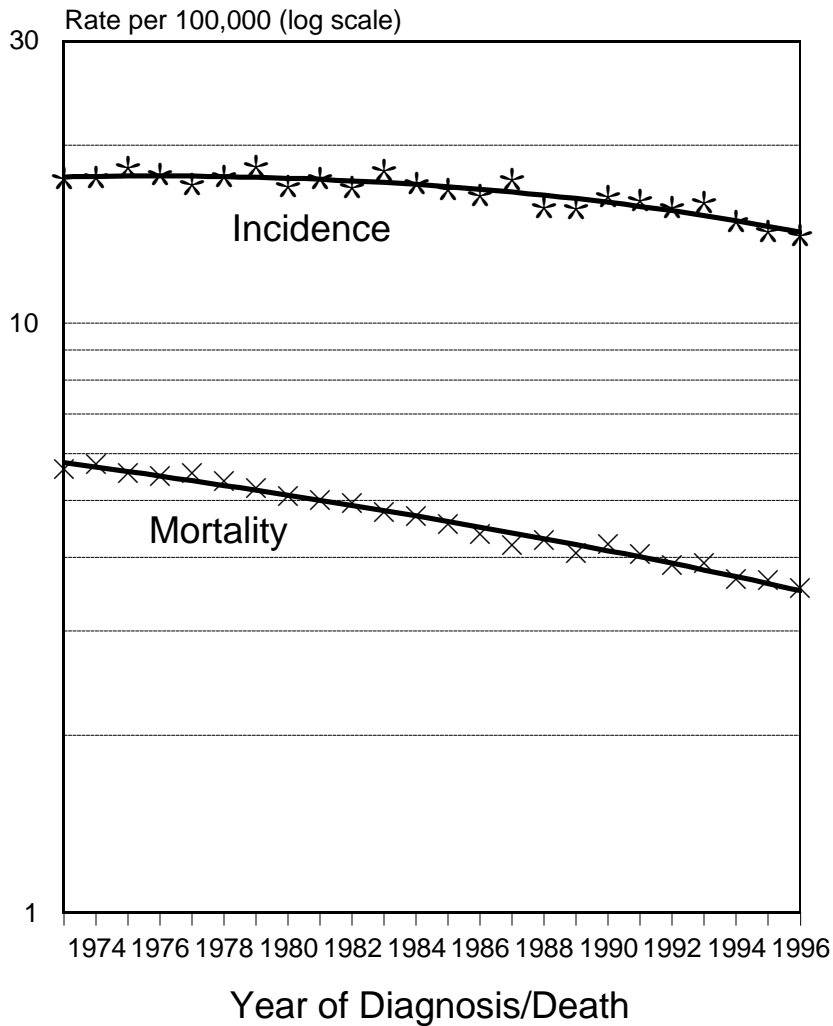


Figure XIX-1

# SEER Incidence and U.S. Mortality Oral Cavity and Pharynx, Female By Race

## White

## Black

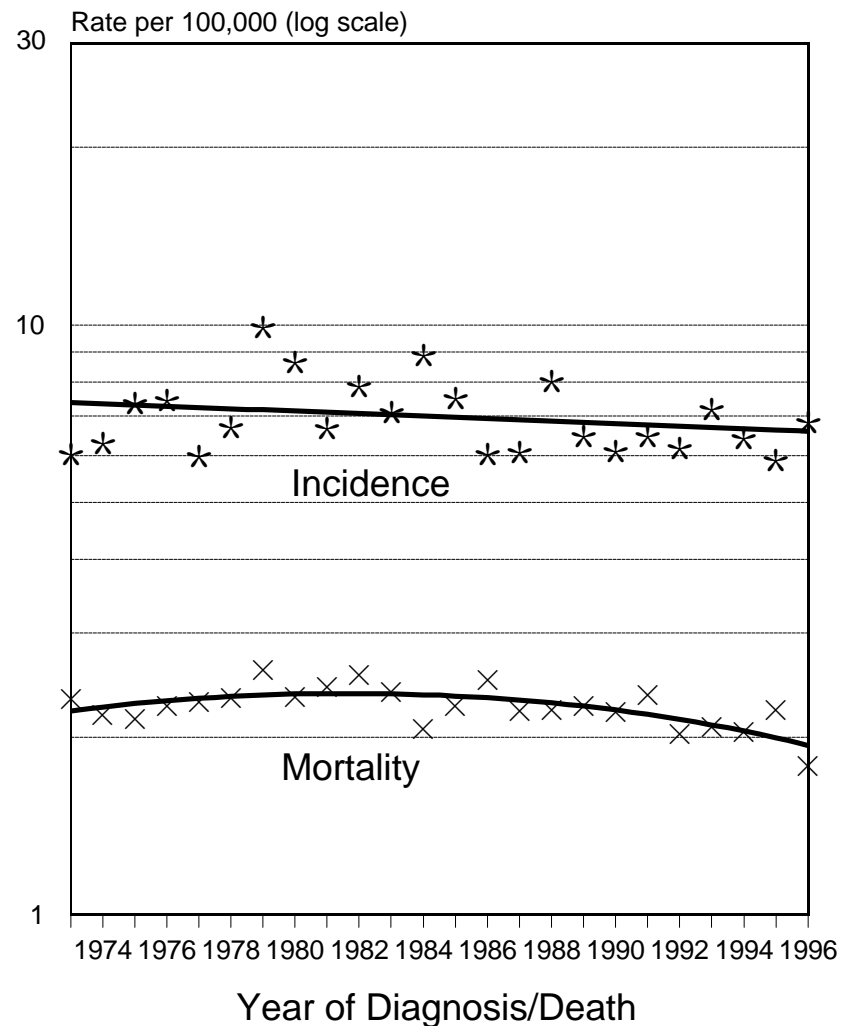
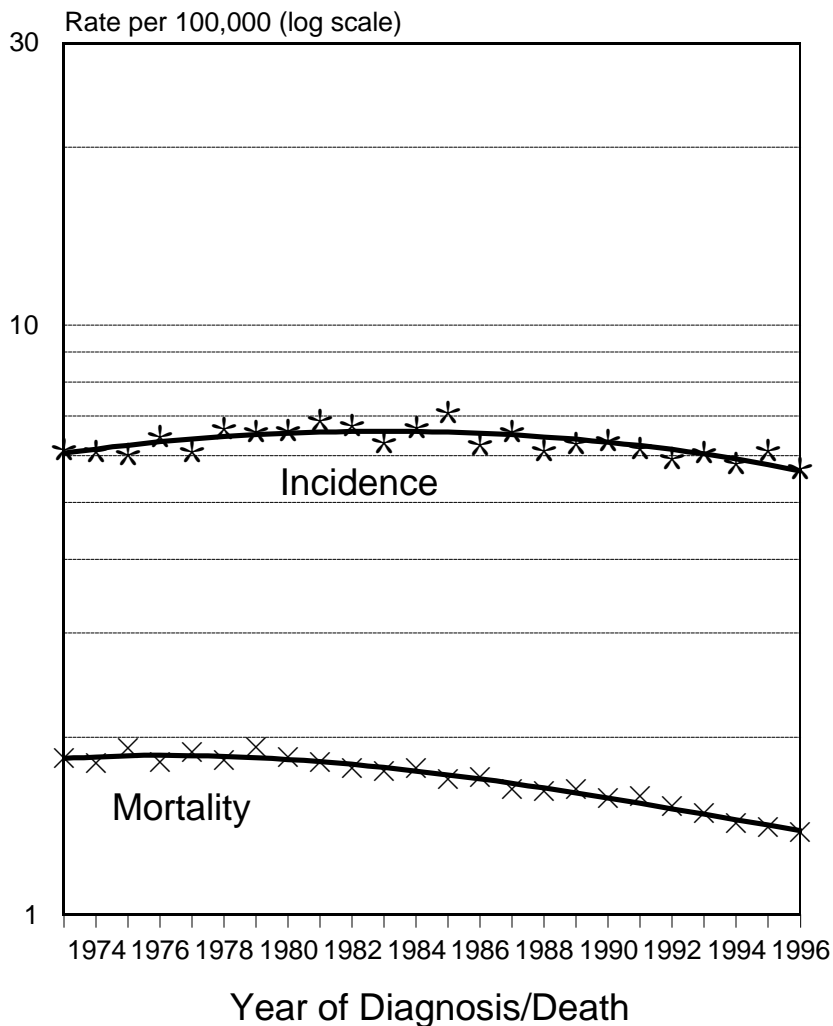


Figure XIX-2