

Table XXI-1
PANCREAS 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)	-8.5	-15.5	-1.3	-9.3	-16.8	-2.2	-2.8	-9.4	4.8
Est. Annual PC (EAPC)	-0.4★	-0.9★	0.2	-0.4★	-1.0★	0.1	-0.1	-0.6	0.5
Under 65									
Percent Change (PC)	-19.7	-20.2	-18.8	-21.1	-21.5	-21.0	-11.9	-12.1	-10.0
Est. Annual PC (EAPC)	-1.0★	-1.3★	-0.6★	-1.2★	-1.4★	-0.8★	-0.7	-1.0★	-0.3
65 and over									
Percent Change (PC)	-1.4	-12.5	9.2	-2.1	-14.0	8.8	4.3	-7.4	16.2
Est. Annual PC (EAPC)	0.0	-0.7★	0.6★	-0.1	-0.8★	0.6★	0.3	-0.3	0.9★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	-4.9	-6.7	-2.5	-5.9	-7.8	-3.3	-6.6	-2.8	-9.8
Est. Annual PC (EAPC)	-1.3	-2.3★	0.0	-1.7	-2.8★	-0.2	-1.5	-0.3	-2.5
<u>1989-93 - ALL AGES</u>									
Percent Change (PC)	-0.7	-0.3	-1.2	-1.6	-1.7	-1.8	13.8	10.8	16.5
Est. Annual PC (EAPC)	-0.7	-0.4◇	-0.9	-1.0	-1.1	-1.0	3.9◆	3.9	3.9
<u>MORTALITY TRENDS (expressed in percents)δ:</u>									
<u>1973-93</u>									
All Ages									
Percent Change (PC)	-1.3	-9.6	8.3	-3.1	-11.4	6.4	18.4	11.3	28.5
Est. Annual PC (EAPC)	-0.1★	-0.6★	0.4★	-0.2★	-0.7★	0.3★	0.8★	0.4★	1.3★
Under 65									
Percent Change (PC)	-13.1	-16.0	-9.1	-14.0	-17.3	-9.4	-5.2	-2.5	-7.5
Est. Annual PC (EAPC)	-0.8★	-1.0★	-0.5★	-0.8★	-1.0★	-0.5★	-0.4★	-0.4	-0.4★
65 and over									
Percent Change (PC)	5.5	-6.0	17.8	3.1	-8.1	14.6	36.7	21.6	56.9
Est. Annual PC (EAPC)	0.2★	-0.5★	0.8★	0.1	-0.6★	0.7★	1.6★	0.9★	2.4★
<u>1975-79 - ALL AGES</u>									
Percent Change (PC)	0.2	-1.7	2.5	0.2	-1.4	1.9	1.0	-3.0	6.6
Est. Annual PC (EAPC)	0.0	-0.7	0.8★	0.0	-0.6	0.6	0.4	-1.1	2.3
<u>1989-93 - ALL AGES</u>									
Percent Change (PC)	0.5	-0.6	1.5	0.7	-0.5	1.7	0.5	-0.4	1.4
Est. Annual PC (EAPC)	0.2	-0.3	0.6★	0.2	-0.2	0.7★	0.1	-0.3	0.4

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 XXI-2
PANCREAS 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	9.9	12.9	7.7	9.7	12.7	7.5	13.6	15.9	11.6
1974	9.6	11.6	8.2	9.2	11.1	7.8	14.9	18.7	12.0
1975	9.5	12.5	7.3	9.4	12.5	7.1	13.5	15.6	11.6
1976	9.6	11.9	7.9	9.5	11.7	7.7	14.3	18.0	11.4
1977	9.5	11.8	7.8	9.3	11.6	7.6	14.0	16.2	12.1
1978	9.0	11.4	7.1	8.8	11.2	6.9	12.7	16.8	9.6
1979	9.2	11.3	7.7	9.0	11.0	7.4	13.2	15.9	11.2
1980	9.3	11.4	7.7	8.9	11.1	7.3	14.8	17.6	13.0
1981	9.3	11.0	8.0	9.1	10.7	7.8	13.9	17.6	11.0
1982	9.4	11.0	8.1	9.1	10.7	7.9	13.6	16.7	11.4
1983	9.8	11.8	8.4	9.4	11.2	8.1	14.9	18.6	12.2
1984	9.7	11.2	8.6	9.5	11.0	8.4	14.1	15.5	13.0
1985	9.6	11.3	8.2	9.2	10.7	8.1	14.7	19.7	11.3
1986	9.4	11.0	8.2	9.1	10.8	7.8	14.2	16.3	12.9
1987	9.3	11.0	8.1	8.8	10.6	7.6	15.5	16.0	15.0
1988	9.3	10.9	8.2	8.9	10.6	7.6	15.6	16.9	14.3
1989	9.0	10.4	7.9	8.7	10.2	7.5	11.9	13.0	11.0
1990	9.0	10.4	8.0	8.8	10.0	7.7	12.5	15.4	10.3
1991	9.0	10.3	7.9	8.7	10.0	7.6	13.4	14.6	12.5
1992	9.3	10.7	8.2	9.1	10.4	7.9	14.3	16.0	13.0
1993	8.6	10.0	7.4	8.1	9.5	7.0	13.4	15.4	11.8
<u>AGE-ADJUSTED RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
All ages	9.0	10.3	7.9	8.7	10.0	7.6	13.1	14.9	11.8
Under 65	3.3	3.9	2.7	3.1	3.8	2.5	5.5	6.7	4.6
65 and over	60.7	68.5	54.9	59.1	66.9	53.4	82.3	89.9	77.0
All ages (world std.) ^λ	6.7	7.8	5.9	6.5	7.6	5.6	10.0	11.5	8.8
<u>AGE-SPECIFIC RATES, 1989-93</u>									
AGE AT DIAGNOSIS:									
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	0.1	0.0	0.2
10-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-19	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0
20-24	0.1	0.0	0.2	0.1	0.0	0.2	0.2	0.0	0.3
25-29	0.1	0.0	0.1	0.1	0.0	0.1	0.2	0.2	0.2
30-34	0.4	0.5	0.3	0.4	0.5	0.3	1.0	1.0	0.9
35-39	1.0	1.1	0.8	0.9	1.1	0.6	1.7	1.7	1.7
40-44	2.1	2.5	1.7	1.9	2.5	1.4	3.5	3.9	3.2
45-49	4.6	5.5	3.7	4.2	5.4	3.1	8.5	9.9	7.2
50-54	9.4	11.6	7.3	8.9	10.7	7.1	13.6	20.2	7.9
55-59	18.0	21.5	14.7	17.0	20.3	13.9	31.8	40.6	24.6
60-64	25.9	30.6	21.8	24.9	30.0	20.3	42.3	45.3	40.0
65-69	41.9	49.8	35.4	40.6	48.2	34.3	61.9	74.4	52.4
70-74	57.6	66.5	50.8	56.9	66.0	50.0	72.6	82.8	65.6
75-79	73.3	80.9	68.3	71.1	79.5	65.5	101.7	97.4	104.3
80-84	83.1	92.3	78.1	80.7	89.8	75.9	113.4	115.7	112.2
85+	92.4	95.0	91.5	89.7	89.6	89.7	115.6	129.3	109.7

§ 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 XXI-3
PANCREAS CANCER (Invasive)U.S. MORTALITY RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^δ, 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	8.6	11.2	6.7	8.5	11.1	6.5	10.4	13.3	8.2
1974	8.6	10.8	6.8	8.4	10.7	6.7	10.2	12.6	8.4
1975	8.6	11.1	6.7	8.4	10.9	6.6	10.8	13.9	8.5
1976	8.6	11.0	6.8	8.4	10.8	6.7	10.7	13.5	8.6
1977	8.7	11.1	7.0	8.5	10.8	6.8	11.0	14.2	8.6
1978	8.7	10.9	7.0	8.5	10.8	6.8	10.8	13.3	8.9
1979	8.6	10.8	7.0	8.4	10.6	6.7	11.0	13.2	9.4
1980	8.5	10.5	7.0	8.3	10.3	6.8	11.4	13.8	9.7
1981	8.5	10.6	7.0	8.4	10.3	6.9	11.0	14.1	8.8
1982	8.5	10.4	7.0	8.2	10.2	6.8	11.5	14.1	9.5
1983	8.5	10.3	7.2	8.2	9.9	6.9	12.1	14.8	10.1
1984	8.6	10.4	7.3	8.3	10.1	7.0	12.3	14.5	10.6
1985	8.5	10.3	7.1	8.2	10.0	6.9	11.7	14.2	9.9
1986	8.4	10.0	7.2	8.2	9.7	7.0	11.8	13.7	10.3
1987	8.4	10.0	7.2	8.1	9.7	7.0	11.7	14.2	10.0
1988	8.3	10.0	7.0	8.0	9.7	6.7	11.8	14.0	10.1
1989	8.4	10.0	7.2	8.1	9.7	6.9	12.1	14.4	10.5
1990	8.5	10.1	7.2	8.2	9.7	6.9	12.2	14.6	10.5
1991	8.4	10.0	7.2	8.2	9.8	7.0	11.6	13.7	10.0
1992	8.5	10.1	7.2	8.2	9.7	6.9	12.4	14.7	10.7
1993	8.5	9.9	7.4	8.2	9.6	7.1	12.1	14.2	10.7
<u>AGE-ADJUSTED RATES, 1989-93</u>									
AGE AT DEATH:									
All ages	8.4	10.0	7.2	8.2	9.7	7.0	12.1	14.3	10.5
Under 65	3.0	3.7	2.4	2.9	3.6	2.3	4.7	6.0	3.7
65 and over	57.8	67.2	51.3	56.2	65.7	49.7	79.3	90.6	72.2
All ages (world std.) ^φ	6.3	7.5	5.3	6.1	7.3	5.1	9.1	10.9	7.8
<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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
25-29	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.0
30-34	0.2	0.3	0.2	0.2	0.3	0.2	0.4	0.4	0.3
35-39	0.7	0.9	0.5	0.6	0.8	0.5	1.1	1.5	0.8
40-44	1.8	2.4	1.3	1.7	2.2	1.2	2.8	3.9	1.9
45-49	4.3	5.4	3.2	4.0	5.1	3.0	6.9	9.3	4.9
50-54	8.6	10.5	6.7	8.1	9.9	6.4	13.6	18.1	9.9
55-59	15.8	19.3	12.7	15.0	18.3	11.9	25.5	31.4	20.8
60-64	25.3	31.0	20.3	24.4	30.1	19.3	37.3	45.7	31.0
65-69	38.2	45.8	32.0	36.8	44.4	30.6	55.6	65.4	48.4
70-74	52.9	62.4	45.8	51.4	61.0	44.0	74.8	85.6	67.6
75-79	68.7	79.1	61.8	67.0	77.5	60.1	91.6	104.2	84.2
80-84	84.9	96.6	78.6	82.6	93.9	76.6	117.5	137.1	107.4
85+	97.6	108.7	93.4	96.3	107.8	91.9	117.1	120.6	115.6

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

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

Table XXI-4
PANCREAS 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 ^a	-	-	-	1	1	2	1	0	3
1970-73 ^a	-	-	-	2	2	2	2	0	3
1974-76 ^b	2.6	3.0	2.1	2.6	3.1	2.1	2.5	1.9	3.1
1977-79 ^b	2.5	2.3	2.7	2.3	2.3	2.4	3.8	2.8	4.8
1980-82 ^b	3.1	2.7	3.5	2.9	2.6	3.1	4.7	3.7	5.8
1983-85 ^b	3.2	2.8	3.6	2.9	2.6	3.1	5.4	4.8	5.9
1986-92 ^b	3.8 Ω	3.4 Ω	4.2 Ω	3.5 Ω	3.2 Ω	3.9 Ω	5.1 Ω	4.4	5.8 Ω
1986-92 ^b									
ALL STAGES	3.8	3.4	4.2	3.5	3.2	3.9	5.1	4.4	5.8
LOCALIZED	12.7	9.1	15.6	12.4	8.5	15.5	12.5	9.9 \uparrow	13.6
REGIONAL	5.0	5.6	4.6	4.6	5.0	4.3	7.6	11.5	4.7
DISTANT	1.5	1.4	1.7	1.5	1.3	1.6	1.9	1.6	2.4
UNSTAGED	4.4	4.2	4.5	3.8	4.0	3.6	8.0	2.2	11.2
<u>STAGE DISTRIBUTION (%) 1986-92^b</u>									
ALL STAGES									
Number of cases	13,904	6,759	7,145	11,571	5,638	5,933	1,569	723	846
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	8	7	8	8	7	8	8	7	9
REGIONAL	23	23	23	23	24	22	22	19	24
DISTANT	48	52	45	48	51	45	52	58	46
UNSTAGED	21	18	24	22	18	25	18	15	21
<u>5-YR RELATIVE SURVIVAL RATES, 1986-92^b</u>									
AGE AT DIAGNOSIS:									
<45	15.6	9.4	23.8	15.2	10.9	21.4	18.9	5.2	34.2 \uparrow
45-54	7.5	7.0	8.1	7.1	6.6	7.6	9.1	7.4	11.7
55-64	4.0	3.4	4.6	4.0	3.5	4.7	3.8	3.9	3.9
65-74	2.6	2.3	2.9	2.1	1.6	2.6	4.3	4.6	3.8
75+	2.4	2.0	2.6	2.4	1.9	2.6	1.8	0.0	2.2
Under 65	6.0	5.0	7.4	5.9	5.1	7.0	7.1	5.0	9.8
65 and over	2.5	2.2	2.8	2.2	1.7	2.6	3.4	3.6	3.2

^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 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.

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

- Statistic could not be calculated.

Table XXI-5
PANCREAS 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	9.9	9.6	9.5	9.6	9.5	9.0	9.2	9.3	9.3	9.4	9.8	9.7	9.6	9.4	9.3	9.3	9.0	9.0	9.0	9.3	8.6
Mortality																					
U.S.	8.6	8.6	8.6	8.6	8.7	8.7	8.6	8.5	8.5	8.5	8.5	8.6	8.5	8.4	8.4	8.3	8.4	8.5	8.4	8.5	8.5
SEER	8.9	9.2	9.4	9.0	8.9	8.6	8.7	8.4	8.5	8.8	8.7	8.9	8.6	8.6	8.3	8.4	8.4	8.0	8.4	8.4	8.4
Relative Survival Rates (SEER)																					
1-year	15.2	13.9	14.3	15.2	15.3	16.2	14.9	17.0	16.7	17.4	18.8	16.9	16.0	18.4	19.0	18.6	19.8	19.7	20.3	20.3	
2-year	5.8	5.5	6.7	5.5	6.1	6.3	6.3	6.6	6.5	6.9	7.2	6.6	6.4	6.6	8.2	7.0	7.6	8.5	9.3		
3-year	4.5	3.5	4.5	3.2	3.2	3.9	3.8	4.4	4.5	4.1	4.9	4.1	5.0	4.6	5.9	4.8	4.5	5.6			
4-year	3.8	2.8	3.4	2.7	2.4	3.1	3.3	3.7	3.6	3.1	4.2	3.3	3.9	3.5	4.9	3.7	3.6				
5-year	3.3	2.3	2.9	2.5	1.8	2.7	2.9	3.6	2.9	2.8	3.7	2.8	3.2	3.0	4.4	3.6					
6-year	2.9	2.1	2.6	2.3	1.7	2.5	2.7	3.4	2.7	2.6	3.0	2.4	2.6	2.8	3.8						
7-year	2.9	2.0	2.3	2.1	1.6	2.3	2.6	3.4	2.5	2.4	2.6	2.2	2.5	2.5							
8-year	2.9	2.0	2.1	1.7	1.5	2.0	2.5	3.3	2.1	2.3	2.6	1.8	2.3								
9-year	2.9	2.0	2.1	1.6	1.4	1.9	2.4	3.1	1.8	2.2	2.6	1.8									
10-year	2.9	1.9	2.1	1.6	1.3	1.7	2.2	3.0	1.6	2.1	2.6										
11-year	2.0	1.8	2.1	1.6	1.3	1.7	2.2	2.8	1.6	2.1											
12-year	1.9	1.5	2.1	1.6	1.3	1.6	2.2	2.8	1.6												
13-year	1.9	1.1	2.1	1.5	1.0	1.6	2.2	2.7													
14-year	1.9	0.8	2.1	1.5	0.9	1.6	2.0														
15-year	1.9	0.7	2.1	1.5	0.9	1.6															
16-year	1.9	0.6	2.1	1.5	0.8																
17-year	1.9	0.5	2.1	1.5																	
18-year	1.9	0.5	2.1																		
19-year	1.9	0.4																			
20-year	1.9																				

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 XXI-6
PANCREAS 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	12.9	11.6	12.5	11.9	11.8	11.4	11.3	11.4	11.0	11.0	11.8	11.2	11.3	11.0	11.0	10.9	10.4	10.4	10.3	10.7	10.0
Mortality																					
U.S.	11.2	10.8	11.1	11.0	11.1	10.9	10.8	10.5	10.6	10.4	10.3	10.4	10.3	10.0	10.0	10.0	10.0	10.1	10.0	10.1	9.9
SEER	11.0	11.2	12.0	11.8	11.1	10.7	10.8	10.4	9.9	10.7	10.5	10.3	9.9	9.8	9.8	10.0	9.7	9.3	9.7	9.5	9.9
Relative Survival Rates (SEER)																					
1-year	13.8	11.8	15.7	15.0	14.3	16.3	14.6	15.8	16.9	17.3	17.5	14.2	15.8	18.4	18.2	19.2	18.5	19.4	20.0	18.0	
2-year	5.0	5.8	7.3	5.5	5.2	6.4	6.0	6.3	6.3	6.8	7.0	5.4	6.1	5.9	7.5	7.5	5.8	8.5	9.0		
3-year	4.1	3.7	5.5	3.2	2.8	3.4	2.8	4.0	4.3	3.8	4.8	3.2	4.8	3.9	5.3	5.1	3.5	5.1			
4-year	3.4	3.0	4.1	3.0	1.7	2.9	2.7	3.5	3.4	2.5	4.2	2.7	3.5	2.9	4.1	3.8	2.5				
5-year	2.8	2.5	3.5	2.8	1.6	2.7	2.6	3.4	2.5	2.2	3.6	2.3	2.5	2.4	4.1	3.6					
6-year	2.2	2.3	3.1	2.5	1.5	2.7	2.3	3.1	2.4	1.8	3.1	2.0	1.9	2.1	3.5						
7-year	2.2	2.1	2.9	2.5	1.4	2.5	2.3	3.0	2.2	1.4	2.2	1.8	1.9	1.7							
8-year	2.2	2.1	2.7	2.1	1.0	2.2	2.2	2.9	1.7	1.4	2.2	1.6	1.7								
9-year	2.2	2.1	2.7	1.9	0.9	2.1	2.2	2.6	1.2	1.4	2.2	1.6									
10-year	2.0	1.9	2.7	1.9	0.9	1.7	1.9	2.2	1.1	1.4	2.2										
11-year	1.2	1.9	2.7	1.9	0.8	1.6	1.8	2.2	1.1	1.4											
12-year	1.2	1.7	2.7	1.9	0.5	1.6	1.8	2.2	1.1												
13-year	1.2	1.5	2.7	1.8	0.5	1.6	1.8	2.2													
14-year	1.2	0.8	2.7	1.8	0.5	1.6	1.8														
15-year	1.2	0.8	2.7	1.8	0.5	1.6															
16-year	1.2	0.6	2.7	1.8	0.5																
17-year	1.2	0.3	2.7	1.7																	
18-year	1.2	0.3	2.7																		
19-year	0.8	0.3																			
20-year	0.8																				

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

Survival rates are relative rates expressed as percents.

Table XXI-7
PANCREAS 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	7.7	8.2	7.3	7.9	7.8	7.1	7.7	7.7	8.0	8.1	8.4	8.6	8.2	8.2	8.1	8.2	7.9	8.0	7.9	8.2	7.4
Mortality																					
U.S.	6.7	6.8	6.7	6.8	7.0	7.0	7.0	7.0	7.0	7.0	7.2	7.3	7.1	7.2	7.2	7.0	7.2	7.2	7.2	7.2	7.4
SEER	7.3	7.6	7.4	6.9	7.3	7.0	7.2	6.9	7.4	7.3	7.3	7.7	7.6	7.6	7.2	7.1	7.4	6.9	7.4	7.4	7.2
Relative Survival Rates (SEER)																					
1-year	17.0	16.1	12.6	15.4	16.3	16.2	15.2	18.3	16.5	17.4	20.1	19.4	16.2	18.4	19.9	18.0	21.0	20.0	20.6	22.5	
2-year	6.8	5.3	5.8	5.5	7.1	6.2	6.6	6.9	6.7	7.1	7.4	7.7	6.6	7.3	9.0	6.5	9.3	8.5	9.6		
3-year	4.9	3.3	3.3	3.1	3.7	4.4	4.9	4.8	4.6	4.3	4.9	4.9	5.3	5.2	6.4	4.4	5.4	6.0			
4-year	4.2	2.7	2.6	2.3	3.0	3.4	3.9	4.0	3.8	3.6	4.2	3.9	4.2	4.0	5.8	3.6	4.6				
5-year	4.0	2.1	2.0	2.2	2.1	2.7	3.2	3.8	3.2	3.4	3.9	3.3	3.8	3.6	4.6	3.5					
6-year	3.7	1.9	2.0	2.1	1.9	2.4	3.2	3.7	3.1	3.4	3.0	2.8	3.3	3.4	4.2						
7-year	3.7	1.9	1.7	1.7	1.8	2.1	2.9	3.7	2.8	3.3	3.0	2.6	3.0	3.3							
8-year	3.7	1.9	1.4	1.2	1.8	1.9	2.9	3.7	2.6	3.0	3.0	2.0	2.8								
9-year	3.7	1.9	1.4	1.2	1.8	1.8	2.7	3.7	2.4	3.0	2.8	2.0									
10-year	3.7	1.9	1.4	1.2	1.7	1.6	2.5	3.7	2.0	2.7	2.6										
11-year	2.9	1.5	1.4	1.1	1.7	1.6	2.5	3.3	2.0	2.7											
12-year	2.7	1.4	1.4	1.1	1.7	1.4	2.5	3.0	2.0												
13-year	2.7	0.7	1.4	1.1	1.4	1.4	2.2	3.0													
14-year	2.7	0.7	1.4	1.1	1.2	1.4	1.8														
15-year	2.7	0.5	1.4	1.1	1.0	1.4															
16-year	2.7	0.5	1.4	1.1	0.8																
17-year	2.7	0.5	1.4	1.1																	
18-year	2.7	0.5	1.4																		
19-year	2.7	0.4																			
20-year	2.7																				

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 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 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	0.00	0.00	1.16	0.00	0.00	0.00	1.26
10	0.00	0.00	0.01	1.18	0.00	0.00	0.01	1.28
20	0.00	0.01	0.05	1.19	0.00	0.01	0.03	1.28
30	0.01	0.05	0.20	1.20	0.01	0.03	0.13	1.28
40	0.04	0.19	0.51	1.23	0.03	0.13	0.38	1.29
50	0.16	0.49	0.92	1.24	0.11	0.36	0.80	1.29
60	0.36	0.83	1.12	1.18	0.27	0.72	1.11	1.25

Lifetime Risk of Being Diagnosed = 1.16%
 Lifetime Risk of Dying = 1.11%

Lifetime Risk of Being Diagnosed = 1.26%
 Lifetime Risk of Dying = 1.21%

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	1.15	0.00	0.00	0.00	1.23
10	0.00	0.00	0.01	1.16	0.00	0.00	0.01	1.24
20	0.00	0.01	0.05	1.17	0.00	0.01	0.03	1.25
30	0.01	0.05	0.19	1.18	0.00	0.02	0.12	1.25
40	0.04	0.18	0.50	1.20	0.02	0.12	0.36	1.26
50	0.15	0.47	0.90	1.21	0.10	0.35	0.77	1.26
60	0.35	0.81	1.10	1.14	0.26	0.70	1.08	1.21

Lifetime Risk of Being Diagnosed = 1.15%
 Lifetime Risk of Dying = 1.12%

Lifetime Risk of Being Diagnosed = 1.23%
 Lifetime Risk of Dying = 1.20%

Blacks

Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	1.18	0.00	0.00	0.00	1.55
10	0.00	0.00	0.01	1.21	0.00	0.00	0.01	1.59
20	0.00	0.01	0.07	1.23	0.00	0.01	0.07	1.59
30	0.01	0.08	0.31	1.28	0.01	0.07	0.24	1.61
40	0.07	0.32	0.73	1.35	0.06	0.23	0.58	1.63
50	0.28	0.72	1.15	1.41	0.18	0.55	1.10	1.65
60	0.53	1.04	1.31	1.35	0.41	1.02	1.43	1.62

Lifetime Risk of Being Diagnosed = 1.18%
 Lifetime Risk of Dying = 1.06%

Lifetime Risk of Being Diagnosed = 1.55%
 Lifetime Risk of Dying = 1.44%

Table XXI-9
PANCREAS CANCER (Invasive)AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY^δ RATES BY STATE, 1989-93

All Races, Males and Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	8.4	0.02							
High Five States									
District of Columbia	12.1 ^{⊕*}	0.59	(01)	44.0					
Louisiana	10.2 ^{⊕*}	0.21	(02)	21.4					
Mississippi	9.2	0.25	(03)	9.5					
Nevada	9.0	0.37	(04)	7.1					
South Carolina	8.9	0.22	(05)	6.0					
Low Five States									
Alaska	7.7	0.79	(47)	-8.3					
Iowa	7.6	0.20	(48)	-9.5					
West Virginia	7.5	0.25	(49)	-10.7					
Idaho	7.3	0.35	(50)	-13.1					
Utah	6.3 ^{⊕*}	0.29	(51)	-25.0					
Alabama	8.3	0.18	(29)	-1.2	Montana	8.6	0.42	(17)	2.4
Alaska	7.7	0.79	(47)	-8.3	Nebraska	7.9	0.28	(44)	-6.0
Arizona	8.2	0.19	(32)	-2.4	Nevada	9.0	0.37	(04)	7.1
Arkansas	8.8	0.24	(10)	4.8	New Hampshire	8.7	0.38	(15)	3.6
California	8.2	0.07	(31)	-2.4	New Jersey	8.9	0.14	(06)	6.0
Colorado	8.1	0.22	(33)	-3.6	New Mexico	8.1	0.32	(40)	-3.6
Connecticut	8.4	0.20	(25)	0.0	New York	8.8	0.09	(08)	4.8
Delaware	8.1	0.46	(36)	-3.6	North Carolina	8.6	0.15	(18)	2.4
District of Columbia	12.1 ^{⊕*}	0.59	(01)	44.0	North Dakota	7.9	0.45	(45)	-6.0
Florida	8.0	0.09	(41)	-4.8	Ohio	8.1	0.11	(37)	-3.6
Georgia	8.5	0.16	(22)	1.2	Oklahoma	8.0	0.20	(42)	-4.8
Hawaii	8.3	0.37	(30)	-1.2	Oregon	8.6	0.22	(19)	2.4
Idaho	7.3	0.35	(50)	-13.1	Pennsylvania	8.4	0.10	(27)	0.0
Illinois	8.8	0.12	(11)	4.8	Rhode Island	8.1	0.36	(34)	-3.6
Indiana	8.5	0.16	(24)	1.2	South Carolina	8.9	0.22	(05)	6.0
Iowa	7.6	0.20	(48)	-9.5	South Dakota	8.1	0.43	(39)	-3.6
Kansas	8.1	0.23	(35)	-3.6	Tennessee	8.9	0.17	(07)	6.0
Kentucky	8.5	0.20	(23)	1.2	Texas	8.5	0.10	(21)	1.2
Louisiana	10.2 ^{⊕*}	0.21	(02)	21.4	Utah	6.3 ^{⊕*}	0.29	(51)	-25.0
Maine	8.6	0.34	(20)	2.4	Vermont	8.4	0.52	(26)	0.0
Maryland	8.7	0.19	(13)	3.6	Virginia	8.8	0.16	(09)	4.8
Massachusetts	8.7	0.15	(14)	3.6	Washington	8.3	0.17	(28)	-1.2
Michigan	8.7	0.13	(12)	3.6	West Virginia	7.5	0.25	(49)	-10.7
Minnesota	8.1	0.18	(38)	-3.6	Wisconsin	8.6	0.17	(16)	2.4
Mississippi	9.2	0.25	(03)	9.5	Wyoming	7.8	0.57	(46)	-7.1
Missouri	7.9	0.16	(43)	-6.0					

^δ NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.

* Absolute difference between state rate and total U.S. rate is 15% or more.

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

Table XXI-10
PANCREAS CANCER (Invasive)AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY^δ RATES BY STATE, 1989-93

All Races, Males

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	10.0	0.04			Montana	8.8	0.64	(47)	-12.0
High Five States					Nebraska	9.9	0.48	(26)	-1.0
District of Columbia	13.3 [⊕]	0.98	(01)	33.0	Nevada	10.3	0.60	(18)	3.0
Louisiana	12.2 [⊕] *	0.36	(02)	22.0	New Hampshire	9.9	0.63	(28)	-1.0
Mississippi	11.2	0.43	(03)	12.0	New Jersey	10.1	0.23	(20)	1.0
Virginia	10.8	0.28	(04)	8.0	New Mexico	9.9	0.53	(30)	-1.0
Arkansas	10.8	0.40	(05)	8.0	New York	10.4	0.15	(12)	4.0
Low Five States					North Carolina	10.6	0.26	(09)	6.0
Montana	8.8	0.64	(47)	-12.0	North Dakota	7.9 [*]	0.67	(50)	-21.0
West Virginia	8.7	0.41	(48)	-13.0	Ohio	9.4	0.19	(40)	-6.0
Alaska	8.2 [*]	1.22	(49)	-18.0	Oklahoma	9.3	0.33	(43)	-7.0
North Dakota	7.9 [*]	0.67	(50)	-21.0	Oregon	9.9	0.36	(29)	-1.0
Utah	7.1 [⊕] *	0.47	(51)	-29.0	Pennsylvania	9.9	0.17	(32)	-1.0
					Rhode Island	10.0	0.62	(25)	0.0
					South Carolina	10.5	0.37	(10)	5.0
					South Dakota	10.3	0.73	(15)	3.0
					Tennessee	10.6	0.30	(08)	6.0
					Texas	10.3	0.17	(16)	3.0
					Utah	7.1 [⊕] *	0.47	(51)	-29.0
					Vermont	9.4	0.85	(39)	-6.0
					Virginia	10.8	0.28	(04)	8.0
					Washington	9.3	0.28	(44)	-7.0
					West Virginia	8.7	0.41	(48)	-13.0
					Wisconsin	10.3	0.29	(14)	3.0
					Wyoming	9.9	0.97	(27)	-1.0
Alabama	10.2	0.32	(19)	2.0					
Alaska	8.2 [*]	1.22	(49)	-18.0					
Arizona	9.8	0.32	(33)	-2.0					
Arkansas	10.8	0.40	(05)	8.0					
California	9.5	0.12	(38)	-5.0					
Colorado	9.4	0.36	(41)	-6.0					
Connecticut	10.0	0.34	(24)	0.0					
Delaware	10.1	0.79	(22)	1.0					
District of Columbia	13.3 [*]	0.98	(01)	33.0					
Florida	9.8	0.15	(34)	-2.0					
Georgia	10.4	0.28	(11)	4.0					
Hawaii	9.4	0.57	(42)	-6.0					
Idaho	8.9	0.58	(46)	-11.0					
Illinois	10.3	0.19	(17)	3.0					
Indiana	10.6	0.28	(06)	6.0					
Iowa	9.2	0.34	(45)	-8.0					
Kansas	9.6	0.39	(36)	-4.0					
Kentucky	10.6	0.34	(07)	6.0					
Louisiana	12.2 [⊕] *	0.36	(02)	22.0					
Maine	9.9	0.56	(31)	-1.0					
Maryland	10.1	0.31	(21)	1.0					
Massachusetts	10.1	0.26	(23)	1.0					
Michigan	10.4	0.22	(13)	4.0					
Minnesota	9.5	0.30	(37)	-5.0					
Mississippi	11.2	0.43	(03)	12.0					
Missouri	9.6	0.27	(35)	-4.0					

^δ NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.

* Absolute difference between state rate and total U.S. rate is 15% or more.

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

Table XXI-11
PANCREAS CANCER (Invasive)AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY^δ RATES BY STATE, 1989-93

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	7.2	0.03		
High Five States				
District of Columbia	11.3 [⊕] *	0.75	(01)	56.9
Louisiana	8.7 [⊕] *	0.25	(02)	20.8
Montana	8.3*	0.56	(03)	15.3
Nevada	8.0	0.48	(04)	11.1
New Jersey	8.0	0.17	(05)	11.1
Low Five States				
Iowa	6.2	0.24	(47)	-13.9
South Dakota	6.1*	0.49	(48)	-15.3
Idaho	6.0*	0.43	(49)	-16.7
Wyoming	5.7*	0.65	(50)	-20.8
Utah	5.6*	0.37	(51)	-22.2

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	6.8	0.22	(39)	-5.6	Montana	8.3*	0.56	(03)	15.3
Alaska	7.3	1.05	(21)	1.4	Nebraska	6.3	0.33	(46)	-12.5
Arizona	6.8	0.24	(40)	-5.6	Nevada	8.0	0.48	(04)	11.1
Arkansas	7.3	0.28	(22)	1.4	New Hampshire	7.5	0.47	(15)	4.2
California	7.2	0.09	(24)	0.0	New Jersey	8.0	0.17	(05)	11.1
Colorado	7.1	0.27	(29)	-1.4	New Mexico	6.6	0.38	(43)	-8.3
Connecticut	7.2	0.25	(27)	0.0	New York	7.7	0.11	(09)	6.9
Delaware	6.6	0.55	(44)	-8.3	North Carolina	7.1	0.18	(32)	-1.4
District of Columbia	11.3 [⊕] *	0.75	(01)	56.9	North Dakota	7.8	0.60	(06)	8.3
Florida	6.6 [⊕]	0.11	(41)	-8.3	Ohio	7.1	0.14	(30)	-1.4
Georgia	7.1	0.19	(31)	-1.4	Oklahoma	7.0	0.25	(33)	-2.8
Hawaii	7.3	0.48	(23)	1.4	Oregon	7.6	0.28	(13)	5.6
Idaho	6.0*	0.43	(49)	-16.7	Pennsylvania	7.2	0.12	(25)	0.0
Illinois	7.6	0.14	(11)	5.6	Rhode Island	6.8	0.43	(38)	-5.6
Indiana	6.9	0.19	(36)	-4.2	South Carolina	7.7	0.26	(08)	6.9
Iowa	6.2	0.24	(47)	-13.9	South Dakota	6.1*	0.49	(48)	-15.3
Kansas	7.0	0.29	(34)	-2.8	Tennessee	7.6	0.21	(14)	5.6
Kentucky	6.8	0.23	(37)	-5.6	Texas	7.1	0.12	(28)	-1.4
Louisiana	8.7 [⊕] *	0.25	(02)	20.8	Utah	5.6*	0.37	(51)	-22.2
Maine	7.5	0.41	(17)	4.2	Vermont	7.4	0.64	(20)	2.8
Maryland	7.6	0.23	(12)	5.6	Virginia	7.4	0.20	(18)	2.8
Massachusetts	7.7	0.19	(10)	6.9	Washington	7.4	0.22	(19)	2.8
Michigan	7.5	0.16	(16)	4.2	West Virginia	6.5	0.30	(45)	-9.7
Minnesota	6.9	0.22	(35)	-4.2	Wisconsin	7.2	0.21	(26)	0.0
Mississippi	7.7	0.30	(07)	6.9	Wyoming	5.7*	0.65	(50)	-20.8
Missouri	6.6	0.19	(42)	-8.3					

^δ NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.

SE Standard error of the rate.

PD Percent difference between state rate and total U.S. rate.

* Absolute difference between state rate and total U.S. rate is 15% or more.

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

Table XXI-12
PANCREAS CANCER (Invasive)AGE-ADJUSTED SEER INCIDENCE RATES[§], SEER MORTALITY RATES^δ, AND 5-YEAR RELATIVE SURVIVAL RATES[⊙]
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES[§], 1989-93</u>									
REGISTRY									
Standard 9 registries	9.0	10.3	7.9	8.7	10.0	7.6	13.1	14.9	11.8
San Francisco-Oakland	9.3	10.4	8.5	9.2	10.3	8.3	13.9	14.1	13.8
Connecticut	9.0	10.4	7.8	8.9	10.2	7.7	11.0	12.5	9.5
Metropolitan Detroit	10.3	12.3	8.7	9.4	11.4	7.9	13.9	16.2	12.1
Hawaii	9.3	10.3	8.5	10.0	11.7	8.4	-	-	-
Iowa	8.2	9.8	6.9	8.1	9.8	6.8	-	-	-
New Mexico	8.4	9.9	7.1	8.5	10.1	7.1	-	-	-
Seattle-Puget Sound	8.9	9.3	8.5	8.9	9.1	8.5	11.2	15.9	7.5
Utah	6.8	7.8	5.9	6.9	7.9	6.0	-	-	-
Metropolitan Atlanta	8.9	10.8	7.4	7.9	9.8	6.3	12.3	14.3	11.1
San Jose-Monterey	8.7	9.7	7.9	8.6	9.4	8.0	17.1	15.9	17.2
Los Angeles	8.8	10.2	7.7	8.7	10.3	7.4	12.4	13.6	11.6
<u>SEER MORTALITY RATES^δ, 1989-93</u>									
REGISTRY									
Standard 9 registries	8.3	9.6	7.3	8.1	9.4	7.0	12.2	14.0	10.8
San Francisco-Oakland	8.5	9.6	7.6	8.5	9.6	7.7	13.3	14.9	11.8
Connecticut	8.4	10.0	7.2	8.3	9.9	7.1	11.2	13.8	9.3
Metropolitan Detroit	9.2	10.8	8.0	8.4	10.1	7.3	12.2	14.2	10.6
Hawaii	8.3	9.4	7.3	9.6	10.8	8.2	-	-	-
Iowa	7.6	9.2	6.2	7.5	9.1	6.1	-	-	-
New Mexico	8.1	9.9	6.6	8.1	10.0	6.5	-	-	-
Seattle-Puget Sound	8.5	9.0	7.9	8.6	9.0	8.0	11.1	14.8	8.0
Utah	6.3	7.1	5.6	6.4	7.2	5.7	-	-	-
Metropolitan Atlanta	8.6	10.3	7.5	7.8	9.7	6.4	12.2	13.2	11.5
San Jose-Monterey	7.7	8.5	7.0	7.8	8.5	7.2	12.6	9.6	13.9
Los Angeles	8.2	9.6	7.1	8.1	9.6	7.0	11.6	13.4	10.4
<u>SURVIVAL RATES[⊙], 1986-92</u>									
REGISTRY									
Standard 9 registries	3.8	3.4	4.2	3.5	3.2	3.9	5.1	4.4	5.8
San Francisco-Oakland	3.7	2.7	4.7	3.0	2.0	4.0	6.9	5.4	8.5
Connecticut	4.0	4.5	3.5	3.9	4.1	3.7	4.7	10.5	0.0
Metropolitan Detroit	3.1	3.0	3.3	2.8	2.9	2.9	4.0	3.5	4.4
Hawaii	4.1	4.3	3.7	0.0	0.0	0.0	-	-	-
Iowa	4.8	4.1	5.2	4.9	4.2	5.3	-	-	-
New Mexico	2.9	1.5	4.4	2.7	1.3	4.3	-	-	-
Seattle-Puget Sound	3.7	2.7	4.4	3.4	2.5	3.9	10.4	3.5	17.7†
Utah	3.2	2.9	3.5	3.2	3.0	3.5	-	-	-
Metropolitan Atlanta	4.5	4.1	4.8	4.1	4.6	3.8	5.3	2.8	6.7

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.

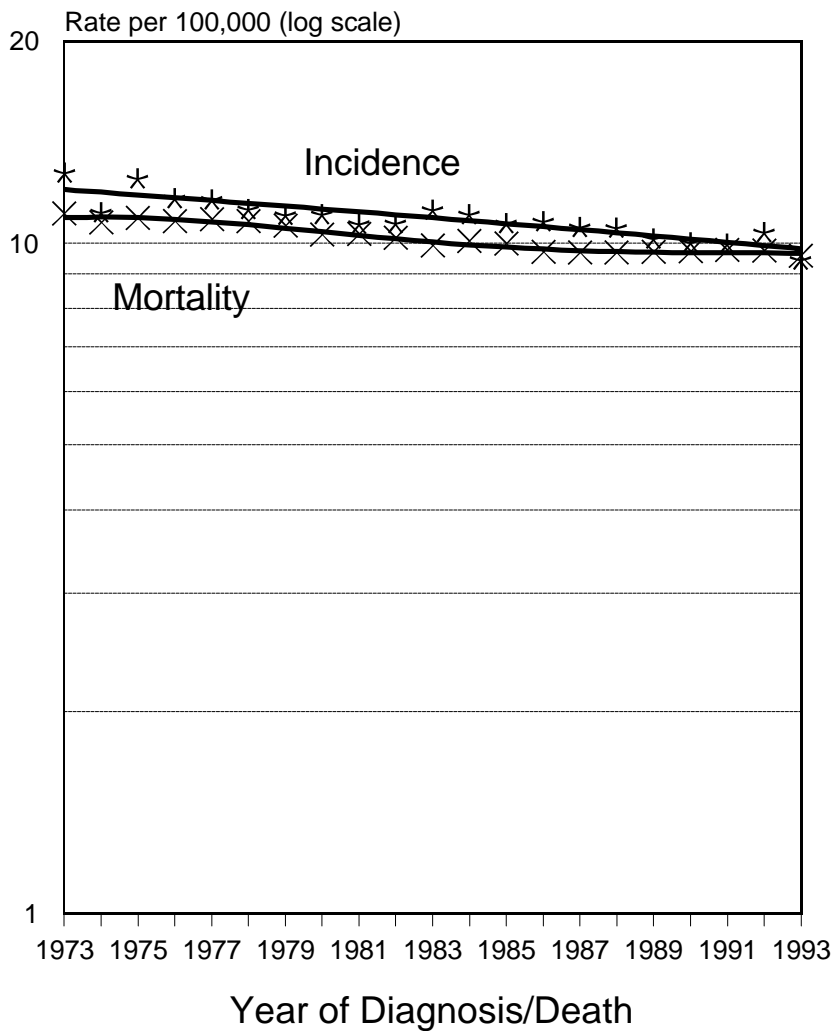
† The standard error of the survival rate is between 5 and 10 percentage points.

‡ 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 Pancreas, Male By Race

White



Black

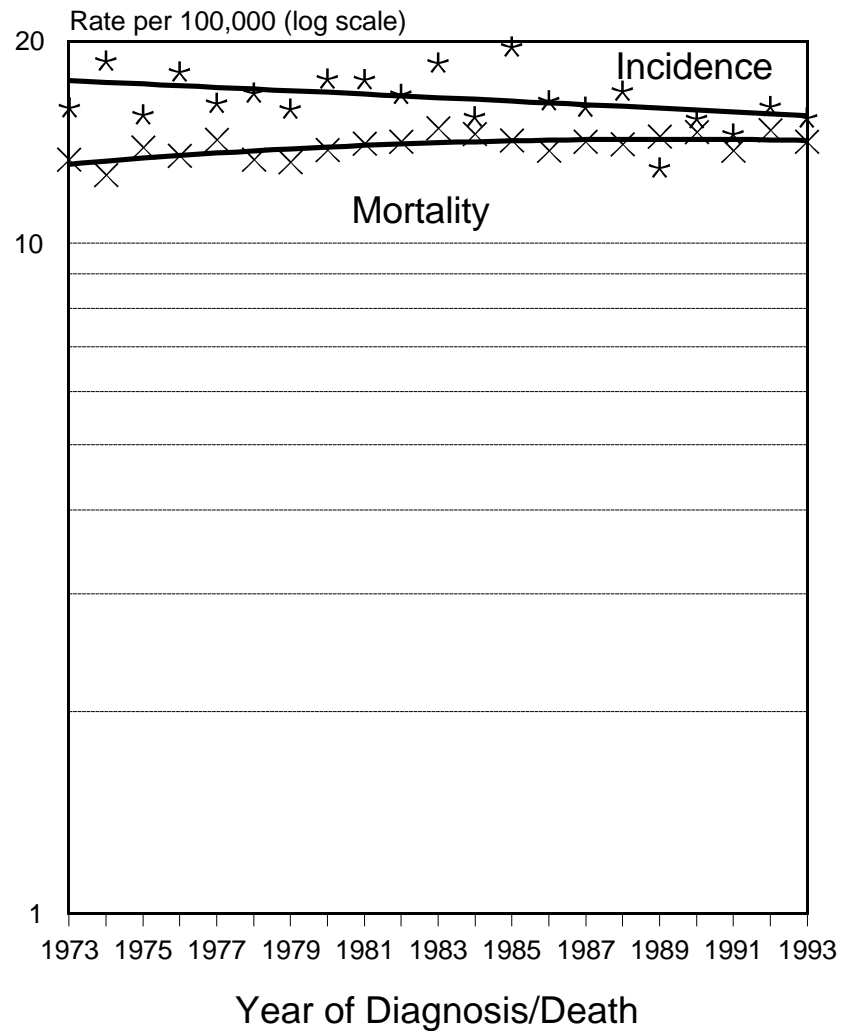
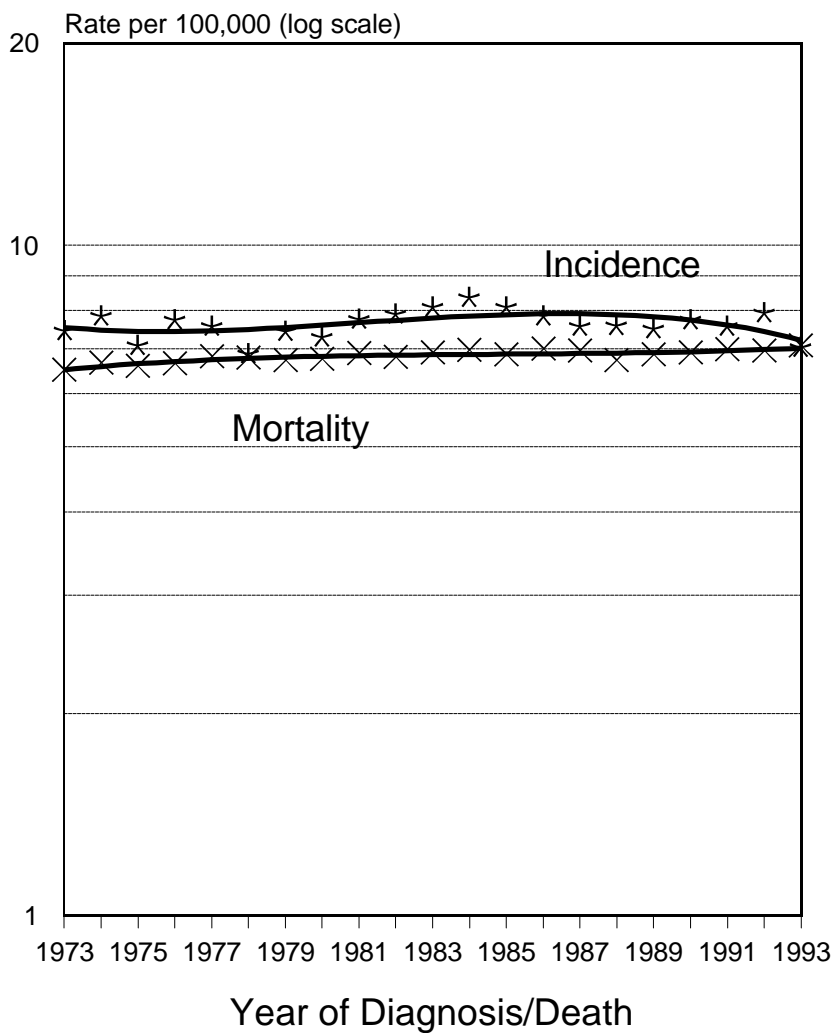


Figure XXI-1

SEER Incidence and U.S. Mortality Pancreas, Female By Race

White



Black

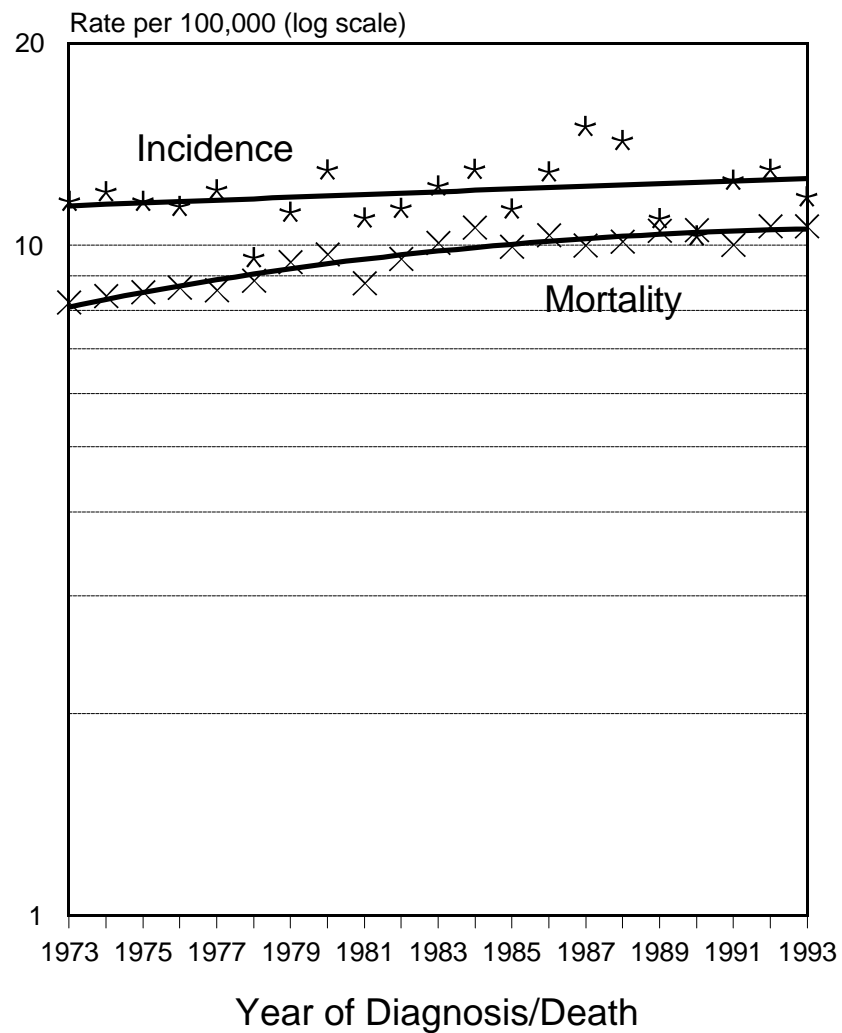
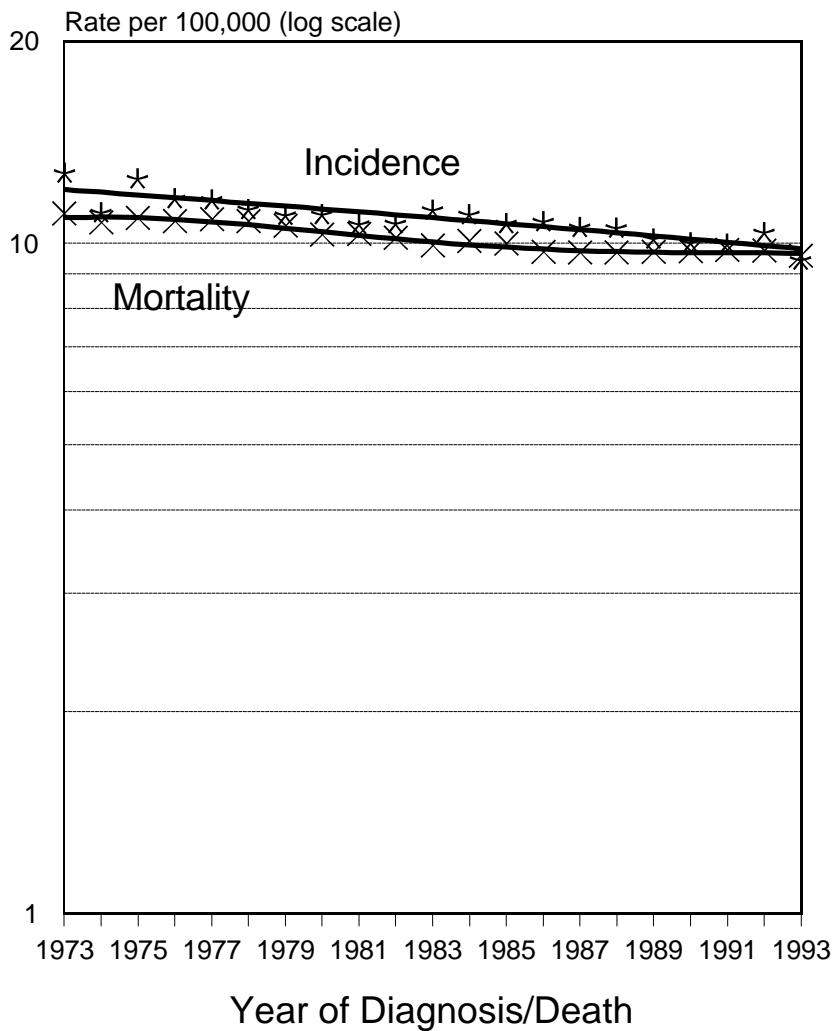


Figure XXI-2

SEER Incidence and U.S. Mortality Pancreas, Male By Race

White



Black

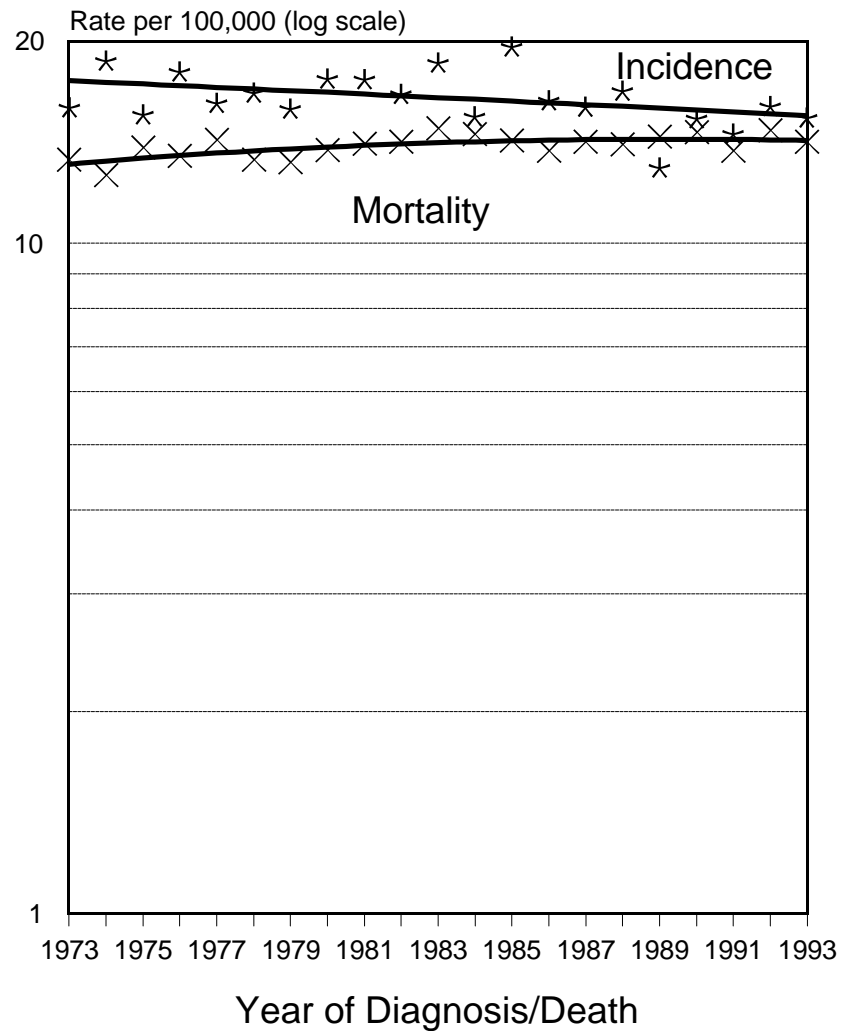
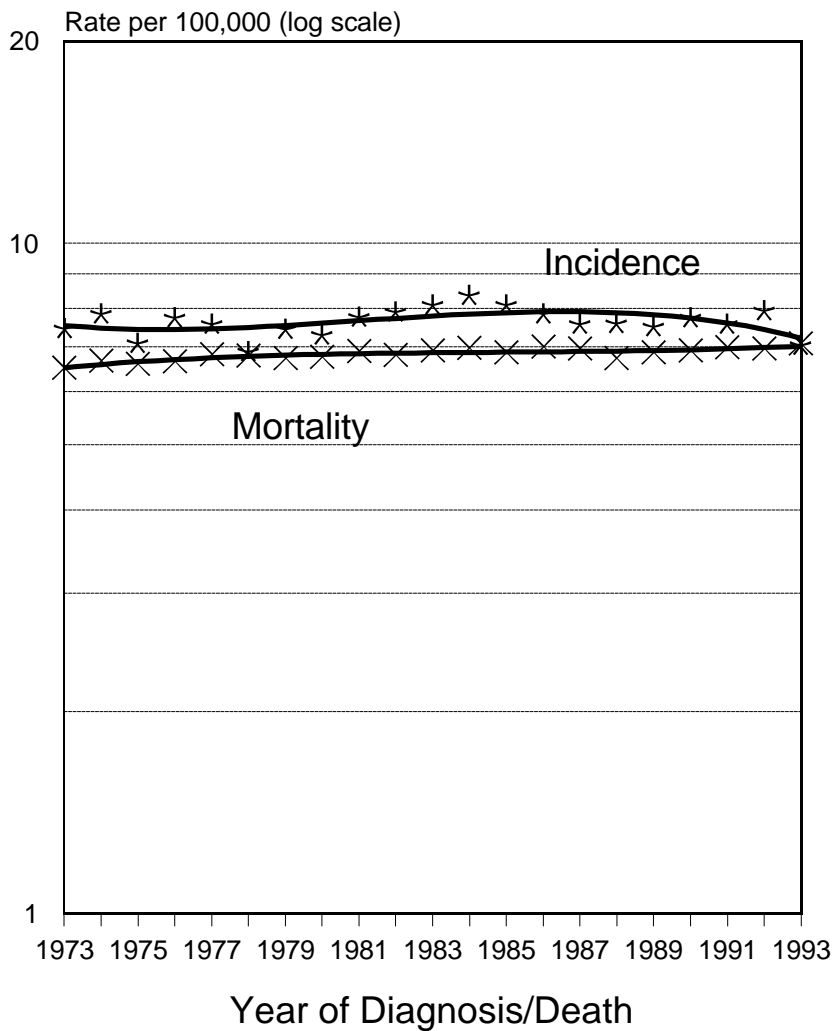


Figure XXI-1

SEER Incidence and U.S. Mortality Pancreas, Female By Race

White



Black

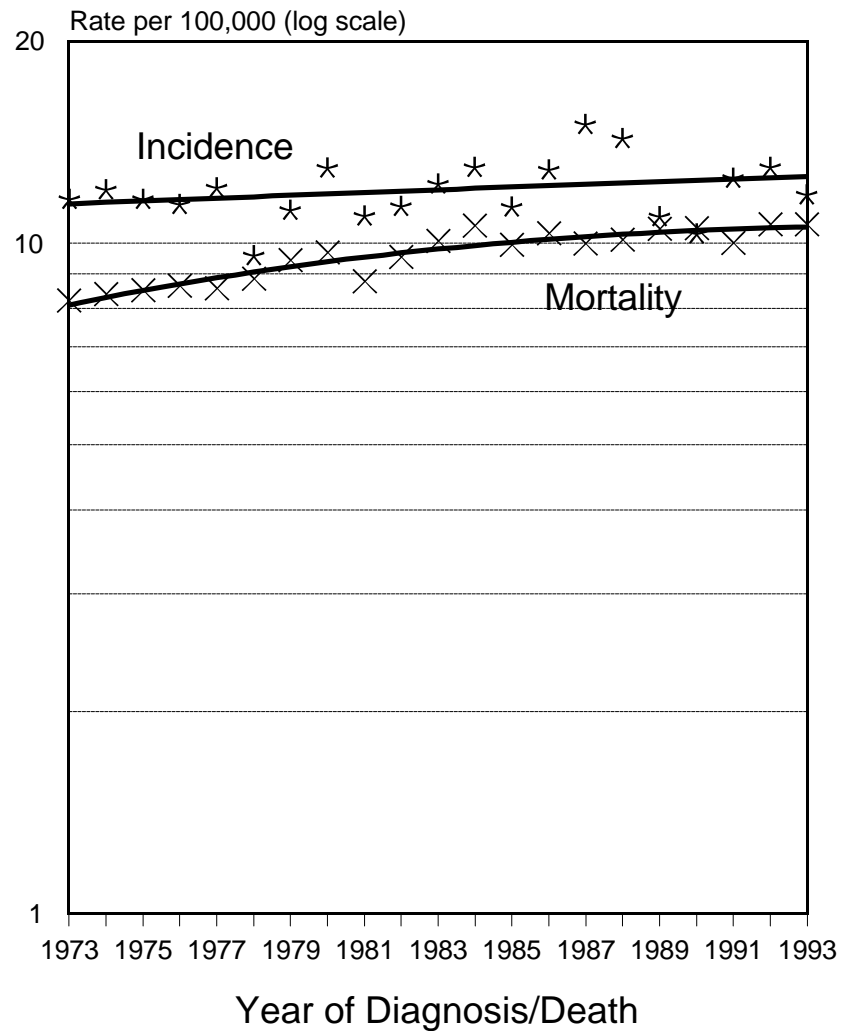


Figure XXI-2