

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>1973-93</u>									
All Ages									
Percent Change (PC)	-5.3	-7.7	-3.0	-7.9	-11.6	-4.2	26.3	38.3	8.9
Est. Annual PC (EAPC)	-0.3★	-0.5★	-0.2	-0.5★	-0.7★	-0.2	0.8★	1.4★	-0.3
Under 65									
Percent Change (PC)	-7.6	-1.2	-21.9	-12.4	-7.8	-24.7	24.4	41.8	-4.3
Est. Annual PC (EAPC)	-0.5★	-0.2	-1.2★	-0.7★	-0.5★	-1.3★	0.7	1.5★	-0.8
65 and over									
Percent Change (PC)	-1.9	-15.1	32.3	-1.8	-15.6	32.3	31.5	30.0	50.5
Est. Annual PC (EAPC)	-0.2	-0.9★	1.3★	-0.2	-1.0★	1.3★	1.1★	1.3★	1.2
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	3.6	1.6	8.0	1.8	-0.5	6.6	18.6	23.3	9.9
Est. Annual PC (EAPC)	1.3	0.7	2.7	0.6	-0.1	2.2	7.0	8.2★	4.4
<u>1989-93 - ALL AGES</u>									
Percent Change (PC)	-2.9	-2.8	-4.6	-3.3	-2.4	-7.0	-3.8	-7.7	6.8
Est. Annual PC (EAPC)	-0.5	-0.5	-1.2◆	-0.7	-0.5	-2.0◆	-0.9◆	-2.2◆	2.3
<u>MORTALITY TRENDS (expressed in percents)δ:</u>									
<u>1973-93</u>									
All Ages									
Percent Change (PC)	-22.6	-26.2	-16.3	-26.7	-31.6	-17.5	2.9	10.3	-8.8
Est. Annual PC (EAPC)	-1.4★	-1.7★	-1.0★	-1.7★	-2.1★	-1.1★	-0.1	0.2	-0.3
Under 65									
Percent Change (PC)	-26.7	-24.5	-34.0	-33.2	-32.3	-37.5	-1.6	7.3	-21.5
Est. Annual PC (EAPC)	-1.8★	-1.6★	-2.3★	-2.2★	-2.1★	-2.6★	-0.4	0.0	-1.2★
65 and over									
Percent Change (PC)	-18.2	-27.8	3.7	-20.4	-31.1	3.4	12.6	16.4	19.1
Est. Annual PC (EAPC)	-1.1★	-1.8★	0.2	-1.3★	-2.1★	0.1	0.6★	0.7★	1.4★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	-1.1	-2.4	1.7	-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>1989-93 - ALL AGES</u>									
Percent Change (PC)	-5.7	-5.6	-6.7	-5.7	-5.9	-6.2	-6.6	-6.3	-8.1
Est. Annual PC (EAPC)	-1.7★◇	-1.5	-2.3★◆	-1.7★	-1.6	-2.2★◇	-1.9◆	-1.7◆	-2.5◆

The Est. Annual PC is the Estimated Annual Percent Change (EAPC) over the time interval.

§ SEER Program.

δ NCHS public use tape.

★ The EAPC is significantly different from zero ( $p < .05$ ).

◆ The EAPC for 1989-93 is significantly different from the EAPC for 1975-79 ( $p < .05$ ).

◇ The EAPC for 1989-93 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>									
YEAR OF DIAGNOSIS:									
1973	11.3	17.6	6.2	11.1	17.5	6.1	11.0	16.8	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	13.3	20.4	7.5
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	13.1	21.5	6.6
1979	12.1	18.7	6.9	11.8	18.3	6.6	16.5	24.9	9.8
1980	11.6	17.4	6.8	11.2	16.9	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	6.5
1982	11.5	17.4	6.8	11.2	16.9	6.7	15.4	24.7	8.0
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	17.1	6.7	17.0	27.1	8.9
1985	11.5	17.1	7.0	11.4	16.8	7.1	14.1	22.6	7.4
1986	11.0	16.8	6.2	10.8	16.4	6.3	14.2	24.8	5.8
1987	11.5	17.8	6.5	11.4	17.3	6.5	14.8	26.1	6.1
1988	10.8	16.1	6.3	10.4	15.5	6.1	14.9	23.5	8.0
1989	10.7	16.2	6.2	10.4	15.5	6.2	14.3	24.4	6.5
1990	11.1	17.0	6.3	10.8	16.3	6.3	14.3	25.0	6.1
1991	10.7	16.3	6.2	10.6	15.9	6.1	13.0	21.3	6.5
1992	10.5	15.9	5.9	10.2	15.4	5.8	13.4	22.6	6.3
1993	10.8	16.3	6.1	10.4	15.6	5.9	14.2	22.9	7.1
<u>AGE-ADJUSTED RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
All ages	10.8	16.3	6.2	10.5	15.8	6.1	13.8	23.2	6.5
Under 65	6.8	10.2	3.6	6.4	9.3	3.5	11.0	18.3	4.9
65 and over	47.0	72.5	29.0	48.0	74.3	29.8	39.6	68.1	20.8
All ages (world std.) <sup>λ</sup>	9.0	13.6	5.1	8.7	13.0	5.0	12.0	19.9	5.7
<u>AGE-SPECIFIC RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
0-4	0.1	0.0	0.2	0.1	0.1	0.1	0.2	0.0	0.3
5-9	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.4	0.2
10-14	0.3	0.3	0.2	0.3	0.3	0.2	0.4	0.5	0.2
15-19	0.5	0.6	0.4	0.5	0.6	0.4	0.6	0.7	0.4
20-24	0.6	0.7	0.5	0.6	0.7	0.5	0.4	0.4	0.3
25-29	1.5	2.0	1.0	1.3	1.9	0.7	1.6	1.4	1.7
30-34	2.7	4.2	1.3	2.5	4.0	1.1	2.9	4.0	2.0
35-39	4.0	5.9	2.2	3.8	5.6	2.0	3.8	5.4	2.5
40-44	7.0	10.5	3.6	6.0	8.8	3.1	13.5	23.1	5.2
45-49	12.7	19.4	6.1	11.6	17.4	5.9	24.1	39.9	10.4
50-54	21.4	32.2	11.1	19.2	28.3	10.2	41.1	68.2	18.0
55-59	31.4	46.5	17.3	29.3	42.4	16.7	56.3	99.6	21.1
60-64	38.5	58.8	20.3	37.9	56.9	20.5	48.0	78.2	24.2
65-69	46.4	69.3	27.4	47.6	71.2	28.0	47.8	73.1	28.7
70-74	49.3	74.4	30.1	50.9	76.6	31.3	39.2	69.7	18.2
75-79	46.3	73.9	27.9	46.7	74.2	28.5	31.9	64.5	12.2
80-84	45.6	71.1	31.6	46.1	72.5	32.1	39.1	79.9	17.5
85+	45.1	79.6	31.8	45.7	83.5	31.7	23.6	31.3	20.3

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

λ 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<sup>δ</sup>, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
YEAR OF DEATH:									
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
<u>AGE-ADJUSTED RATES, 1989-93</u>									
AGE AT DEATH:									
All ages	2.9	4.5	1.6	2.7	4.0	1.6	5.1	9.1	2.2
Under 65	1.6	2.5	0.8	1.3	2.1	0.7	3.7	6.6	1.5
65 and over	14.8	22.8	9.4	14.6	22.1	9.6	18.0	32.2	8.7
All ages (world std.) <sup>φ</sup>	2.3	3.6	1.3	2.1	3.2	1.2	4.4	7.8	1.8
<u>AGE-SPECIFIC RATES, 1989-93</u>									
AGE AT DEATH:									
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	0.1
20-24	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.2	0.1
25-29	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1
30-34	0.2	0.2	0.1	0.1	0.2	0.1	0.3	0.3	0.2
35-39	0.5	0.7	0.3	0.3	0.5	0.2	1.4	2.3	0.6
40-44	1.2	1.8	0.5	0.8	1.2	0.4	3.6	6.3	1.3
45-49	2.7	4.3	1.1	2.0	3.2	0.9	8.2	14.6	2.9
50-54	5.0	7.8	2.3	4.0	6.1	2.0	13.5	23.8	5.1
55-59	8.2	12.9	3.9	7.0	10.8	3.5	18.6	33.6	6.8
60-64	11.3	17.5	5.8	10.3	15.8	5.4	21.0	36.6	9.2
65-69	12.7	19.6	7.1	12.0	18.1	7.0	20.4	36.2	8.9
70-74	14.4	22.0	8.8	14.2	21.3	8.9	18.1	32.3	8.7
75-79	15.6	23.6	10.3	15.6	23.3	10.6	16.3	29.9	8.3
80-84	17.0	26.6	11.8	17.1	26.3	12.1	15.2	30.0	7.6
85+	21.2	32.4	16.9	21.8	33.5	17.3	14.4	23.2	10.8

<sup>δ</sup> NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, except where noted.

<sup>φ</sup> 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>									
YEAR OF DIAGNOSIS:									
1960-63 <sup>a</sup>	-	-	-	45	-	-	-	-	-
1970-73 <sup>a</sup>	-	-	-	43	-	-	-	-	-
1974-76 <sup>b</sup>	53.2	52.2	55.6	54.9	54.4	56.0	36.4	31.1	46.5
1977-79 <sup>b</sup>	52.6	51.3	55.3	54.4	53.6	56.1	36.6	31.2	48.3
1980-82 <sup>b</sup>	52.6	50.8	56.2	55.3	54.1	57.6	30.5	26.0	41.9
1983-85 <sup>b</sup>	53.3	51.9	56.3	55.6	54.9	57.2	35.0	30.0	46.8
1986-92 <sup>b</sup>	52.8	49.1 $\Omega$	60.8 $\Omega$	55.2	52.0	62.0 $\Omega$	33.4	28.4	47.1
1986-92 <sup>b</sup>									
ALL STAGES	52.8	49.1	60.8	55.2	52.0	62.0	33.4	28.4	47.1
LOCALIZED	81.2	79.5	84.4	82.1	80.8	84.7	68.1	60.7 $\uparrow$	80.2 $\uparrow$
REGIONAL	42.0	39.4	47.9	43.7	41.3	48.5	30.8	27.8	39.6
DISTANT	18.1	16.2	23.3	19.8	17.3	26.2	10.3	10.7	8.4
UNSTAGED	33.9	28.1	49.9	34.1	28.4	50.1	24.1	16.6	42.8 $\uparrow$
<u>STAGE DISTRIBUTION (%) 1986-92<sup>b</sup></u>									
ALL STAGES									
Number of cases	15,283	10,545	4,738	12,841	8,792	4,049	1,648	1,224	424
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	36	34	40	39	37	42	19	16	27
REGIONAL	43	44	42	41	42	41	53	53	51
DISTANT	9	10	8	8	8	7	17	19	11
UNSTAGED	12	13	10	12	13	10	11	11	12
<u>5-YR RELATIVE SURVIVAL RATES, 1986-92<sup>b</sup></u>									
AGE AT DIAGNOSIS:									
<45	55.8	46.8	79.8	58.5	48.9	85.5	36.8	28.3	56.3 $\uparrow$
45-54	53.7	48.9	67.8	57.4	53.0	70.1	35.5	28.8	55.7 $\uparrow$
55-64	51.5	48.3	59.1	54.1	51.3	60.7	33.4	30.2	43.6 $\uparrow$
65-74	50.9	49.2	54.0	52.6	51.5	54.8	29.6	26.1	36.9 $\uparrow$
75+	55.9	55.9	55.8	58.3	59.1	57.5	19.8 $\uparrow$	22.6 $\uparrow$	14.3 $\uparrow$
Under 65	53.0	48.0	66.0	55.9	51.1	68.1	35.0	29.1	52.0
65 and over	52.4	51.1	54.6	54.4	53.6	55.8	27.2	25.2	31.7 $\uparrow$

<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 1993.

$\Omega$  The difference in rates between 1974-76 and 1986-92 is statistically significant ( $p < .05$ ).

$\uparrow$  The standard error of the survival rate is between 5 and 10 percentage points.

$\uparrow\uparrow$  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																				
	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Incidence																					
SEER	11.3	11.1	11.4	11.5	11.1	11.6	12.1	11.6	11.8	11.5	11.6	11.8	11.5	11.0	11.5	10.8	10.7	11.1	10.7	10.5	10.8
Mortality																					
U.S.	3.6	3.6	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	3.0	2.9	2.8	2.8
SEER	3.7	3.9	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
Relative Survival Rates (SEER)																					
1-year	78.5	80.0	79.2	80.1	80.4	80.0	80.6	79.3	80.4	79.8	79.0	80.9	81.6	79.9	80.6	81.9	79.1	81.0	80.7	79.2	
2-year	63.7	67.3	65.7	67.3	65.5	66.5	65.2	67.0	66.4	65.8	65.2	66.3	68.4	66.5	67.6	66.7	66.4	68.3	67.0		
3-year	57.7	60.8	59.9	61.0	57.9	60.6	59.0	60.3	59.5	58.6	60.1	59.6	61.2	60.7	61.2	58.9	59.4	61.0			
4-year	53.0	55.9	55.7	57.1	53.9	56.8	55.1	56.6	56.0	54.0	55.8	56.1	57.5	57.2	57.8	53.9	54.7				
5-year	50.3	53.1	52.7	53.8	51.3	53.9	52.4	53.8	53.3	50.6	52.5	53.0	54.4	54.2	54.5	50.7					
6-year	47.6	51.3	50.5	51.6	48.7	51.8	49.8	51.1	51.2	47.9	50.1	49.9	52.5	51.6	52.0						
7-year	45.7	48.4	49.1	49.3	47.2	48.8	47.5	48.9	48.6	45.6	48.6	47.7	49.9	49.4							
8-year	43.8	45.9	47.7	47.8	44.6	46.9	44.5	47.7	47.3	44.1	46.8	46.4	48.4								
9-year	41.9	44.1	46.0	46.3	42.4	45.3	42.8	45.7	46.0	42.5	45.1	44.4									
10-year	40.6	41.5	44.4	45.0	40.4	42.3	41.0	44.2	44.4	40.8	43.4										
11-year	39.3	39.9	42.2	43.5	39.2	39.9	39.6	43.1	43.2	39.7											
12-year	38.4	38.0	40.7	42.6	37.4	39.0	38.3	42.3	42.3												
13-year	37.8	37.8	39.2	41.6	35.5	39.0	37.3	40.0													
14-year	36.4	36.3	38.7	40.3	34.3	38.5	36.4														
15-year	35.4	35.0	37.7	38.6	33.7	36.3															
16-year	34.1	34.7	36.7	37.4	32.3																
17-year	33.2	34.3	35.5	36.7																	
18-year	31.7	33.4	33.7																		
19-year	31.7	32.5																			
20-year	31.0																				

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

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Incidence																					
SEER	17.6	17.4	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	16.1	16.2	17.0	16.3	15.9	16.3
Mortality																					
U.S.	5.9	5.9	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
SEER	5.9	6.1	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
Relative Survival Rates (SEER)																					
1-year	78.1	79.3	78.2	79.4	80.9	78.4	80.4	78.2	79.8	79.1	78.4	81.3	82.0	78.3	79.9	80.9	77.6	79.8	79.9	78.1	
2-year	63.1	67.1	64.7	65.9	64.7	64.8	65.4	65.4	65.0	65.5	64.6	65.6	68.2	63.6	66.1	65.1	64.0	65.6	65.3		
3-year	56.8	60.6	59.6	59.3	57.5	58.8	58.8	58.2	57.3	58.3	59.2	58.0	60.2	56.6	59.2	56.8	56.3	58.3			
4-year	52.5	56.0	54.6	55.2	53.3	53.9	54.6	54.7	53.6	53.2	55.2	54.5	56.9	52.7	55.5	51.1	50.7				
5-year	50.3	53.5	51.4	51.8	50.8	51.0	52.0	52.1	50.5	49.8	51.6	50.8	53.2	49.2	51.9	47.5					
6-year	47.6	51.8	49.9	49.8	47.9	48.8	49.2	49.2	48.7	47.2	49.5	47.5	51.4	46.9	49.2						
7-year	45.4	49.1	48.9	47.4	46.1	45.5	46.9	47.2	46.3	44.8	48.0	44.9	48.9	45.0							
8-year	43.8	46.8	47.8	45.6	43.9	44.1	43.7	45.8	45.4	42.7	46.2	43.6	47.9								
9-year	42.0	44.9	45.9	43.8	41.4	42.8	41.9	43.8	44.3	41.4	44.5	41.8									
10-year	40.6	42.6	43.9	42.3	39.1	40.3	39.9	42.0	42.8	39.8	42.2										
11-year	38.6	41.6	41.5	40.8	38.2	38.1	38.5	40.6	41.7	38.5											
12-year	37.8	39.5	40.2	40.1	36.7	37.3	37.1	40.2	40.9												
13-year	37.4	39.3	38.6	39.7	34.9	37.1	36.4	38.8													
14-year	35.7	37.3	38.2	38.1	33.9	37.1	35.5														
15-year	34.9	35.6	37.5	36.7	33.9	35.4															
16-year	33.3	35.2	36.4	35.4	32.3																
17-year	32.2	35.2	35.0	34.8																	
18-year	30.0	35.1	34.0																		
19-year	30.0	34.8																			
20-year	29.5																				

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

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Incidence																					
SEER	6.2	6.1	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	6.2	6.3	6.2	5.9	6.1
Mortality																					
U.S.	1.9	1.9	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
SEER	2.0	2.2	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	1.7	1.6
Relative Survival Rates (SEER)																					
1-year	79.4	81.8	81.9	81.7	79.4	83.6	80.9	81.7	81.6	81.2	80.3	80.3	80.9	83.5	82.3	84.1	82.1	83.8	82.6	81.8	
2-year	65.1	67.7	68.0	70.5	67.4	70.2	64.8	70.3	69.4	66.5	66.7	67.7	68.8	73.0	71.1	70.1	71.5	74.4	70.5		
3-year	59.9	61.5	60.7	64.8	58.7	64.4	59.4	64.3	64.2	59.4	62.2	63.0	63.1	69.7	65.6	63.4	66.0	67.1			
4-year	54.1	55.8	58.5	61.0	55.3	63.0	56.2	60.4	61.0	55.6	57.2	59.5	58.5	67.0	63.0	59.7	62.9				
5-year	50.4	52.3	55.7	58.2	52.4	60.0	53.2	57.0	59.2	52.2	54.7	57.6	56.6	65.0	60.3	57.3					
6-year	47.6	50.1	51.8	55.5	50.3	58.1	50.9	54.9	56.3	49.5	51.6	54.8	54.8	61.8	58.1						
7-year	46.3	47.0	49.8	53.4	49.5	55.7	48.8	52.4	53.2	47.3	49.9	53.2	51.8	58.9							
8-year	43.7	44.1	47.6	52.4	46.2	52.3	46.2	51.4	50.9	47.0	48.1	51.8	49.4								
9-year	41.8	42.5	46.4	51.4	44.6	50.0	44.6	49.1	49.4	44.7	46.4	49.4									
10-year	40.6	39.2	45.4	50.5	42.9	46.2	43.1	48.3	47.7	42.8	46.0										
11-year	40.6	36.3	43.8	48.8	41.1	43.5	41.9	47.6	46.3	41.8											
12-year	39.7	35.0	41.8	47.3	38.6	42.4	40.8	45.9	44.9												
13-year	38.6	34.8	40.4	45.2	36.7	42.4	39.1	42.1													
14-year	38.0	34.6	39.8	44.4	35.2	40.8	38.2														
15-year	36.4	34.0	38.0	42.1	33.4	38.0															
16-year	35.7	33.7	37.2	41.0	32.4																
17-year	34.9	32.3	36.3	40.0																	
18-year	34.8	30.4	33.0																		
19-year	34.8	28.6																			
20-year	33.6																				

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, 1991-93

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	1.55	0.00	0.00	0.01	0.75
10	0.01	0.02	0.06	1.57	0.00	0.01	0.03	0.76
20	0.01	0.06	0.20	1.57	0.01	0.03	0.07	0.76
30	0.05	0.19	0.52	1.59	0.02	0.06	0.18	0.76
40	0.14	0.49	0.96	1.58	0.04	0.17	0.36	0.74
50	0.36	0.86	1.26	1.50	0.13	0.32	0.52	0.71
60	0.54	0.98	1.19	1.24	0.21	0.42	0.57	0.62

Lifetime Risk of Being Diagnosed = 1.55%  
 Lifetime Risk of Dying = 0.45%

Lifetime Risk of Being Diagnosed = 0.75%  
 Lifetime Risk of Dying = 0.24%

Whites

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	1.54	0.00	0.01	0.01	0.75
10	0.01	0.02	0.06	1.56	0.00	0.01	0.03	0.76
20	0.01	0.06	0.18	1.56	0.01	0.02	0.06	0.76
30	0.04	0.17	0.48	1.57	0.02	0.06	0.17	0.75
40	0.13	0.44	0.93	1.56	0.04	0.15	0.35	0.74
50	0.33	0.83	1.25	1.49	0.12	0.32	0.52	0.71
60	0.54	1.00	1.21	1.26	0.21	0.43	0.58	0.63

Lifetime Risk of Being Diagnosed = 1.54%  
 Lifetime Risk of Dying = 0.42%

Lifetime Risk of Being Diagnosed = 0.75%  
 Lifetime Risk of Dying = 0.25%

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	1.54	0.00	0.00	0.01	0.63
10	0.01	0.02	0.06	1.58	0.00	0.01	0.03	0.65
20	0.01	0.05	0.29	1.60	0.01	0.03	0.10	0.65
30	0.04	0.29	0.90	1.65	0.02	0.09	0.27	0.64
40	0.27	0.91	1.35	1.71	0.08	0.26	0.45	0.64
50	0.72	1.20	1.47	1.60	0.19	0.39	0.49	0.59
60	0.58	0.91	1.03	1.06	0.23	0.33	0.40	0.44

Lifetime Risk of Being Diagnosed = 1.54%  
 Lifetime Risk of Dying = 0.57%

Lifetime Risk of Being Diagnosed = 0.63%  
 Lifetime Risk of Dying = 0.17%



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

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY<sup>δ</sup> RATES BY STATE, 1989-93

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	2.9	0.01		
High Five States				
District of Columbia	7.3 <sup>⊕</sup> *	0.49	(01)	151.7
Delaware	4.5*	0.35	(02)	55.2
South Carolina	3.9 <sup>⊕</sup> *	0.15	(03)	34.5
Louisiana	3.6 <sup>⊕</sup> *	0.13	(04)	24.1
Florida	3.5 <sup>⊕</sup> *	0.07	(05)	20.7
Low Five States				
Colorado	2.2 <sup>⊕</sup> *	0.11	(47)	-24.1
South Dakota	2.1*	0.23	(48)	-27.6
North Dakota	2.0*	0.23	(49)	-31.0
Wyoming	1.7*	0.28	(50)	-41.4
Utah	1.4 <sup>⊕</sup> *	0.14	(51)	-51.7

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	2.8	0.11	(26)	-3.4	Montana	2.6	0.24	(35)	-10.3
Alaska	3.5*	0.51	(06)	20.7	Nebraska	2.2*	0.16	(46)	-24.1
Arizona	2.3 <sup>⊕</sup> *	0.11	(42)	-20.7	Nevada	2.7	0.20	(27)	-6.9
Arkansas	2.4*	0.13	(38)	-17.2	New Hampshire	3.3	0.24	(11)	13.8
California	3.0	0.05	(19)	3.4	New Jersey	3.1	0.08	(14)	6.9
Colorado	2.2 <sup>⊕</sup> *	0.11	(47)	-24.1	New Mexico	2.6	0.18	(32)	-10.3
Connecticut	3.1	0.13	(16)	6.9	New York	3.0	0.05	(20)	3.4
Delaware	4.5*	0.35	(02)	55.2	North Carolina	3.2	0.09	(12)	10.3
District of Columbia	7.3 <sup>⊕</sup> *	0.49	(01)	151.7	North Dakota	2.0*	0.23	(49)	-31.0
Florida	3.5 <sup>⊕</sup> *	0.07	(05)	20.7	Ohio	2.7	0.07	(29)	-6.9
Georgia	3.3	0.10	(10)	13.8	Oklahoma	2.3 <sup>⊕</sup> *	0.11	(45)	-20.7
Hawaii	3.2	0.23	(13)	10.3	Oregon	2.6	0.13	(34)	-10.3
Idaho	2.3*	0.21	(41)	-20.7	Pennsylvania	2.6	0.06	(33)	-10.3
Illinois	3.1	0.07	(15)	6.9	Rhode Island	2.9	0.22	(23)	0.0
Indiana	2.3 <sup>⊕</sup> *	0.09	(43)	-20.7	South Carolina	3.9 <sup>⊕</sup> *	0.15	(03)	34.5
Iowa	2.3*	0.12	(40)	-20.7	South Dakota	2.1*	0.23	(48)	-27.6
Kansas	2.5	0.14	(37)	-13.8	Tennessee	2.8	0.10	(25)	-3.4
Kentucky	2.9	0.12	(22)	0.0	Texas	3.0	0.06	(17)	3.4
Louisiana	3.6 <sup>⊕</sup> *	0.13	(04)	24.1	Utah	1.4 <sup>⊕</sup> *	0.14	(51)	-51.7
Maine	3.5*	0.22	(07)	20.7	Vermont	2.4*	0.28	(39)	-17.2
Maryland	3.4*	0.12	(08)	17.2	Virginia	2.9	0.10	(21)	0.0
Massachusetts	3.0	0.10	(18)	3.4	Washington	2.7	0.10	(30)	-6.9
Michigan	2.7	0.07	(28)	-6.9	West Virginia	2.8	0.16	(24)	-3.4
Minnesota	2.3 <sup>⊕</sup> *	0.10	(44)	-20.7	Wisconsin	2.7	0.10	(31)	-6.9
Mississippi	3.3	0.16	(09)	13.8	Wyoming	1.7*	0.28	(50)	-41.4
Missouri	2.5	0.09	(36)	-13.8					

<sup>δ</sup> 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.

<sup>⊕</sup> Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table XIX-10  
ORAL CAVITY AND PHARYNX CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY $\delta$  RATES BY STATE, 1989-93

All Races, Males

State	Rate	SE	Rank	PD
TOTAL U.S.	4.5	0.03		
High Five States				
District of Columbia	13.1 $\oplus$ *	1.00	(01)	191.1
Delaware	7.5*	0.69	(02)	66.7
South Carolina	6.7 $\oplus$ *	0.29	(03)	48.9
Louisiana	6.1 $\oplus$ *	0.26	(04)	35.6
Mississippi	5.7*	0.31	(05)	26.7
Low Five States				
North Dakota	3.1*	0.43	(47)	-31.1
Idaho	3.1*	0.35	(48)	-31.1
Colorado	3.0 $\oplus$ *	0.21	(49)	-33.3
Wyoming	2.4*	0.48	(50)	-46.7
Utah	2.1 $\oplus$ *	0.25	(51)	-53.3

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	4.5	0.21	(23)	0.0	Montana	3.5*	0.41	(41)	-22.2
Alaska	5.1	0.94	(10)	13.3	Nebraska	3.3*	0.29	(44)	-26.7
Arizona	3.3 $\oplus$ *	0.19	(45)	-26.7	Nevada	3.6*	0.35	(39)	-20.0
Arkansas	3.8*	0.24	(33)	-15.6	New Hampshire	4.9	0.44	(12)	8.9
California	4.3	0.08	(25)	-4.4	New Jersey	4.7	0.16	(18)	4.4
Colorado	3.0 $\oplus$ *	0.21	(49)	-33.3	New Mexico	3.6*	0.32	(36)	-20.0
Connecticut	4.8	0.24	(17)	6.7	New York	4.6	0.10	(21)	2.2
Delaware	7.5*	0.69	(02)	66.7	North Carolina	4.9	0.18	(14)	8.9
District of Columbia	13.1 $\oplus$ *	1.00	(01)	191.1	North Dakota	3.1*	0.43	(47)	-31.1
Florida	5.4 $\oplus$ *	0.12	(06)	20.0	Ohio	4.2	0.13	(27)	-6.7
Georgia	5.2*	0.20	(08)	15.6	Oklahoma	3.6*	0.21	(38)	-20.0
Hawaii	4.4	0.40	(24)	-2.2	Oregon	3.6*	0.22	(37)	-20.0
Idaho	3.1*	0.35	(48)	-31.1	Pennsylvania	4.2	0.11	(29)	-6.7
Illinois	4.8	0.13	(16)	6.7	Rhode Island	4.9	0.45	(13)	8.9
Indiana	3.5 $\oplus$ *	0.16	(40)	-22.2	South Carolina	6.7 $\oplus$ *	0.29	(03)	48.9
Iowa	3.7*	0.22	(35)	-17.8	South Dakota	3.5*	0.43	(42)	-22.2
Kansas	3.7*	0.25	(34)	-17.8	Tennessee	4.6	0.20	(20)	2.2
Kentucky	4.7	0.23	(19)	4.4	Texas	4.9	0.12	(11)	8.9
Louisiana	6.1 $\oplus$ *	0.26	(04)	35.6	Utah	2.1 $\oplus$ *	0.25	(51)	-53.3
Maine	5.2*	0.41	(09)	15.6	Vermont	3.4*	0.50	(43)	-24.4
Maryland	5.3*	0.22	(07)	17.8	Virginia	4.6	0.18	(22)	2.2
Massachusetts	4.9	0.18	(15)	8.9	Washington	3.8*	0.18	(32)	-15.6
Michigan	4.1	0.14	(31)	-8.9	West Virginia	4.2	0.29	(26)	-6.7
Minnesota	3.2 $\oplus$ *	0.17	(46)	-28.9	Wisconsin	4.2	0.18	(30)	-6.7
Mississippi	5.7*	0.31	(05)	26.7	Wyoming	2.4*	0.48	(50)	-46.7
Missouri	4.2	0.18	(28)	-6.7					

$\delta$  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.

$\oplus$  Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).

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

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY<sup>δ</sup> RATES BY STATE, 1989-93

All Races, Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	1.6	0.01							
High Five States									
District of Columbia	2.9 <sup>*</sup>	0.40	(01)	81.3					
Maine	2.1 <sup>*</sup>	0.23	(02)	31.3					
Delaware	2.1 <sup>*</sup>	0.32	(03)	31.3					
Alaska	2.0 <sup>*</sup>	0.55	(04)	25.0					
Maryland	2.0 <sup>*</sup>	0.12	(05)	25.0					
Low Five States									
Oklahoma	1.2 <sup>*</sup>	0.10	(47)	-25.0					
Wyoming	1.1 <sup>*</sup>	0.29	(48)	-31.3					
North Dakota	1.1 <sup>*</sup>	0.22	(49)	-31.3					
South Dakota	0.9 <sup>*</sup>	0.20	(50)	-43.8					
Utah	0.8 <sup>⊕*</sup>	0.14	(51)	-50.0					
Alabama	1.5	0.10	(34)	-6.3	Montana	1.8	0.26	(14)	12.5
Alaska	2.0 <sup>*</sup>	0.55	(04)	25.0	Nebraska	1.4	0.17	(41)	-12.5
Arizona	1.5	0.11	(35)	-6.3	Nevada	2.0 <sup>*</sup>	0.24	(06)	25.0
Arkansas	1.3 <sup>*</sup>	0.13	(42)	-18.8	New Hampshire	1.9 <sup>*</sup>	0.24	(09)	18.8
California	1.9 <sup>*</sup>	0.05	(10)	18.8	New Jersey	1.9 <sup>*</sup>	0.08	(11)	18.8
Colorado	1.4	0.12	(37)	-12.5	New Mexico	1.8	0.21	(13)	12.5
Connecticut	1.6	0.12	(24)	0.0	New York	1.7	0.05	(21)	6.3
Delaware	2.1 <sup>*</sup>	0.32	(03)	31.3	North Carolina	1.8	0.09	(15)	12.5
District of Columbia	2.9 <sup>*</sup>	0.40	(01)	81.3	North Dakota	1.1 <sup>*</sup>	0.22	(49)	-31.3
Florida	2.0 <sup>*</sup>	0.06	(07)	25.0	Ohio	1.5	0.07	(29)	-6.3
Georgia	1.8	0.10	(12)	12.5	Oklahoma	1.2 <sup>*</sup>	0.10	(47)	-25.0
Hawaii	2.0 <sup>*</sup>	0.25	(08)	25.0	Oregon	1.7	0.14	(17)	6.3
Idaho	1.6	0.24	(23)	0.0	Pennsylvania	1.4	0.06	(38)	-12.5
Illinois	1.7	0.07	(22)	6.3	Rhode Island	1.2 <sup>*</sup>	0.19	(45)	-25.0
Indiana	1.3 <sup>*</sup>	0.09	(43)	-18.8	South Carolina	1.7	0.13	(20)	6.3
Iowa	1.2 <sup>*</sup>	0.11	(46)	-25.0	South Dakota	0.9 <sup>*</sup>	0.20	(50)	-43.8
Kansas	1.5	0.14	(31)	-6.3	Tennessee	1.4	0.09	(40)	-12.5
Kentucky	1.4	0.11	(36)	-12.5	Texas	1.6	0.06	(27)	0.0
Louisiana	1.7	0.12	(16)	6.3	Utah	0.8 <sup>⊕*</sup>	0.14	(51)	-50.0
Maine	2.1 <sup>*</sup>	0.23	(02)	31.3	Vermont	1.5	0.29	(30)	-6.3
Maryland	2.0 <sup>*</sup>	0.12	(05)	25.0	Virginia	1.6	0.09	(26)	0.0
Massachusetts	1.6	0.09	(25)	0.0	Washington	1.7	0.11	(19)	6.3
Michigan	1.5	0.07	(28)	-6.3	West Virginia	1.7	0.17	(18)	6.3
Minnesota	1.5	0.11	(32)	-6.3	Wisconsin	1.5	0.10	(33)	-6.3
Mississippi	1.4	0.13	(39)	-12.5	Wyoming	1.1 <sup>*</sup>	0.29	(48)	-31.3
Missouri	1.3 <sup>*</sup>	0.09	(44)	-18.8					

<sup>δ</sup> 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.

<sup>\*</sup> Absolute difference between state rate and total U.S. rate is 15% or more.

<sup>⊕</sup> Difference between state rate and total U.S. rate is statistically significant (p<=.0002).

Table XIX-12  
ORAL CAVITY AND PHARYNX CANCER (Invasive)AGE-ADJUSTED SEER INCIDENCE RATES<sup>§</sup>, SEER MORTALITY RATES<sup>δ</sup>, AND 5-YEAR RELATIVE SURVIVAL RATES<sup>⊙</sup>  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES<sup>§</sup>, 1989-93</u>									
REGISTRY									
Standard 9 registries	10.8	16.3	6.2	10.5	15.8	6.1	13.8	23.2	6.5
San Francisco-Oakland	12.6	18.8	7.3	13.0	19.2	7.6	13.6	22.6	6.5
Connecticut	10.6	15.7	6.3	10.1	14.9	6.2	15.9	27.1	7.4
Metropolitan Detroit	11.5	17.8	6.3	10.5	16.0	6.1	14.6	24.9	6.8
Hawaii	10.2	14.9	5.9	15.8	22.8	8.4	-	-	-
Iowa	9.9	15.9	5.0	9.7	15.7	4.9	-	-	-
New Mexico	8.9	14.6	4.1	9.3	15.3	4.2	-	-	-
Seattle-Puget Sound	10.6	14.9	7.1	10.3	14.4	7.0	9.0	15.3	2.6
Utah	8.2	12.9	4.3	8.2	12.8	4.3	-	-	-
Metropolitan Atlanta	11.2	17.0	6.6	10.2	15.0	6.5	13.5	22.6	6.7
San Jose-Monterey	9.4	13.3	6.1	9.3	13.3	6.0	13.4	18.5	8.5
Los Angeles	9.7	14.3	5.9	9.7	14.0	6.1	10.5	17.8	4.7
<u>SEER MORTALITY RATES<sup>δ</sup>, 1989-93</u>									
REGISTRY									
Standard 9 registries	2.9	4.4	1.7	2.7	4.0	1.7	4.7	8.3	1.9
San Francisco-Oakland	3.4	5.2	2.0	3.3	4.7	2.1	4.9	9.3	1.5
Connecticut	3.1	4.8	1.6	2.9	4.4	1.6	5.2	10.4	1.1
Metropolitan Detroit	3.2	4.8	1.8	2.9	4.2	1.8	4.3	7.4	2.0
Hawaii	3.2	4.4	2.0	4.9	6.5	3.3	-	-	-
Iowa	2.3	3.7	1.2	2.3	3.7	1.2	-	-	-
New Mexico	2.6	3.6	1.8	2.7	3.7	1.8	-	-	-
Seattle-Puget Sound	2.8	3.9	1.9	2.8	3.9	1.8	4.1	4.4	3.9
Utah	1.4	2.1	0.8	1.4	2.1	0.8	-	-	-
Metropolitan Atlanta	3.2	5.1	1.8	2.6	3.9	1.7	5.2	9.8	2.0
San Jose-Monterey	2.7	4.2	1.6	2.7	4.0	1.6	3.2	5.8	1.3
Los Angeles	3.1	4.6	1.9	2.9	4.2	1.8	4.8	8.1	2.1
<u>SURVIVAL RATES<sup>⊙</sup>, 1986-92</u>									
REGISTRY									
Standard 9 registries	52.8	49.1	60.8	55.2	52.0	62.0	33.4	28.4	47.1
San Francisco-Oakland	48.1	41.9	61.6	48.9	42.5	62.6	32.2	30.3	37.7 <sup>↑</sup>
Connecticut	46.9	43.9	53.5	48.2	45.4	54.3	34.1	30.8	43.0 <sup>↑</sup>
Metropolitan Detroit	47.9	44.4	55.5	52.5	50.2	57.4	33.4	28.0	47.5
Hawaii	53.1	49.7	60.6	56.9	52.5	67.3 <sup>↑</sup>	-	-	-
Iowa	64.3	61.7	70.4	64.7	62.3	70.3	-	-	-
New Mexico	57.9	54.2	67.4	58.7	54.9	68.3	-	-	-
Seattle-Puget Sound	57.7	54.6	63.2	58.3	55.2	63.7	33.3 <sup>↑</sup>	34.6 <sup>↑</sup>	-
Utah	70.3	72.0	65.0	70.1	72.1	64.0	-	-	-
Metropolitan Atlanta	47.8	41.8	59.3	54.1	49.7	62.3	33.3	24.8	51.7 <sup>↑</sup>

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in this table and not other tables in this section.

- § SEER Program. Incidence rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
 δ NCHS public use tape. 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 and are based on follow-up of patients through 1993.  
 ↑ 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 or populations are inadequate.

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

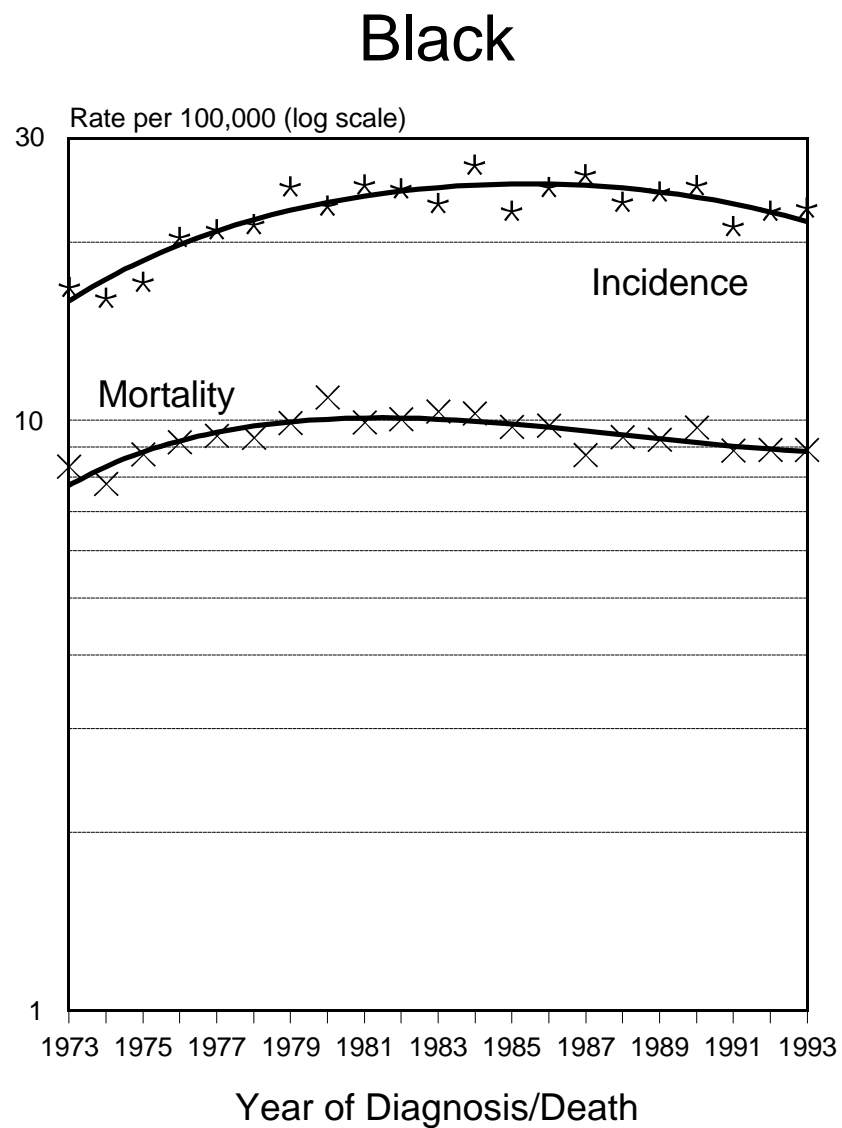
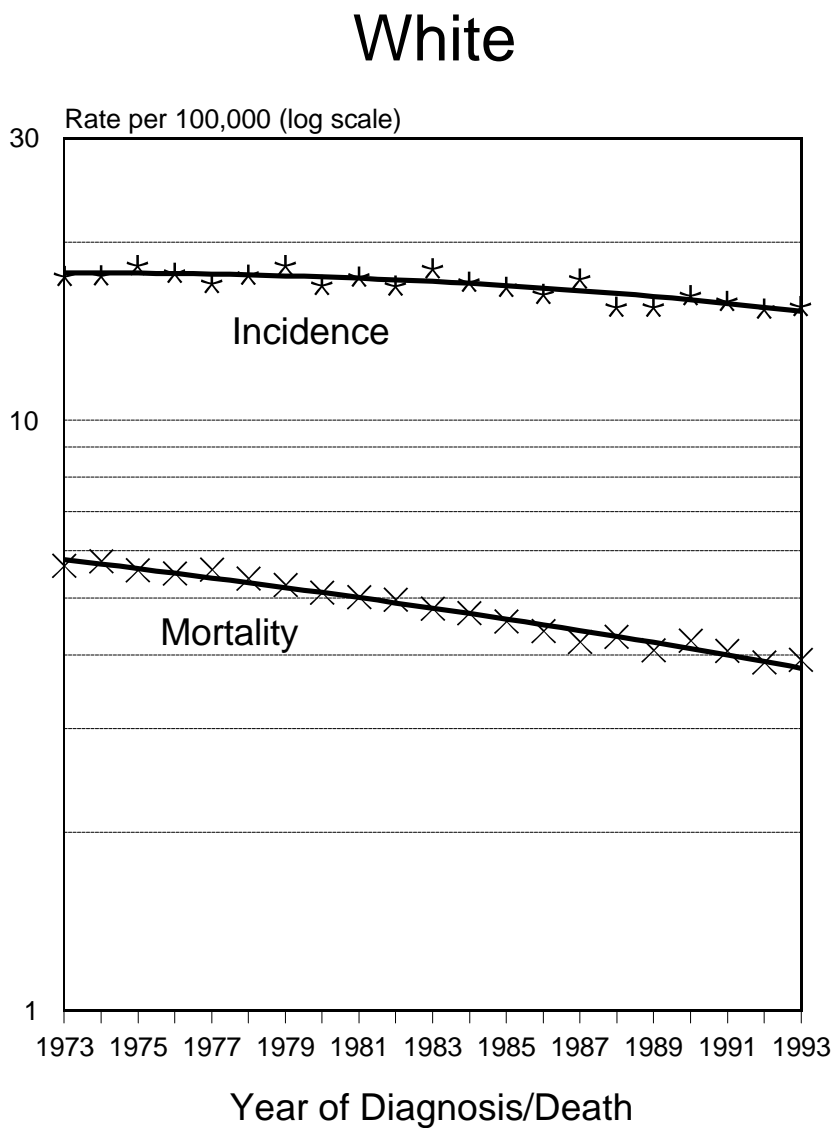


Figure XIX-1

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

## White

## Black

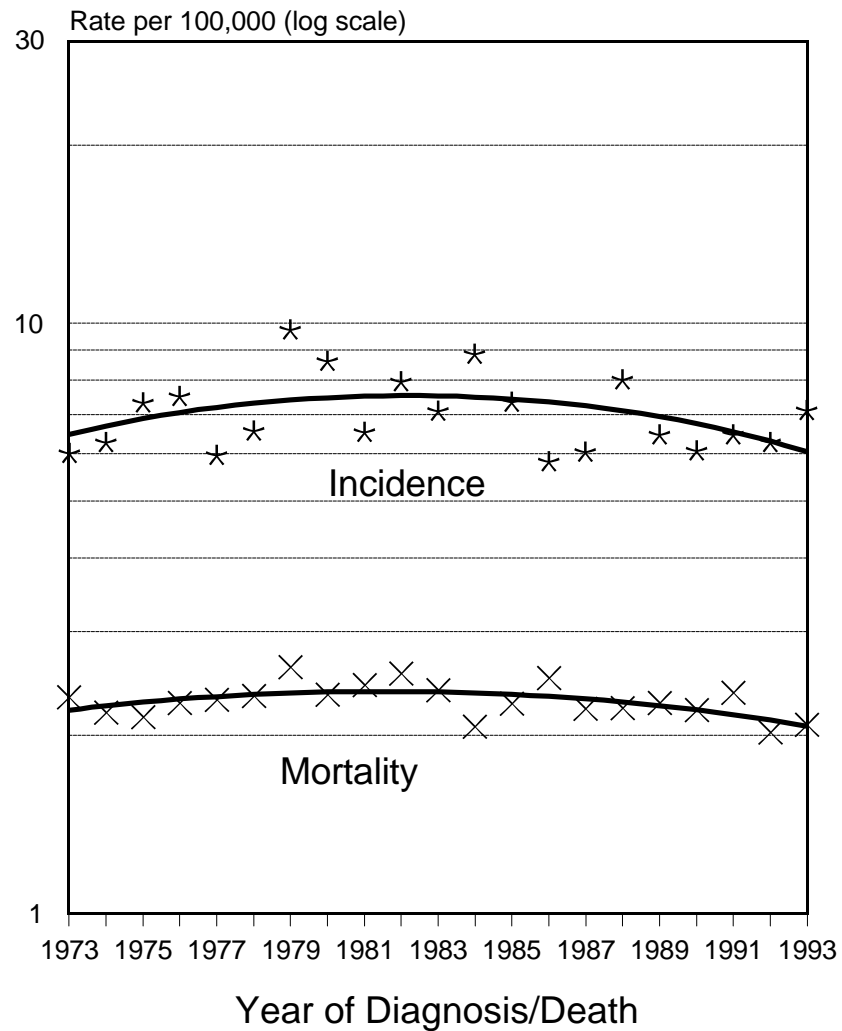
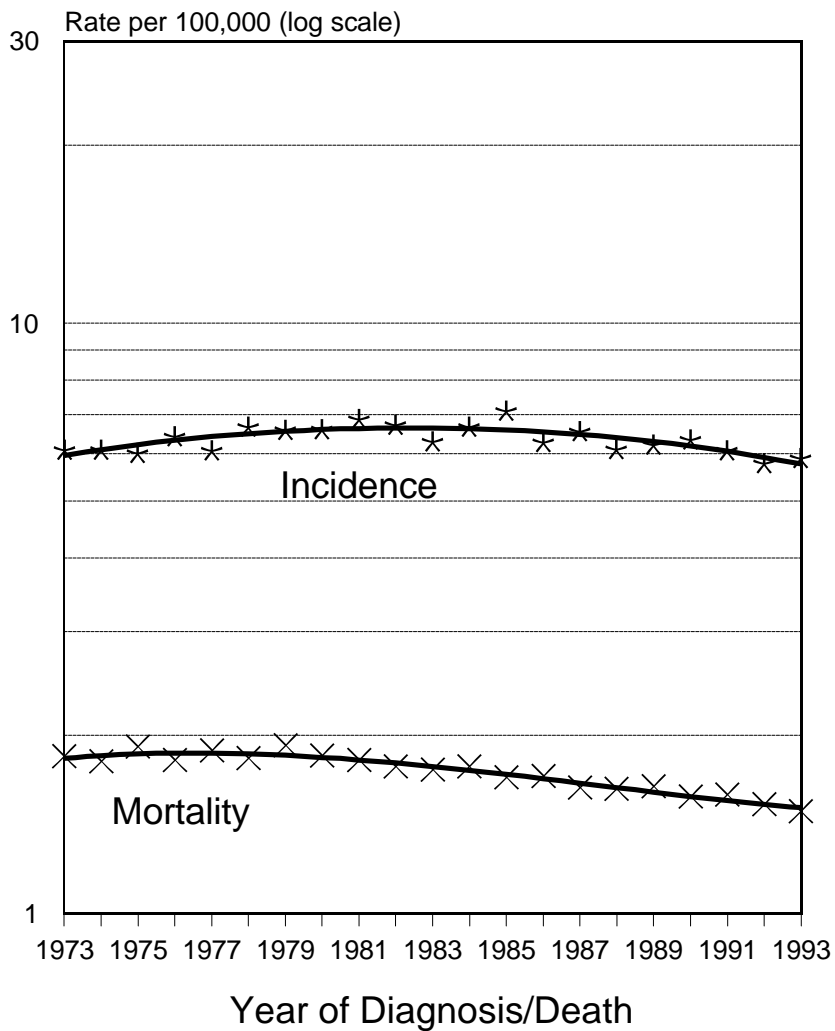


Figure XIX-2