

Table XXIII-1
STOMACH CANCER (Invasive)

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

		<u>Joinpoint Segment 1</u>		<u>Joinpoint Segment 2</u>		<u>Joinpoint Segment 3</u>		<u>Joinpoint Segment 4</u>	
		Year	APC	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence^a</u>									
All Races	Male and Female	1975-2001	-1.6 ^c						
All Races	Male	1975-1989	-1.2 ^c	1989-2001	-2.2 ^c				
All Races	Female	1975-1996	-1.9 ^c	1996-1999	2.4	1999-2001	-9.0		
White	Male and Female	1975-2001	-2.0 ^c						
White	Male	1975-2001	-1.9 ^c						
White	Female	1975-2001	-2.2 ^c						
Black	Male and Female	1975-2001	-1.2 ^c						
Black	Male	1975-2001	-1.3 ^c						
Black	Female	1975-2001	-0.9 ^c						
<u>SEER Delay-Adjusted Incidence^a</u>									
All Races	Male and Female	1975-2001	-1.6 ^c						
All Races	Male	1975-1988	-1.1 ^c	1988-2001	-2.1 ^c				
All Races	Female	1975-1996	-1.9 ^c	1996-1999	2.5	1999-2001	-8.3		
White	Male and Female	1975-2001	-1.9 ^c						
White	Male	1975-2001	-1.8 ^c						
White	Female	1975-2001	-2.2 ^c						
Black	Male and Female	1975-2001	-1.1 ^c						
Black	Male	1975-2001	-1.2 ^c						
Black	Female	1975-2001	-0.8 ^c						
<u>U.S. Cancer Mortality^b</u>									
All Races	Male and Female	1975-1987	-2.5 ^c	1987-1990	-0.3	1990-2001	-3.0 ^c		
All Races	Male	1975-1994	-2.1 ^c	1994-2001	-3.7 ^c				
All Races	Female	1975-1987	-2.8 ^c	1987-1990	-0.5	1990-2001	-2.6 ^c		
White	Male and Female	1975-1987	-2.8 ^c	1987-1990	-0.7	1990-2001	-3.2 ^c		
White	Male	1975-1994	-2.3 ^c	1994-2001	-4.0 ^c				
White	Female	1975-1987	-3.1 ^c	1987-1990	-1.0	1990-2001	-2.9 ^c		
Black	Male and Female	1975-1987	-1.6 ^c	1987-1991	0.3	1991-2001	-2.8 ^c		
Black	Male	1975-1993	-1.1 ^c	1993-2001	-3.3 ^c				
Black	Female	1975-2001	-1.3 ^c						

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

^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 XXIII-2
STOMACH 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>									
<u>YEAR OF DIAGNOSIS:</u>									
1975	11.7	17.1	7.8	10.6	16.0	7.0	17.0	24.8	11.5
1976	12.2	17.5	8.3	11.2	16.0	7.7	15.8	23.5	10.1
1977	11.5	16.6	7.9	10.3	15.0	7.0	17.3	24.6	11.7
1978	11.5	16.5	7.9	10.3	15.0	7.0	17.6	22.9	13.5
1979	12.0	17.4	8.2	10.7	15.6	7.5	18.5	28.2	11.7
1980	11.3	17.1	7.2	10.3	15.7	6.6	15.1	26.3	7.3
1981	11.1	16.6	7.4	10.1	15.1	6.7	17.6	27.9	10.3
1982	10.9	16.3	7.1	9.7	14.6	6.3	19.0	31.2	10.3
1983	10.9	15.8	7.4	9.5	13.7	6.6	18.0	27.8	11.2
1984	10.6	15.3	7.3	9.4	13.9	6.4	16.4	21.7	12.3
1985	10.2	15.1	6.9	8.9	13.3	6.0	16.4	23.5	11.4
1986	10.2	15.0	6.8	9.0	13.5	5.9	16.5	23.3	11.9
1987	10.2	15.1	6.8	9.0	13.3	6.0	17.0	26.5	10.7
1988	10.2	15.6	6.5	8.8	13.7	5.5	16.2	24.8	10.1
1989	10.0	15.2	6.3	8.8	13.6	5.4	15.8	23.2	10.7
1990	9.3	13.8	6.2	8.0	12.0	5.2	14.5	21.9	9.4
1991	9.7	14.2	6.6	8.3	12.4	5.5	16.5	25.7	10.5
1992	9.2	13.4	6.1	8.0	11.7	5.2	14.0	20.0	9.7
1993	9.0	13.7	5.8	7.7	11.7	4.9	14.4	23.8	8.4
1994	9.1	13.7	5.7	7.8	11.9	4.8	15.1	24.9	8.8
1995	8.4	12.6	5.2	7.3	11.3	4.4	13.4	18.8	9.6
1996	8.5	12.7	5.5	7.3	11.0	4.7	14.7	22.9	9.1
1997	8.6	12.7	5.6	7.2	10.8	4.5	15.6	22.1	10.9
1998	8.5	12.2	5.9	7.2	10.6	4.7	14.8	20.0	11.4
1999	8.6	12.1	6.0	7.4	10.5	5.0	13.0	18.1	9.8
2000	8.1	11.7	5.4	6.8	9.9	4.4	12.9	19.9	8.2
2001	7.5	10.9	5.0	6.3	9.4	3.9	12.3	17.3	8.8
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	8.3	11.9	5.6	6.9	10.2	4.5	13.7	19.4	9.8
Under 65	2.8	3.9	1.8	2.4	3.3	1.5	4.6	6.4	3.0
65 and over	45.9	67.4	31.4	38.6	58.1	25.5	76.6	109.1	56.4
All ages(IARC world std) ^b	5.0	7.1	3.2	4.2	6.1	2.6	8.1	11.6	5.5
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
<u>AGE AT DIAGNOSIS:</u>									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-
25-29	0.4	0.6	-	-	-	-	-	-	-
30-34	0.9	1.0	0.9	0.7	0.7	0.7	-	-	-
35-39	1.3	1.5	1.2	0.9	1.1	0.7	2.6	-	-
40-44	2.3	2.8	1.8	1.9	2.3	1.5	4.3	5.4	-
45-49	4.5	6.1	2.9	3.8	5.1	2.5	7.4	10.7	4.5
50-54	7.1	9.7	4.6	6.1	8.7	3.5	12.7	17.3	8.8
55-59	11.5	16.4	6.8	10.3	14.9	5.8	14.6	20.9	9.3
60-64	18.6	27.1	10.8	15.4	22.7	8.6	31.6	47.4	19.0
65-69	27.5	40.3	16.5	23.2	35.3	12.6	42.0	64.0	25.5
70-74	40.9	59.4	26.4	34.0	49.9	21.3	63.6	96.7	41.2
75-79	49.8	74.3	32.6	41.8	64.2	26.1	80.5	128.2	50.6
80-84	61.4	88.7	44.9	52.4	77.0	37.6	107.9	140.5	90.9
85+	71.9	106.9	57.2	60.9	92.8	47.9	137.1	164.9	126.5

^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 XXIII-3
STOMACH 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	8.5	12.3	5.9	7.9	11.4	5.6	13.9	21.0	8.6
1976	8.3	12.0	5.7	7.7	11.2	5.4	13.5	20.2	8.6
1977	7.9	11.5	5.4	7.3	10.7	5.0	13.4	19.5	9.0
1978	7.7	11.0	5.5	7.2	10.2	5.1	12.6	18.7	8.3
1979	7.6	11.0	5.2	7.0	10.2	4.8	12.9	18.7	8.7
1980	7.4	10.6	5.1	6.8	9.8	4.8	12.2	18.3	8.0
1981	7.3	10.6	5.0	6.7	9.8	4.6	12.5	18.1	8.6
1982	7.0	10.3	4.9	6.5	9.4	4.5	12.2	19.2	7.4
1983	6.8	9.9	4.8	6.2	9.0	4.4	12.3	18.4	8.1
1984	6.8	9.9	4.7	6.2	9.1	4.3	11.9	17.9	7.9
1985	6.5	9.5	4.4	6.0	8.8	4.1	11.5	17.0	7.8
1986	6.4	9.4	4.2	5.8	8.6	3.8	11.4	17.4	7.4
1987	6.2	9.1	4.2	5.6	8.3	3.8	11.3	17.0	7.5
1988	6.1	8.8	4.2	5.5	7.9	3.8	11.0	17.0	7.1
1989	6.2	9.2	4.2	5.6	8.3	3.8	11.5	17.7	7.3
1990	6.1	8.9	4.2	5.4	8.0	3.7	11.5	17.2	7.7
1991	6.0	8.9	4.0	5.4	8.0	3.6	11.5	17.6	7.5
1992	5.6	8.1	3.9	5.0	7.3	3.4	10.7	15.6	7.5
1993	5.6	8.2	3.8	5.0	7.3	3.4	10.7	16.3	7.1
1994	5.4	7.9	3.7	4.8	7.0	3.3	10.3	15.4	7.0
1995	5.3	7.7	3.7	4.7	6.9	3.2	10.4	14.9	7.4
1996	5.1	7.4	3.5	4.5	6.6	3.1	10.0	15.1	6.8
1997	4.9	7.2	3.4	4.3	6.3	2.9	9.7	14.6	6.5
1998	4.8	6.8	3.4	4.3	6.1	3.0	9.3	13.7	6.4
1999	4.6	6.6	3.3	4.0	5.8	2.8	9.2	13.7	6.5
2000	4.5	6.4	3.2	4.0	5.6	2.8	8.9	12.8	6.5
2001	4.3	6.1	3.1	3.8	5.4	2.7	8.3	12.0	5.8
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DEATH:									
All ages	4.7	6.6	3.3	4.1	5.8	2.8	9.1	13.3	6.3
Under 65	1.5	2.0	1.0	1.3	1.7	0.8	2.9	4.1	1.8
65 and over	26.6	38.3	18.9	23.6	34.3	16.7	52.0	77.0	37.6
All ages(IARC world std) ^b	2.7	3.8	1.8	2.3	3.3	1.6	5.2	7.7	3.5
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DEATH:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	0.1	-	0.1	0.0	-	-	-	-	-
25-29	0.2	0.2	0.2	0.2	0.2	0.2	0.4	-	0.5
30-34	0.4	0.5	0.4	0.3	0.4	0.3	0.8	0.9	0.6
35-39	0.8	0.9	0.7	0.6	0.7	0.5	1.6	1.9	1.3
40-44	1.4	1.6	1.1	1.1	1.3	0.9	2.8	3.6	2.1
45-49	2.3	3.0	1.6	2.0	2.5	1.4	4.1	6.0	2.5
50-54	3.8	5.2	2.4	3.2	4.4	2.0	7.7	11.3	4.7
55-59	6.0	8.5	3.7	5.2	7.3	3.1	11.5	16.9	7.1
60-64	9.7	13.9	5.9	8.3	11.9	5.0	18.4	28.4	10.6
65-69	14.4	20.8	9.0	12.6	18.2	7.8	27.4	42.2	16.5
70-74	20.4	29.3	13.4	18.0	26.0	11.6	39.4	60.2	25.5
75-79	28.2	41.2	19.2	25.0	36.8	16.7	57.3	85.5	40.3
80-84	37.3	54.4	27.3	33.6	48.9	24.5	72.9	114.3	52.4
85+	50.7	71.8	42.1	45.7	65.6	37.7	98.8	130.3	86.9

^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 XXIII-4
STOMACH 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	-	-	-	11	10	13	8	5	14
1970-1973 ^a	-	-	-	13	12	14	13	15	10
1974-1976 ^b	15.3	14.1	17.3	14.6	13.4	16.6	16.3	15.5	17.6
1977-1979 ^b	16.4	15.0	18.6	15.7	14.1	18.2	15.0	14.9	15.2
1980-1982 ^b	17.7	16.6	19.6	16.5	15.6	18.0	19.1	18.2	21.2
1983-1985 ^b	17.4	15.9	19.8	16.3	14.6	19.0	18.9	18.4	19.6
1986-1988 ^b	20.2	17.2	25.2	19.2	16.2	24.3	19.3	15.3	25.7
1989-1991 ^b	21.1	17.6	26.8	18.4	15.1	24.0	24.8	22.3	28.8
1992-1994 ^b	21.8	20.5	24.0	21.0	19.7	23.3	18.9	17.9	20.6
1995-2000 ^b	23.3 ^c	22.1 ^c	25.4 ^c	21.5 ^c	19.9 ^c	24.0 ^c	24.2 ^c	21.4	27.5
1995-2000 ^b									
ALL STAGES	23.3	22.1	25.4	21.5	19.9	24.0	24.2	21.4	27.5
LOCALIZED	58.4	56.4	61.4	54.2	50.7	59.2	63.1	57.0 ^d	67.0 ^d
REGIONAL	22.5	21.5	24.0	20.9	20.1	22.4	22.6	23.0	21.4
DISTANT	3.1	3.0	3.0	2.7	2.6	3.0	2.6	2.2	3.4
UNSTAGED	12.5	13.0	11.7	11.1	11.8	10.1	19.1	16.5 ^d	20.1 ^d
<u>STAGE DISTRIBUTION (%) 1995-2000^b</u>									
ALL STAGES									
Number of cases	10,067	6,193	3,874	7,074	4,444	2,630	1,296	751	545
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	24	23	26	24	23	26	22	21	24
REGIONAL	32	33	30	31	32	28	31	32	29
DISTANT	32	34	29	32	34	29	34	37	29
UNSTAGED	12	10	16	13	11	17	13	10	17
<u>5-YR RELATIVE SURVIVAL RATES, 1995-2000^b</u>									
AGE AT DIAGNOSIS:									
<45	28.0	25.6	31.7	29.8	25.6	36.6	32.1	28.9 ^d	36.9 ^d
45-54	25.4	22.1	32.9	23.3	20.0	32.0	25.3	20.3	33.7 ^d
55-64	23.6	22.5	26.2	21.3	19.8	24.7	23.9	22.8	26.2 ^d
65-74	25.5	24.2	28.0	22.6	21.9	24.3	26.8	23.9	31.2 ^d
75+	19.4	18.3	20.6	18.2	16.4	20.1	16.8	11.3	19.7
Under 65	25.0	22.9	29.4	23.4	20.9	29.4	26.4	23.4	31.9
65 and over	22.3	21.5	23.5	20.3	19.4	21.7	21.8	18.7	24.3

^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.
- Statistic could not be calculated.

Table XXIII-5
STOMACH 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	39.8	42.9	43.6	45.1	43.6	47.0	46.4	46.3	44.6	47.1	45.4	46.3	47.2	46.9	46.3	49.5	47.9	48.0	
2-year	25.6	27.5	28.6	29.1	27.4	32.7	31.7	32.3	30.6	32.4	30.8	33.5	32.1	32.6	33.7	34.7	34.7		
3-year	20.3	21.8	22.3	23.5	21.8	26.4	25.5	25.3	25.2	26.2	24.5	26.9	27.2	27.5	27.2	29.2			
4-year	17.8	19.0	19.6	21.4	19.4	22.7	22.6	22.7	22.7	23.9	21.4	24.4	23.9	24.3	24.3				
5-year	16.2	17.5	18.1	20.3	18.6	21.7	21.3	20.6	21.4	22.7	20.0	22.6	22.7	22.8					
6-year	15.3	16.7	17.2	19.4	17.8	20.6	20.3	18.9	20.0	21.6	19.2	20.8	21.7						
7-year	14.8	16.0	17.0	19.2	16.3	19.9	19.0	18.3	19.6	20.3	18.2	20.1							
8-year	14.2	15.4	16.2	18.9	15.8	19.5	18.8	18.0	19.1	19.3	17.1								
9-year	14.0	15.1	16.0	18.3	15.0	19.5	18.3	17.0	18.5	18.5									
10-year	13.7	15.0	15.3	17.8	14.2	18.8	17.6	16.4	17.9										
11-year	13.2	14.6	15.2	17.2	13.6	18.7	17.4	16.2											
12-year	13.1	14.2	15.2	17.2	13.4	18.4	16.9												
13-year	12.9	14.2	15.2	16.6	13.2	18.4													
14-year	12.5	14.2	15.2	16.3	12.8														
15-year	12.1	13.9	15.2	15.8															
16-year	11.9	13.5	15.2																
17-year	11.8	13.4																	
18-year	11.4																		
19-year	11.4																		
20-year	11.1																		

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

Table XXIII-6
STOMACH 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	39.3	42.5	42.9	42.4	42.4	46.0	47.0	46.2	42.5	45.4	44.3	46.2	48.1	45.0	46.7	50.8	47.7	47.3	
2-year	24.6	26.7	27.7	26.8	24.8	30.4	30.7	31.3	26.9	30.2	28.5	32.6	32.2	29.3	32.5	36.3	34.3		
3-year	19.2	21.0	21.0	21.2	19.4	23.9	23.3	24.0	21.3	24.3	23.1	26.0	26.4	24.5	25.7	30.0			
4-year	16.7	17.9	18.4	18.8	16.7	19.7	19.5	20.9	18.4	22.0	20.4	23.7	23.1	21.9	22.6				
5-year	15.2	16.3	16.1	17.6	15.6	18.4	18.2	18.3	16.4	20.8	18.8	21.7	21.5	20.8					
6-year	14.2	15.4	15.1	16.7	15.3	17.6	17.2	17.2	14.6	19.4	17.7	19.7	20.6						
7-year	13.6	14.7	14.5	16.4	13.7	16.8	15.8	16.5	13.7	18.4	16.2	18.7							
8-year	13.2	14.2	13.8	16.3	12.9	16.6	15.3	16.0	13.0	17.4	15.1								
9-year	13.2	14.0	13.6	15.8	12.5	16.2	14.5	15.2	12.5	16.5									
10-year	12.8	14.0	12.6	15.6	12.1	16.1	14.1	14.5	12.0										
11-year	12.5	13.5	12.2	15.2	11.2	16.0	13.7	13.8											
12-year	12.4	12.9	12.2	15.2	11.2	15.9	13.0												
13-year	12.4	12.9	12.2	15.2	11.1	15.9													
14-year	11.7	12.9	12.2	15.2	10.2														
15-year	11.3	12.8	12.1	15.1															
16-year	11.2	12.3	12.0																
17-year	11.0	12.2																	
18-year	10.4																		
19-year	10.4																		
20-year	10.4																		

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

Table XXIII-7
 STOMACH 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	40.6	43.7	44.7	49.5	45.7	48.8	45.4	46.6	48.0	49.8	47.2	46.4	45.7	50.1	45.6	47.5	48.1	49.1
2-year	27.0	28.9	30.1	32.8	31.6	36.6	33.6	34.0	36.3	36.2	34.7	35.0	32.0	38.0	35.7	32.4	35.2	
3-year	22.0	23.3	24.4	27.3	25.7	30.8	29.3	27.3	31.3	29.4	26.9	28.6	28.5	32.4	29.6	28.0		
4-year	19.6	20.8	21.6	25.7	23.8	27.8	28.0	25.7	29.4	26.9	23.0	25.7	25.5	28.3	27.1			
5-year	17.8	19.4	21.2	24.7	23.5	27.5	26.9	24.1	29.2	25.7	22.1	24.2	24.9	26.1				
6-year	17.1	18.8	20.4	23.8	21.9	25.8	25.8	21.5	28.2	25.4	21.9	22.7	23.6					
7-year	16.7	18.2	20.4	23.8	20.4	25.3	24.8	21.1	28.2	23.3	21.6	22.4						
8-year	15.8	17.4	20.0	23.1	20.4	24.6	24.8	21.0	28.2	22.5	20.7							
9-year	15.1	17.0	19.7	22.3	19.1	24.6	24.7	19.9	27.5	21.7								
10-year	15.0	16.7	19.5	21.4	17.7	23.5	23.8	19.4	26.9									
11-year	14.4	16.2	19.5	20.2	17.4	23.3	23.8	19.4										
12-year	14.1	16.1	19.5	19.8	16.8	22.6	23.8											
13-year	13.6	16.1	19.5	18.3	16.4	22.6												
14-year	13.5	16.0	19.5	17.9	16.4													
15-year	13.4	15.6	19.5	16.9														
16-year	13.0	15.4	19.5															
17-year	12.9	15.3																
18-year	12.9																	
19-year	12.7																	
20-year	12.0																	

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

Table XXIII-8
STOMACH 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	0.00	1.23	0.00	0.00	0.00	0.77
10	0.00	0.00	0.02	1.25	0.00	0.00	0.01	0.78
20	0.00	0.02	0.07	1.25	0.00	0.01	0.04	0.78
30	0.02	0.06	0.19	1.26	0.01	0.04	0.10	0.78
40	0.05	0.18	0.47	1.27	0.03	0.09	0.24	0.78
50	0.13	0.44	0.88	1.27	0.06	0.21	0.44	0.76
60	0.33	0.80	1.14	1.22	0.15	0.40	0.65	0.73

Lifetime Risk of Being Diagnosed = 1.23%
 Lifetime Risk of Dying = 0.60%

Lifetime Risk of Being Diagnosed = 0.77%
 Lifetime Risk of Dying = 0.40%

Whites

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	1.07	0.00	0.00	0.00	0.63
10	0.00	0.00	0.02	1.08	0.00	0.00	0.01	0.64
20	0.00	0.02	0.06	1.09	0.00	0.01	0.04	0.64
30	0.01	0.05	0.17	1.10	0.01	0.04	0.09	0.64
40	0.04	0.16	0.42	1.10	0.03	0.08	0.19	0.63
50	0.12	0.39	0.77	1.09	0.05	0.17	0.36	0.62
60	0.29	0.69	0.98	1.04	0.12	0.32	0.52	0.59

Lifetime Risk of Being Diagnosed = 1.07%
 Lifetime Risk of Dying = 0.54%

Lifetime Risk of Being Diagnosed = 0.63%
 Lifetime Risk of Dying = 0.36%

Blacks

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	1.27	0.00	0.00	0.00	0.99
10	0.00	0.01	0.03	1.30	0.00	0.00	0.01	1.02
20	0.01	0.03	0.10	1.31	0.00	0.01	0.05	1.02
30	0.02	0.09	0.25	1.34	0.01	0.04	0.13	1.03
40	0.07	0.23	0.58	1.36	0.04	0.12	0.31	1.03
50	0.17	0.54	1.05	1.39	0.09	0.28	0.57	1.04
60	0.43	1.02	1.33	1.41	0.22	0.52	0.89	1.04

Lifetime Risk of Being Diagnosed = 1.27%
 Lifetime Risk of Dying = 0.91%

Lifetime Risk of Being Diagnosed = 0.99%
 Lifetime Risk of Dying = 0.67%

Table XXIII-9
STOMACH 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	8.9	12.6	6.1	-1.6 ^d	-2.3 ^d	-0.9
White	7.5	10.8	5.0	-1.8 ^d	-2.3 ^d	-1.3
White Hispanic ^b	13.6	18.4	10.3	-2.2 ^d	-2.9 ^d	-1.4
White Non-Hispanic ^b	6.5	9.7	4.1	-2.2 ^d	-2.5 ^d	-2.1 ^d
Black	13.6	18.8	9.9	-1.4	-2.6 ^d	0.0
Asian/Pacific Islander	16.5	21.9	12.4	-3.3 ^d	-3.5 ^d	-2.7 ^d
Amer Ind/Alaska Nat	11.8	15.7	8.9	2.1	-	-
Hispanic ^b	13.2	17.8	10.0	-2.1 ^d	-2.8 ^d	-1.2

Mortality^c

RACE/ETHNICITY	Rate 1997-2001			Trend 1992-2001		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	4.7	6.6	3.3	-2.9 ^d	-3.4 ^d	-2.6 ^d
White	4.1	5.8	2.8	-3.2 ^d	-3.6 ^d	-2.8 ^d
White Hispanic ^b	7.3	9.9	5.4	-1.9 ^d	-2.1 ^d	-1.6
White Non-Hispanic ^b	3.8	5.4	2.6	-3.3 ^d	-3.7 ^d	-3.1 ^d
Black	9.1	13.3	6.3	-2.6 ^d	-2.9 ^d	-2.3 ^d
Asian/Pacific Islander	9.1	11.9	7.0	-3.6 ^d	-3.5 ^d	-3.6 ^d
Amer Ind/Alaska Nat	5.4	7.3	4.1	-1.5	-1.2	-1.4
Hispanic ^b	7.1	9.7	5.3	-1.8 ^d	-2.0 ^d	-1.6

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 XXIII-10
STOMACH 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	8.9	12.6	6.1	7.5	10.8	5.0	13.6	18.8	9.9
11 registries	8.9	12.6	6.1	7.5	10.8	5.0	13.6	18.8	9.9
9 registries	8.3	11.9	5.6	6.9	10.2	4.5	13.7	19.4	9.8
San Francisco-Oakland	9.3	13.1	6.4	7.5	10.9	4.9	15.1	22.4	10.1
Connecticut	9.0	13.5	5.8	8.7	12.9	5.6	14.8	23.3	9.6
Metropolitan Detroit	9.5	13.7	6.5	8.3	12.2	5.5	14.2	19.8	10.3
Hawaii	15.6	20.5	11.5	9.0	11.1	6.9	-	-	-
Iowa	5.6	8.6	3.3	5.4	8.3	3.2	-	-	-
New Mexico	7.9	11.1	5.6	7.5	10.6	5.1	-	-	-
Seattle-Puget Sound	7.1	10.5	4.5	6.3	9.6	3.7	12.8	16.5	-
Utah	5.4	7.3	3.9	5.3	7.1	3.9	-	-	-
Metropolitan Atlanta	6.8	9.3	5.0	4.6	6.5	3.3	12.1	17.0	9.2
San Jose-Monterey	8.5	11.4	6.2	7.3	9.9	5.1	-	-	-
Los Angeles	11.0	15.2	7.9	9.5	13.3	6.8	13.3	17.5	10.3
<u>SEER DEATH RATES^b, 1997-2001</u>									
REGISTRY									
12 registries	5.4	7.5	3.8	4.5	6.4	3.2	8.7	12.3	6.2
11 registries	5.4	7.5	3.8	4.5	6.4	3.2	8.7	12.3	6.2
9 registries	4.9	6.9	3.5	4.1	5.9	2.9	8.5	12.0	6.1
San Francisco-Oakland	5.8	8.0	4.2	4.7	6.6	3.3	10.8	17.2	6.4
Connecticut	5.4	7.8	3.6	5.2	7.6	3.5	9.3	14.6	6.1
Metropolitan Detroit	5.3	7.1	4.0	4.6	6.3	3.4	7.9	10.1	6.2
Hawaii	9.0	12.0	6.5	5.0	5.7	4.2	-	-	-
Iowa	3.1	4.7	1.9	3.0	4.6	1.8	-	-	-
New Mexico	5.3	7.0	4.0	4.8	6.4	3.6	-	-	-
Seattle-Puget Sound	4.0	5.8	2.7	3.5	5.3	2.2	8.5	-	-
Utah	3.6	4.6	2.8	3.4	4.3	2.8	-	-	-
Metropolitan Atlanta	4.6	6.4	3.4	3.2	4.8	2.2	8.0	10.8	6.3
San Jose-Monterey	5.2	7.1	3.8	4.3	5.8	3.0	-	-	-
Los Angeles	6.8	9.6	4.8	6.0	8.4	4.4	9.0	13.0	6.3

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 XXIII-11
STOMACH 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.	4.7	0.02		
High Five States				
Hawaii	9.0 ^{bc}	0.38	(01)	91.5
District of Columbia	7.7 ^{bc}	0.53	(02)	63.8
Rhode Island	6.1 ^{bc}	0.32	(03)	29.8
Alaska	6.0 ^b	0.65	(04)	27.7
New Jersey	5.8 ^{bc}	0.12	(05)	23.4
Low Five States				
Montana	3.4 ^{bc}	0.27	(47)	-27.7
Kansas	3.4 ^{bc}	0.16	(48)	-27.7
Nebraska	3.2 ^{bc}	0.19	(49)	-31.9
Iowa	3.1 ^{bc}	0.14	(50)	-34.0
Idaho	3.0 ^{bc}	0.23	(51)	-36.2

Males

State	Rate	SE	Rank	PD
TOTAL U.S.	6.6	0.03		
High Five States				
Hawaii	12.0 ^{bc}	0.66	(01)	81.8
District of Columbia	10.6 ^{bc}	1.01	(02)	60.6
Alaska	9.2 ^b	1.32	(03)	39.4
Rhode Island	8.7 ^b	0.62	(04)	31.8
New Jersey	8.3 ^{bc}	0.22	(05)	25.8
Low Five States				
Iowa	4.7 ^{bc}	0.26	(47)	-28.8
Utah	4.6 ^{bc}	0.39	(48)	-30.3
Nebraska	4.6 ^{bc}	0.35	(49)	-30.3
Wyoming	4.5 ^b	0.67	(50)	-31.8
Idaho	3.8 ^{bc}	0.39	(51)	-42.4

Females

State	Rate	SE	Rank	PD
TOTAL U.S.	3.3	0.02		
High Five States				
Hawaii	6.5 ^{bc}	0.44	(01)	97.0
District of Columbia	5.8 ^{bc}	0.58	(02)	75.8
Rhode Island	4.4 ^b	0.35	(03)	33.3
New York	4.2 ^{bc}	0.09	(04)	27.3
New Jersey	4.1 ^{bc}	0.13	(05)	24.2
Low Five States				
Montana	2.2 ^{bc}	0.29	(47)	-33.3
Missouri	2.2 ^{bc}	0.11	(48)	-33.3
Kansas	2.2 ^{bc}	0.17	(49)	-33.3
Nebraska	2.2 ^{bc}	0.20	(50)	-33.3
Iowa	1.9 ^{bc}	0.14	(51)	-42.4

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 XXIII-12
STOMACH 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
<u>Race/Sex</u>									
All Races ^b	29,431	11,709	7,320	4,576	2,574	42,701	55,827	3,372	59,199
Males	17,724	6,478	3,873	2,448	1,451	24,999	32,088	1,953	34,041
Females	11,707	5,231	3,447	2,128	1,123	17,702	23,739	1,419	25,158
White ^b	22,534	8,958	5,560	3,529	2,134	32,585	42,890	2,734	45,624
Males	13,816	4,975	3,003	1,923	1,211	19,361	25,022	1,510	26,532
Females	8,718	3,983	2,557	1,606	923	13,224	17,868	1,224	19,092
Black ^b	4,254	1,639	1,027	723	235	6,159	7,907	445	8,352
Males	2,346	928	499	378	144	3,409	4,305	262	4,567
Females	1,908	711	528	345	91	2,750	3,602	183	3,785
Asian/Pacific Islander ^c	2,291	974	+	+	+	3,410	+	+	+
Males	1,350	547	+	+	+	1,979	+	+	+
Females	941	427	+	+	+	1,431	+	+	+
Hispanic ^d	3,056	1,146	+	+	+	4,378	+	+	+
Males	1,694	587	+	+	+	2,367	+	+	+
Females	1,362	559	+	+	+	2,011	+	+	+

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
<u>Race/Sex</u>											
All Races ^c	0.0159%	-	0.0001%	0.0005%	0.0028%	0.0084%	0.0211%	0.0524%	0.0973%	0.1170%	0.0176%
Males	0.0188%	-	-	0.0004%	0.0029%	0.0098%	0.0281%	0.0725%	0.1348%	0.1601%	0.0238%
Females	0.0131%	-	-	0.0005%	0.0026%	0.0071%	0.0144%	0.0345%	0.0692%	0.0942%	0.0129%
White ^c	0.0134%	-	-	0.0004%	0.0023%	0.0068%	0.0170%	0.0436%	0.0741%	0.0934%	0.0140%
Males	0.0159%	-	-	0.0003%	0.0025%	0.0077%	0.0227%	0.0614%	0.1038%	0.1283%	0.0190%
Females	0.0110%	-	-	0.0004%	0.0022%	0.0058%	0.0114%	0.0276%	0.0516%	0.0752%	0.0101%
Black ^c	0.0156%	-	-	0.0012%	0.0034%	0.0146%	0.0281%	0.0629%	0.1333%	0.1413%	0.0234%
Males	0.0181%	-	-	-	0.0036%	0.0182%	0.0389%	0.0886%	0.1898%	0.1461%	0.0308%
Females	0.0133%	-	-	-	0.0033%	0.0115%	0.0191%	0.0426%	0.0961%	0.1391%	0.0179%
Asian/Pacific Islander ^c	0.0335%	-	-	-	0.0046%	0.0142%	0.0437%	0.1030%	0.2449%	0.3319%	0.0410%
Males	0.0401%	-	-	-	0.0045%	0.0170%	0.0587%	0.1403%	0.3354%	0.4245%	0.0543%
Females	0.0272%	-	-	-	0.0047%	0.0117%	0.0306%	0.0726%	0.1769%	0.2675%	0.0308%
Hispanic ^d	0.0112%	-	-	0.0004%	0.0047%	0.0121%	0.0276%	0.0667%	0.1259%	0.2042%	0.0250%
Males	0.0117%	-	-	-	0.0044%	0.0125%	0.0307%	0.0886%	0.1674%	0.2675%	0.0316%
Females	0.0107%	-	-	-	0.0050%	0.0116%	0.0249%	0.0486%	0.0963%	0.1699%	0.0204%

^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, Delay Adjusted Incidence and US Death Rates+ Stomach Cancer, by Race and Sex

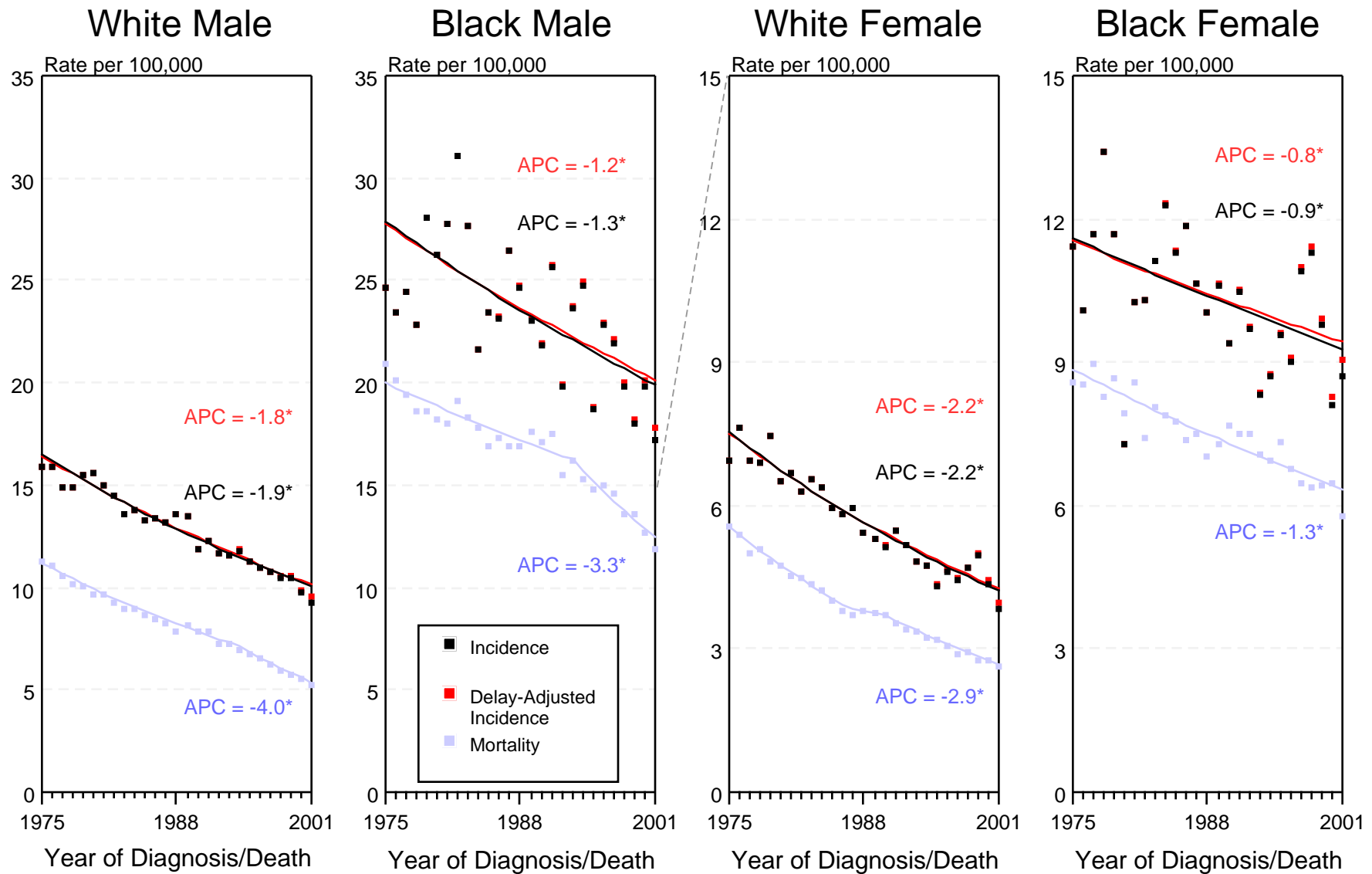


Figure XXIII-1

+ 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 and APCs are calculated using the Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute.

The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

* The APC is significantly different from zero ($p < 0.05$).