

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

TRENDS IN SEER INCIDENCE^a AND U.S. MORTALITY^b USING THE JOINTPOINT REGRESSION PROGRAM, 1975-2001
WITH UP TO THREE JOINTPOINTS BY RACE AND SEX

		<u>Jointpoint Segment 1</u>		<u>Jointpoint Segment 2</u>		<u>Jointpoint Segment 3</u>		<u>Jointpoint Segment 4</u>	
		<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>
<u>SEER Cancer Incidence^a</u>									
All Races	Male and Female	1975-1993	-0.5 ^c	1993-2001	-2.3 ^c				
All Races	Male	1975-1993	-0.7 ^c	1993-2001	-2.8 ^c				
All Races	Female	1975-1980	2.6 ^c	1980-2001	-1.0 ^c				
White	Male and Female	1975-1991	-0.4 ^c	1991-2001	-1.8 ^c				
White	Male	1975-1992	-0.7 ^c	1992-2001	-2.4 ^c				
White	Female	1975-1981	2.0 ^c	1981-2001	-1.0 ^c				
Black	Male and Female	1975-1979	7.1	1979-1994	-0.9 ^c	1994-2001	-4.4 ^c		
Black	Male	1975-1987	1.9 ^c	1987-2001	-2.9 ^c				
Black	Female	1975-2001	-1.6 ^c						
<u>U.S. Cancer Mortality^b</u>									
All Races	Male and Female	1975-1991	-1.5 ^c	1991-2001	-2.5 ^c				
All Races	Male	1975-1993	-1.9 ^c	1993-2001	-3.0 ^c				
All Races	Female	1975-1991	-1.0 ^c	1991-2001	-2.6 ^c				
White	Male and Female	1975-2001	-1.9 ^c						
White	Male	1975-2001	-2.2 ^c						
White	Female	1975-1991	-1.1 ^c	1991-2001	-2.5 ^c				
Black	Male and Female	1975-1980	3.2 ^c	1980-1993	-1.4 ^c	1993-2001	-4.4 ^c		
Black	Male	1975-1980	3.7 ^c	1980-1993	-1.4 ^c	1993-2001	-4.6 ^c		
Black	Female	1975-1991	-0.3	1991-2001	-3.4 ^c				

Jointpoint Regression Program Version 2.7, September 2003, National Cancer Institute. (<http://srab.cancer.gov/jointpoint/>).

^a The APC is the Annual Percent Change based on rates age-adjusted to the 2000 U.S. standard population by 5-year age groups. Trends are from the SEER 9 areas.

^b Trends are from the NCHS public use data file for the total US.

^c The APC is significantly different from zero (p<.05).

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

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, 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:									
1975	13.2	21.2	7.1	13.3	21.7	6.9	13.4	20.2	8.2
1976	13.3	21.0	7.4	13.2	21.0	7.4	15.1	23.8	8.2
1977	12.7	20.1	7.0	12.6	19.8	7.0	14.5	23.9	6.8
1978	13.4	20.9	7.7	13.2	20.8	7.6	15.8	25.8	8.1
1979	14.0	21.9	8.0	13.7	21.6	7.7	18.4	28.2	10.6
1980	13.3	20.3	7.9	13.0	20.0	7.6	16.8	25.1	9.8
1981	13.6	20.8	7.9	13.4	20.5	7.9	16.7	28.2	7.5
1982	13.3	20.3	7.9	13.1	20.0	7.8	17.1	27.4	8.9
1983	13.3	21.3	7.2	13.3	21.3	7.3	16.1	26.0	8.3
1984	13.5	20.9	7.9	13.0	20.2	7.6	19.0	30.2	10.1
1985	13.4	20.0	8.2	13.3	19.8	8.3	16.0	25.8	8.5
1986	12.7	19.5	7.2	12.6	19.3	7.3	16.2	28.1	7.0
1987	13.4	21.0	7.5	13.3	20.6	7.7	16.8	30.2	6.9
1988	12.4	18.6	7.3	12.0	18.2	7.1	16.6	25.8	9.2
1989	12.4	18.9	7.3	12.2	18.3	7.3	16.0	27.7	7.0
1990	13.0	20.0	7.3	12.7	19.5	7.4	16.3	28.4	6.9
1991	12.5	19.1	7.2	12.5	18.9	7.3	14.8	24.4	7.4
1992	12.2	18.9	6.9	12.1	18.6	6.9	15.2	25.8	7.0
1993	12.7	19.2	7.3	12.5	18.8	7.2	15.9	25.6	8.1
1994	12.0	18.2	6.8	11.6	17.4	6.9	16.0	27.4	7.1
1995	11.7	17.3	7.2	11.7	17.1	7.3	13.7	22.7	6.8
1996	11.9	17.9	7.0	11.5	17.3	6.9	15.3	25.1	7.7
1997	11.5	17.4	6.8	11.5	17.2	6.8	11.8	18.9	6.2
1998	11.2	16.6	6.7	11.2	16.4	6.9	13.0	22.5	6.2
1999	10.5	15.5	6.4	10.4	15.3	6.2	11.7	20.0	5.6
2000	10.7	16.0	6.2	10.6	15.6	6.3	11.6	20.5	4.9
2001	10.4	15.0	6.6	10.5	15.0	6.6	11.8	18.6	6.7
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
All ages	10.9	16.1	6.5	10.8	15.9	6.6	12.0	20.1	5.9
Under 65	6.4	9.4	3.5	6.2	9.0	3.4	8.3	13.4	4.0
65 and over	41.7	62.2	27.2	42.9	63.2	28.6	37.3	66.7	18.8
All ages(IARC world std) ^b	7.7	11.4	4.5	7.7	11.1	4.5	9.0	15.0	4.4
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	0.3	-	-	-	-	-	-	-	-
15-19	0.4	-	-	0.4	-	-	-	-	-
20-24	0.6	-	0.7	0.6	-	-	-	-	-
25-29	1.1	1.1	1.1	1.1	1.1	1.1	-	-	-
30-34	1.9	2.2	1.6	1.6	2.0	1.2	-	-	-
35-39	3.2	4.3	2.1	2.9	3.9	1.9	3.1	-	-
40-44	6.3	8.9	3.8	5.6	8.1	3.1	9.2	12.7	6.1
45-49	12.0	18.5	5.7	11.1	17.5	4.8	17.8	28.6	8.6
50-54	18.9	28.7	9.4	18.3	27.6	9.1	26.8	46.6	9.9
55-59	25.3	37.9	13.3	25.5	37.5	13.7	31.7	51.3	15.3
60-64	31.9	47.8	17.3	32.1	46.9	18.2	38.1	66.2	15.5
65-69	38.8	57.4	22.9	39.4	56.7	24.2	46.0	79.9	20.5
70-74	42.6	62.8	26.7	44.2	64.3	28.2	39.0	66.2	20.6
75-79	43.7	63.5	29.8	45.4	65.3	31.4	40.5	67.0	23.9
80-84	43.5	66.1	29.9	44.9	67.7	31.3	29.2	55.3	-
85+	40.3	64.5	30.1	41.3	66.3	31.0	-	-	-

^a SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

^b SEER 9 areas. Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

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

U.S. DEATH RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, 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:									
1975	4.3	6.9	2.3	4.1	6.6	2.3	5.8	9.9	2.5
1976	4.2	6.9	2.2	4.0	6.6	2.2	6.1	10.6	2.6
1977	4.3	7.0	2.3	4.1	6.7	2.2	6.2	10.9	2.6
1978	4.2	6.8	2.3	4.0	6.4	2.2	6.1	10.7	2.7
1979	4.2	6.7	2.4	4.0	6.3	2.3	6.6	11.5	3.0
1980	4.2	6.7	2.3	3.9	6.1	2.2	7.0	12.5	2.8
1981	4.1	6.5	2.2	3.8	6.0	2.2	6.5	11.4	2.8
1982	4.0	6.5	2.2	3.7	6.0	2.1	6.6	11.5	2.9
1983	3.9	6.3	2.2	3.6	5.7	2.1	6.6	11.8	2.8
1984	3.9	6.2	2.2	3.6	5.6	2.1	6.4	11.7	2.4
1985	3.8	5.9	2.1	3.5	5.4	2.0	6.2	11.0	2.6
1986	3.7	5.8	2.2	3.4	5.3	2.1	6.5	11.4	2.9
1987	3.5	5.5	2.1	3.3	5.0	2.0	5.7	10.0	2.5
1988	3.6	5.6	2.0	3.3	5.1	2.0	6.0	10.7	2.5
1989	3.5	5.3	2.1	3.2	4.8	2.0	5.9	10.4	2.6
1990	3.6	5.6	2.0	3.3	5.1	2.0	6.1	11.0	2.5
1991	3.5	5.3	2.0	3.2	4.9	2.0	5.8	10.1	2.7
1992	3.3	5.1	1.9	3.1	4.7	1.9	5.6	10.0	2.3
1993	3.3	5.2	1.9	3.1	4.7	1.8	5.7	10.1	2.4
1994	3.2	4.8	1.8	2.9	4.4	1.8	5.3	9.3	2.4
1995	3.2	4.9	1.8	2.9	4.4	1.8	5.4	9.3	2.5
1996	3.0	4.6	1.8	2.8	4.2	1.7	4.9	8.7	2.1
1997	3.0	4.5	1.8	2.8	4.2	1.7	4.7	8.1	2.2
1998	3.0	4.5	1.7	2.8	4.2	1.7	4.5	7.9	2.1
1999	2.7	4.1	1.6	2.5	3.8	1.5	4.4	7.5	2.1
2000	2.7	4.1	1.6	2.5	3.7	1.6	4.1	7.3	1.8
2001	2.7	4.1	1.6	2.6	3.9	1.5	3.9	6.7	1.8
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DEATH:									
All ages	2.8	4.3	1.6	2.6	3.9	1.6	4.3	7.5	2.0
Under 65	1.3	2.1	0.6	1.1	1.8	0.6	2.6	4.6	1.0
65 and over	13.2	19.6	8.8	13.0	19.1	8.8	15.8	27.3	8.6
All ages(IARC world std) ^b	1.9	2.9	1.0	1.7	2.6	1.0	3.1	5.4	1.4
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DEATH:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	0.0	0.1	-	0.0	-	-	-	-	-
20-24	0.1	0.1	0.1	0.1	-	-	-	-	-
25-29	0.1	0.1	0.1	0.1	0.1	-	-	-	-
30-34	0.2	0.2	0.1	0.1	0.2	0.1	0.2	-	-
35-39	0.4	0.6	0.3	0.3	0.4	0.2	0.7	1.1	0.4
40-44	0.9	1.4	0.5	0.8	1.1	0.4	1.8	2.8	1.0
45-49	2.2	3.5	1.0	1.8	2.7	0.8	5.1	8.8	1.9
50-54	3.7	5.9	1.6	3.2	5.0	1.4	8.2	14.4	2.9
55-59	6.1	9.8	2.6	5.4	8.5	2.4	12.5	22.2	4.6
60-64	8.3	13.1	3.9	7.6	11.9	3.7	14.7	26.5	5.4
65-69	10.2	15.6	5.6	9.7	14.7	5.3	15.6	25.8	8.1
70-74	12.0	18.4	7.0	11.7	17.6	7.0	17.0	30.9	7.8
75-79	13.2	19.6	8.8	13.1	19.1	8.9	15.5	28.1	8.0
80-84	15.4	22.3	11.4	15.6	22.2	11.7	14.4	24.6	9.3
85+	19.7	27.8	16.4	20.1	28.1	16.9	15.4	25.2	11.7

^a NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

^b NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

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

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-1963 ^a	-	-	-	45	-	-	-	-	-
1970-1973 ^a	-	-	-	43	-	-	-	-	-
1974-1976 ^b	53.5	52.5	55.6	55.1	54.7	56.0	36.3	31.6	45.4
1977-1979 ^b	52.9	51.7	55.6	54.8	54.2	56.2	36.8	30.9	49.2
1980-1982 ^b	53.0	51.4	56.2	55.7	54.6	57.8	31.1	26.5	42.5
1983-1985 ^b	53.4	51.8	56.6	55.4	54.5	57.2	35.2	29.9	47.7
1986-1988 ^b	53.1	49.6	61.0	55.4	52.3	62.2	34.8	29.6	48.6
1989-1991 ^b	53.3	49.5	61.5	55.6	52.2	62.6	33.3	28.9	44.8
1992-1994 ^b	55.9	53.5	61.0	58.4	56.8	61.9	35.0	29.6	50.4
1995-2000 ^b	58.7 ^c	57.4 ^c	61.5 ^c	60.9 ^c	60.4 ^c	62.0 ^c	39.0	33.7	52.1
1995-2000 ^b									
ALL STAGES	58.7	57.4	61.5	60.9	60.4	62.0	39.0	33.7	52.1
LOCALIZED	81.0	81.3	80.6	81.6	82.5	80.1	69.9	59.1 ^d	85.0 ^d
REGIONAL	50.7	50.3	51.7	52.3	52.2	52.5	33.8	31.7	39.0
DISTANT	29.5	27.3	34.5	30.3	28.1	34.2	25.1	22.0	33.7 ^d
UNSTAGED	46.5	46.4	46.5	48.7	50.9	43.5	28.0 ^d	23.3 ^d	-
<u>STAGE DISTRIBUTION (%) 1995-2000^b</u>									
ALL STAGES									
Number of cases	13,249	9,037	4,212	10,729	7,273	3,456	1,402	1,027	375
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	34	32	40	37	35	42	20	16	29
REGIONAL	50	52	45	48	50	43	58	60	52
DISTANT	10	10	9	9	9	8	15	16	14
UNSTAGED	7	7	6	7	7	7	8	8	5
<u>5-YR RELATIVE SURVIVAL RATES, 1995-2000^b</u>									
AGE AT DIAGNOSIS:									
<45	74.2	69.2	83.8	77.9	73.9	85.9	53.6	44.6	70.9 ^d
45-54	62.6	60.6	68.8	67.3	65.8	72.2	36.8	33.5	48.3 ^d
55-64	57.2	55.6	61.4	59.8	58.1	64.0	36.6	32.8	47.1 ^d
65-74	54.6	54.3	55.3	56.9	56.9	56.8	32.1	29.4	36.7 ^d
75+	47.0	48.3	45.7	47.4	49.8	44.9	36.0 ^d	18.4 ^d	50.6 ^e
Under 65	63.1	60.3	70.1	66.4	64.1	72.2	40.9	35.7	55.6
65 and over	51.9	52.5	51.2	53.4	54.6	51.5	33.3	27.4	42.3 ^d

^a

Rates are based on End Results data from a series of hospital registries and one population-based registry.

^b

Rates are from the SEER 9 areas. 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 into 2001.

^c

The difference in rates between 1974-1976 and 1995-2000 is statistically significant (p<.05).

^d

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

^e

The standard error of the survival rate is greater than 10 percentage points.

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Statistic could not be calculated.

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

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Males and Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
Relative Survival Rates (SEER ^b)																			
1-year	80.3	80.1	81.7	80.3	80.7	81.6	79.2	81.3	80.9	79.6	81.6	83.0	82.9	81.9	84.0	81.3	83.9	84.9	
2-year	66.3	66.4	68.3	66.6	67.8	66.4	66.8	68.5	67.6	68.2	68.3	70.8	71.4	70.1	71.3	70.3	72.4		
3-year	60.0	60.0	61.1	60.5	61.3	58.7	59.9	61.4	60.5	60.7	62.1	65.3	65.5	63.7	66.5	64.4			
4-year	56.0	56.0	57.5	57.1	57.9	53.8	55.3	58.2	55.9	56.0	57.9	61.2	61.9	60.2	62.7				
5-year	53.1	52.9	54.5	54.0	54.6	50.7	51.9	55.3	52.6	53.8	55.2	58.6	59.1	58.1					
6-year	50.8	50.3	52.6	51.7	52.4	47.7	49.1	53.3	50.1	51.6	53.2	55.9	56.7						
7-year	48.7	48.1	50.1	49.8	50.1	44.8	46.6	51.2	48.0	49.1	51.2	54.9							
8-year	46.6	46.7	48.8	48.0	47.1	42.7	45.2	49.6	46.8	47.2	49.1								
9-year	44.9	44.8	46.9	46.0	45.5	41.1	43.6	46.9	45.2	45.2									
10-year	42.9	43.2	45.7	44.1	44.3	39.8	41.6	45.2	43.6										
11-year	41.1	41.8	44.7	43.1	43.1	38.1	40.7	44.1											
12-year	39.7	40.5	43.2	42.1	41.7	36.7	39.4												
13-year	38.6	39.0	41.9	40.9	39.8	35.5													
14-year	37.6	38.1	40.6	40.2	38.6														
15-year	36.2	36.6	39.6	38.9															
16-year	35.0	35.6	39.2																
17-year	34.4	34.7																	
18-year	33.5																		
19-year	33.0																		
20-year	32.1																		

^a Survival rates are relative rates expressed as percents.
^b Rates are from the SEER 9 areas.

Table XIX-6
ORAL CAVITY AND PHARYNX CANCER (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Males

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Relative Survival Rates (SEER ^b)																		
1-year	79.7	79.6	82.0	78.6	80.1	80.4	77.5	80.1	80.1	78.5	80.4	83.0	82.6	81.8	83.2	81.0	84.2	84.7
2-year	65.4	65.6	68.0	63.6	66.3	64.7	64.1	65.9	65.9	66.3	66.2	70.3	70.3	69.7	70.0	70.4	71.3	
3-year	59.2	58.7	60.0	56.4	59.5	56.3	56.5	58.8	57.8	58.0	59.1	63.4	64.7	62.9	65.0	63.9		
4-year	54.7	54.6	56.8	52.7	55.8	50.8	51.1	55.3	52.0	53.7	55.4	59.1	60.7	59.2	60.7			
5-year	51.8	51.3	53.1	49.1	52.1	47.2	47.4	52.4	48.5	51.3	52.5	56.8	58.0	57.0				
6-year	49.5	48.7	51.3	47.1	49.8	44.5	45.3	50.2	46.2	49.4	50.2	54.4	55.2					
7-year	47.3	46.5	49.0	45.4	48.1	41.9	42.8	48.0	43.8	46.5	47.8	53.5						
8-year	45.3	44.9	48.1	43.2	44.9	39.0	41.3	46.9	42.7	44.6	46.5							
9-year	43.5	43.3	46.3	41.4	43.4	37.3	39.3	44.2	41.4	42.9								
10-year	41.5	41.4	44.9	39.4	42.1	35.4	36.8	43.4	39.4									
11-year	39.6	40.0	44.2	39.1	40.4	33.7	35.8	42.3										
12-year	38.4	38.8	42.7	38.3	38.9	32.5	34.8											
13-year	37.3	37.5	41.5	36.9	37.3	31.3												
14-year	36.4	36.7	39.9	36.6	36.1													
15-year	35.2	35.4	38.8	35.3														
16-year	33.9	34.4	38.6															
17-year	33.2	33.6																
18-year	32.4																	
19-year	32.1																	
20-year	31.3																	

^a Survival rates are relative rates expressed as percents.
^b Rates are from the SEER 9 areas.

Table XIX-7
ORAL CAVITY AND PHARYNX CANCER (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
Relative Survival Rates (SEER ^b)																			
1-year	81.7	81.0	81.2	84.0	82.3	84.2	82.6	83.8	82.8	82.1	84.4	83.2	83.4	82.3	85.8	81.9	83.2	85.4	
2-year	68.3	68.1	69.0	73.3	71.0	70.0	72.4	74.4	71.3	72.3	72.9	71.8	73.7	71.1	74.4	70.0	74.6		
3-year	61.9	62.7	63.1	69.9	65.3	63.8	66.9	67.4	66.4	66.4	68.7	69.2	66.9	65.4	69.8	65.3			
4-year	59.0	58.8	58.8	66.9	62.8	60.2	64.0	64.6	64.2	61.2	63.7	66.0	64.3	62.3	67.1				
5-year	56.1	56.3	57.0	65.0	60.1	58.0	61.0	62.0	61.4	59.1	61.3	62.6	61.2	60.3					
6-year	53.6	53.6	55.0	61.9	58.2	54.4	56.9	60.2	58.4	56.3	60.0	59.2	59.5						
7-year	51.7	51.4	52.3	59.3	54.5	50.9	54.1	58.3	56.9	54.6	58.6	58.1							
8-year	49.3	50.1	50.0	58.5	52.2	50.4	53.0	55.6	55.4	52.7	55.0								
9-year	47.7	48.0	48.0	55.9	50.3	49.0	52.2	52.7	53.4	50.4									
10-year	45.8	46.8	47.1	54.2	49.2	48.8	51.3	49.1	52.4										
11-year	44.0	45.5	45.7	51.6	49.2	46.9	50.6	48.1											
12-year	42.4	43.9	44.2	50.1	47.9	45.1	48.5												
13-year	41.0	41.7	42.7	49.4	45.3	43.8													
14-year	39.9	40.7	41.9	47.7	43.8														
15-year	38.3	39.0	41.0	46.4															
16-year	37.3	37.8	40.4																
17-year	36.6	36.9																	
18-year	35.4																		
19-year	34.6																		
20-year	33.4																		

^a Survival rates are relative rates expressed as percents.
^b Rates are from the SEER 9 areas.

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 (12 SEER Areas) With Cancer and
 Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

1999-2001

All Races

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.01	1.37	0.00	0.00	0.01	0.67
10	0.00	0.01	0.04	1.38	0.00	0.01	0.03	0.68
20	0.01	0.04	0.16	1.39	0.01	0.03	0.07	0.68
30	0.03	0.16	0.43	1.40	0.02	0.06	0.16	0.67
40	0.12	0.41	0.81	1.39	0.05	0.14	0.30	0.66
50	0.29	0.71	1.07	1.31	0.10	0.26	0.45	0.63
60	0.45	0.84	1.05	1.10	0.16	0.37	0.51	0.55

Lifetime Risk of Being Diagnosed = 1.37%
 Lifetime Risk of Dying = 0.38%

Lifetime Risk of Being Diagnosed = 0.67%
 Lifetime Risk of Dying = 0.19%

Whites

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.01	1.38	0.00	0.00	0.01	0.68
10	0.00	0.01	0.04	1.40	0.00	0.01	0.03	0.69
20	0.01	0.04	0.15	1.41	0.01	0.02	0.06	0.69
30	0.03	0.15	0.42	1.41	0.01	0.05	0.15	0.68
40	0.12	0.40	0.81	1.40	0.04	0.14	0.29	0.67
50	0.29	0.71	1.08	1.33	0.10	0.26	0.46	0.64
60	0.46	0.85	1.06	1.11	0.17	0.38	0.53	0.57

Lifetime Risk of Being Diagnosed = 1.38%
 Lifetime Risk of Dying = 0.36%

Lifetime Risk of Being Diagnosed = 0.68%
 Lifetime Risk of Dying = 0.19%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.01	0.01	1.32	0.00	0.01	0.01	0.50
10	0.01	0.01	0.04	1.36	0.00	0.01	0.04	0.50
20	0.01	0.04	0.21	1.37	0.01	0.03	0.11	0.50
30	0.03	0.21	0.58	1.40	0.03	0.10	0.21	0.50
40	0.18	0.56	1.00	1.41	0.08	0.18	0.31	0.48
50	0.41	0.88	1.20	1.32	0.11	0.24	0.37	0.42
60	0.55	0.92	1.02	1.06	0.15	0.29	0.33	0.34

Lifetime Risk of Being Diagnosed = 1.32%
 Lifetime Risk of Dying = 0.52%

Lifetime Risk of Being Diagnosed = 0.50%
 Lifetime Risk of Dying = 0.18%

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

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

By Race/Ethnicity and Sex

Incidence^a

RACE/ETHNICITY	Rate 1997-2001			Trend 1992-2001		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	10.7	15.7	6.4	-2.0 ^d	-2.4 ^d	-1.4 ^d
White	10.7	15.7	6.4	-1.8 ^d	-2.2 ^d	-1.5 ^d
White Hispanic ^b	6.6	9.9	3.9	-2.7 ^d	-3.4 ^d	-1.8
White Non-Hispanic ^b	11.1	16.3	6.7	-1.8 ^d	-2.1 ^d	-1.8 ^d
Black	11.9	19.5	6.2	-3.2 ^d	-3.4 ^d	-2.1
Asian/Pacific Islander	8.7	12.2	5.8	-1.7	-2.3	-0.2
Amer Ind/Alaska Nat	6.8	10.7	3.8	-5.8 ^d	-7.8 ^d	-
Hispanic ^b	6.4	9.6	3.9	-2.6 ^d	-3.4 ^d	-1.5

Mortality^c

RACE/ETHNICITY	Rate 1997-2001			Trend 1992-2001		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	2.8	4.3	1.6	-2.6 ^d	-2.8 ^d	-2.5 ^d
White	2.6	3.9	1.6	-2.3 ^d	-2.5 ^d	-2.3 ^d
White Hispanic ^b	1.8	3.0	0.9	-3.0 ^d	-4.3 ^d	0.0
White Non-Hispanic ^b	2.7	4.0	1.7	-2.1 ^d	-2.3 ^d	-2.1 ^d
Black	4.3	7.5	2.0	-4.2 ^d	-4.4 ^d	-3.3 ^d
Asian/Pacific Islander	2.4	3.6	1.3	-2.6 ^d	-2.5 ^d	-2.7
Amer Ind/Alaska Nat	2.3	3.8	1.1	-1.4	-1.0	-
Hispanic ^b	1.8	2.9	0.9	-3.0 ^d	-4.2 ^d	0.0

The APC is the 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.

^a Incidence data are from the 12 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, and Alaska Native Registry).

^b 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 do not include cases from Detroit, Hawaii and Alaska Native Registry. For mortality, information is included for all states except Connecticut, Maine, Maryland, Oklahoma, New York, New Hampshire, North Dakota and Vermont.

^c Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).

^d The APC is significantly different from zero (p<.05).

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

AGE-ADJUSTED SEER INCIDENCE RATES^a AND SEER DEATH RATES^b
 By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES^a, 1997-2001</u>									
REGISTRY									
12 registries	10.7	15.7	6.4	10.7	15.7	6.4	11.9	19.5	6.2
11 registries	10.6	15.7	6.4	10.7	15.7	6.4	11.9	19.5	6.2
9 registries	10.9	16.1	6.5	10.8	15.9	6.6	12.0	20.1	5.9
San Francisco-Oakland	11.6	16.6	7.4	12.0	17.2	7.5	10.0	15.9	5.6
Connecticut	10.3	15.3	6.3	10.1	14.9	6.2	12.2	21.5	5.4
Metropolitan Detroit	12.4	19.0	7.1	11.8	17.4	7.2	14.6	25.8	6.5
Hawaii	10.8	15.6	6.5	14.7	19.6	9.6	-	-	-
Iowa	11.0	17.0	6.1	11.0	17.0	6.1	-	-	-
New Mexico	9.4	14.3	5.1	9.7	14.9	5.2	-	-	-
Seattle-Puget Sound	11.1	15.6	7.1	11.4	16.0	7.2	9.5	14.0	-
Utah	8.4	11.9	5.2	8.4	12.0	5.3	-	-	-
Metropolitan Atlanta	10.1	15.0	6.2	9.9	14.2	6.4	10.4	17.3	5.6
San Jose-Monterey	10.2	14.9	6.1	10.4	15.3	6.1	-	-	-
Los Angeles	10.1	14.7	6.2	10.1	15.0	6.1	11.9	18.5	7.1
<u>SEER DEATH RATES^b, 1997-2001</u>									
REGISTRY									
12 registries	2.7	4.0	1.7	2.6	3.7	1.6	3.8	6.1	2.1
11 registries	2.7	4.0	1.7	2.5	3.7	1.6	3.8	6.1	2.1
9 registries	2.7	4.0	1.6	2.5	3.7	1.6	3.6	6.0	1.9
San Francisco-Oakland	3.2	4.5	2.2	3.1	4.1	2.3	3.9	6.0	-
Connecticut	2.4	3.7	1.5	2.3	3.4	1.4	4.0	7.9	-
Metropolitan Detroit	2.8	4.3	1.7	2.5	3.9	1.4	3.9	6.2	2.2
Hawaii	3.1	4.8	1.6	3.9	5.5	-	-	-	-
Iowa	2.2	3.5	1.3	2.2	3.4	1.3	-	-	-
New Mexico	2.3	3.2	1.6	2.4	3.3	1.6	-	-	-
Seattle-Puget Sound	3.0	4.4	1.8	3.1	4.5	1.9	-	-	-
Utah	1.9	2.8	1.0	1.8	2.8	1.0	-	-	-
Metropolitan Atlanta	2.5	3.6	1.6	2.1	2.8	1.6	3.5	6.5	1.6
San Jose-Monterey	2.7	3.5	1.9	2.6	3.3	2.0	-	-	-
Los Angeles	2.8	4.0	1.8	2.6	3.8	1.7	4.2	6.6	2.5

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.
^a SEER 9 areas. Incidence rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.
^b NCHS public use data file for the total US. Death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

- Statistic could not be calculated or populations are inadequate.

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

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, ALL RACES, 1997-2001

Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	2.8	0.01		
High Five States				
District of Columbia	5.2 ^{bc}	0.44	(01)	85.7
Alaska	4.0 ^b	0.52	(02)	42.9
Mississippi	3.8 ^{bc}	0.17	(03)	35.7
South Carolina	3.8 ^{bc}	0.14	(04)	35.7
Louisiana	3.8 ^{bc}	0.14	(05)	35.7
Low Five States				
New Mexico	2.3 ^b	0.17	(47)	-17.9
Iowa	2.2 ^{bc}	0.12	(48)	-21.4
Colorado	2.0 ^{bc}	0.11	(49)	-28.6
Nebraska	2.0 ^{bc}	0.15	(50)	-28.6
Utah	1.9 ^{bc}	0.16	(51)	-32.1

Males

State	Rate	SE	Rank	PD
TOTAL U.S.	4.3	0.03		
High Five States				
District of Columbia	9.2 ^{bc}	0.89	(01)	114.0
Mississippi	6.4 ^{bc}	0.34	(02)	48.8
Alaska	6.1 ^b	0.98	(03)	41.9
South Carolina	6.0 ^{bc}	0.27	(04)	39.5
Louisiana	5.8 ^{bc}	0.26	(05)	34.9
Low Five States				
New Mexico	3.2 ^b	0.30	(47)	-25.6
Colorado	3.0 ^{bc}	0.21	(48)	-30.2
Nebraska	2.9 ^{bc}	0.28	(49)	-32.6
Utah	2.8 ^{bc}	0.29	(50)	-34.9
Wyoming	2.8 ^b	0.52	(51)	-34.9

Females

State	Rate	SE	Rank	PD
TOTAL U.S.	1.6	0.01		
High Five States				
Oregon	2.3 ^{bc}	0.15	(01)	43.8
Louisiana	2.1 ^b	0.13	(02)	31.3
District of Columbia	2.1 ^b	0.36	(03)	31.3
Alaska	2.0 ^b	0.51	(04)	25.0
Wyoming	2.0 ^b	0.39	(05)	25.0
Low Five States				
Iowa	1.3 ^b	0.12	(47)	-18.8
Nebraska	1.3 ^b	0.16	(48)	-18.8
Colorado	1.2 ^{bc}	0.11	(49)	-25.0
North Dakota	1.2 ^b	0.25	(50)	-25.0
Utah	1.0 ^{bc}	0.16	(51)	-37.5

For additional detailed cancer statistics by state, please visit the State Cancer Profiles website. <http://statecancerprofiles.cancer.gov/>

- ^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.
^b Absolute percent difference between state rate and total U.S. rate is 15% or more.
^c Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
SE Standard error of the rate.
PD Percent difference between state rate and total U.S. rate.

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

Estimated United States Cancer Prevalence Counts^a on January 1, 2001
 By Race/Ethnicity, Sex and Years Since Diagnosis

Years Since Diagnosis	0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	0 to <11 ^e	0 to <26 ^e	>=26 ^g	Complete ^h
Race/Sex									
All Races ^b	82,674	51,214	33,360	22,078	14,999	142,122	206,494	24,203	230,697
Males	55,409	32,984	20,511	13,562	9,130	93,734	133,057	14,767	147,824
Females	27,265	18,230	12,849	8,516	5,869	48,388	73,437	9,436	82,873
White ^b	71,166	45,290	29,753	19,920	13,467	123,767	181,536	20,660	202,196
Males	47,891	29,439	18,484	12,453	8,412	82,143	118,028	12,723	130,751
Females	23,275	15,851	11,269	7,467	5,055	41,624	63,508	7,937	71,445
Black ^b	7,237	3,752	2,307	1,341	876	11,576	15,673	1,120	16,793
Males	4,861	2,213	1,305	673	351	7,410	9,470	498	9,968
Females	2,376	1,539	1,002	668	525	4,166	6,203	622	6,825
Asian/Pacific Islander ^c	2,682	1,401	+	+	+	4,287	+	+	+
Males	1,712	869	+	+	+	2,709	+	+	+
Females	970	532	+	+	+	1,578	+	+	+
Hispanic ^d	3,244	1,861	+	+	+	5,383	+	+	+
Males	2,116	1,128	+	+	+	3,398	+	+	+
Females	1,128	733	+	+	+	1,985	+	+	+

Estimated prevalence percent^a on January 1, 2001, of the SEER 11 population diagnosed in the previous 10 years
 By Age at Prevalence, Race/Ethnicity and Sex

Age at Prevalence	Age Specific (Crude)										Age-Adjusted ^f
	All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	All Ages
Race/Sex											
All Races ^c	0.0426%	0.0003%	0.0016%	0.0048%	0.0127%	0.0374%	0.0913%	0.1537%	0.1822%	0.1590%	0.0460%
Males	0.0568%	0.0003%	0.0014%	0.0048%	0.0147%	0.0520%	0.1357%	0.2290%	0.2648%	0.2435%	0.0668%
Females	0.0287%	0.0004%	0.0018%	0.0047%	0.0105%	0.0231%	0.0491%	0.0871%	0.1204%	0.1141%	0.0288%
White ^c	0.0451%	0.0003%	0.0017%	0.0044%	0.0115%	0.0348%	0.0917%	0.1625%	0.1905%	0.1652%	0.0468%
Males	0.0601%	0.0002%	0.0013%	0.0043%	0.0135%	0.0490%	0.1364%	0.2415%	0.2757%	0.2555%	0.0680%
Females	0.0302%	0.0004%	0.0021%	0.0045%	0.0094%	0.0203%	0.0481%	0.0908%	0.1259%	0.1181%	0.0288%
Black ^c	0.0297%	0.0007%	0.0015%	0.0047%	0.0115%	0.0411%	0.0908%	0.1300%	0.1332%	0.0681%	0.0388%
Males	0.0401%	-	0.0021%	0.0054%	0.0136%	0.0549%	0.1415%	0.1967%	0.2108%	0.0849%	0.0573%
Females	0.0201%	-	-	0.0041%	0.0096%	0.0291%	0.0482%	0.0771%	0.0820%	0.0604%	0.0247%
Asian/Pacific Islander ^c	0.0376%	-	0.0010%	0.0067%	0.0186%	0.0487%	0.0842%	0.1066%	0.1395%	0.1396%	0.0414%
Males	0.0492%	-	-	0.0076%	0.0207%	0.0669%	0.1214%	0.1554%	0.1954%	0.2008%	0.0578%
Females	0.0269%	-	-	0.0059%	0.0165%	0.0325%	0.0515%	0.0668%	0.0975%	0.0970%	0.0280%
Hispanic ^d	0.0136%	-	0.0010%	0.0027%	0.0066%	0.0179%	0.0448%	0.0920%	0.1107%	0.1057%	0.0262%
Males	0.0167%	-	-	0.0025%	0.0071%	0.0234%	0.0640%	0.1393%	0.1630%	0.1429%	0.0371%
Females	0.0103%	-	0.0015%	0.0028%	0.0061%	0.0123%	0.0273%	0.0531%	0.0735%	0.0855%	0.0177%

^a US 2001 cancer prevalence counts are based on 2001 cancer prevalence proportions from the SEER registries and 1/1/2001 US population estimates based on the average of 2000 and 2001 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.

^{b c d} Statistics based on b) SEER 9 Areas c) SEER 11 Areas d) SEER 11 Areas excluding Hawaii and Detroit.

^e Maximum limited-duration prevalence: 26 years for 1975-2001 SEER 9 data; 11 years for 1990-2001 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

^f Percentages are age-adjusted to the 2000 US standard population by 5-year age groups.

^{g h} (g) Cases diagnosed 26 years or more ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (h) Complete prevalence is obtained by summing 0 to <26 and >=26.

- Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.

+ Not available.

SEER Incidence and US Death Rates+ Oral Cavity and Pharynx Cancer, by Race and Sex

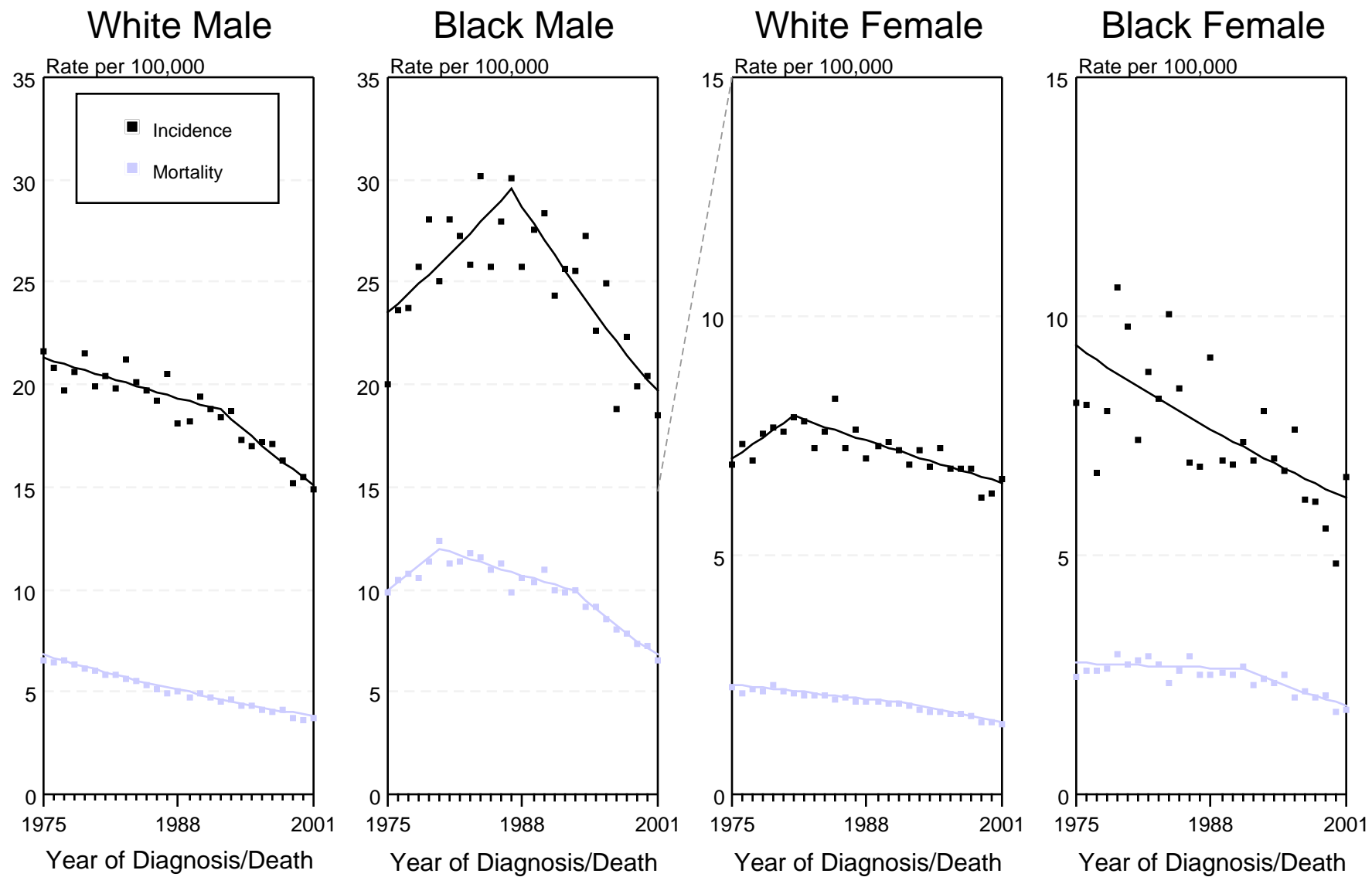


Figure XIX-1

+ Source: SEER 9 areas and NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute.