

Table XXI-1
PANCREAS 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	-0.3 ^c						
All Races	Male	1975-1978	-2.8	1978-2001	-0.5 ^c				
All Races	Female	1975-1984	1.4 ^c	1984-2001	-0.4 ^c				
White	Male and Female	1975-2001	-0.3 ^c						
White	Male	1975-1978	-2.9	1978-1994	-0.8 ^c	1994-2001	0.2		
White	Female	1975-1984	1.3 ^c	1984-2001	-0.5 ^c				
Black	Male and Female	1975-1997	0.1	1997-2001	-5.0				
Black	Male	1975-2001	-0.7 ^c						
Black	Female	1975-2001	0.0						
<u>SEER Delay-Adjusted Incidence^a</u>									
All Races	Male and Female	1975-1978	-2.2	1978-1984	1.3 ^c	1984-1989	-1.4	1989-2001	0.0
All Races	Male	1975-1993	-0.8 ^c	1993-2001	0.2				
All Races	Female	1975-1984	1.3 ^c	1984-2001	-0.3 ^c				
White	Male and Female	1975-1978	-2.7	1978-1984	1.3	1984-1988	-1.9	1988-2001	0.0
White	Male	1975-1981	-2.3 ^c	1981-1984	1.7	1984-1993	-1.4 ^c	1993-2001	0.7 ^c
White	Female	1975-1984	1.2 ^c	1984-2001	-0.3 ^c				
Black	Male and Female	1975-2001	-0.2						
Black	Male	1975-2001	-0.6 ^c						
Black	Female	1975-2001	0.1						
<u>U.S. Cancer Mortality^b</u>									
All Races	Male and Female	1975-2001	-0.1 ^c						
All Races	Male	1975-1986	-0.8 ^c	1986-2001	-0.3 ^c				
All Races	Female	1975-1984	0.8 ^c	1984-2001	0.1				
White	Male and Female	1975-1997	-0.2 ^c	1997-2001	0.5				
White	Male	1975-1986	-1.0 ^c	1986-2001	-0.2 ^c				
White	Female	1975-1983	0.7 ^c	1983-2001	0.1				
Black	Male and Female	1975-1990	1.1 ^c	1990-2001	-0.8 ^c				
Black	Male	1975-1992	0.5 ^c	1992-2001	-1.6 ^c				
Black	Female	1975-1986	2.4 ^c	1986-2001	-0.2				

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 XXI-2
 PANCREAS 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	11.8	15.6	9.1	11.7	15.6	8.9	15.9	18.0	13.9
1976	12.0	14.8	9.9	11.8	14.5	9.8	17.6	22.7	14.0
1977	11.9	14.8	9.8	11.6	14.6	9.5	17.1	19.4	15.2
1978	11.1	14.1	8.9	10.8	13.9	8.6	15.1	20.0	11.5
1979	11.5	14.2	9.7	11.2	13.8	9.4	16.1	19.1	13.7
1980	11.5	14.2	9.6	11.1	13.7	9.2	17.9	21.8	15.5
1981	11.7	13.5	10.2	11.4	13.3	9.9	17.2	20.9	14.1
1982	11.7	13.8	10.2	11.4	13.4	9.9	16.9	21.0	14.0
1983	12.2	14.7	10.5	11.8	14.1	10.1	18.1	23.1	14.9
1984	12.2	13.9	10.9	12.0	13.8	10.6	17.2	18.4	16.3
1985	12.1	14.3	10.5	11.7	13.6	10.3	18.7	24.9	14.6
1986	11.7	13.8	10.2	11.4	13.5	9.8	17.4	20.2	15.7
1987	11.6	13.9	10.1	11.1	13.4	9.6	18.5	19.0	18.0
1988	11.7	13.7	10.2	11.1	13.4	9.6	18.6	19.6	17.4
1989	11.3	12.9	10.1	11.0	12.7	9.7	14.9	16.0	13.9
1990	11.3	12.8	10.1	11.0	12.5	9.9	15.2	18.8	12.6
1991	11.4	12.9	10.2	11.0	12.6	9.8	17.0	18.2	16.2
1992	11.6	13.2	10.3	11.3	12.9	10.0	17.3	19.8	15.8
1993	11.0	12.6	9.7	10.5	12.0	9.3	16.8	18.9	15.1
1994	11.4	13.2	9.9	10.9	12.3	9.7	17.5	21.5	14.6
1995	11.1	12.7	10.0	10.7	12.3	9.6	18.1	20.3	16.3
1996	11.3	12.9	9.9	10.9	12.5	9.6	17.1	19.8	14.9
1997	11.4	13.0	10.2	11.0	12.5	9.7	17.9	19.4	16.5
1998	11.5	13.1	10.2	11.2	13.0	9.8	14.7	16.2	13.9
1999	11.1	12.6	9.8	10.7	12.2	9.3	16.7	19.5	14.6
2000	11.2	13.1	9.7	10.9	12.7	9.4	15.7	18.2	13.2
2001	10.7	12.4	9.5	10.5	12.4	9.0	13.5	14.2	12.8
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
All ages	11.2	12.8	9.9	10.9	12.6	9.5	15.6	17.4	14.2
Under 65	3.7	4.6	3.0	3.6	4.4	2.8	5.9	7.3	4.7
65 and over	62.6	70.1	57.5	61.2	69.0	55.8	82.7	87.2	79.5
All ages(IARC world std) ^b	6.8	7.9	5.9	6.6	7.8	5.6	9.9	11.3	8.7
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-
25-29	-	-	-	-	-	-	-	-	-
30-34	0.3	-	-	-	-	-	-	-	-
35-39	1.1	1.3	0.9	0.9	1.1	0.7	2.1	-	-
40-44	2.4	2.9	1.8	2.2	2.9	1.5	3.7	-	-
45-49	5.2	6.8	3.6	4.9	6.6	3.2	8.3	10.5	6.5
50-54	10.2	12.7	7.7	9.8	12.1	7.5	16.4	22.5	11.3
55-59	16.9	20.3	13.6	15.7	18.8	12.7	27.4	34.7	21.3
60-64	28.6	33.7	24.0	27.8	33.4	22.5	42.7	48.4	38.0
65-69	42.5	49.1	36.7	41.7	48.5	35.6	60.5	69.3	54.0
70-74	55.7	62.1	50.7	54.8	61.2	49.6	75.2	82.8	70.1
75-79	69.7	74.8	66.1	68.1	74.7	63.6	93.4	97.0	91.2
80-84	83.0	95.0	75.7	81.1	94.7	73.0	104.2	102.2	105.3
85+	85.6	95.6	81.4	82.9	90.7	79.7	103.9	101.5	104.8

^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 XXI-3
 PANCREAS 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	10.7	13.8	8.4	10.5	13.6	8.3	12.8	16.3	10.1
1976	10.7	13.6	8.6	10.5	13.4	8.4	12.9	16.0	10.5
1977	10.9	13.9	8.8	10.7	13.6	8.6	13.2	17.1	10.3
1978	10.8	13.6	8.8	10.6	13.5	8.6	12.9	15.9	10.7
1979	10.7	13.4	8.8	10.5	13.3	8.6	13.4	15.9	11.6
1980	10.6	13.1	8.8	10.4	12.8	8.6	13.8	16.5	11.8
1981	10.7	13.2	8.9	10.5	12.9	8.8	13.4	17.0	10.8
1982	10.6	13.1	8.8	10.3	12.8	8.6	14.1	17.1	11.9
1983	10.7	12.8	9.1	10.4	12.4	8.9	14.8	18.1	12.5
1984	10.8	13.0	9.2	10.5	12.6	8.9	15.0	17.5	13.1
1985	10.6	12.9	9.0	10.3	12.5	8.8	14.4	17.3	12.4
1986	10.6	12.5	9.2	10.3	12.2	8.9	14.6	16.7	13.0
1987	10.6	12.5	9.2	10.3	12.2	8.9	14.6	17.4	12.6
1988	10.5	12.5	9.0	10.1	12.2	8.6	14.5	17.1	12.7
1989	10.6	12.6	9.2	10.3	12.2	8.8	15.0	17.7	13.2
1990	10.7	12.6	9.3	10.3	12.2	8.9	15.2	18.1	13.2
1991	10.7	12.6	9.3	10.4	12.3	9.0	14.5	16.9	12.8
1992	10.7	12.6	9.3	10.3	12.2	8.9	15.4	18.2	13.4
1993	10.7	12.4	9.4	10.3	12.1	9.0	15.0	17.6	13.3
1994	10.6	12.4	9.3	10.3	12.0	9.0	15.2	17.7	13.4
1995	10.4	12.1	9.2	10.2	11.9	8.9	13.9	15.8	12.5
1996	10.5	12.1	9.2	10.2	11.8	8.9	14.4	16.4	13.0
1997	10.5	12.2	9.1	10.2	12.0	8.8	14.6	16.4	13.1
1998	10.5	12.3	9.2	10.2	12.0	8.8	14.5	16.5	13.1
1999	10.6	12.3	9.3	10.4	12.1	9.0	14.2	16.6	12.4
2000	10.5	12.1	9.3	10.3	12.0	9.0	14.0	15.8	12.7
2001	10.5	12.1	9.3	10.4	12.0	9.0	13.7	15.0	12.5
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DEATH:									
All ages	10.5	12.2	9.2	10.3	12.0	8.9	14.2	16.0	12.8
Under 65	3.1	3.9	2.5	3.0	3.8	2.4	4.6	5.7	3.6
65 and over	61.6	69.8	55.8	60.4	69.0	54.3	80.5	87.2	75.8
All ages(IARC world std) ^b	6.2	7.3	5.2	6.0	7.1	5.1	8.5	9.9	7.4
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DEATH:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-
25-29	0.1	0.1	0.1	0.1	0.1	-	-	-	-
30-34	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	-
35-39	0.7	0.8	0.6	0.7	0.8	0.5	1.1	1.3	0.9
40-44	1.8	2.2	1.5	1.8	2.1	1.4	2.5	3.0	2.2
45-49	4.2	5.3	3.1	4.0	5.1	2.9	6.2	8.1	4.6
50-54	8.5	10.7	6.4	8.2	10.3	6.1	12.8	16.7	9.5
55-59	15.1	18.7	11.8	14.5	18.0	11.3	22.8	28.9	17.9
60-64	24.7	29.9	20.0	24.1	29.3	19.3	34.4	41.6	28.7
65-69	37.1	44.1	31.0	36.2	43.4	29.9	50.2	58.5	44.0
70-74	52.0	59.8	45.9	50.8	58.8	44.5	70.3	79.8	64.0
75-79	67.6	76.9	61.1	66.3	76.1	59.5	88.9	99.5	82.5
80-84	84.1	94.3	78.1	82.9	93.4	76.6	106.3	115.6	101.7
85+	98.9	106.3	96.0	97.3	106.3	93.6	123.9	111.4	128.6

^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 XXI-4
PANCREAS 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	-	-	-	1	1	2	1	0	3
1970-1973 ^a	-	-	-	2	2	2	2	0	3
1974-1976 ^b	2.6	3.0	2.2	2.6	3.1	2.1	2.8	2.4	3.1
1977-1979 ^b	2.4	2.2	2.6	2.3	2.1	2.4	3.8	2.8	4.8
1980-1982 ^b	3.0	2.5	3.4	2.8	2.5	3.0	4.5	3.2	5.8
1983-1985 ^b	3.3	2.8	3.7	2.9	2.6	3.2	5.0	4.4	5.5
1986-1988 ^b	3.6	3.4	3.8	3.2	3.0	3.4	6.0	6.1	6.0
1989-1991 ^b	4.0	3.6	4.4	4.1	3.9	4.4	3.9	3.1	4.6
1992-1994 ^b	4.6	4.3	4.8	4.7	4.2	5.1	3.7	4.4	3.1
1995-2000 ^b	4.4 ^c	4.2 ^c	4.6 ^c	4.2 ^c	4.3 ^c	4.2 ^c	3.8 ^c	2.7	4.8
1995-2000 ^b									
ALL STAGES	4.4	4.2	4.6	4.2	4.3	4.2	3.8	2.7	4.8
LOCALIZED	15.2	13.5	16.7	13.9	13.4	14.3	16.4	9.2 ^d	20.5 ^d
REGIONAL	6.8	6.6	6.9	6.9	7.2	6.6	4.6	3.0	6.3
DISTANT	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.6	1.5
UNSTAGED	3.8	4.2	3.5	3.4	4.3	2.8	4.3	2.9	5.2

STAGE DISTRIBUTION (%) 1995-2000^b

ALL STAGES									
Number of cases	13,212	6,400	6,812	10,651	5,175	5,476	1,540	715	825
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	8	7	8	7	7	8	8	7	9
REGIONAL	26	26	26	26	25	26	24	25	23
DISTANT	52	54	49	51	55	48	54	57	51
UNSTAGED	15	13	17	16	13	18	14	11	16

5-YR RELATIVE SURVIVAL RATES, 1995-2000^b

AGE AT DIAGNOSIS:									
<45	15.5	13.0	19.0	15.6	13.0	19.6	12.9	10.9 ^d	16.0 ^d
45-54	7.6	5.9	10.7	7.8	6.5	10.1	5.0	1.3	11.2
55-64	4.1	4.0	4.3	4.1	4.1	4.0	3.1	3.0	3.2
65-74	3.5	3.1	3.8	3.3	3.3	3.4	3.5	1.9	4.5
75+	2.8	2.7	2.7	2.6	2.6	2.5	1.6	-	2.4
Under 65	6.4	5.5	7.8	6.4	5.8	7.4	5.0	3.7	7.3
65 and over	3.1	3.0	3.2	3.0	3.0	2.9	2.7	1.2	3.4

- ^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 XXI-5
PANCREAS 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	15.2	17.2	16.3	18.3	18.9	18.4	19.9	19.5	20.1	20.3	18.5	19.9	18.6	19.9	21.2	20.8	23.6	23.2
2-year	6.1	6.7	6.5	6.5	8.1	7.0	7.8	8.4	9.3	9.0	8.6	9.4	8.5	9.9	9.9	8.8	10.5	
3-year	3.7	4.3	5.2	4.5	5.8	4.7	4.8	5.5	6.5	5.9	5.4	6.8	5.4	6.6	6.9	5.6		
4-year	3.0	3.5	4.0	3.5	4.8	3.8	3.9	4.3	5.3	5.2	4.5	5.5	4.0	5.1	5.5			
5-year	2.5	3.1	3.4	2.9	4.2	3.7	3.4	3.9	4.8	4.7	3.7	5.2	3.6	4.5				
6-year	2.3	2.8	2.9	2.7	3.8	3.5	3.0	3.9	4.4	4.7	3.5	4.5	3.2					
7-year	2.2	2.6	2.8	2.6	3.4	3.3	2.8	3.5	4.1	4.1	3.4	4.1						
8-year	1.9	2.4	2.6	2.4	3.3	3.0	2.3	3.5	3.9	4.0	3.4							
9-year	1.9	2.3	2.3	2.4	3.3	2.7	2.1	3.2	3.9	3.7								
10-year	1.8	2.1	2.3	2.4	3.3	2.5	2.1	2.9	3.5									
11-year	1.8	2.1	2.2	2.4	3.3	2.5	2.1	2.9										
12-year	1.8	2.1	2.1	2.4	3.2	2.5	2.1											
13-year	1.7	2.0	2.0	2.4	2.7	2.5												
14-year	1.7	2.0	2.0	2.4	2.7													
15-year	1.7	1.9	1.8	1.9														
16-year	1.7	1.9	1.8															
17-year	1.6	1.9																
18-year	1.6																	
19-year	1.5																	
20-year	1.5																	

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

Table XXI-6
PANCREAS 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	15.2	16.1	15.9	18.3	18.2	18.9	18.7	19.3	19.9	17.6	17.3	20.4	17.9	21.3	22.9	20.2	24.5	23.2	
2-year	6.0	6.2	6.3	5.9	7.6	7.3	6.0	8.6	9.0	8.5	7.8	9.8	7.4	11.4	9.8	9.2	9.6		
3-year	3.5	3.9	4.9	3.8	5.4	4.9	3.7	5.3	6.7	5.3	4.8	7.8	4.1	7.6	6.7	5.8			
4-year	2.9	3.1	3.7	2.9	4.1	3.8	2.8	3.8	5.5	4.7	3.7	6.1	3.4	6.2	5.5				
5-year	2.6	2.6	2.7	2.2	4.1	3.6	2.5	3.4	5.0	4.1	3.0	5.7	2.8	5.5					
6-year	2.4	2.4	2.2	1.9	3.6	3.3	2.0	3.4	4.6	4.0	2.6	5.1	2.5						
7-year	2.3	2.0	2.2	1.8	3.1	3.2	2.0	3.2	4.1	3.4	2.4	4.6							
8-year	2.0	1.9	2.0	1.6	3.1	2.7	1.9	3.2	4.0	3.2	2.2								
9-year	1.9	1.8	1.6	1.5	3.1	2.4	1.5	2.9	4.0	3.0									
10-year	1.8	1.7	1.6	1.4	3.1	2.0	1.5	2.5	3.6										
11-year	1.8	1.7	1.5	1.4	3.1	1.9	1.5	2.4											
12-year	1.8	1.7	1.5	1.4	3.1	1.9	1.5												
13-year	1.8	1.6	1.5	1.4	2.4	1.9													
14-year	1.8	1.6	1.5	1.4	2.4														
15-year	1.8	1.5	1.5	0.7															
16-year	1.8	1.5	1.5																
17-year	1.8	1.5																	
18-year	1.6																		
19-year	1.6																		
20-year	1.5																		

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

Table XXI-7
PANCREAS 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	15.3	18.3	16.7	18.2	19.5	17.9	21.0	19.6	20.4	22.7	19.6	19.4	19.3	18.6	19.7	21.3	22.8	23.2
2-year	6.3	7.1	6.7	7.2	8.6	6.6	9.5	8.2	9.5	9.5	9.4	9.0	9.4	8.4	9.9	8.3	11.3	
3-year	3.9	4.7	5.4	5.2	6.2	4.5	5.9	5.7	6.3	6.3	5.8	5.8	6.5	5.7	7.1	5.5		
4-year	3.0	3.9	4.3	4.1	5.4	3.8	5.0	4.7	5.2	5.5	5.3	5.0	4.6	4.1	5.6			
5-year	2.5	3.5	3.9	3.6	4.2	3.7	4.2	4.5	4.6	5.2	4.4	4.7	4.3	3.5				
6-year	2.3	3.2	3.5	3.4	3.9	3.7	4.0	4.2	4.2	5.2	4.4	4.0	3.9					
7-year	2.1	3.1	3.3	3.3	3.7	3.5	3.5	3.7	4.2	4.7	4.3	3.6						
8-year	1.9	2.9	3.2	3.2	3.6	3.3	2.7	3.7	3.8	4.7	4.3							
9-year	1.8	2.7	2.9	3.2	3.5	3.0	2.7	3.5	3.8	4.3								
11-year	1.8	2.6	2.9	3.2	3.5	3.0	2.7	3.3	3.5									
10-year	1.8	2.4	2.9	3.2	3.2	3.0	2.5	3.3										
12-year	1.8	2.4	2.5	3.2	3.2	3.0	2.4											
13-year	1.6	2.3	2.3	3.2	3.0	3.0												
14-year	1.5	2.3	2.2	3.2	3.0													
15-year	1.4	2.3	2.1	3.0														
16-year	1.4	2.2	1.9															
17-year	1.4	2.2																
18-year	1.4																	
19-year	1.4																	
20-year	1.4																	

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

Table XXI-8
PANCREAS 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	1.24	0.00	0.00	0.00	1.23
10	0.00	0.00	0.01	1.26	0.00	0.00	0.01	1.24
20	0.00	0.01	0.05	1.27	0.00	0.01	0.04	1.24
30	0.01	0.05	0.20	1.28	0.01	0.03	0.13	1.25
40	0.05	0.19	0.52	1.29	0.03	0.13	0.38	1.25
50	0.15	0.49	0.93	1.29	0.10	0.36	0.78	1.25
60	0.37	0.84	1.16	1.23	0.27	0.71	1.09	1.20

Lifetime Risk of Being Diagnosed = 1.24%
 Lifetime Risk of Dying = 1.16%

Lifetime Risk of Being Diagnosed = 1.23%
 Lifetime Risk of Dying = 1.17%

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	1.25	0.00	0.00	0.00	1.20
10	0.00	0.00	0.01	1.26	0.00	0.00	0.01	1.21
20	0.00	0.01	0.05	1.27	0.00	0.01	0.03	1.21
30	0.01	0.05	0.19	1.28	0.01	0.03	0.13	1.22
40	0.05	0.19	0.52	1.29	0.03	0.12	0.37	1.22
50	0.15	0.49	0.94	1.29	0.10	0.35	0.76	1.22
60	0.36	0.85	1.17	1.22	0.26	0.69	1.06	1.17

Lifetime Risk of Being Diagnosed = 1.25%
 Lifetime Risk of Dying = 1.17%

Lifetime Risk of Being Diagnosed = 1.20%
 Lifetime Risk of Dying = 1.16%

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	1.25	0.00	0.00	0.00	1.35
10	0.00	0.01	0.02	1.29	0.00	0.00	0.01	1.38
20	0.00	0.02	0.09	1.30	0.00	0.01	0.05	1.39
30	0.02	0.09	0.32	1.33	0.01	0.05	0.18	1.40
40	0.08	0.31	0.74	1.35	0.04	0.18	0.52	1.41
50	0.25	0.72	1.14	1.37	0.14	0.50	0.98	1.42
60	0.54	1.04	1.25	1.30	0.40	0.92	1.30	1.41

Lifetime Risk of Being Diagnosed = 1.25%
 Lifetime Risk of Dying = 1.14%

Lifetime Risk of Being Diagnosed = 1.35%
 Lifetime Risk of Dying = 1.32%

Table XXI-9
PANCREAS 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	11.0	12.6	9.7	-0.5	-0.4	-0.6
White	10.8	12.5	9.4	-0.3	0.0	-0.6
White Hispanic ^b	10.1	10.7	9.6	-0.8	-1.3	-0.5
White Non-Hispanic ^b	10.7	12.5	9.2	-0.2	0.3	-0.8
Black	15.4	17.1	13.9	-2.2 ^d	-2.0 ^d	-2.5 ^d
Asian/Pacific Islander	9.3	10.2	8.6	-0.4	-2.9 ^d	2.3 ^d
Amer Ind/Alaska Nat	8.3	8.3	8.4	-	-	-
Hispanic ^b	9.8	10.4	9.4	-0.8	-1.3	-0.4

Mortality^c

RACE/ETHNICITY	Rate 1997-2001			Trend 1992-2001		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	10.5	12.2	9.2	-0.1	-0.3 ^d	-0.1
White	10.3	12.0	8.9	0.0	-0.1	0.0
White Hispanic ^b	8.5	9.6	7.7	-0.2	-0.7	0.1
White Non-Hispanic ^b	10.3	12.0	8.9	0.1	0.0	0.1
Black	14.2	16.0	12.8	-1.1 ^d	-1.6 ^d	-0.7 ^d
Asian/Pacific Islander	7.3	8.1	6.6	-0.8	-2.2 ^d	0.6
Amer Ind/Alaska Nat	6.2	6.5	5.9	0.0	1.8	-0.9
Hispanic ^b	8.4	9.4	7.5	-0.1	-0.5	0.1

- 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 XXI-10
PANCREAS 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	11.0	12.6	9.7	10.8	12.5	9.4	15.4	17.1	13.9
11 registries	11.0	12.6	9.7	10.8	12.5	9.4	15.4	17.1	13.9
9 registries	11.2	12.8	9.9	10.9	12.6	9.5	15.6	17.4	14.2
San Francisco-Oakland	10.4	11.6	9.5	10.5	11.9	9.3	15.1	14.6	15.2
Connecticut	11.7	13.4	10.4	11.6	13.2	10.2	13.8	15.8	12.3
Metropolitan Detroit	13.1	14.7	11.8	12.2	13.7	11.0	17.1	19.4	15.3
Hawaii	12.3	13.9	11.1	11.0	13.2	9.0	-	-	-
Iowa	10.7	12.9	8.9	10.5	12.7	8.8	26.5	36.2	-
New Mexico	9.9	11.6	8.4	9.9	11.8	8.4	-	-	-
Seattle-Puget Sound	11.7	13.3	10.4	11.7	13.4	10.3	17.6	18.9	15.9
Utah	8.3	10.1	6.9	8.3	10.1	6.9	-	-	-
Metropolitan Atlanta	10.3	12.1	8.8	9.2	10.9	7.7	13.9	16.4	12.2
San Jose-Monterey	10.2	11.2	9.4	10.5	11.6	9.6	16.1	-	-
Los Angeles	10.6	12.1	9.4	10.7	12.4	9.3	14.7	16.0	13.4
<u>SEER DEATH RATES^b, 1997-2001</u>									
REGISTRY									
12 registries	10.3	11.7	9.2	10.2	11.7	9.0	14.3	15.7	13.1
11 registries	10.3	11.7	9.2	10.2	11.7	9.0	14.3	15.7	13.1
9 registries	10.5	11.9	9.3	10.3	11.8	9.0	14.8	16.1	13.5
San Francisco-Oakland	10.1	11.2	9.3	10.3	11.4	9.2	15.8	15.8	15.5
Connecticut	10.9	12.5	9.7	10.8	12.4	9.5	14.3	16.0	13.1
Metropolitan Detroit	11.7	13.1	10.6	11.0	12.6	9.9	15.0	15.9	14.0
Hawaii	10.3	11.5	9.3	9.7	11.0	8.5	-	-	-
Iowa	10.2	12.2	8.5	10.0	12.0	8.4	24.1	-	-
New Mexico	9.5	10.6	8.4	9.5	10.6	8.5	-	-	-
Seattle-Puget Sound	10.9	12.2	9.9	11.1	12.3	10.0	16.2	17.9	14.3
Utah	8.1	9.9	6.5	8.0	9.7	6.5	-	-	-
Metropolitan Atlanta	10.3	12.3	8.8	9.2	11.3	7.8	13.6	16.0	11.8
San Jose-Monterey	9.7	10.6	9.0	10.3	11.2	9.6	-	-	-
Los Angeles	10.0	11.5	8.8	10.1	11.9	8.8	13.4	14.7	12.3

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 XXI-11
PANCREAS 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.	10.5	0.03		
High Five States				
District of Columbia	13.0 ^{bc}	0.68	(01)	23.8
Louisiana	12.5 ^{bc}	0.25	(02)	19.0
Rhode Island	11.8	0.45	(03)	12.4
Mississippi	11.6	0.29	(04)	10.5
South Carolina	11.6 ^c	0.25	(05)	10.5
Low Five States				
New Mexico	9.5	0.34	(47)	-9.5
Idaho	9.3	0.40	(48)	-11.4
Arizona	9.3 ^c	0.19	(49)	-11.4
West Virginia	9.1 ^c	0.29	(50)	-13.3
Utah	8.1 ^{bc}	0.33	(51)	-22.9

Males

State	Rate	SE	Rank	PD
TOTAL U.S.	12.2	0.05		
High Five States				
District of Columbia	15.5 ^b	1.22	(01)	27.0
Louisiana	15.2 ^{bc}	0.44	(02)	24.6
Mississippi	13.9 ^b	0.51	(03)	13.9
Rhode Island	13.8 ^b	0.77	(04)	13.1
South Carolina	13.6 ^b	0.43	(05)	11.5
Low Five States				
Nevada	10.7 ^b	0.56	(47)	-12.3
Arizona	10.6 ^{bc}	0.31	(48)	-13.1
New Mexico	10.6 ^b	0.54	(49)	-13.1
Idaho	10.0 ^b	0.63	(50)	-18.0
Utah	9.9 ^{bc}	0.55	(51)	-18.9

Females

State	Rate	SE	Rank	PD
TOTAL U.S.	9.2	0.03		
High Five States				
District of Columbia	11.2 ^b	0.81	(01)	21.7
Louisiana	10.4 ^c	0.29	(02)	13.0
Rhode Island	10.2	0.54	(03)	10.9
New Jersey	10.2 ^c	0.20	(04)	10.9
Massachusetts	10.0 ^c	0.22	(05)	8.7
Low Five States				
Wyoming	8.1	0.80	(47)	-12.0
Arizona	8.1 ^c	0.24	(48)	-12.0
Nebraska	8.1	0.39	(49)	-12.0
West Virginia	7.5 ^{bc}	0.35	(50)	-18.5
Utah	6.5 ^{bc}	0.39	(51)	-29.3

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 XXI-12
PANCREAS 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	18,095	3,104	1,515	690	460	21,576	23,967	549	24,516
Males	8,680	1,346	575	287	221	10,177	11,163	216	11,379
Females	9,415	1,758	940	403	239	11,399	12,804	333	13,137
White ^b	15,117	2,577	1,124	536	381	18,030	19,814	441	20,255
Males	7,306	1,109	438	237	197	8,554	9,323	186	9,509
Females	7,811	1,468	686	299	184	9,476	10,491	255	10,746
Black ^b	2,191	344	331	107	78	2,569	3,065	253	3,318
Males	1,012	137	122	39	23	1,162	1,343	104	1,447
Females	1,179	207	209	68	55	1,407	1,722	149	1,871
Asian/Pacific Islander ^c	547	82	+	+	+	643	+	+	+
Males	247	40	+	+	+	291	+	+	+
Females	300	42	+	+	+	352	+	+	+
Hispanic ^d	877	261	+	+	+	1,155	+	+	+
Males	336	117	+	+	+	464	+	+	+
Females	541	144	+	+	+	691	+	+	+

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	0.0068%	-	0.0002%	0.0003%	0.0013%	0.0038%	0.0113%	0.0264%	0.0372%	0.0361%	0.0075%
Males	0.0065%	-	-	-	0.0013%	0.0039%	0.0127%	0.0292%	0.0379%	0.0390%	0.0079%
Females	0.0071%	-	0.0002%	0.0005%	0.0014%	0.0038%	0.0100%	0.0240%	0.0367%	0.0345%	0.0071%
White ^c	0.0070%	-	0.0001%	0.0004%	0.0013%	0.0037%	0.0111%	0.0267%	0.0359%	0.0341%	0.0073%
Males	0.0067%	-	-	-	0.0012%	0.0041%	0.0123%	0.0297%	0.0360%	0.0382%	0.0078%
Females	0.0072%	-	-	0.0006%	0.0014%	0.0034%	0.0099%	0.0239%	0.0358%	0.0320%	0.0069%
Black ^c	0.0062%	-	-	-	0.0013%	0.0049%	0.0134%	0.0305%	0.0452%	0.0470%	0.0090%
Males	0.0058%	-	-	-	0.0018%	0.0044%	0.0168%	0.0359%	0.0467%	0.0254%	0.0092%
Females	0.0064%	-	-	-	-	0.0053%	0.0105%	0.0261%	0.0443%	0.0569%	0.0086%
Asian/Pacific Islander ^c	0.0063%	-	-	-	0.0013%	0.0031%	0.0109%	0.0210%	0.0401%	0.0477%	0.0075%
Males	0.0059%	-	-	-	-	0.0022%	0.0123%	0.0201%	0.0433%	0.0563%	0.0078%
Females	0.0066%	-	-	-	-	0.0040%	0.0096%	0.0218%	0.0377%	0.0418%	0.0073%
Hispanic ^d	0.0030%	-	-	0.0005%	0.0010%	0.0030%	0.0075%	0.0164%	0.0410%	0.0426%	0.0066%
Males	0.0023%	-	-	-	0.0010%	0.0017%	0.0072%	0.0158%	0.0376%	0.0476%	0.0062%
Females	0.0038%	-	-	0.0010%	0.0010%	0.0043%	0.0078%	0.0168%	0.0435%	0.0399%	0.0070%

^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+ Pancreas Cancer, by Race and Sex

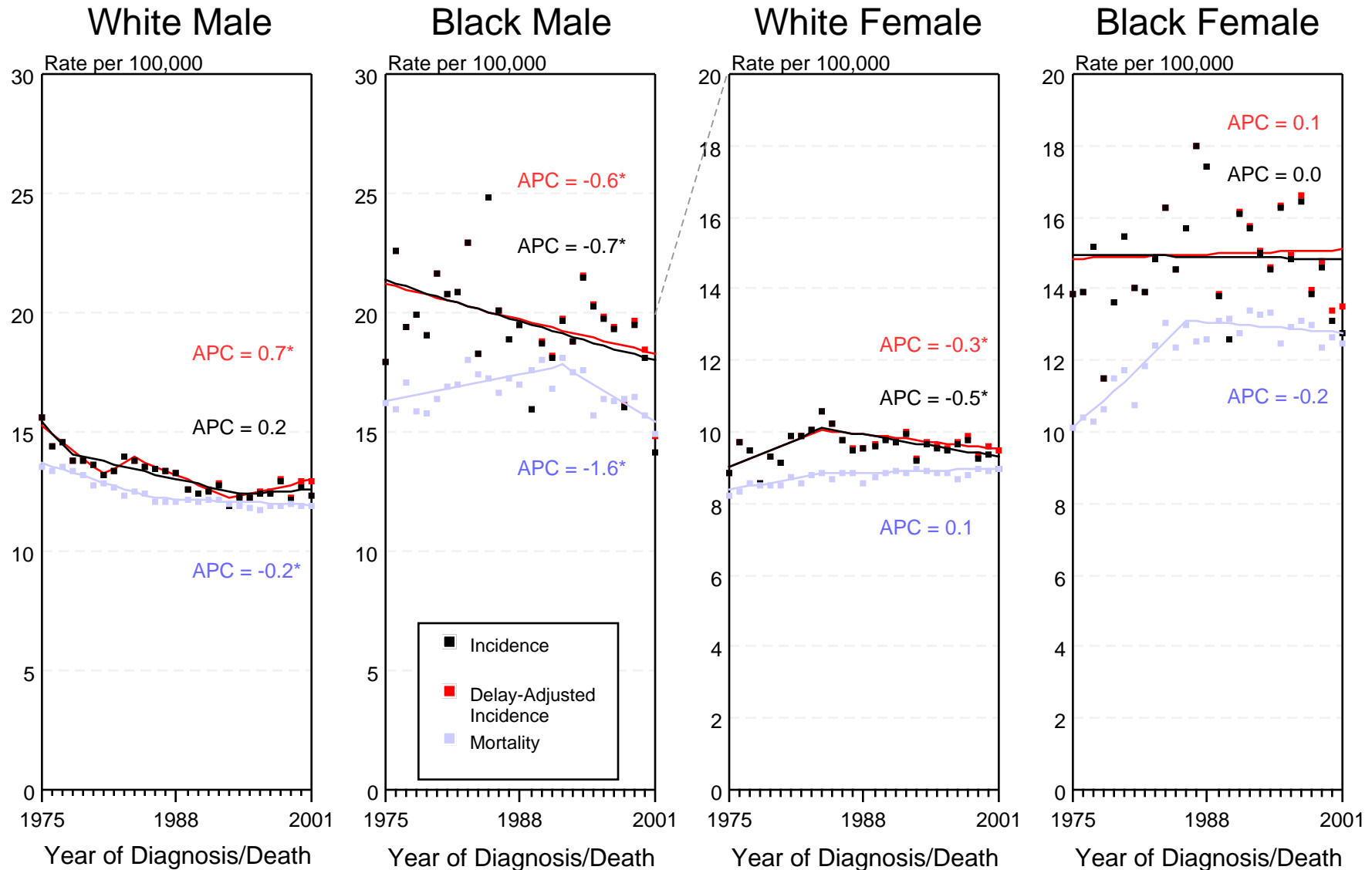


Figure XXI-1

+ 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 ($p < 0.05$).