

Table XI-1
KIDNEY AND RENAL PELVIS CANCER (Invasive)

TRENDS IN SEER INCIDENCE^a AND U.S. MORTALITY^b USING THE JOINPOINT REGRESSION PROGRAM, 1975-2003
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	1975-2003	1.9*						
All Races	Male	1975-2003	1.7*						
All Races	Female	1975-2003	2.2*						
White	Male and Female	1975-1989	2.3*	1989-2003	1.6*				
White	Male	1975-2003	1.6*						
White	Female	1975-1989	2.8*	1989-2003	1.7*				
Black	Male and Female	1975-2003	2.8*						
Black	Male	1975-2003	2.8*						
Black	Female	1975-2003	2.9*						
<u>SEER Delay-Adjusted Incidence^a</u>									
All Races	Male and Female	1975-2003	2.0*						
All Races	Male	1975-2003	1.8*						
All Races	Female	1975-2003	2.3*						
White	Male and Female	1975-1991	2.4*	1991-1997	0.7	1997-2003	3.2*		
White	Male	1975-2003	1.7*						
White	Female	1975-1992	2.8*	1992-1999	0.7	1999-2003	5.2*		
Black	Male and Female	1975-2003	3.0*						
Black	Male	1975-2003	3.0*						
Black	Female	1975-2003	3.1*						
<u>U.S. Cancer Mortality^b</u>									
All Races	Male and Female	1975-1992	1.1*	1992-2003	-0.2				
All Races	Male	1975-1991	1.1*	1991-2003	-0.1				
All Races	Female	1975-1992	1.3*	1992-2003	-0.5*				
White	Male and Female	1975-1992	1.0*	1992-2003	-0.1				
White	Male	1975-1991	1.0*	1991-2003	-0.1				
White	Female	1975-1992	1.2*	1992-2003	-0.5				
Black	Male and Female	1975-1991	2.7*	1991-2003	-0.1				
Black	Male	1975-1990	3.1*	1990-2003	0.0				
Black	Female	1975-1995	2.3*	1995-2003	-1.1				

Joinpoint Regression Program Version 3.1, April 2006, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^a Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

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

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

Table XI-2
 KIDNEY AND RENAL PELVIS CANCER (Invasive)

AGE ADJUSTED SEER INCIDENCE^a RATES BY YEAR, 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	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	7.7	11.6	4.7
1977	8.1	11.4	5.5	8.1	11.7	5.5	8.5	11.1	6.4
1978	7.8	11.8	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	11.6	15.4	8.8
1989	10.3	14.5	7.1	10.6	15.0	7.2	10.8	15.1	7.8
1990	10.4	14.7	7.1	10.7	15.0	7.4	10.5	15.9	6.6
1991	10.6	15.0	7.2	10.8	15.2	7.3	12.2	18.3	7.7
1992	10.8	15.3	7.4	11.1	15.6	7.7	11.0	16.4	7.2
1993	10.7	14.7	7.6	10.8	14.7	7.7	12.8	17.3	9.4
1994	11.3	15.6	7.9	11.5	15.9	8.0	12.7	18.0	8.7
1995	11.1	15.5	7.6	11.1	15.4	7.7	14.2	21.5	9.2
1996	11.3	15.8	7.9	11.5	16.2	7.8	13.6	16.9	11.1
1997	10.9	15.0	7.6	11.0	15.1	7.7	13.4	19.2	9.2
1998	11.8	16.4	8.2	12.1	16.7	8.5	12.6	17.1	9.1
1999	11.4	15.9	7.8	11.6	16.2	7.9	13.6	18.7	9.9
2000	12.4	17.3	8.5	12.7	17.9	8.4	14.7	19.3	11.7
2001	12.4	17.3	8.5	12.7	17.6	8.7	15.5	22.8	10.3
2002	12.7	17.6	8.7	12.9	17.8	8.9	15.0	21.8	10.3
2003	13.0	17.5	9.4	13.3	17.6	9.7	14.2	20.7	9.4
1975-2003	10.3	14.5	7.0	10.4	14.7	7.1	11.5	16.2	8.0

^a SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
 - Statistic not shown. Rate based on less than 16 cases for the time interval.

Table XI-3
 KIDNEY AND RENAL PELVIS CANCER (Invasive)

AGE-ADJUSTED U.S. DEATH^a RATES BY YEAR, 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	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	2.6	3.9	5.7	2.7	3.3	4.9	2.1
1984	3.9	5.8	2.6	4.0	5.9	2.6	3.5	4.9	2.4
1985	4.0	5.8	2.7	4.0	5.8	2.7	3.8	6.0	2.4
1986	4.0	5.8	2.8	4.1	5.9	2.8	3.7	5.3	2.5
1987	4.1	6.0	2.8	4.2	6.1	2.8	3.7	5.5	2.4
1988	4.0	5.9	2.7	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	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	6.2	2.9	4.3	6.2	2.9	4.3	6.5	2.8
1998	4.3	6.2	2.8	4.3	6.3	2.9	4.0	6.3	2.5
1999	4.1	5.9	2.7	4.1	6.0	2.7	4.2	6.1	2.8
2000	4.2	6.1	2.8	4.3	6.2	2.8	4.1	6.3	2.7
2001	4.3	6.2	2.8	4.3	6.3	2.8	4.3	6.4	2.8
2002	4.2	6.1	2.8	4.3	6.3	2.8	4.1	5.8	2.8
2003	4.2	6.1	2.7	4.3	6.2	2.8	4.1	6.1	2.7
1975-2003	4.1	5.9	2.7	4.1	6.0	2.8	3.8	5.6	2.6

^a NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table XI-4
KIDNEY AND RENAL PELVIS CANCER (Invasive)

SEER INCIDENCE^a AND U.S. DEATH^b 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>SEER INCIDENCE</u>									
<u>AGE AT DIAGNOSIS</u>									
AGE-ADJUSTED RATES, 2000-2003									
All ages	12.6	17.5	8.7	13.0	18.0	9.0	14.1	20.1	9.7
Under 65	6.7	8.9	4.6	6.9	9.1	4.7	7.9	11.1	5.3
65 and over	53.4	76.5	37.1	55.3	79.1	38.2	56.4	82.5	39.9
All ages(IARC world std) ^c	8.9	12.1	6.1	9.2	12.5	6.3	10.1	14.2	6.9
AGE-SPECIFIC RATES, 2000-2003									
<1	1.8	1.9	1.7	1.7	1.9	1.5	-	-	-
1-4	1.9	1.9	1.8	1.9	2.0	1.8	2.1	1.9	2.4
5-9	0.5	0.4	0.5	0.4	0.4	0.4	0.6	-	-
10-14	0.1	0.1	-	0.1	-	-	-	-	-
15-19	0.1	-	0.2	0.1	-	-	-	-	-
20-24	0.3	0.2	0.3	0.2	0.2	0.3	-	-	-
25-29	0.7	0.7	0.7	0.7	0.8	0.7	1.1	-	1.3
30-34	1.4	1.5	1.4	1.4	1.5	1.3	2.0	1.7	2.3
35-39	3.3	4.1	2.4	3.3	4.1	2.5	3.9	5.4	2.6
40-44	6.2	7.7	4.8	6.3	7.8	4.9	7.4	9.2	5.7
45-49	11.1	14.9	7.4	11.5	15.3	7.7	13.0	18.3	8.3
50-54	17.8	23.8	12.2	18.3	24.2	12.6	22.2	31.7	14.1
55-59	27.2	37.3	17.6	27.8	37.6	18.5	32.6	49.1	18.8
60-64	38.7	55.0	23.7	40.2	56.8	24.9	42.0	62.9	25.2
65-69	48.3	66.4	32.8	50.1	68.5	34.1	54.1	78.8	35.3
70-74	55.5	78.1	37.5	57.2	80.6	38.3	60.4	85.9	42.7
75-79	60.2	87.3	41.1	62.5	91.0	42.4	59.4	81.1	46.0
80-84	57.8	82.4	42.5	59.4	84.2	44.1	59.2	98.0	38.2
85+	44.0	70.0	32.4	45.2	73.0	32.9	45.1	68.2	36.0
<u>U.S. MORTALITY</u>									
<u>AGE AT DEATH</u>									
AGE-ADJUSTED RATES, 2000-2003									
All ages	4.2	6.1	2.8	4.3	6.2	2.8	4.1	6.2	2.8
Under 65	1.6	2.3	0.9	1.6	2.3	0.9	1.7	2.5	1.1
65 and over	22.5	32.8	15.6	23.0	33.5	15.9	20.8	31.1	14.7
All ages(IARC world std) ^c	2.6	3.8	1.7	2.7	3.9	1.7	2.6	3.9	1.7
AGE-SPECIFIC RATES, 2000-2003									
<1	-	-	-	-	-	-	-	-	-
1-4	0.1	0.1	0.1	0.1	-	0.1	-	-	-
5-9	0.1	0.1	0.1	0.1	0.1	0.1	0.2	-	-
10-14	0.0	-	0.0	0.0	-	-	-	-	-
15-19	0.0	0.0	-	0.0	-	-	-	-	-
20-24	0.1	0.1	0.1	0.1	0.1	-	-	-	-
25-29	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	-
30-34	0.2	0.2	0.1	0.1	0.2	0.1	0.4	0.5	-
35-39	0.4	0.5	0.2	0.3	0.5	0.2	0.7	0.9	0.6
40-44	1.1	1.5	0.7	1.1	1.5	0.6	1.3	1.7	0.9
45-49	2.3	3.2	1.3	2.3	3.3	1.2	2.6	3.4	1.8
50-54	4.3	6.3	2.3	4.4	6.4	2.4	4.5	6.9	2.5
55-59	7.3	10.7	4.0	7.4	10.9	4.1	7.6	11.3	4.5
60-64	11.3	16.6	6.5	11.5	16.8	6.6	11.1	17.4	6.1
65-69	15.0	21.4	9.5	15.6	22.0	9.9	13.5	20.3	8.5
70-74	19.8	28.1	13.2	20.4	28.7	13.6	17.6	26.7	11.6
75-79	24.5	35.3	17.0	24.9	35.8	17.2	23.8	35.1	17.0
80-84	29.3	42.7	21.2	29.8	43.3	21.6	27.5	42.2	19.9
85+	32.9	51.5	25.0	33.6	53.1	25.2	30.3	44.4	24.9

^a SEER 17 areas. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

^b NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

^c Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table XI-5
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 RATES									
YEAR OF DIAGNOSIS:									
1960-1963 ^a	-	-	-	37	36	39	38	38	37
1970-1973 ^a	-	-	-	46	44	50	44	40	49
1975-1977 ^b	50.8	50.8	50.7	50.6	50.8	50.4	50.1	48.9	52.0 ^f
1978-1980 ^b	53.9	53.8	53.9	53.7	54.1	52.9	57.1	52.0	63.4 ^f
1981-1983 ^b	51.3	52.3	49.6	51.3	52.6	49.2	51.8	51.6	52.0
1984-1986 ^b	55.7	56.2	55.0	55.9	56.6	54.9	53.9	50.5	59.1
1987-1989 ^b	57.9	58.2	57.4	58.5	59.1	57.5	55.8	53.2	58.6
1990-1992 ^b	61.5	61.8	61.1	62.2	62.7	61.5	57.9	56.5	59.1
1993-1995 ^b	63.0	63.2	62.7	63.6	64.4	62.4	59.2	56.1	63.5
1996-2002 ^b	65.7 ^e	65.4 ^e	66.1 ^e	65.8 ^e	65.8 ^e	65.7 ^e	66.0 ^e	64.1 ^e	67.6 ^e
5-YR PERIOD SURVIVAL RATES^{cd}									
YEAR OF DIAGNOSIS:									
1996-2002	66.6	66.5	66.7	66.8	66.9	66.6	64.9	63.4	66.2
STAGE DISTRIBUTION (%) 1996-2002^c									
All Stages									
Number of cases	32,374	19,935	12,439	27,208	16,851	10,357	3,288	1,903	1,385
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	54	53	56	54	53	56	58	58	59
Regional	20	21	19	20	21	19	16	17	16
Distant	21	21	20	21	21	20	19	20	18
Unstaged	5	4	6	5	4	6	6	5	7
5-YR RELATIVE SURVIVAL RATES, 1996-2002^c									
AGE AT DIAGNOSIS:									
<45	78.9	76.3	82.4	80.3	78.2	83.3	72.2	65.6	78.9
45-54	70.6	68.0	76.1	70.8	68.2	76.8	67.8	65.0	72.3
55-64	66.3	66.0	66.8	66.7	66.5	67.0	63.2	60.2	66.7
65-74	63.2	63.7	62.6	63.1	63.7	62.3	63.3	64.9	60.8
75+	51.8	55.5	48.1	52.5	56.9	48.2	44.3	44.9 ^f	43.3 ^f
Under 65	70.6	68.8	74.0	71.1	69.4	74.3	67.6	63.6	72.9
65 and over	58.7	60.8	56.0	59.0	61.2	55.9	56.5	59.3	53.5
STAGE:									
All Stages	65.6	65.7	65.4	65.7	66.1	65.1	64.4	62.4	66.3
Localized	90.4	90.5	90.1	90.8	91.1	90.4	86.4	85.3	87.2
Regional	61.7	63.7	58.2	62.2	64.5	58.0	55.4	54.5	55.2
Distant	9.5	9.9	9.0	9.5	10.1	8.3	10.3	7.8	14.1
Unstaged	33.1	36.1	29.0	31.5	35.7	26.0	37.9 ^f	34.6 ^f	38.9 ^f

^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 (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).

Rates are based on follow-up of patients into 2003.

^c Rates are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). California excluding SF/SJM/LA, Kentucky, Louisiana, and New Jersey contribute cases for diagnosis years 2000-2002. The remaining 13 SEER Areas contribute cases for the entire period 1996-2002. Rates are based on follow-up of patients into 2003.

^d Period survival provides a more up-to-date estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three calendar year blocks (2000-2002: 0-1 year survival), (1999-2001: 1-2 year survival), (1998-2000: 2-3 year survival), (1997-1999: 3-4 year survival), (1996-1998: 4-5 years survival).

^e The difference in rates between 1975-1977 and 1996-2002 is statistically significant ($p < .05$).

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

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

- Statistic could not be calculated due to fewer than 16 cases during the time period.

Table XI-6
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	2001	2002
Relative Survival Rates (SEER ^b)																				
1-year	69.7	71.4	74.3	72.2	74.1	74.2	73.0	76.3	77.3	77.5	76.8	77.1	77.6	77.6	77.0	78.7	78.4	80.3	81.8	79.8
2-year	60.8	62.4	66.3	64.8	66.2	65.7	65.2	68.7	69.4	69.3	71.2	70.1	70.3	71.2	70.6	72.2	72.4	74.7	74.6	
3-year	56.8	57.8	60.8	60.4	61.3	62.6	62.0	66.1	65.3	66.7	67.4	67.7	66.4	68.3	67.0	69.2	68.5	70.4		
4-year	53.5	54.9	58.4	56.9	59.3	59.9	58.9	63.8	63.2	63.8	64.2	66.0	64.6	65.6	64.8	66.6	65.8			
5-year	51.7	53.2	56.3	54.7	58.0	58.1	57.4	61.1	61.7	61.8	62.5	63.5	63.0	64.3	63.5	65.7				
6-year	50.4	51.2	54.0	54.0	55.8	56.1	56.5	59.2	59.8	60.8	61.0	62.6	61.4	63.0	61.9					
7-year	48.7	50.3	52.5	52.8	54.2	55.2	55.5	57.1	59.1	58.6	60.9	61.4	60.4	61.6						
8-year	47.7	49.3	51.7	51.5	53.4	54.4	54.4	56.5	58.2	58.0	59.6	60.1	59.7							
9-year	46.8	48.3	50.5	50.4	52.2	54.1	53.1	55.6	57.0	57.2	59.0	59.8								
10-year	46.0	47.4	48.3	49.4	51.3	53.4	51.3	55.0	55.4	56.9	56.8									
11-year	45.5	46.3	46.3	48.7	50.2	52.9	49.9	54.2	54.4	54.9										
12-year	44.8	45.8	46.0	48.6	49.3	51.3	48.9	52.8	53.7											
13-year	44.3	45.5	44.7	47.5	48.5	50.7	48.8	52.1												
14-year	43.5	45.1	44.3	45.7	47.3	49.7	48.8													
15-year	42.7	45.1	43.9	44.2	47.1	49.1														
16-year	42.6	45.1	43.6	44.0	46.6															
17-year	42.5	45.1	43.1	43.3																
18-year	41.8	44.9	42.2																	
19-year	41.0	44.3																		
20-year	40.7																			

^a Survival rates are relative rates expressed as percents.

^b Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table XI-7
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	2001	2002
Relative Survival Rates (SEER ^b)																				
1-year	70.3	71.6	75.8	73.1	75.8	74.0	71.8	77.9	78.9	78.7	78.1	77.0	80.0	78.7	78.9	79.1	77.9	79.7	81.3	80.5
2-year	61.1	62.7	67.3	66.3	67.5	65.6	63.7	69.8	70.0	69.7	71.8	69.4	72.1	72.7	71.7	72.9	71.5	73.8	74.3	
3-year	56.9	58.3	62.0	61.4	63.7	61.9	61.3	67.2	66.5	67.1	68.1	66.7	68.1	69.4	67.9	69.5	67.8	69.0		
4-year	53.5	55.5	59.3	56.8	61.2	59.6	58.2	64.4	64.9	63.6	64.7	65.2	65.6	66.5	65.5	66.8	65.0			
5-year	51.9	53.7	57.5	54.7	59.1	57.9	57.3	61.4	63.1	60.9	62.7	63.0	63.9	65.1	63.6	66.1				
6-year	50.6	51.6	54.9	53.8	56.5	55.0	56.1	58.9	60.5	60.3	61.0	62.5	61.5	64.6	61.5					
7-year	48.5	50.6	52.6	52.8	54.8	54.7	54.2	56.9	59.6	58.2	60.7	61.5	60.9	63.1						
8-year	47.2	49.6	51.9	50.9	53.3	53.8	53.1	56.1	58.2	57.7	60.1	60.2	59.9							
9-year	46.4	48.5	49.8	49.7	51.5	53.7	51.3	55.3	57.4	57.1	59.5	60.1								
10-year	45.3	47.6	47.8	48.8	50.4	52.9	49.9	54.6	55.8	56.7	57.2									
11-year	44.5	46.6	46.1	47.8	48.8	52.3	47.8	53.2	54.3	55.0										
12-year	43.6	46.1	45.4	47.7	47.3	50.3	46.9	51.7	53.8											
13-year	43.0	45.9	44.0	46.2	46.0	50.2	46.8	51.3												
14-year	42.2	45.1	43.6	44.3	44.9	49.4	46.8													
15-year	41.2	45.1	43.6	43.4	44.2	48.8														
16-year	41.0	44.8	43.6	43.1	43.5															
17-year	41.0	44.8	43.4	43.1																
18-year	40.3	44.8	41.7																	
19-year	39.7	44.7																		
20-year	39.1																			

^a Survival rates are relative rates expressed as percents.

^b Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table XI-8
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	2001	2002
Relative Survival Rates (SEER ^b)																				
1-year	68.5	71.0	71.6	70.9	71.5	74.5	74.9	73.7	74.7	75.5	74.9	77.2	73.7	76.0	74.2	78.0	79.2	81.4	82.5	78.8
2-year	60.2	62.0	64.4	62.5	64.1	66.0	67.5	66.9	68.5	68.6	70.4	71.2	67.6	68.7	68.9	71.1	73.6	76.2	75.1	
3-year	56.7	57.0	58.8	58.6	57.5	63.7	63.0	64.2	63.2	66.0	66.4	69.0	63.6	66.7	65.6	68.7	69.6	72.6		
4-year	53.6	54.0	56.6	57.1	56.3	60.1	60.0	62.9	60.3	64.3	63.4	67.2	63.2	64.2	63.8	66.3	67.0			
5-year	51.3	52.4	54.1	54.6	56.3	58.3	57.6	60.7	59.4	63.1	62.2	64.2	61.5	63.0	62.8	65.1				
6-year	50.1	50.5	52.3	54.3	54.7	57.8	57.1	59.7	58.7	61.5	60.8	62.8	61.0	60.7	62.4					
7-year	49.0	49.8	52.2	52.7	53.2	55.8	57.1	57.5	58.4	59.2	60.6	61.2	59.6	59.4						
8-year	48.5	48.8	51.4	52.3	53.2	54.7	56.1	57.0	58.0	58.4	58.8	59.9	59.1							
9-year	47.3	47.8	51.4	51.4	53.1	54.5	55.8	56.1	56.4	57.2	58.2	58.9								
10-year	47.2	47.0	49.2	49.7	52.6	53.2	53.3	55.3	54.8	57.0	55.8									
11-year	46.9	45.9	46.6	49.7	52.2	53.2	52.8	55.3	54.4	54.8										
12-year	46.6	45.3	46.6	49.3	51.8	52.5	51.6	54.2	53.6											
13-year	46.3	44.8	45.8	49.3	51.8	51.4	51.6	53.3												
14-year	45.4	44.7	45.1	47.4	50.8	49.9	51.6													
15-year	45.1	44.7	43.5	45.2	50.7	48.9														
16-year	45.0	44.7	42.8	44.9	50.7															
17-year	44.8	44.7	42.4	43.4																
18-year	43.9	44.4	42.2																	
19-year	43.0	43.5																		
20-year	43.0																			

^a Survival rates are relative rates expressed as percents.

^b Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table XI-9
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 (17 SEER Areas) With Cancer and
 Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

2001-2003

Race/ Ethnicity	Current Age	Males				Females			
		+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
All Races	0	0.01	0.01	0.02	1.65	0.01	0.01	0.02	0.97
	10	0.00	0.01	0.04	1.66	0.00	0.01	0.03	0.97
	20	0.01	0.03	0.15	1.67	0.01	0.02	0.09	0.97
	30	0.03	0.14	0.42	1.69	0.02	0.08	0.23	0.97
	40	0.12	0.40	0.89	1.69	0.06	0.21	0.46	0.96
	50	0.29	0.80	1.33	1.63	0.15	0.41	0.70	0.92
	60	0.55	1.12	1.40	1.45	0.27	0.58	0.77	0.81
White	0	0.01	0.01	0.02	1.72	0.01	0.01	0.02	1.01
	10	0.00	0.01	0.04	1.73	0.00	0.01	0.03	1.01
	20	0.00	0.04	0.15	1.73	0.01	0.02	0.09	1.01
	30	0.03	0.15	0.43	1.75	0.02	0.08	0.23	1.01
	40	0.12	0.41	0.92	1.75	0.07	0.22	0.48	1.00
	50	0.30	0.83	1.38	1.69	0.15	0.43	0.73	0.95
	60	0.57	1.17	1.45	1.50	0.28	0.60	0.79	0.83
Black	0	0.01	0.01	0.02	1.46	0.01	0.02	0.03	0.91
	10	0.00	0.01	0.04	1.48	0.00	0.01	0.04	0.92
	20	0.01	0.04	0.16	1.49	0.01	0.03	0.11	0.92
	30	0.03	0.16	0.49	1.52	0.03	0.10	0.25	0.92
	40	0.13	0.47	0.96	1.54	0.07	0.23	0.47	0.91
	50	0.36	0.88	1.29	1.51	0.16	0.41	0.69	0.87
	60	0.60	1.09	1.30	1.34	0.27	0.58	0.74	0.78
Asian/ Pacific Islander	0	0.00	0.00	0.01	1.01	0.00	0.01	0.01	0.58
	10	0.00	0.00	0.02	1.02	0.00	0.00	0.01	0.58
	20	0.00	0.02	0.07	1.02	0.00	0.01	0.04	0.58
	30	0.01	0.07	0.22	1.03	0.01	0.04	0.11	0.58
	40	0.06	0.21	0.48	1.02	0.03	0.10	0.24	0.57
	50	0.15	0.43	0.73	0.98	0.07	0.21	0.40	0.55
	60	0.29	0.61	0.80	0.86	0.14	0.33	0.46	0.49
Hispanic ^a	0	0.01	0.01	0.02	1.68	0.01	0.01	0.01	1.09
	10	0.00	0.01	0.03	1.69	0.00	0.00	0.02	1.09
	20	0.00	0.03	0.13	1.70	0.00	0.02	0.09	1.10
	30	0.02	0.13	0.39	1.71	0.02	0.08	0.24	1.10
	40	0.10	0.37	0.83	1.71	0.07	0.22	0.50	1.09
	50	0.28	0.75	1.31	1.66	0.16	0.44	0.77	1.04
	60	0.50	1.10	1.42	1.48	0.29	0.63	0.85	0.91

Race/Ethnicity	Lifetime Risk of Developing		Lifetime Risk of Dying	
	Males	Females	Males	Females
All Races	1.65%	0.97%	0.59%	0.34%
White	1.72%	1.01%	0.61%	0.35%
Black	1.46%	0.91%	0.45%	0.29%
Asian/Pacific Islander	1.01%	0.58%	0.35%	0.20%
Hispanic ^a	1.68%	1.09%	0.60%	0.35%

Devcan Version 6.1.0, April 2006, National Cancer Institute (<http://srab.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Mortality data are from the NCHS public use data file for the total US.

^a Hispanic is not mutually exclusive from Whites, Blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Underlying incidence data for Hispanics are based on NHIA and exclude cases from Hawaii, Seattle, Alaska Native Registry and Kentucky. Underlying mortality data for Hispanics exclude deaths from Minnesota, New Hampshire and North Dakota.

Table XI-10
KIDNEY AND RENAL PELVIS CANCER (Invasive)

SEER INCIDENCE AND U.S. MORTALITY
AGE-ADJUSTED RATES AND TRENDS^a
By Race/Ethnicity and Sex

SEER Incidence	Rate 2000-2003 ^b			Trend 1994-2003 ^c		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
RACE/ETHNICITY						
All Races	12.6	17.5	8.7	1.9*	1.7*	1.9*
White	13.0	18.0	9.0	2.2*	1.9*	2.2*
White Hispanic ^d	12.4	16.4	9.2	2.6*	3.1*	1.5
White Non-Hispanic ^d	12.9	17.9	8.8	1.9*	1.6*	2.1*
Black	14.1	20.1	9.7	1.1	1.4	0.8
Asian/Pacific Islander	6.3	8.8	4.4	1.4	1.3	1.8*
Amer Ind/Alaska Nat ^e	14.9	20.9	10.0	-2.0	0.5	-
Hispanic ^d	12.1	16.0	9.0	2.7*	3.2*	1.6
U.S. Mortality ^f						
	Rate 2000-2003			Trend 1994-2003		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
RACE/ETHNICITY						
All Races	4.2	6.1	2.8	-0.3	-0.2	-0.8*
White	4.3	6.2	2.8	-0.2	-0.1	-0.7*
White Hispanic ^d	3.8	5.5	2.4	0.3	0.3	-0.1
White Non-Hispanic ^d	4.3	6.3	2.8	-0.1	0.0	-0.7*
Black	4.1	6.2	2.8	-0.5	-0.4	-0.7
Asian/Pacific Islander	1.8	2.6	1.2	-1.9	-2.2	-1.3
Amer Ind/Alaska Nat	4.7	6.4	3.2	0.1	0.0	-1.1
Hispanic ^d	3.6	5.3	2.4	0.3	0.2	0.1

- The APC is the Annual Percent Change over the time interval.
- Statistic not shown. Rate based on less than 16 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.
- ^a Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
- ^b Incidence data used in calculating the rates are from the 17 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).
- ^c Incidence data used in calculating the trends are from the 13 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia).
- ^d 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 are based on NHIA and exclude cases from Hawaii, Seattle, Alaska Native Registry and Kentucky. The 2000-2003 Hispanic and Non-Hispanic death rates exclude deaths from Minnesota, New Hampshire and North Dakota. The 1994-2003 Hispanic and Non-Hispanic mortality trends exclude deaths from Maine, Minnesota, New Hampshire, North Dakota, and Oklahoma.
- ^e Incidence data for American Indians/Alaska Natives include cases from Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, Atlanta, and the Alaska Native Registry. Incidence rates are for diagnosis years 1999-2002. Incidence trends are for diagnosis years 1994-2002.
- ^f Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).
- * The APC is significantly different from zero (p<.05).

Table XI-11
KIDNEY AND RENAL PELVIS CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE RATES^a
By Registry, Race/Ethnicity and Sex

	All Races			Whites		Blacks		Asian/Pacific Islanders		Hispanics ^b	
	Total	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females
<u>SEER INCIDENCE RATES^a, 2000-2003</u>											
REGISTRY											
17 SEER Areas ^c	12.6	17.5	8.7	18.0	9.0	20.1	9.7	8.8	4.4	16.0	9.0
13 SEER Areas ^c	12.1	16.7	8.4	17.3	8.7	20.3	9.7	9.0	4.6	15.9	8.6
11 SEER Areas ^c	12.1	16.7	8.4	17.3	8.7	20.4	9.7	9.0	4.6	16.0	8.6
9 SEER Areas ^c	12.6	17.4	8.8	17.7	8.9	21.1	10.4	10.3	4.9	17.3	8.8
San Francisco-Oakland	10.2	14.0	7.2	15.3	7.7	15.8	9.9	8.0	4.2	15.9	7.1
Connecticut	13.9	19.3	9.6	19.3	9.5	19.1	9.9	-	-	15.2	12.5
Metropolitan Detroit	14.9	20.8	10.5	19.8	10.0	25.6	12.7	-	-	18.7	-
Hawaii	9.8	14.3	6.0	16.1	6.9	-	-	13.4	5.6	-	-
Iowa	14.2	18.9	10.4	18.7	10.3	-	-	-	-	-	-
New Mexico	11.6	16.0	7.9	16.0	7.6	-	-	-	-	19.0	9.3
Seattle-Puget Sound	13.4	18.7	9.0	19.0	9.2	22.1	11.6	11.1	5.6	-	-
Utah	10.2	13.0	7.8	13.2	7.9	-	-	-	-	15.8	-
Metropolitan Atlanta	11.8	17.2	7.6	16.9	7.4	19.8	8.3	-	-	12.9	-
San Jose-Monterey	9.8	13.3	6.9	14.7	7.8	-	-	6.7	3.3	14.0	12.4
Los Angeles	11.0	15.4	7.6	16.7	8.1	19.0	8.3	7.2	4.3	15.4	7.9
Rural Georgia	11.7	17.5	6.8	18.2	-	-	-	-	-	-	-
California exclud. SF/SJM/LA	11.6	16.2	7.7	16.8	8.0	17.9	8.4	8.0	3.7	16.4	9.9
Kentucky	15.2	21.0	10.8	20.9	10.7	22.4	13.4	-	-	-	-
Louisiana	15.7	21.5	11.3	21.8	11.7	21.6	10.5	-	-	16.4	-
New Jersey	13.8	19.4	9.5	19.8	9.7	18.5	8.4	8.2	3.9	14.6	7.9

^a Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130)

^b Hispanic is not mutually exclusive from Whites, Blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from Hawaii, Seattle, Alaska Native Registry and Kentucky.

^c The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.

The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey

- Statistic not shown. Rate based on less than 16 cases for the time interval.

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

AGE-ADJUSTED SEER DEATH RATES^a
By Registry, Race/Ethnicity and Sex

	All Races			Whites		Blacks		Asian/Pacific Islanders		Hispanics ^b	
	Total	Males	Females	Males	Females	Males	Females	Males	Females	Males	Females
<u>SEER DEATH RATES^a, 2000-2003</u>											
REGISTRY											
17 SEER Areas ^c	4.1	5.9	2.6	6.2	2.7	6.3	2.7	3.0	1.2	5.0	2.5
13 SEER Areas ^c	3.9	5.7	2.5	6.0	2.6	6.3	2.6	2.9	1.3	5.0	2.3
11 SEER Areas ^c	3.9	5.7	2.5	6.0	2.6	6.3	2.6	2.9	1.3	5.0	2.3
9 SEER Areas ^c	4.0	5.9	2.5	6.2	2.6	6.2	2.8	2.9	1.2	5.1	2.2
San Francisco-Oakland	3.2	4.6	2.2	5.2	2.4	5.3	3.2	2.1	0.9	5.5	-
Connecticut	3.7	5.7	2.2	5.9	2.1	4.4	3.3	-	-	-	-
Metropolitan Detroit	4.6	6.9	2.9	6.9	3.0	7.3	2.7	-	-	-	-
Hawaii	2.9	4.2	1.7	5.7	-	-	-	3.8	1.8	-	-
Iowa	5.1	7.8	3.1	7.8	3.1	-	-	-	-	-	-
New Mexico	4.5	6.7	2.8	6.5	2.7	-	-	-	-	6.5	3.2
Seattle-Puget Sound	4.1	5.9	2.6	6.0	2.8	-	-	-	-	-	-
Utah	3.2	4.7	2.0	4.7	1.9	-	-	-	-	-	-
Metropolitan Atlanta	3.6	5.5	2.3	5.6	2.3	6.0	2.4	-	-	-	-
San Jose-Monterey	3.1	3.9	2.4	4.2	2.8	-	-	-	-	2.9	3.8
Los Angeles	3.7	5.5	2.4	5.8	2.6	6.9	2.3	3.1	1.5	5.3	2.2
Rural Georgia	3.9	-	-	-	-	-	-	-	-	-	-
California exclud. SF/SJM/LA	3.9	5.7	2.4	5.9	2.5	5.4	2.6	3.3	1.2	5.5	3.2
Kentucky	4.8	7.0	3.3	7.0	3.3	6.7	3.4	-	-	-	-
Louisiana	5.2	7.3	3.6	7.5	3.9	7.0	3.0	-	-	-	-
New Jersey	4.2	6.1	2.8	6.3	2.9	5.9	2.2	2.4	-	3.1	-
Total U.S.	4.2	6.1	2.8	6.2	2.8	6.2	2.8	2.6	1.2	5.3	2.4

^a NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^b Hispanic is not mutually exclusive from Whites, Blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. The 2000-2003 Hispanic death rates do not include deaths from Minnesota, New Hampshire and North Dakota.

^c The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.

The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table XI-13
KIDNEY AND RENAL PELVIS CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, ALL RACES, 2000-2003

Males and Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	4.2	0.02							
High Five States									
Louisiana	5.2 ^{bc}	0.18	(01)	23.8					
Indiana	5.2 ^{bc}	0.15	(02)	23.8					
Oklahoma	5.2 ^{bc}	0.19	(03)	23.8					
Iowa	5.1 ^{bc}	0.20	(04)	21.4					
North Dakota	5.0 ^b	0.42	(05)	19.0					
Low Five States									
Florida	3.6 ^c	0.07	(47)	-14.3					
District of Columbia	3.6	0.40	(48)	-14.3					
New York	3.5 ^{bc}	0.07	(49)	-16.7					
Utah	3.2 ^{bc}	0.22	(50)	-23.8					
Hawaii	2.9 ^{bc}	0.23	(51)	-31.0					
Alabama	3.8	0.14	(43)	-9.5	Montana	4.6	0.34	(14)	9.5
Alaska	4.4	0.60	(24)	4.8	Nebraska	4.6	0.25	(16)	9.5
Arizona	4.0	0.14	(36)	-4.8	Nevada	4.0	0.23	(35)	-4.8
Arkansas	4.2	0.19	(31)	0.0	New Hampshire	4.0	0.28	(39)	-4.8
California	3.7 ^c	0.06	(44)	-11.9	New Jersey	4.2	0.11	(32)	0.0
Colorado	3.7	0.16	(45)	-11.9	New Mexico	4.5	0.25	(18)	7.1
Connecticut	3.7	0.16	(46)	-11.9	New York	3.5 ^{bc}	0.07	(49)	-16.7
Delaware	3.8	0.34	(42)	-9.5	North Carolina	4.4	0.12	(26)	4.8
District of Columbia	3.6	0.40	(48)	-14.3	North Dakota	5.0 ^b	0.42	(05)	19.0
Florida	3.6 ^c	0.07	(47)	-14.3	Ohio	4.6 ^c	0.10	(13)	9.5
Georgia	4.0	0.12	(37)	-4.8	Oklahoma	5.2 ^{bc}	0.19	(03)	23.8
Hawaii	2.9 ^{bc}	0.23	(51)	-31.0	Oregon	4.1	0.17	(34)	-2.4
Idaho	4.4	0.30	(22)	4.8	Pennsylvania	4.2	0.08	(30)	0.0
Illinois	4.6 ^c	0.10	(15)	9.5	Rhode Island	5.0 ^b	0.32	(07)	19.0
Indiana	5.2 ^{bc}	0.15	(02)	23.8	South Carolina	4.3	0.16	(29)	2.4
Iowa	5.1 ^{bc}	0.20	(04)	21.4	South Dakota	4.5	0.37	(19)	7.1
Kansas	4.7	0.20	(11)	11.9	Tennessee	4.4	0.14	(23)	4.8
Kentucky	4.8	0.17	(09)	14.3	Texas	5.0 ^{bc}	0.08	(06)	19.0
Louisiana	5.2 ^{bc}	0.18	(01)	23.8	Utah	3.2 ^{bc}	0.22	(50)	-23.8
Maine	4.7	0.28	(10)	11.9	Vermont	3.9	0.39	(41)	-7.1
Maryland	4.0	0.14	(38)	-4.8	Virginia	4.1	0.12	(33)	-2.4
Massachusetts	3.9	0.12	(40)	-7.1	Washington	4.3	0.14	(27)	2.4
Michigan	4.5	0.11	(21)	7.1	West Virginia	4.3	0.22	(28)	2.4
Minnesota	4.5	0.15	(20)	7.1	Wisconsin	4.5	0.14	(17)	7.1
Mississippi	4.6	0.20	(12)	9.5	Wyoming	4.4	0.48	(25)	4.8
Missouri	4.9 ^{bc}	0.14	(08)	16.7					

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^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 ($p \leq .0002$).

SE Standard error of the rate.

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

Table XI-14
KIDNEY AND RENAL PELVIS CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, ALL RACES, 2000-2003

Males

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	6.1	0.04							
High Five States									
Iowa	7.8 ^{bc}	0.37	(01)	27.9					
Indiana	7.5 ^{bc}	0.27	(02)	23.0					
North Dakota	7.4 ^b	0.77	(03)	21.3					
Oklahoma	7.3 ^b	0.34	(04)	19.7					
Louisiana	7.3 ^b	0.32	(05)	19.7					
Low Five States									
Florida	5.4 ^c	0.12	(47)	-11.5					
New York	5.1 ^{bc}	0.13	(48)	-16.4					
New Hampshire	5.1 ^b	0.50	(49)	-16.4					
Utah	4.7 ^{bc}	0.41	(50)	-23.0					
Hawaii	4.2 ^{bc}	0.42	(51)	-31.1					
Alabama	5.7	0.28	(42)	-6.6	Montana	6.8	0.62	(10)	11.5
Alaska	6.7	1.13	(12)	9.8	Nebraska	6.5	0.46	(18)	6.6
Arizona	5.7	0.25	(40)	-6.6	Nevada	5.8	0.42	(38)	-4.9
Arkansas	5.9	0.35	(35)	-3.3	New Hampshire	5.1 ^b	0.50	(49)	-16.4
California	5.4 ^c	0.10	(46)	-11.5	New Jersey	6.1	0.21	(30)	0.0
Colorado	5.6	0.31	(44)	-8.2	New Mexico	6.7	0.47	(11)	9.8
Connecticut	5.7	0.30	(41)	-6.6	New York	5.1 ^{bc}	0.13	(48)	-16.4
Delaware	5.5	0.65	(45)	-9.8	North Carolina	6.7	0.23	(14)	9.8
District of Columbia	5.7	0.82	(39)	-6.6	North Dakota	7.4 ^b	0.77	(03)	21.3
Florida	5.4 ^c	0.12	(47)	-11.5	Ohio	6.7	0.18	(15)	9.8
Georgia	6.0	0.24	(34)	-1.6	Oklahoma	7.3 ^b	0.34	(04)	19.7
Hawaii	4.2 ^{bc}	0.42	(51)	-31.1	Oregon	5.8	0.30	(37)	-4.9
Idaho	6.2	0.53	(27)	1.6	Pennsylvania	6.0	0.16	(33)	-1.6
Illinois	6.6	0.18	(16)	8.2	Rhode Island	7.1 ^b	0.61	(07)	16.4
Indiana	7.5 ^{bc}	0.27	(02)	23.0	South Carolina	6.4	0.31	(25)	4.9
Iowa	7.8 ^{bc}	0.37	(01)	27.9	South Dakota	6.4	0.66	(24)	4.9
Kansas	6.7	0.38	(13)	9.8	Tennessee	6.4	0.26	(22)	4.9
Kentucky	7.0	0.33	(09)	14.8	Texas	7.2 ^{bc}	0.16	(06)	18.0
Louisiana	7.3 ^b	0.32	(05)	19.7	Utah	4.7 ^{bc}	0.41	(50)	-23.0
Maine	6.5	0.51	(19)	6.6	Vermont	6.1	0.74	(32)	0.0
Maryland	5.6	0.26	(43)	-8.2	Virginia	6.3	0.24	(26)	3.3
Massachusetts	5.9	0.23	(36)	-3.3	Washington	6.2	0.25	(29)	1.6
Michigan	6.5	0.20	(20)	6.6	West Virginia	6.2	0.42	(28)	1.6
Minnesota	6.4	0.28	(23)	4.9	Wisconsin	6.5	0.26	(21)	6.6
Mississippi	6.6	0.38	(17)	8.2	Wyoming	6.1	0.86	(31)	0.0
Missouri	7.1 ^b	0.27	(08)	16.4					

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^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 ($p \leq .0002$).

SE Standard error of the rate.

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

Table XI-15
KIDNEY AND RENAL PELVIS CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, ALL RACES, 2000-2003

Females

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
TOTAL U.S.	2.8	0.02							
High Five States									
Louisiana	3.6 ^{bc}	0.19	(01)	28.6					
Indiana	3.6 ^{bc}	0.16	(02)	28.6					
Rhode Island	3.5 ^b	0.36	(03)	25.0					
Oklahoma	3.5 ^b	0.21	(04)	25.0					
North Dakota	3.4 ^b	0.47	(05)	21.4					
Low Five States									
Connecticut	2.2 ^{bc}	0.16	(47)	-21.4					
Vermont	2.1 ^b	0.38	(48)	-25.0					
District of Columbia	2.1 ^b	0.40	(49)	-25.0					
Utah	2.0 ^b	0.24	(50)	-28.6					
Hawaii	1.7 ^{bc}	0.24	(51)	-39.3					
Alabama	2.5	0.15	(40)	-10.7	Montana	2.8	0.35	(28)	0.0
Alaska	2.4	0.59	(44)	-14.3	Nebraska	3.1	0.27	(15)	10.7
Arizona	2.6	0.15	(37)	-7.1	Nevada	2.5	0.25	(39)	-10.7
Arkansas	2.8	0.20	(26)	0.0	New Hampshire	3.1	0.33	(13)	10.7
California	2.4 ^c	0.06	(42)	-14.3	New Jersey	2.8	0.12	(27)	0.0
Colorado	2.2 ^b	0.17	(45)	-21.4	New Mexico	2.8	0.27	(30)	0.0
Connecticut	2.2 ^{bc}	0.16	(47)	-21.4	New York	2.4 ^c	0.07	(43)	-14.3
Delaware	2.8	0.39	(29)	0.0	North Carolina	2.7	0.12	(32)	-3.6
District of Columbia	2.1 ^b	0.40	(49)	-25.0	North Dakota	3.4 ^b	0.47	(05)	21.4
Florida	2.2 ^{bc}	0.07	(46)	-21.4	Ohio	3.1	0.11	(11)	10.7
Georgia	2.6	0.13	(36)	-7.1	Oklahoma	3.5 ^b	0.21	(04)	25.0
Hawaii	1.7 ^{bc}	0.24	(51)	-39.3	Oregon	2.7	0.18	(35)	-3.6
Idaho	2.9	0.33	(21)	3.6	Pennsylvania	2.8	0.09	(24)	0.0
Illinois	3.1	0.10	(16)	10.7	Rhode Island	3.5 ^b	0.36	(03)	25.0
Indiana	3.6 ^{bc}	0.16	(02)	28.6	South Carolina	2.7	0.17	(34)	-3.6
Iowa	3.1	0.20	(14)	10.7	South Dakota	3.0	0.41	(18)	7.1
Kansas	3.2	0.23	(10)	14.3	Tennessee	3.0	0.15	(19)	7.1
Kentucky	3.3 ^b	0.19	(08)	17.9	Texas	3.4 ^{bc}	0.09	(06)	21.4
Louisiana	3.6 ^{bc}	0.19	(01)	28.6	Utah	2.0 ^b	0.24	(50)	-28.6
Maine	3.3 ^b	0.32	(07)	17.9	Vermont	2.1 ^b	0.38	(48)	-25.0
Maryland	2.7	0.15	(33)	-3.6	Virginia	2.5	0.13	(38)	-10.7
Massachusetts	2.4	0.12	(41)	-14.3	Washington	2.7	0.15	(31)	-3.6
Michigan	2.9	0.11	(23)	3.6	West Virginia	2.9	0.24	(22)	3.6
Minnesota	2.9	0.16	(20)	3.6	Wisconsin	3.0	0.15	(17)	7.1
Mississippi	3.1	0.22	(12)	10.7	Wyoming	2.8	0.51	(25)	0.0
Missouri	3.2	0.15	(09)	14.3					

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

^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 ($p \leq .0002$).

SE Standard error of the rate.

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

Table XI-16
KIDNEY AND RENAL PELVIS CANCER (Invasive)

Estimated United States Cancer Prevalence Counts^a on January 1, 2003
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 <13 ^e	0 to <28 ^e	>=28 ^g	Complete ^h
Race/Sex									
All Races ^b	94,596	54,994	34,094	19,580	10,987	172,117	218,509	11,639	230,148
Males	56,984	32,814	19,735	11,506	6,173	103,079	129,547	6,533	136,080
Females	37,612	22,180	14,359	8,074	4,814	69,038	88,962	5,106	94,068
White ^b	81,066	47,137	30,559	17,676	9,673	148,385	189,996	13,217	203,213
Males	49,232	28,539	17,909	10,523	5,557	89,782	113,889	6,446	120,335
Females	31,834	18,598	12,650	7,153	4,116	58,603	76,107	6,771	82,878
Black ^b	10,176	6,155	2,859	1,540	1,097	18,165	22,140	2,002	24,142
Males	5,565	3,281	1,452	767	518	9,829	11,739	711	12,450
Females	4,611	2,874	1,407	773	579	8,336	10,401	1,291	11,692
Asian/Pacific Islander ^c	1,744	862	+	+	+	2,868	+	+	+
Males	1,083	554	+	+	+	1,796	+	+	+
Females	661	308	+	+	+	1,072	+	+	+
Hispanic ^d	6,595	3,247	+	+	+	11,131	+	+	+
Males	3,881	1,828	+	+	+	6,388	+	+	+
Females	2,714	1,419	+	+	+	4,743	+	+	+

Estimated prevalence percent^a on January 1, 2003, of the SEER 11 population diagnosed in the previous 10 years
By Age at Prevalence, Race/Ethnicity and Sex

Age at Prevalence	Age Specific (Crude)										Age-Adjusted ^f
	All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	All Ages
Race/Sex											
All Races ^c	0.0450%	0.0072%	0.0043%	0.0018%	0.0075%	0.0304%	0.0830%	0.1660%	0.2164%	0.1811%	0.0478%
Males	0.0552%	0.0065%	0.0038%	0.0016%	0.0087%	0.0380%	0.1114%	0.2261%	0.3010%	0.2638%	0.0642%
Females	0.0351%	0.0080%	0.0048%	0.0020%	0.0062%	0.0230%	0.0562%	0.1124%	0.1527%	0.1362%	0.0346%
White ^c	0.0489%	0.0075%	0.0046%	0.0015%	0.0078%	0.0316%	0.0856%	0.1743%	0.2276%	0.1874%	0.0499%
Males	0.0599%	0.0073%	0.0041%	0.0012%	0.0092%	0.0392%	0.1144%	0.2353%	0.3150%	0.2794%	0.0669%
Females	0.0380%	0.0078%	0.0052%	0.0019%	0.0063%	0.0239%	0.0576%	0.1184%	0.1606%	0.1380%	0.0359%
Black ^c	0.0406%	0.0081%	0.0052%	0.0037%	0.0093%	0.0366%	0.1023%	0.1831%	0.2175%	0.1939%	0.0535%
Males	0.0475%	0.0055%	0.0045%	0.0035%	0.0096%	0.0459%	0.1377%	0.2550%	0.2951%	0.2391%	0.0696%
Females	0.0343%	0.0108%	0.0060%	0.0038%	0.0090%	0.0285%	0.0729%	0.1268%	0.1665%	0.1725%	0.0417%
Asian/Pacific Islander ^c	0.0233%	0.0031%	0.0010%	0.0010%	0.0037%	0.0160%	0.0449%	0.0846%	0.1273%	0.1014%	0.0258%
Males	0.0301%	-	0.0016%	0.0017%	0.0046%	0.0218%	0.0632%	0.1204%	0.1889%	0.1339%	0.0363%
Females	0.0170%	0.0048%	-	-	0.0029%	0.0108%	0.0290%	0.0548%	0.0827%	0.0795%	0.0176%
Hispanic ^d	0.0250%	0.0060%	0.0030%	0.0010%	0.0060%	0.0265%	0.0769%	0.1634%	0.2334%	0.1740%	0.0466%
Males	0.0280%	0.0047%	0.0022%	0.0007%	0.0070%	0.0290%	0.1014%	0.2262%	0.2983%	0.2577%	0.0608%
Females	0.0219%	0.0073%	0.0038%	0.0014%	0.0048%	0.0239%	0.0543%	0.1115%	0.1870%	0.1269%	0.0358%

- ^a US 2003 cancer prevalence counts are based on 2003 cancer prevalence proportions from the SEER registries and 1/1/2003 US population estimates based on the average of 2002 and 2003 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 and Rural Georgia (d) NHIA for Hispanic for SEER 11 Areas and Rural Georgia excluding Hawaii and Seattle.
- ^e Maximum limited-duration prevalence: 28 years for 1975-2003 SEER 9 data; 13 years for 1990-2003 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 more than 28 years 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 <28 and >=28.
- 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+ Kidney and Renal Pelvis Cancer, by Race and Sex

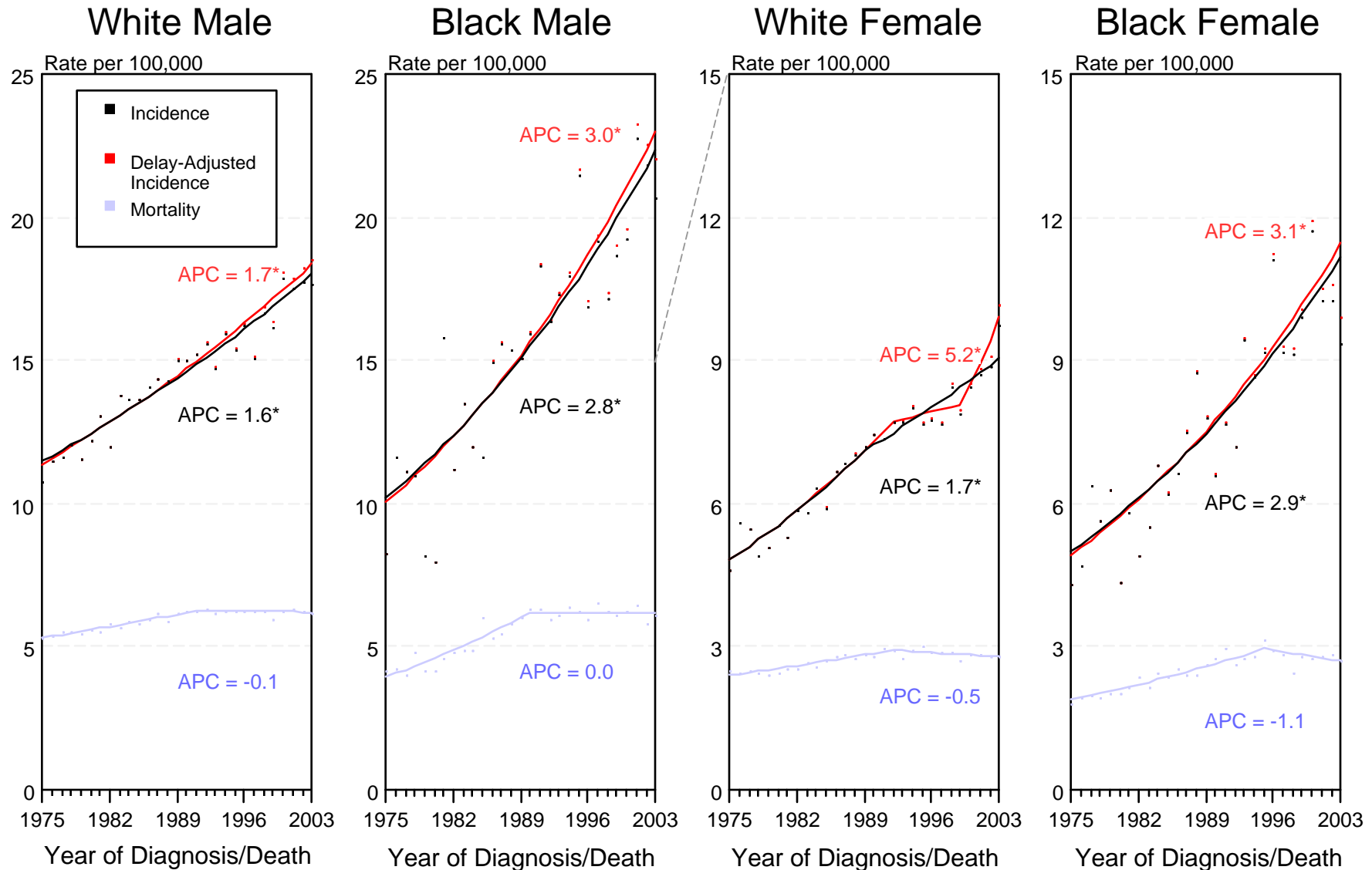


Figure XI-1

+ Source: SEER 9 areas and NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.1, April 2006, 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 ($p < 0.05$).

SEER Incidence and US Death Rates* Kidney and Renal Pelvis Cancer, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2003 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2003

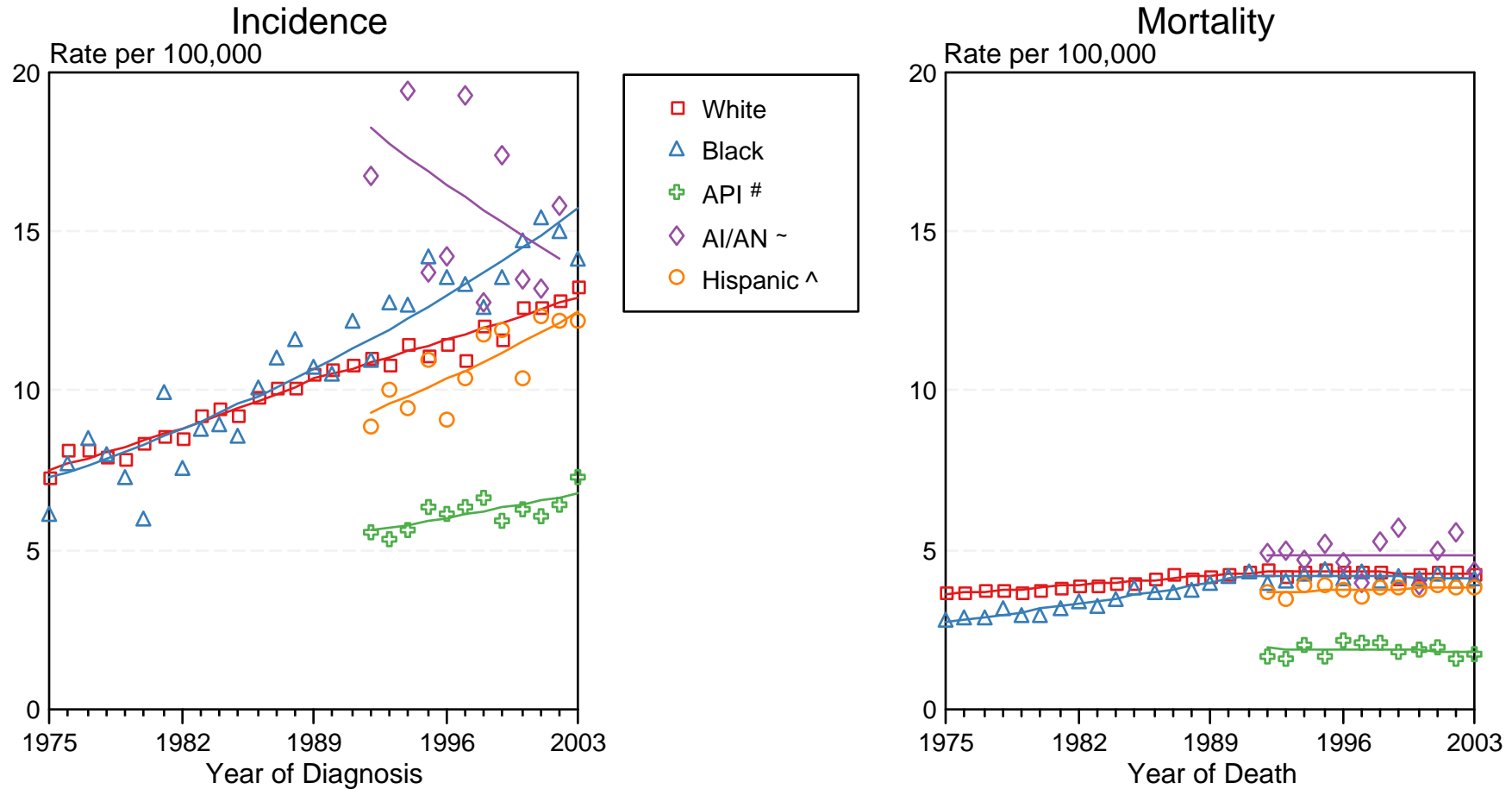


Figure XI-2

Source: Incidence data for Whites and Blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders and Hispanics are from the SEER 13 Areas (SEER 9 Areas, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Mortality data are from NCHS public use data file for the total US.

* Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

Regression lines are calculated using the Joinpoint Regression Program Version 3.1, April 2006, National Cancer Institute.

API = Asian/Pacific Islander.

~ AI/AN = American Indian/Alaska Native. Incidence data for AI/AN include cases from Connecticut, Detroit, Iowa, New Mexico, Seattle, Utah, Atlanta and the Alaska Native Registry for the time period 1992-2002. Mortality data are from the entire US for the time period 1992-2003.

^ Hispanic is not mutually exclusive from Whites, Blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from Hawaii, Seattle, and the Alaska Native Registry. Mortality data for Hispanics exclude cases from Connecticut, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma, and Vermont.