Table XI-1 <u>KIDNEY AND RENAL PELVIS CANCER (Invasive)</u>

		<u>v</u>	<u>1111 OF 10 1</u>	IIILE OOINFOINI	5 DI KACE A	ND SEX			
		Joinpoint S	egment 1	Joinpoint S	egment 2	Joinpoint	Segment 3	Joinpoint	Segment 4
		Year	APC	Year	APC	Year	APC	Year	APC
CEED Come	Traideras								
SEER Cance	er Incidence ^a								
All Races	Male and Female	1975-1990	2.4°	1990-2001	1.3°				
All Races	Male	1975-1987	2.3°	1987-2001	1.2°				
All Races	Female	1975-1992	2.7°	1992-2001	1.1°				
White	Male and Female	1975-1990	2.4°	1990-2001	1.2°				
White	Male	1975-2001	1.6°						
White	Female	1975-1992	2.7°	1992-2001	0.9				
Black	Male and Female	1975-2001	2.9°						
Black	Male	1975-2001	2.8°						
Black	Female	1975-2001	3.2°						
SEER Delay	-Adjusted Incidence ^a								
All Races	Male and Female	1975-2001	2.0°						
All Races	Male	1975-2001	1.8°						
	Female	1975-2001	2.3°						
White	Male and Female	1975-2001	2.0°						
White	Male	1975-2001	1.7°						
White	Female	1975-1990	2.9°	1990-2001	1.5°				
Black	Male and Female	1975-2001	3.0°						
Black	Male Male	1975-2001	3.0°						
Black	Female	1975-2001	3.3°						
U.S. Cance	er Mortality ^b								
All Races	Male and Female	1975-1992	1.1°	1992-2001	-0.2				
All Races		1975-1991	1.1°	1991-2001	-0.1				
All Races	Female	1975-1992	1.3°	1992-2001	-0.5				
White	Male and Female	1975-1992	1.0°	1992-2001	-0.2				
White	Male and Female Male	1975-1992	1.0°	1991-2001	-0.1				
White	Female	1975-1992	1.0°	1992-2001	-0.5				
	Mala and Devel-	1075 1001		1001 0001	0 0				
Black Black	Male and Female Male	1975-1991 1975-1990	2.6° 3.0°	1991-2001 1990-2001	0.0 0.2				
Black	Female	1975-1990	2.3°	1990-2001	-1.7				
DIACK	r cmare	1010 1090	2.2	1))) 2001	1.1				

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

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

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).

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Table XI-2 KIDNEY AND RENAL PELVIS 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
AGE-ADJUSTED RATES									
YEAR OF DIAGNOSIS:									
1975	7.1	10.3	4.5	7.3	10.8	4.6	6.2	8.2	4.3
1976	8.0	11.2	5.5	8.1	11.5	5.6	7.8	11.6	4.8
1977	8.1	11.4	5.5	8.1	11.7	5.5	8.5	11.1	6.4
1978	7.8	11.4	4.8	8.0	12.1	4.9	8.0	11.0	5.7
1979	7.6	11.1	5.0	7.8	11.6	5.1	7.3	8.2	6.3
1980	8.1	11.7	5.4	8.4	12.2	5.6	6.0	8.0	4.4
1981	8.5	12.8	5.3	8.6	13.0	5.3	10.0	15.8	5.8
1982	8.3	11.8	5.7	8.5	12.0	5.8	7.6	11.2	4.9
1983	8.9	13.2	5.7	9.2	13.8	5.8	8.8	13.5	5.5
1984	9.2	13.1	6.2	9.5	13.6	6.3	9.0	12.0	6.8
1985	8.9	13.1	5.8	9.2	13.6	5.9	8.6	11.6	6.2
1986	9.7	13.8	6.6	9.8	14.1	6.7	10.1	15.0	6.6
1987	9.9	14.1	6.7	10.1	14.4	6.9	11.1	15.6	7.5
1988	9.9	14.0	7.0	10.1	14.3	7.0	11.5	15.2	8.8
1989	10.3	14.5	7.1	10.1	15.0	7.2	10.8	15.1	7.8
1990	10.3	14.7	7.1	10.7	15.0	7.4	10.6	16.1	6.6
1991	10.4 10.6	15.0	7.2	10.8	15.2	7.4	12.2	18.3	7.6
1992	10.7	15.2	7.4	11.1	15.6	7.7	10.9	16.3	7.2
1993	10.7	14.6	7.6	10.8	14.7	7.7	12.7	17.3	9.4
1994	11.3	15.6	7.8	11.5	15.9	8.0	12.7	18.0	8.6
1995	11.1	15.5	7.6	11.1	15.4	7.7	14.4	21.7	9.3
1996	11.3	15.8	7.9	11.4	16.1	7.8	13.5	17.0	10.9
1997	10.9	15.0	7.6	11.0	15.0	7.7	13.4	19.2	9.2
1998	11.8	16.4	8.2	12.1	16.8	8.4	12.6	16.9	9.2
1999	11.4	15.8	7.8	11.6	16.1	8.0	13.5	18.5	9.9
2000	12.3	17.1	8.4	12.5	17.7	8.3	14.6	19.0	11.8
2001	12.0	16.7	8.3	12.2	16.9	8.5	14.5	20.9	9.9
AGE-ADJUSTED RATES, 1997-2001									
AGE AT DIAGNOSIS:	11 0	16.0	0 1	11.0	16 5	0.0	10 5	10.0	10.0
All ages	11.7	16.2	8.1	11.9	16.5	8.2	13.7	18.9	10.0
Under 65	6.1	8.2	4.2	6.2	8.2	4.2	7.5	9.8	5.5
65 and over	50.0	71.8	34.8	51.2	73.5	35.6	56.9	81.7	41.0
All ages(IARC world std) $^{\rm b}$	8.2	11.2	5.7	8.4	11.4	5.8	9.8	13.3	7.2
AGE-SPECIFIC RATES, 1997-2001									
AGE AT DIAGNOSIS:	-								
<1	1.7	-	-	-	-	-	-	-	-
1-4	2.1	1.9	2.4	2.4	2.2	2.6	-	-	-
5-9	0.6	-	0.7	0.5	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19		-	-	-	-	-	-	-	-
20-24	0.3	-	-	_	-	-	-	-	-
25-29	0.5	0.6	-	0.5	-			-	-
30-34	1.3	1.4	1.2	1.2	1.3	1.1	2.0	-	
35-39	2.8	3.2	2.4	2.7	3.2	2.3	3.7	-	3.6
40 - 44	5.7	7.3	4.2	5.7	7.3	4.0	7.6	8.9	6.4
45-49	9.7	13.6	6.0	10.0	14.0	6.1	9.4	14.5	5.0
50-54	15.8 25.8 35.2	22.0 35.1	9.8	15.9	22.0 35.5	9.9	21.3	30.3	13.6
55-59	25.8	35.1	17.0	26.3	35.5	17.3	31.7	41.8	23.3
60-64	35.2	48.2	23.4	35.9	48.9	23.7	40.7	54.9	29.4
65-69	45.1	60.9	31.6	46.4	61.8	33.0	52.8	78.6	33.5
70-74	53.2	75.5	35.8	54.7	77.3	36.6	61.9	86.3	45.4
75-79	54.1	77.9 82.7	37.3 37.7	55.5	80.3 84.3	38.2	61.4	84.3	47.0
80-84	54.6	¤∠./	31.1	55.5	04.3 67.6	38.2	61.2	102.2	39.9
85+	42.0	65.2	32.3	42.1	67.6	31.8	42.8	-	39.8

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.

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.

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Table XI-3 KIDNEY AND RENAL PELVIS 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
AGE-ADJUSTED RATES									
YEAR OF DEATH:									
1975	3.6	5.2	2.4	3.7	5.3	2.5	2.8	4.1	1.8
1976	3.6	5.2	2.4	3.7	5.4	2.5	2.9	4.2	1.9
1977	3.7	5.4	2.4	3.8	5.5	2.5	2.9	4.0	2.0
1978	3.7	5.4	2.4	3.8	5.5	2.5	3.2	4.8	1.9
1979	3.6	5.3	2.4	3.7	5.5	2.4	2.9	4.2	2.0
1980	3.7	5.5	2.4	3.8	5.6	2.4	3.0	4.2	2.0
1981	3.7	5.4	2.5	3.8	5.5	2.6	3.2	4.6	2.1
1982	3.9	5.7	2.5	3.9	5.8	2.6	3.4	4.8	2.4
1983	3.8	5.6 5.8	2.6	3.9	5.7	2.7 2.6	3.3	4.8	2.1
1984 1985	3.9 4.0	5.8	2.6 2.7	4.0	5.9 5.8	2.0 2.7	3.5 3.8	4.9 6.0	2.4 2.4
1985	4.0	5.8	2.7	4.0 4.1	5.0	2.8	3.7	5.3	2.4
1987	4.1	6.0	2.8	4.2	6.1	2.8	3.7	5.5	2.3
1988	4.0	5.9	2.0	4.1	5.9	2.8	3.8	5.8	2.4
1989	4.2	6.1	2.8	4.2	6.2	2.8	4.0	6.1	2.6
1990	4.2	6.2	2.8	4.2	6.2	2.8	4.2	6.4	2.8
1991	4.3	6.2	2.9	4.3	6.2	2.8 3.0	4.3	6.4	3.0
1992	4.3	6.2	2.9	4.4	6.3	2.9	4.0	5.9	2.6
1993	4.2	6.1	2.8	4.2	6.2	2.8	4.1	6.1	2.7
1994	4.3	6.2	2.9	4.3	6.3	2.9	4.2	6.4	2.8
1995	4.3	6.2	3.0	4.4	6.3	3.0	4.4	6.3	3.1
1996	4.3	6.2	2.8	4.3	6.3	2.9	4.1	5.9	2.9
1997	4.3 4.3	6.2	2.9	4.3 4.3	6.2	2.9	4.3	6.5	2.8 2.5
1998 1999	$4.3 \\ 4.1$	6.2 5.9	2.8 2.7	4.3 4.1	6.3	2.9 2.7	$4.0 \\ 4.2$	6.3 6.1	2.5
2000	4.1	6.1	2.7	4.1	6.0 6.2	2.8	4.2	6.3	2.8
2000	4.3	6.2	2.8	4.3	6.3	2.8	4.3	6.4	2.8
2001	1.5	0.2	2.0	1.5	0.5	2.0	1.5	0.1	2.0
AGE-ADJUSTED RATES, 1997-2001									
AGE AT DEATH:									
All ages	4.2	6.1	2.8	4.3	6.2	2.8	4.2	6.3	2.7
Under 65	1.6	2.3	1.0	1.6	2.3	1.0	1.8	2.7	1.1
65 and over	22.1	32.5	15.3	22.5	33.0	15.6	20.7	31.7	14.2
All ages(IARC world std) ^b	2.6	3.8	1.7	2.7	3.8	1.7	2.7	4.1	1.7
AII ages(IARC WOILD Stu)	2.0	3.0	1.7	2.1	5.0	1.7	2.1	4.1	1.1
AGE-SPECIFIC RATES, 1997-2001									
AGE AT DEATH:									
<1	-	-	-	-	-	-	-	-	-
1-4	0.1	0.1	0.1	0.1	0.1	0.1	0.2	-	-
5-9	0.1	0.1	0.1	0.1	0.1	0.1	0.2	-	-
10-14	0.0	- 1	0.1	0.0	-	-	-	-	-
15-19 20-24	0.0 0.1	0.1 0.1	-	0.0 0.0	-	-	-	-	-
25-29	0.1	0.1	0.1	0.0	0.1	0.1	0.3	0.5	_
30-34	0.1	0.2	0.1	0.1	0.2	0.1	0.4	0.5	_
35-39	0.4	0.5	0.3	0.4	0.5	0.2	0.8	1.1	0.6
40-44	1.1	1.6	0.7	1.1	1.6	0.7	1.4	1.9	1.0
45-49	2.3	3.4	1.3	2.4	3.5	1.3	2.6	3.6	1.7
50-54	4.5 7.5	6.5	2.6	4.5	6.4	2.7	5.0	7.9	2.5
55-59	7.5	10.9	4.3	7.7	11.1	4.4	7.9	11.9	4.5
60-64	11.2	16.1	6.7	11.5	16.5	7.0	10.6	16.2	6.1
65-69	15.1	21.6	9.5	15.5	22.0	9.8	14.0	21.8	8.2
70-74	19.8	28.3	13.0	20.1	28.7	13.3	19.3	29.4	12.6
75-79	23.9	34.5	16.5	24.2	34.7	16.8	23.0	34.7	16.0
80-84	28.4 32.1	41.6 51.0	20.7 24.4	29.0 32.6	42.5	21.0 24.7	25.5	38.1 45.5	19.2 22.1
85+	5∠.⊥	51.0	24.4	32.0	54.4	24./	28.5	45.5	∠∠.⊥

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. а 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 XI-4 KIDNEY AND RENAL PELVIS 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
5-YR RELATIVE SURVIVAL R									
YEAR OF DIAGNOSIS:	AILS								
1960-1963ª	-	_	_	37	36	39	38	38	37
1970-1973 ^a	-	_	-	46	44	50	44	40	49
1974–1976 ^b	51.6	51.0	52.6	51.7	50.9	52.9	49.2	50.2	47.4 ^d
1977–1979 ^b	51.0	51.0	50.8	51.0	51.5	50.2	51.8	44.7	60.9 ^d
1980-1982 ^b	51.7	52.1	51.1	51.0	51.9	49.8	56.3	53.8	60.2 ^d
1983-1985 ^b	55.7	56.5	54.3	55.8	56.8	54.2	55.0	54.1	56.4
1986-1988 ^b	57.0	57.4	56.3	57.6	58.2	56.7	53.6	52.2	55.5
1989-1991 ^b	60.1	60.7	59.2	60.8	61.9	59.2	58.1	55.1	62.3
1992–1991 1992–1994 ^b	62.5	62.1	63.0	63.1	62.9	63.4	60.0	58.3	62.3
1995-2000 ^b	63.9°	63.9°	63.9°	63.9°	64.1°	63.6°	63.5°	63.5°	63.5°
1995-2000	03.9	03.9	03.9	03.9	04.1	03.0	03.5	03.5	03.5
1995-2000 ^b									
ALL STAGES	63.9	63.9	63.9	63.9	64.1	63.6	63.5	63.5	63.5
LOCALIZED	91.1	91.4	90.6	91.7	91.7	91.8	87.7	89.7	85.5
REGIONAL	59.1	60.7	56.4	58.9	60.8	55.8	58.7	61.9 ^d	54.3 ^d
DISTANT	9.3	9.3	9.2	9.1	9.2	8.7	9.2	8.4	9.9
UNSTAGED	32.7	35.0	30.1	33.3	38.3	26.9	21.2 ^d	12.8 ^d	33.6 ^e
STAGE DISTRIBUTION (%) 1	.995-2000 ^b								
ALL STAGES									
Number of cases	13,092	8,008	5,084	10,933	6,745	4,188	1,345	748	597
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	52	51	54	52	51	53	57	56	59
REGIONAL	21	22	19	21	22	20	16	16	16
DISTANT	22	22	21	22	22	21	19	21	18
UNSTAGED	6	5	7	6	5	7	8	7	8
		b							
5-YR RELATIVE SURVIVAL R AGE AT DIAGNOSIS:	RATES, 1995-200	<u>00~</u>							
<pre>AGE AI DIAGNOSIS: <45</pre>	80.2	79.2	81.7	81.9	81.5	82.4	70.6	66.2 ^d	75.3
45-54	68.8	65.2	77.0	69.0	66.0	75.8	66.9	60.8	77.6
55-64	62.1	61.6	63.2	62.0	61.2	63.5	63.0	62.6 ^d	63.7 ^d
65-74	61.8	62.1	61.5	61.5	61.3	61.8	63.6	62.0	57.3 ^d
75+	52.0	56.2	47.7	53.3	58.1	48.4	42.8 ^d	56.1 ^e	33.8 ^d
Under 65	68.5	50.2 66.5	72.5	68.6	58.1 66.9	40.4 72.1	42.0 66.8	50.1 62.9	33.0 72.6
65 and over	58.0	60.2	55.4	58.4	60.9 60.5	55.9	56.1	62.9 65.2 ^d	48.0
os and over	50.0	00.2	55.4	58.4	c.ua	55.9	1.00	05.2-	48.0

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

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.

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

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С d e

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Table XI-5 KIDNEY AND RENAL PELVIS 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 Surviva	l Rates	(SEER ^b)															
1-year	69.7	71.4	74.4	72.2	74.1	74.3	73.1	76.3	77.4	77.4	76.7	77.0	77.5	77.5	76.9	78.6	78.2	80.0
2-year	60.8	62.5	66.4	64.8	66.2	65.8	65.3	68.7	69.6	69.2	71.1	70.0	70.3	70.9	70.6	72.0	72.0	
3-year	56.8	57.9	60.9	60.3	61.2	62.6	62.1	66.1	65.4	66.6	67.4	67.5	66.3	67.9	66.8	68.9		
4-year	53.5	55.0	58.5	56.9	59.3	59.9	58.9	63.8	63.3	63.7	64.1	65.9	64.6	65.1	64.6			
5-year	51.6	53.3	56.4	54.7	57.9	58.2	57.4	61.1	61.8	61.7	62.3	63.4	62.9	63.7				
6-year	50.3	51.2	53.9	54.1	55.6	56.1	56.5	59.1	60.3	60.6	60.8	62.5	61.1					
7-year	48.7	50.3	52.5	52.8	54.0	55.2	55.5	57.0	59.3	58.4	60.4	61.0						
8-year	47.7	49.3	52.1	51.5	53.2	54.4	54.4	56.4	58.3	57.6	59.0							
9-year	46.8	48.2	50.5	50.5	51.8	54.4	53.0	55.4	57.2	56.8								
10-year	46.0	47.3	48.2	49.4	51.1	53.3	51.2	54.7	55.5									
11-year	45.5	46.2	46.1	48.6	49.7	52.7	49.6	53.7										
12-year	44.8	45.7	45.8	48.5	48.8	50.9	48.5											
13-year	44.3	45.4	44.5	47.6	47.7	50.0												
14-year	43.4	45.0	44.4	45.4	46.5													
15-year	42.6	45.0	43.4	43.6														
16-year	42.6	44.8	43.2															
17-year	42.4	44.8																
18-year	41.6																	
19-year	40.8																	
20-year	40.4																	

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

Table XI-6 KIDNEY AND RENAL PELVIS 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 Surviva	l Rates	(SEER ^b)															
1-year	70.4	71.6	75.9	73.0	75.7	74.2	71.9	78.0	79.0	78.7	78.1	76.9	80.0	78.7	78.6	79.0	77.6	79.3
2-year	61.2	62.7	67.5	66.3	67.5	65.8	63.9	69.9	70.2	69.7	71.7	69.4	72.0	72.6	71.5	72.7	71.1	
3-year	56.9	58.4	62.1	61.4	63.6	62.1	61.5	67.4	66.6	67.1	68.1	66.7	68.1	69.1	67.4	69.1		
4-year	53.5	55.5	59.6	56.8	61.2	60.0	58.3	64.5	65.0	63.4	64.6	65.2	65.5	66.1	65.0			
5-year	51.8	53.8	57.7	54.9	59.0	58.3	57.4	61.4	63.2	60.7	62.5	63.0	63.9	64.5				
6-year	50.5	51.7	55.0	54.0	56.2	55.1	56.2	58.9	61.0	60.0	60.5	62.6	61.3					
7-year	48.5	50.6	52.8	53.0	54.5	55.0	54.3	56.9	59.7	57.9	60.5	61.2						
8-year	47.2	49.6	52.4	51.0	52.9	54.6	53.2	56.2	58.5	57.4	59.5							
9-year	46.5	48.5	50.0	49.8	51.1	54.5	51.3	55.2	57.6	56.8								
10-year	45.3	47.6	47.9	49.2	50.1	53.7	49.8	54.4	55.9									
11-year	44.6	46.5	46.1	48.0	48.2	52.2	47.6	53.0										
12-year	43.6	46.0	45.5	47.8	46.5	50.2	46.6											
13-year	43.1	45.8	44.2	46.2	45.0	49.7												
14-year	42.2	44.9	44.1	44.3	43.6													
15-year	41.2	44.9	43.9	43.0														
16-year	41.2	44.6	43.9															
17-year	41.0	44.6																
18-year	40.3																	
19-year	39.6																	
20-year	39.0																	

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

Table XI-7 KIDNEY AND RENAL PELVIS 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 Surviva	l Rates	(SEER ^b)															
1-year	68.5	71.0	71.6	70.9	71.5	74.4	74.9	73.6	74.9	75.4	74.7	77.1	73.6	75.7	74.4	78.1	79.2	80.9
2-year	60.1	62.0	64.4	62.5	64.0	65.8	67.5	66.9	68.8	68.6	70.2	70.8	67.6	68.2	69.1	70.8	73.5	
3-year	56.7	57.0	58.9	58.7	57.4	63.5	63.0	64.1	63.5	65.9	66.3	68.8	63.5	66.1	65.8	68.5		
4-year	53.6	54.0	56.7	57.0	56.2	59.8	59.9	62.7	60.6	64.1	63.3	67.0	63.1	63.6	63.9			
5-year	51.3	52.4	54.2	54.5	56.2	58.1	57.5	60.5	59.7	63.1	62.0	64.0	61.3	62.5				
6-year	50.0	50.5	52.0	54.2	54.6	57.4	57.0	59.5	59.2	61.5	61.1	62.4	60.7					
7-year	48.9	49.8	52.0	52.6	53.1	55.4	57.0	57.2	58.7	59.2	60.2	60.6						
8-year	48.5	48.8	51.4	52.3	53.1	54.3	56.2	56.6	58.1	58.0	58.2							
9-year	47.2	47.8	51.4	51.5	53.0	54.3	55.5	55.6	56.6	56.9								
10-year	47.2	47.0	48.7	49.6	52.6	52.8	53.1	55.1	54.8									
11-year	46.9	45.8	46.0	49.6	52.0	52.8	52.6	54.8										
12-year	46.6	45.3	46.0	49.5	52.0	52.0	51.3											
13-year	46.3	44.7	45.0	49.5	51.7	50.3												
14-year	45.3	44.7	44.9	47.0	50.7													
15-year	44.9	44.7	42.7	44.4														
16-year	44.8	44.7	41.9															
17-year	44.7	44.7																
18-year	43.6																	
19-year	42.7																	
20-year	42.5																	

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

а b

Table XI-8 KIDNEY AND RENAL PELVIS 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

Curr	ent							
Age		Mal	les			Fema	les	
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.01	0.01	0.02	1.49	0.01	0.01	0.02	0.90
10	0.00	0.01	0.03	1.50	0.00	0.01	0.02	0.89
20	0.00	0.03	0.13	1.51	0.00	0.02	0.07	0.89
30	0.02	0.12	0.37	1.52	0.02	0.07	0.19	0.89
40	0.10	0.35	0.79	1.53	0.05	0.18	0.41	0.88
50	0.26	0.72	1.19	1.48	0.13	0.36	0.63	0.85
60	0.49	1.00	1.26	1.31	0.25	0.53	0.72	0.76
Life	time Risk o	of Being Dia	agnosed =	1.49%	Lifetime Ris	sk of Being	Diagnosed	= 0.90%
Life	time Risk o	of Dying =		0.57%	Lifetime Ris	sk of Dying	=	0.34%

			Whit	es			
ent							
	Mal	les			Fema	les	
+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0.01	0.01	0.02	1.57	0.01	0.01	0.02	0.93
0.00	0.01	0.03	1.58	0.00	0.01	0.02	0.92
0.00	0.03	0.13	1.59	0.00	0.02	0.08	0.92
0.02	0.13	0.39	1.60	0.02	0.07	0.20	0.92
0.10	0.37	0.83	1.60	0.06	0.19	0.43	0.91
0.27	0.75	1.25	1.54	0.13	0.38	0.66	0.88
0.51	1.04	1.32	1.36	0.26	0.55	0.74	0.78
	0.01 0.00 0.00 0.02 0.10 0.27	Ma: +10 yrs +20 yrs 0.01 0.01 0.00 0.01 0.00 0.03 0.02 0.13 0.10 0.37 0.27 0.75	Males +10 yrs +20 yrs +30 yrs 0.01 0.01 0.02 0.00 0.01 0.03 0.00 0.03 0.13 0.02 0.13 0.39 0.10 0.37 0.83 0.27 0.75 1.25	Males +10 yrs +20 yrs +30 yrs Eventually 0.01 0.01 0.02 1.57 0.00 0.01 0.03 1.58 0.00 0.03 0.13 1.59 0.02 0.13 0.39 1.60 0.10 0.37 0.83 1.60 0.27 0.75 1.25 1.54	Males +10 yrs +20 yrs +30 yrs Eventually +10 yrs 0.01 0.01 0.02 1.57 0.01 0.00 0.01 0.03 1.58 0.00 0.00 0.03 0.13 1.59 0.00 0.02 0.13 0.39 1.60 0.02 0.10 0.37 0.83 1.60 0.06 0.27 0.75 1.25 1.54 0.13	Males Fema +10 yrs +20 yrs Fventually +10 yrs +20 yrs 0.01 0.01 0.02 1.57 0.01 0.01 0.00 0.01 0.02 1.57 0.01 0.01 0.00 0.01 0.03 1.58 0.00 0.01 0.00 0.03 0.13 1.59 0.00 0.02 0.02 0.13 0.39 1.60 0.02 0.07 0.10 0.37 0.83 1.60 0.06 0.19 0.27 0.75 1.25 1.54 0.13 0.38	males Females Males Females +10 yrs +20 yrs +30 yrs Eventually +10 yrs +20 yrs +30 yrs 0.01 0.01 0.02 1.57 0.01 0.01 0.02 0.00 0.01 0.03 1.58 0.00 0.01 0.02 0.00 0.03 0.13 1.59 0.00 0.02 0.08 0.02 0.13 0.39 1.60 0.02 0.07 0.20 0.10 0.37 0.83 1.60 0.06 0.19 0.43 0.27 0.75 1.25 1.54 0.13 0.38 0.66

Lifetime	Risk	of	Being	Diagnosed	=	1.57%
Lifetime	Risk	of	Dying	=		0.59%

Lifetime	Risk	of	Being	Diagnosed	=	0.93%
Lifetime	Risk	of	Dying	=		0.35%

				Blac	ks			
Curr	ent							
Age		Mal	es			Fema	les	
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.01	0.01	0.02	1.35	0.02	0.03	0.03	0.92
10	0.00	0.01	0.04	1.38	0.00	0.01	0.04	0.92
20	0.00	0.04	0.15	1.39	0.01	0.03	0.10	0.92
30	0.03	0.15	0.43	1.42	0.03	0.09	0.23	0.92
40	0.12	0.41	0.85	1.43	0.06	0.21	0.47	0.91
50	0.31	0.79	1.19	1.42	0.15	0.43	0.71	0.88
60	0.55	1.02	1.24	1.28	0.31	0.61	0.77	0.80
Life	time Risk o	of Being Dia	gnosed =	1.35%	Lifetime Ris	k of Being	Diagnosed	= 0.92%
Life	time Risk o	of Dying =		0.45%	Lifetime Ris	sk of Dying	=	0.28%

Devcan Version 5.2, April 2004, National Cancer Institute (http://srab.cancer.gov/devcan/).

SEER Cancer Statistics Review 1975-2001

Table XI-9 KIDNEY AND RENAL PELVIS CANCER (Invasive)

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

By Race/Ethnicity and Sex

Incidence^a

		te 1997-2 r 100,000		Trend 1992-2001 APC (%)			
	Total	Males	Females	Total	Males	Females	
RACE/ETHNICITY							
All Races	11.3	15.7	7.8	1.4 ^d	1.3 ^d	1.5 ^d	
White White Hispanic ^b White Non-Hispanic ^b	11.7 11.5 11.5	16.2 15.5 16.0	8.1 8.5 7.8	1.6 ^d 1.9 1.7 ^d	1.4 ^d 1.1 1.7 ^d	1.4 ^d 2.9 ^d 1.4 ^d	
Black	13.3	18.8	9.4	2.2 ^d	1.9	2.8 ^d	
Asian/Pacific Islander	6.4	8.9	4.3	1.4	0.4	3.1 ^d	
Amer Ind/Alaska Nat	10.0	13.9	7.0	-5.6 ^d	-5.9 ^d	-	
Hispanic ^b	11.2	15.1	8.2	2.2 ^d	1.4	3.0 ^d	

Mortality^c

		te 1997-2 r 100,000		Т	Trend 1992-2001 APC (%)			
	Total	Males	Females	Total	Males	Females		
RACE/ETHNICITY								
All Races	4.2	6.1	2.8	-0.2	-0.1	-0.4		
White White Hispanic ^b White Non-Hispanic ^b	4.3 3.9 4.3	6.2 5.7 6.3	2.8 2.5 2.9	-0.2 0.3 -0.1	-0.1 0.8 -0.1			
Black	4.2	6.3	2.7	0.2	0.5	-0.1		
Asian/Pacific Islander	2.0	2.8	1.3	1.0	0.8	1.6		
Amer Ind/Alaska Nat	4.7	6.8	3.2	-0.3	-0.4	-1.7		
Hispanic ^b	3.8	5.5	2.4	0.4	0.8	-0.6		

- 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.

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 XI-10 KIDNEY AND RENAL PELVIS 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
SEER INCIDENCE RATES ^a , 1997-2003	<u>L</u>								
REGISTRY									
12 registries	11.3	15.7	7.8	11.7	16.2	8.1	13.3	18.8	9.4
11 registries	11.3	15.7	7.8	11.7	16.2	8.1	13.3	18.8	9.4
9 registries	11.7	16.2	8.1	11.9	16.5	8.2	13.7	18.9	10.0
San Francisco-Oakland	9.7	14.1	6.2	10.5	15.4	6.5	11.2	14.6	8.8
Connecticut	12.6	17.5	8.9	12.7	17.5	9.0	11.4	16.5	7.9
Metropolitan Detroit	14.1	19.1	10.2	13.6	18.6	9.7	16.0	21.3	12.3
Hawaii	9.3	13.1	5.9	11.6	16.2	6.8	-	-	-
Iowa	12.6	17.1	9.1	12.6	17.0	9.1	15.5	-	-
New Mexico	11.3	15.9	7.6	11.4	16.0	7.5	-	-	-
Seattle-Puget Sound	12.0	16.9	8.1	12.1	17.0	8.2	16.9	21.2	13.0
Utah	9.3	11.8	7.1	9.3	11.9	7.2	-	-	-
Metropolitan Atlanta	10.8	15.7	7.1	10.5	15.0	6.9	12.2	18.9	7.7
San Jose-Monterey	9.7	13.0	7.0	10.8	14.5	7.7	_	-	-
Los Angeles	10.6	14.8	7.3	11.3	15.7	7.9	12.6	19.0	8.1
SEER DEATH RATES ^b , 1997-2001									
REGISTRY									
12 registries	3.9	5.7	2.6	4.1	6.0	2.7	4.1	5.8	2.8
11 registries	3.9	5.7	2.6	4.1	6.0	2.7	4.1	5.8	2.8
9 registries	4.0	5.9	2.6	4.2	6.2	2.7	3.9	5.4	2.8
San Francisco-Oakland	3.4	5.1	2.0	3.6	5.4	2.2	4.4	6.1	3.2
Connecticut	3.8	5.8	2.3	3.9	6.0	2.3	2.7	-	-
Metropolitan Detroit	4.6	6.5	3.2	4.7	6.8	3.2	4.3	5.5	3.5
Hawaii	3.3	4.9	2.0	3.7	5.8	-	-	-	-
Iowa	5.0	7.4	3.2	5.0	7.4	3.2	-	-	-
New Mexico	4.3	6.6	2.5	4.3	6.6	2.5	-	-	-
Seattle-Puget Sound	4.3	6.2	2.9	4.5	6.3	3.0	5.4	-	-
Utah	2.9	4.2	1.9	2.9	4.2	1.9	-	-	-
Metropolitan Atlanta	3.5	5.1	2.3	3.6	5.4	2.3	3.1	4.4	2.1
San Jose-Monterey	3.3	4.5	2.3	3.6	5.0	2.4	-	-	-
Los Angeles	3.8	5.3	2.6	4.0	5.6	2.8	4.5	6.9	2.7

Note: b

San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated. 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. 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.

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Table XI-11 KIDNEY AND RENAL PELVIS 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.	4.2	0.02		
High Five States				
Indiana	5.2 ^{bc}	0.13	(01)	23.8
Oklahoma	5.0 ^{bc}	0.17	(02)	19.0
Louisiana	5.0 ^{bc}	0.16	(03)	19.0
North Dakota	5.0 ^b	0.37	(04)	19.0
Iowa	5.0 ^{bc}	0.17	(05)	19.0
Low Five States				
New York	3.7°	0.06	(47)	-11.9
Florida	3.6°	0.06	(48)	-14.3
District of Columbia	3.4 ^b	0.35	(49)	-19.0
Hawaii	3.3 ^{bc}	0.23	(50)	-21.4
Utah	2.9 ^{bc}	0.19	(51)	-31.0

Males

State	Rate	SE	Rank	PD
TOTAL U.S.	6.1	0.03		
High Five States				
Indiana	7.6 ^{bc}	0.25	(01)	24.6
Iowa	7.4 ^{bc}	0.33	(02)	21.3
Kentucky	7.3 ^{bc}	0.30	(03)	19.7
South Dakota	7.2 ^b	0.64	(04)	18.0
North Dakota	7.2 ^b	0.68	(05)	18.0
Low Five States				
New Hampshire	5.4	0.48	(47)	-11.5
New York	5.4°	0.12	(48)	-11.5
Florida	5.3°	0.11	(49)	-13.1
Hawaii	4.9 ^b	0.41	(50)	-19.7
Utah	4.2 ^{bc}	0.36	(51)	-31.1

Females

State	Rate	SE	Rank	PD
TOTAL U.S.	2.8	0.02		
High Five States				
Louisiana	3.6 ^{bc}	0.17	(01)	28.6
Indiana	3.5 ^{bc}	0.14	(02)	25.0
Oklahoma	3.5 ^{bc}	0.19	(03)	25.0
Rhode Island	3.4 ^b	0.32	(04)	21.4
Missouri	3.4 ^{bc}	0.14	(05)	21.4
Low Five States				
District of Columbia	2.0 ^b	0.34	(47)	-28.6
Vermont	2.0 ^b	0.34	(48)	-28.6
Hawaii	2.0 ^b	0.24	(49)	-28.6
Utah	1.9 ^{bc}	0.21	(50)	-32.1
Alaska	1.8 ^b	0.48	(51)	-35.7

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

- ^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 XI-12 KIDNEY AND RENAL PELVIS CANCER (Invasive)

_									
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	Completeh
<u>Race/Sex</u> All Races ^b Males	85,215 51,234	52,025 30,962	30,386 17,228	17,501 10,606	10,439 5,653	144,822 86,613	196,981 116,559	14,013 7,794	210,994 124,353
Females	33,981	21,063	13,158	6,895	4,786	58,209	80,422	6,219	86,641
White ^b	73,002	45,559	27,226	15,629	9,345	125,325	172,073	13,851	185,924
Males	44,504	27,342	15,592	9,638	5,149	75,831	103,061	6,876	109,937
Females	28,498	18,217	11,634	5,991	4,196	49,494	69,012	6,975	75,987
Black ^b	9,493	5,096	2,615	1,568	901	15,254	19,745	2,092	21,837
Males	5,051	2,789	1,335	778	398	8,190	10,384	722	11,106
Females	4,442	2,307	1,280	790	503	7,064	9,361	1,370	10,731
Asian/Pacific Islander ^c	1,491	695	+	+	+	2,272	+	+	+
Males	913	435	+	+	+	1,410	+	+	+
Females	578	260	+	+	+	862	+	+	+
Hispanic ^d	5,300	2,955	+	+	+	8,729	+	+	+
Males	3,045	1,726	+	+	+	4,962	+	+	+
Females	2,255	1,229	+	+	+	3,767	+	+	+

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

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 Specific (Crude)								Age-Adjusted ^f		
<u>Age at Prevalence</u>	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 Males	0.0419%	0.0075% 0.0067%	0.0040%	0.0014%	0.0070%	0.0276% 0.0351%	0.0809%	0.1563% 0.2114%	0.2051% 0.2840%	0.1787% 0.2692%	0.0456% 0.0615%
Females White ^c	0.0328% 0.0458%	0.0085% 0.0080%	0.0042% 0.0042%	0.0014% 0.0013%	0.0063% 0.0070%	0.0203% 0.0288%	0.0548% 0.0833%	0.1076% 0.1656%	0.1461% 0.2178%	0.1306%	0.0330% 0.0478%
Males Females	0.0458% 0.0559% 0.0358%	0.0080% 0.0076% 0.0085%	0.0042% 0.0038% 0.0045%	0.0013% 0.0011% 0.0015%	0.0078% 0.0078% 0.0062%	0.0288% 0.0371% 0.0205%	0.0833% 0.1114% 0.0559%	0.1050% 0.2207% 0.1157%	0.2178% 0.3014% 0.1545%	0.1842% 0.2805% 0.1340%	0.0478% 0.0643% 0.0344%
Black ^c Males Females	0.0365% 0.0431% 0.0306%	0.0079% 0.0048% 0.0112%	0.0056% 0.0064% 0.0047%	0.0020% 0.0022% 0.0018%	0.0092% 0.0090% 0.0094%	0.0330% 0.0415% 0.0256%	0.1028% 0.1388% 0.0727%	0.1667% 0.2285% 0.1178%	0.1944% 0.2522% 0.1563%	0.1734% 0.2629% 0.1324%	0.0498% 0.0657% 0.0383%
Asian/Pacific Islander Males Females	° 0.0210% 0.0268% 0.0156%	0.0036% 0.0020% 0.0052%	- -	0.0013% 0.0020% -	0.0049% 0.0062% 0.0038%	0.0138% 0.0166% 0.0114%	0.0408% 0.0553% 0.0281%	0.0774% 0.1157% 0.0460%	0.1115% 0.1599% 0.0752%	0.1151% 0.1585% 0.0849%	0.0243% 0.0335% 0.0170%
Hispanic ^d Males Females	0.0220% 0.0245% 0.0194%	0.0061% 0.0045% 0.0078%	0.0024% 0.0016% 0.0032%	0.0012% 0.0013% 0.0012%	0.0051% 0.0057% 0.0044%	0.0244% 0.0268% 0.0220%	0.0691% 0.0940% 0.0464%	0.1452% 0.2024% 0.0984%	0.2163% 0.2791% 0.1715%	0.2026% 0.2963% 0.1519%	0.0441% 0.0583% 0.0335%

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

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

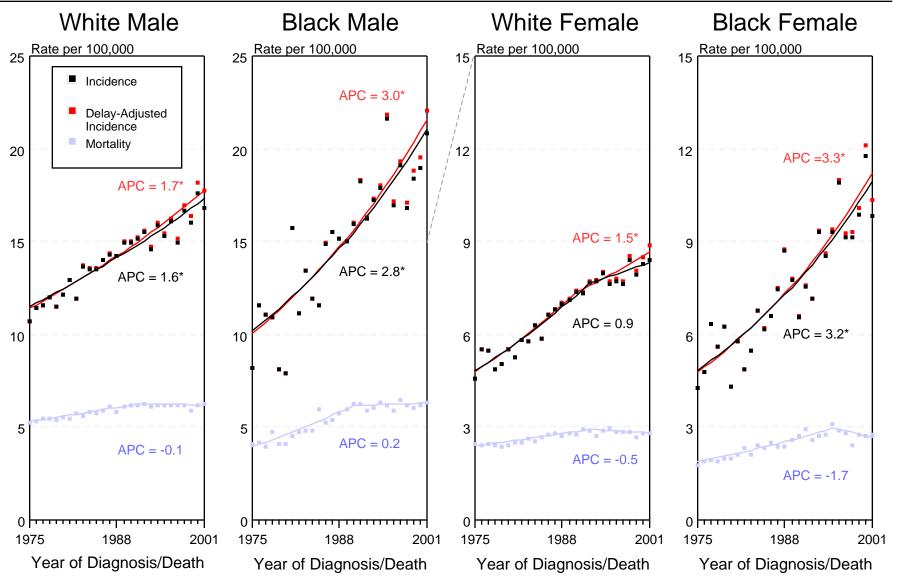
+ Not available.

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SEER Incidence, Delay Adjusted Incidence and US Death Rates+ Kidney and Renal Pelvis Cancer, by Race and Sex



 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).