

Table XXIII-1
PROSTATE CANCER (Invasive)

TRENDS IN SEER INCIDENCE^a AND U.S. MORTALITY^b USING THE JOINPOINT REGRESSION PROGRAM, 1975-2002
WITH UP TO THREE JOINPOINTS BY RACE AND AGE

		<u>Joinpoint Segment 1</u>		<u>Joinpoint Segment 2</u>		<u>Joinpoint Segment 3</u>		<u>Joinpoint Segment 4</u>	
		<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>
<u>SEER Cancer Incidence^a</u>									
All Races	All Ages	1975-1988	2.6 ^c	1988-1992	16.4 ^c	1992-1995	-11.2 ^c	1995-2002	1.3 ^c
All Races	Under 65	1975-1985	2.4 ^c	1985-1989	7.6 ^c	1989-1992	25.8 ^c	1992-2002	3.1 ^c
All Races	65 and Over	1975-1988	2.5 ^c	1988-1992	15.0 ^c	1992-1995	-14.5 ^c	1995-2002	0.3
White	All Ages	1975-1988	2.8 ^c	1988-1992	16.2 ^c	1992-1995	-12.2 ^c	1995-2002	1.5 ^c
White	Under 65	1975-1985	2.6 ^c	1985-1989	8.8 ^c	1989-1992	24.6 ^c	1992-2002	2.8 ^c
White	65 and Over	1975-1988	2.7 ^c	1988-1992	14.8 ^c	1992-1995	-15.4 ^c	1995-2002	0.6
Black	All Ages	1975-1989	2.0 ^c	1989-1992	21.8 ^c	1992-1995	-5.9	1995-2002	-0.7
Black	Under 65	1975-1989	2.0 ^c	1989-1993	25.9 ^c	1993-2002	2.4 ^c		
Black	65 and Over	1975-1989	2.0 ^c	1989-1992	20.0 ^c	1992-1995	-9.7 ^c	1995-2002	-2.2 ^c
<u>SEER Delay-Adjusted Incidence^a</u>									
All Races	All Ages	1975-1988	2.6 ^c	1988-1992	16.5 ^c	1992-1995	-11.2 ^c	1995-2002	1.7 ^c
White	All Ages	1975-1988	2.8 ^c	1988-1992	16.4 ^c	1992-1995	-12.2 ^c	1995-2002	2.3 ^c
Black	All Ages	1975-1989	2.0 ^c	1989-1992	22.2 ^c	1992-1995	-5.9	1995-2002	0.3
<u>U.S. Cancer Mortality^b</u>									
All Races	All Ages	1975-1987	0.9 ^c	1987-1991	3.1 ^c	1991-1994	-0.6	1994-2002	-4.0 ^c
All Races	Under 65	1975-1992	0.7 ^c	1992-2002	-4.4 ^c				
All Races	65 and Over	1975-1987	0.9 ^c	1987-1991	3.2 ^c	1991-1994	-0.4	1994-2002	-4.0 ^c
White	All Ages	1975-1987	0.8 ^c	1987-1991	3.1 ^c	1991-1994	-0.9	1994-2002	-4.1 ^c
White	Under 65	1975-1991	1.0 ^c	1991-2002	-4.4 ^c				
White	65 and Over	1975-1987	0.8 ^c	1987-1991	3.2 ^c	1991-1994	-0.7	1994-2002	-4.1 ^c
Black	All Ages	1975-1988	1.9 ^c	1988-1993	3.4 ^c	1993-2002	-2.8 ^c		
Black	Under 65	1975-1992	0.6 ^c	1992-2002	-3.1 ^c				
Black	65 and Over	1975-1988	2.1 ^c	1988-1993	3.6 ^c	1993-2002	-2.7 ^c		

Joinpoint Regression Program Version 3.0, April 2005, 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.

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

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

Table XXIII-2
PROSTATE CANCER (Invasive)

SEER INCIDENCE^a AND U.S. DEATH^b RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES, BY RACE

	Incidence ^a			US Death ^b		
	All Races, Males	White Males	Black Males	All Races, Males	White Males	Black Males
<u>AGE-SPECIFIC RATES, 1998-2002</u>						
AGE AT DIAGNOSIS/DEATH:						
<1	-	-	-	-	-	-
1-4	-	-	-	-	-	-
5-9	-	-	-	-	-	-
10-14	-	-	-	-	-	-
15-19	-	-	-	-	-	-
20-24	-	-	-	-	-	-
25-29	-	-	-	-	-	-
30-34	-	-	-	-	-	-
35-39	0.8	0.8	-	0.0	-	-
40-44	8.5	7.2	22.7	0.2	0.2	0.6
45-49	38.3	33.8	92.0	0.9	0.7	2.7
50-54	143.2	137.2	272.3	3.4	2.8	9.5
55-59	348.9	337.2	618.9	9.9	8.4	26.9
60-64	611.0	598.8	1,035.4	25.5	21.3	71.2
65-69	934.0	925.3	1,408.9	57.2	49.8	146.7
70-74	1,096.4	1,081.3	1,598.3	112.6	99.3	298.7
75-79	1,090.8	1,063.1	1,592.5	208.6	189.2	503.1
80-84	900.5	874.6	1,241.9	368.2	341.1	836.2
85+	780.7	763.9	1,099.5	694.7	657.9	1,302.1
<u>AGE-ADJUSTED RATES, 1998-2002</u>						
AGE AT DIAGNOSIS/DEATH:						
All ages	177.6	173.5	277.1	30.3	27.7	68.1
Under 65	60.8	58.7	109.8	2.0	1.7	5.6
65 and over	984.8	967.0	1,434.2	225.6	207.8	500.2
All ages(IARC world std) ^c	117.7	115.0	188.7	13.0	11.8	30.7

^a SEER 9 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 25 cases for the time interval.

Table XXIII-3
PROSTATE CANCER (Invasive)

SEER INCIDENCE^a AND U.S. DEATH^b RATES, AGE-ADJUSTED RATES, BY RACE AND AGE

	All Races, Males			White Males			Black Males		
	All	<65	65+	All	<65	65+	All	<65	65+
<u>SEER INCIDENCE RATES</u>									
YEAR OF DIAGNOSIS:									
1975	94.0	13.7	649.5	92.2	13.0	639.7	141.1	27.1	929.2
1976	97.9	14.6	674.1	97.3	13.9	674.0	140.8	29.4	910.9
1977	100.4	15.0	690.8	98.5	14.3	680.6	159.2	29.2	1,057.2
1978	99.4	15.2	681.2	97.7	14.8	671.2	148.0	26.8	985.3
1979	103.4	14.9	714.9	102.3	14.6	708.1	162.0	26.4	1,100.0
1980	105.9	15.4	730.9	104.8	14.6	728.2	160.9	33.6	1,040.3
1981	108.8	16.8	745.1	107.9	16.0	743.1	161.6	34.2	1,041.9
1982	108.2	16.3	743.2	107.3	15.8	739.9	167.8	31.5	1,109.8
1983	111.6	17.1	764.2	110.7	16.6	761.6	170.9	34.1	1,116.8
1984	111.6	17.2	763.8	110.0	16.2	758.2	178.9	37.3	1,158.1
1985	115.4	17.9	790.0	114.6	17.5	785.2	169.8	31.5	1,125.8
1986	118.9	18.5	813.2	118.9	18.2	814.9	167.7	33.8	1,093.3
1987	133.5	21.5	908.1	134.3	21.1	917.4	188.9	36.2	1,244.4
1988	137.4	22.2	934.1	138.5	22.3	941.6	190.5	34.8	1,267.1
1989	145.3	24.1	982.7	146.0	24.0	989.4	191.8	37.1	1,260.8
1990	170.7	28.7	1,152.2	172.4	28.7	1,165.3	221.9	44.4	1,448.8
1991	214.5	38.8	1,429.3	216.1	39.2	1,439.1	287.9	57.2	1,882.7
1992	237.0	49.3	1,534.5	237.7	49.3	1,539.5	326.5	77.1	2,050.6
1993	209.2	50.5	1,306.1	204.0	49.0	1,275.4	342.4	93.5	2,063.3
1994	179.9	48.5	1,088.4	173.7	46.7	1,052.0	310.7	94.4	1,805.8
1995	168.5	49.8	988.7	163.4	48.0	961.3	278.5	97.3	1,531.1
1996	168.3	53.1	964.5	163.6	51.6	938.0	279.7	99.3	1,526.1
1997	172.5	55.0	984.7	168.5	53.7	961.8	278.1	96.0	1,536.8
1998	169.4	54.5	963.7	165.4	52.6	945.5	279.9	100.7	1,519.2
1999	181.3	60.5	1,016.7	176.0	58.4	988.8	285.5	109.9	1,499.2
2000	179.9	61.2	1,000.6	175.8	59.2	981.8	284.2	111.5	1,478.0
2001	180.8	63.4	992.7	178.2	61.2	986.7	260.6	111.5	1,290.7
2002	176.3	63.8	953.9	171.9	61.5	935.4	275.8	113.7	1,396.1
<u>U.S. DEATH RATES</u>									
YEAR OF DEATH:									
1975	31.0	2.5	227.5	29.1	2.2	214.9	55.5	6.6	394.0
1976	31.8	2.7	232.9	29.9	2.3	220.8	55.6	6.9	392.2
1977	31.8	2.7	233.3	29.9	2.3	220.6	56.4	6.9	398.7
1978	32.7	2.6	240.3	30.6	2.2	226.8	58.5	6.8	416.1
1979	32.8	2.6	242.1	30.8	2.2	228.2	59.2	6.6	422.9
1980	33.1	2.7	243.1	30.8	2.3	227.4	62.0	6.6	445.0
1981	33.2	2.7	244.0	30.8	2.3	227.5	63.6	7.1	454.4
1982	33.4	2.7	245.5	31.1	2.3	229.8	62.4	6.6	447.7
1983	33.9	2.8	249.3	31.6	2.4	233.2	64.6	7.0	462.5
1984	34.1	2.7	250.8	31.6	2.4	233.5	65.9	6.7	475.1
1985	33.9	2.7	249.4	31.3	2.3	231.3	67.3	7.2	482.7
1986	34.9	2.8	257.0	32.5	2.5	239.7	67.4	6.6	487.4
1987	35.1	2.7	259.1	32.6	2.4	241.3	68.9	6.7	499.0
1988	35.9	2.8	264.4	33.4	2.5	247.1	69.6	7.0	502.3
1989	37.1	3.0	273.0	34.5	2.6	255.2	71.7	7.1	518.5
1990	38.6	3.0	284.2	35.7	2.6	264.0	78.0	7.4	565.6
1991	39.3	2.9	291.1	36.5	2.5	271.4	78.2	7.1	570.2
1992	39.2	2.9	290.6	36.3	2.4	270.3	79.8	7.7	578.7
1993	39.3	2.7	292.5	36.3	2.3	270.8	81.9	7.0	599.1
1994	38.5	2.7	286.5	35.6	2.3	266.0	80.0	6.8	585.9
1995	37.3	2.6	277.2	34.4	2.2	256.9	78.2	6.7	572.5
1996	36.0	2.5	267.6	33.0	2.1	246.4	78.8	6.5	579.2
1997	34.2	2.3	254.3	31.3	1.9	234.6	74.3	6.3	544.2
1998	32.6	2.3	242.5	29.9	1.9	223.4	72.8	6.3	532.4
1999	31.6	2.1	235.5	28.9	1.7	216.9	70.1	5.8	514.8
2000	30.3	2.0	225.9	27.7	1.7	207.5	68.7	5.4	506.5
2001	29.1	1.9	217.1	26.6	1.6	199.4	66.6	5.4	489.5
2002	28.1	1.9	209.1	25.8	1.6	193.3	63.0	5.3	461.4

^a SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
^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.
 - Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XXIII-4
PROSTATE CANCER (Invasive)

SURVIVAL RATES, BY RACE, DIAGNOSIS YEAR, STAGE AND AGE

	<u>All Races, Males</u>			<u>White Males</u>			<u>Black Males</u>		
	<u>All</u>	<u><65</u>	<u>65+</u>	<u>All</u>	<u><65</u>	<u>65+</u>	<u>All</u>	<u><65</u>	<u>65+</u>
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-1963 ^a	-	-	-	50	-	-	35	-	-
1970-1973 ^a	-	-	-	63	-	-	55	-	-
1974-1976 ^b	66.9	71.5	65.3	67.9	72.9	66.2	58.3	60.6	56.9
1977-1979 ^b	71.1	75.8	69.4	72.2	77.5	70.2	62.5	64.2	61.7
1980-1982 ^b	73.2	76.3	72.1	74.3	77.8	73.1	64.9	66.8	63.9
1983-1985 ^b	74.6	75.7	74.3	76.0	77.4	75.6	63.9	64.7	63.5
1986-1988 ^b	81.2	81.4	81.2	82.8	83.1	82.7	69.4	69.9	69.2
1989-1991 ^b	90.7	90.1	90.9	92.0	91.3	92.2	80.9	82.3	80.4
1992-1994 ^b	97.3	96.3	97.7	98.2	97.0	98.6	92.4	93.3	91.9
1995-2001 ^b	99.8 ^d	99.5	99.7	99.9 ^d	99.8	99.8	96.7 ^d	98.5	95.8
1995-2001 ^b									
All Stages	99.8	99.5	99.7	99.9	99.8	99.8	96.7	98.5	95.8
Localized/Regional	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Distant	33.5	32.2	34.0	32.6	32.1	32.8	30.3	32.2	29.4
Unstaged	82.7	90.5	80.5	84.2	92.6	81.9	77.0	82.9	73.2
<u>5-YR PERIOD SURVIVAL RATES^{bc}</u>									
YEAR OF DIAGNOSIS:									
1995-2001	99.9	99.9	99.9	100.0	100.0	99.9	98.2	99.0	97.4
<u>STAGE DISTRIBUTION (%) 1995-2001^b</u>									
All Stages									
Number of cases	114,643	38,444	76,199	94,212	30,842	63,370	14,239	6,221	8,018
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized/Regional	91	95	89	91	95	89	89	93	86
Distant	5	3	6	5	3	6	7	5	8
Unstaged	4	2	5	4	2	5	5	3	6
<u>5-YR RELATIVE SURVIVAL RATES, 1995-2001^b</u>									
AGE AT DIAGNOSIS:									
<45	92.1	-	-	91.7	-	-	95.0	-	-
45-54	97.8	-	-	98.0	-	-	97.5	-	-
55-64	100.0	-	-	100.0	-	-	99.1	-	-
65-74	100.0	-	-	100.0	-	-	98.6	-	-
75+	96.3	-	-	97.5	-	-	88.5	-	-
Under 65	99.5	-	-	99.8	-	-	98.5	-	-
65 and over	99.7	-	-	99.8	-	-	95.8	-	-

^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 2002.
^c 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 (1999-2001: 0-1 year survival), (1998-2000: 1-2 year survival), (1997-1999: 2-3 year survival), (1996-1998: 3-4 year survival), (1995-1997: 4-5 years survival).
^d The difference in rates between 1974-1976 and 1995-2001 is statistically significant (p<.05).
^e The standard error of the survival rate is between 5 and 10 percentage points.
^f The standard error of the survival rate is greater than 10 percentage points.
- Statistic could not be calculated.

Table XXIII-5
PROSTATE 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
Relative Survival Rates (SEER ^b)																			
1-year	91.9	94.2	94.9	95.0	95.6	96.4	97.0	97.7	99.0	99.6	99.6	99.5	99.2	99.6	99.8	99.9	99.8	99.9	100.0
2-year	85.1	88.5	88.6	89.4	91.6	92.8	93.9	95.0	97.7	98.8	98.7	98.6	98.4	98.9	99.7	99.9	99.8	99.9	
3-year	79.0	82.8	83.6	84.3	87.3	89.0	90.6	92.8	96.5	98.4	97.8	97.8	98.2	98.8	99.7	99.9	99.8		
4-year	74.1	77.8	79.2	80.6	84.0	86.3	88.2	91.1	95.5	98.2	97.6	97.1	98.0	98.6	99.7	99.9			
5-year	70.0	73.6	75.7	78.0	81.1	84.0	85.8	89.9	94.4	97.8	97.1	96.8	98.0	98.6	99.7				
6-year	66.8	70.2	72.9	75.0	78.9	81.9	83.9	88.8	93.4	97.1	96.9	96.8	98.0	98.6					
7-year	63.7	66.8	70.8	73.0	76.5	79.1	82.5	87.1	93.2	96.6	96.4	96.6	98.0						
8-year	60.8	64.0	68.5	71.6	74.6	77.6	81.3	86.1	92.7	96.0	96.4	96.6							
9-year	58.3	61.9	66.6	69.3	73.1	76.3	80.2	85.4	92.4	95.8	96.0								
10-year	55.9	60.3	64.5	67.5	71.8	75.2	79.5	84.3	92.3	95.5									
11-year	53.6	58.4	62.3	66.4	70.5	74.9	78.8	83.5	91.6										
12-year	51.6	56.7	60.3	64.8	69.8	73.3	78.0	83.4											
13-year	50.0	55.2	59.5	63.9	68.9	72.0	76.8												
14-year	48.5	54.0	57.4	63.2	68.2	72.0													
15-year	47.6	53.2	56.0	61.5	67.7														
16-year	46.0	51.8	54.0	60.6															
17-year	44.7	51.2	53.5																
18-year	43.6	50.4																	
19-year	43.2																		
20-year	42.6																		

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

Table XXIII-6
PROSTATE CANCER (Invasive)

Percent Diagnosed With Cancer In 10, 20 and 30 Years and In Remaining Lifetime,
 Given Cancer Free At Current Age By Race

Lifetime Risk (Percent) of Being Diagnosed (13 SEER Areas) With Cancer and
 Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

2000-2002

All Races

Current Age	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	17.93
10	0.00	0.00	0.01	18.17
20	0.00	0.01	0.29	18.28
30	0.01	0.30	2.63	18.50
40	0.29	2.66	8.94	18.80
50	2.46	8.98	15.85	19.22
60	7.19	14.77	17.94	18.48

Lifetime Risk of Being Diagnosed = 17.93%
 Lifetime Risk of Dying = 2.97%

Whites

Current Age	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	17.73
10	0.00	0.00	0.01	17.93
20	0.00	0.01	0.26	18.02
30	0.01	0.27	2.54	18.22
40	0.26	2.57	8.85	18.49
50	2.39	8.89	15.67	18.87
60	7.13	14.57	17.58	18.08

Lifetime Risk of Being Diagnosed = 17.73%
 Lifetime Risk of Dying = 2.78%

Blacks

Current Age	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	20.66
10	0.00	0.00	0.02	21.23
20	0.00	0.02	0.67	21.43
30	0.02	0.69	4.62	22.00
40	0.68	4.75	13.12	22.71
50	4.39	13.42	20.79	23.79
60	10.97	19.91	22.96	23.55

Lifetime Risk of Being Diagnosed = 20.66%
 Lifetime Risk of Dying = 4.71%

Devcan Version 6.0, April 2005, National Cancer Institute (<http://srab.cancer.gov/devcan/>).

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

Table XXIII-7
PROSTATE CANCER (Invasive)

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

Incidence^b

RACE/ETHNICITY	Rate 1998-2002	Trend 1992-2002
	Rate per 100,000 persons	APC (%)
	Males	Males
All Races	173.8	-2.0 ^e
White	169.0	-2.1 ^e
White Hispanic ^c	144.3	-0.8 ^e
White Non-Hispanic ^c	167.7	-2.1 ^e
Black	272.0	-1.9 ^e
Asian/Pacific Islander	101.4	-1.7 ^e
Amer Ind/Alaska Nat	50.3	-6.8 ^e
Hispanic ^c	141.9	-0.7

Mortality^d

RACE/ETHNICITY	Rate 1998-2002	Trend 1992-2002
	Rate per 100,000 persons	APC (%)
	Males	Males
All Races	30.3	-3.6 ^e
White	27.7	-3.7 ^e
White Hispanic ^c	23.3	-2.4 ^e
White Non-Hispanic ^c	27.9	-3.7 ^e
Black	68.1	-2.5 ^e
Asian/Pacific Islander	12.1	-5.2 ^e
Amer Ind/Alaska Nat	18.3	-4.5 ^e
Hispanic ^c	23.0	-2.4 ^e

- 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 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 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).
- ^c 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, Alaska Native Registry and Rural Georgia. For mortality, information is included for all states except Connecticut, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma and Vermont.
- ^d Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).
- ^e The APC is significantly different from zero (p<.05).

Table XXIII-8
PROSTATE CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE RATES AND SEER DEATH RATES^a
 By Registry and Race

	<u>All Races, Males</u>			<u>White Males</u>			<u>Black Males</u>		
	<u>All</u>	<u><65</u>	<u>65+</u>	<u>All</u>	<u><65</u>	<u>65+</u>	<u>All</u>	<u><65</u>	<u>65+</u>
<u>SEER INCIDENCE RATES^b, 1998-2002</u>									
REGISTRY									
13 SEER Areas	173.8	59.1	966.5	169.0	57.2	941.7	272.0	109.7	1393.9
11 SEER Areas	174.0	59.2	967.9	169.1	57.2	942.4	272.8	110.1	1397.5
9 SEER Areas	177.6	60.8	984.8	173.5	58.7	967.0	277.1	109.8	1434.2
San Francisco-Oakland	166.8	57.4	923.1	168.3	59.1	923.4	221.6	95.8	1091.6
Connecticut	177.8	64.8	959.3	171.2	60.6	935.9	248.6	110.5	1203.0
Metropolitan Detroit	228.9	79.8	1259.4	205.9	69.4	1149.0	320.3	121.3	1695.4
Hawaii	129.9	35.2	783.8	148.4	47.4	846.9	199.3	94.4	-
Iowa	154.9	48.3	892.1	152.3	47.1	879.0	203.9	87.8	1006.7
New Mexico	146.9	48.2	828.8	151.3	49.6	854.4	208.5	103.2	936.5
Seattle-Puget Sound	179.5	59.3	1010.0	182.5	60.6	1025.1	263.2	105.3	1355.1
Utah	181.0	57.7	1033.2	183.5	58.8	1045.4	222.8	-	-
Metropolitan Atlanta	185.3	73.1	961.2	163.6	62.8	860.7	272.1	106.5	1417.0
San Jose-Monterey	161.9	53.0	914.8	168.4	56.8	939.7	190.7	83.0	935.4
Los Angeles	165.5	55.6	925.2	153.2	52.0	853.0	266.7	113.2	1327.7
<u>SEER DEATH RATES^c, 1998-2002</u>									
REGISTRY									
13 SEER Areas	28.4	1.8	212.4	27.8	1.6	208.6	60.8	5.3	444.7
11 SEER Areas	28.4	1.8	212.1	27.7	1.6	208.5	60.5	5.2	442.9
9 SEER Areas	29.5	1.8	220.7	28.6	1.6	215.7	61.7	4.8	455.2
San Francisco-Oakland	27.4	1.7	205.2	28.0	1.6	210.7	63.0	5.1	463.0
Connecticut	28.5	1.9	212.4	27.4	1.7	205.2	58.0	-	428.8
Metropolitan Detroit	33.3	2.2	247.7	27.9	1.6	209.3	58.4	4.7	430.0
Hawaii	20.5	1.3	152.9	31.5	-	237.4	-	-	-
Iowa	30.5	1.5	231.1	30.3	1.5	229.7	67.7	-	526.7
New Mexico	29.4	1.6	220.9	29.5	1.7	221.2	-	-	-
Seattle-Puget Sound	28.3	1.6	212.9	28.3	1.5	213.4	64.2	-	472.0
Utah	31.2	1.7	234.8	31.3	1.6	236.1	-	-	-
Metropolitan Atlanta	35.0	2.3	261.0	26.5	1.3	200.8	70.6	5.4	521.3
San Jose-Monterey	23.7	1.2	179.1	26.3	1.3	198.8	-	-	-
Los Angeles	25.9	2.1	191.0	24.9	1.8	184.8	58.8	6.3	421.9

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

^b 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.

^c NCHS public use data file for the total US with analyses limited to the SEER geographic areas.

- Statistic could not be calculated or populations are inadequate.

Table XXIII-9
PROSTATE CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, ALL RACES, 1998-2002

All Ages

State	Rate	SE	Rank	PD
TOTAL U.S.	30.3	0.08		
High Five States				
District of Columbia	51.0 ^{bc}	2.31	(01)	68.3
Mississippi	43.3 ^{bc}	0.97	(02)	42.9
South Carolina	38.4 ^{bc}	0.80	(03)	26.7
Alabama	38.3 ^{bc}	0.71	(04)	26.4
Georgia	36.5 ^{bc}	0.61	(05)	20.5
Low Five States				
Nebraska	27.3	0.88	(47)	-9.9
California	27.1 ^{bc}	0.22	(48)	-10.6
Arizona	25.8 ^{bc}	0.51	(49)	-14.9
Florida	25.5 ^{bc}	0.24	(50)	-15.8
Hawaii	20.5 ^{bc}	0.88	(51)	-32.3

Ages <65

State	Rate	SE	Rank	PD
TOTAL U.S.	2.0	0.02		
High Five States				
District of Columbia	3.1 ^b	0.52	(01)	55.0
Mississippi	2.9 ^{bc}	0.22	(02)	45.0
Louisiana	2.9 ^{bc}	0.18	(03)	45.0
Alabama	2.7 ^{bc}	0.17	(04)	35.0
North Carolina	2.5 ^{bc}	0.12	(05)	25.0
Low Five States				
Iowa	1.5 ^b	0.15	(47)	-25.0
Montana	1.5 ^b	0.26	(48)	-25.0
Colorado	1.4 ^{bc}	0.13	(49)	-30.0
Hawaii	1.3 ^b	0.23	(50)	-35.0
Nebraska	1.3 ^{bc}	0.19	(51)	-35.0

Ages 65+

State	Rate	SE	Rank	PD
TOTAL U.S.	225.6	0.60		
High Five States				
District of Columbia	381.8 ^{bc}	17.94	(01)	69.2
Mississippi	322.7 ^{bc}	7.55	(02)	43.0
South Carolina	286.8 ^{bc}	6.24	(03)	27.1
Alabama	284.0 ^{bc}	5.54	(04)	25.9
Georgia	272.6 ^{bc}	4.74	(05)	20.8
Low Five States				
Nebraska	207.4 ^b	6.84	(47)	-8.1
California	200.8 ^{bc}	1.73	(48)	-11.0
Arizona	191.9 ^{bc}	3.95	(49)	-14.9
Florida	187.5 ^{bc}	1.84	(50)	-16.9
Hawaii	152.9 ^{bc}	6.76	(51)	-32.2

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

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
^b Absolute percent difference between state rate and total U.S. rate is 10% or more.
^c Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
SE Standard error of the rate.
PD Percent difference between state rate and total U.S. rate.

Table XXIII-10
PROSTATE CANCER (Invasive)

Estimated United States Cancer Prevalence Counts^a on January 1, 2002
By Race/Ethnicity and Years Since Diagnosis

Years Since Diagnosis	0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	0 to <12 ^e	0 to <27 ^e	>=27 ^g	Complete ^h
<u>Race</u>									
All Races ^b	892,138	620,579	237,807	54,128	18,778	1,657,793	1,826,301	5,628	1,831,929
White ^b	747,669	531,325	215,173	49,002	17,015	1,410,102	1,562,680	5,936	1,568,616
Black ^b	112,639	72,176	18,784	4,448	1,575	196,364	209,959	488	210,447
Asian/Pacific Islander ^c	13,698	7,345	+	+	+	22,302	+	+	+
Hispanic ^d	38,785	21,955	+	+	+	64,707	+	+	+

Estimated prevalence percent^a on January 1, 2002, of the SEER 11 population diagnosed in the previous 10 years
By Age at Prevalence and Race/Ethnicity

Age at Prevalence	Age Specific (Crude)										Age-Adjusted ^f
	All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	All Ages
<u>Race</u>											
All Races ^c	0.9191%	-	-	0.0002%	0.0008%	0.0547%	0.8044%	4.0236%	8.7542%	8.6619%	1.1987%
White ^c	0.9602%	-	-	0.0003%	0.0006%	0.0483%	0.7831%	4.0093%	8.7100%	8.3757%	1.1813%
Black ^c	0.9919%	-	-	-	0.0020%	0.1391%	1.5347%	6.7798%	13.0251%	11.4908%	1.8469%
Asian/Pacific Islander ^c	0.4562%	-	-	-	-	0.0139%	0.2549%	1.5471%	4.9142%	6.2639%	0.6446%
Hispanic ^d	0.2955%	-	-	-	-	0.0227%	0.4460%	2.7384%	7.1107%	7.2745%	0.9243%

^a US 2002 cancer prevalence counts are based on 2002 cancer prevalence proportions from the SEER registries and 1/1/2002 US population estimates based on the average of 2001 and 2002 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 SEER 11 Areas excluding Hawaii and Detroit.

^e Maximum limited-duration prevalence: 27 years for 1975-2002 SEER 9 data; 12 years for 1990-2002 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 27 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 <27 and >=27.

- 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+ Prostate Cancer, by Race

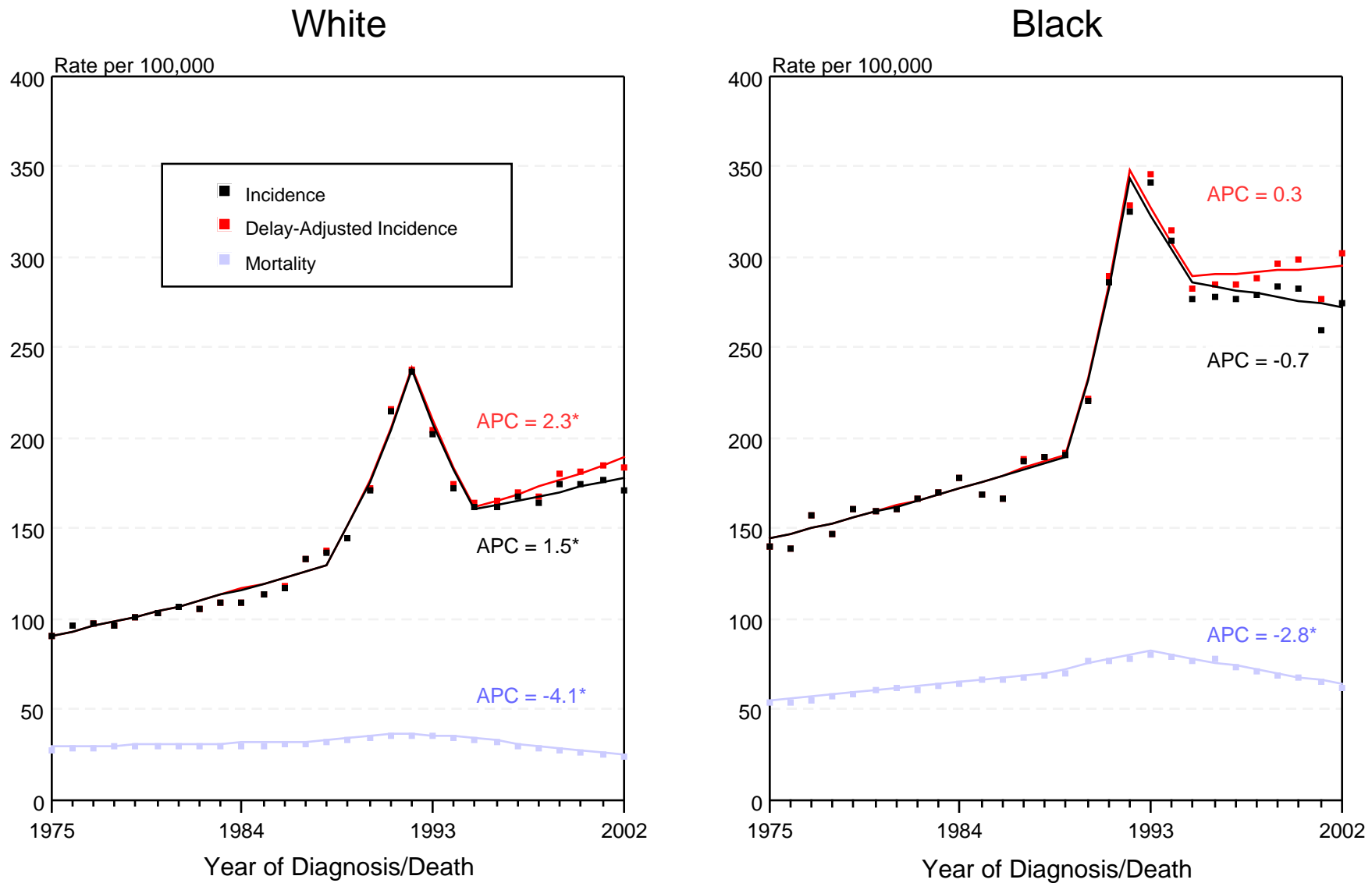


Figure XXIII-1

+ Source: SEER 9 areas and NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.0, April 2005, 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+ Prostate Cancer, by Age and Race

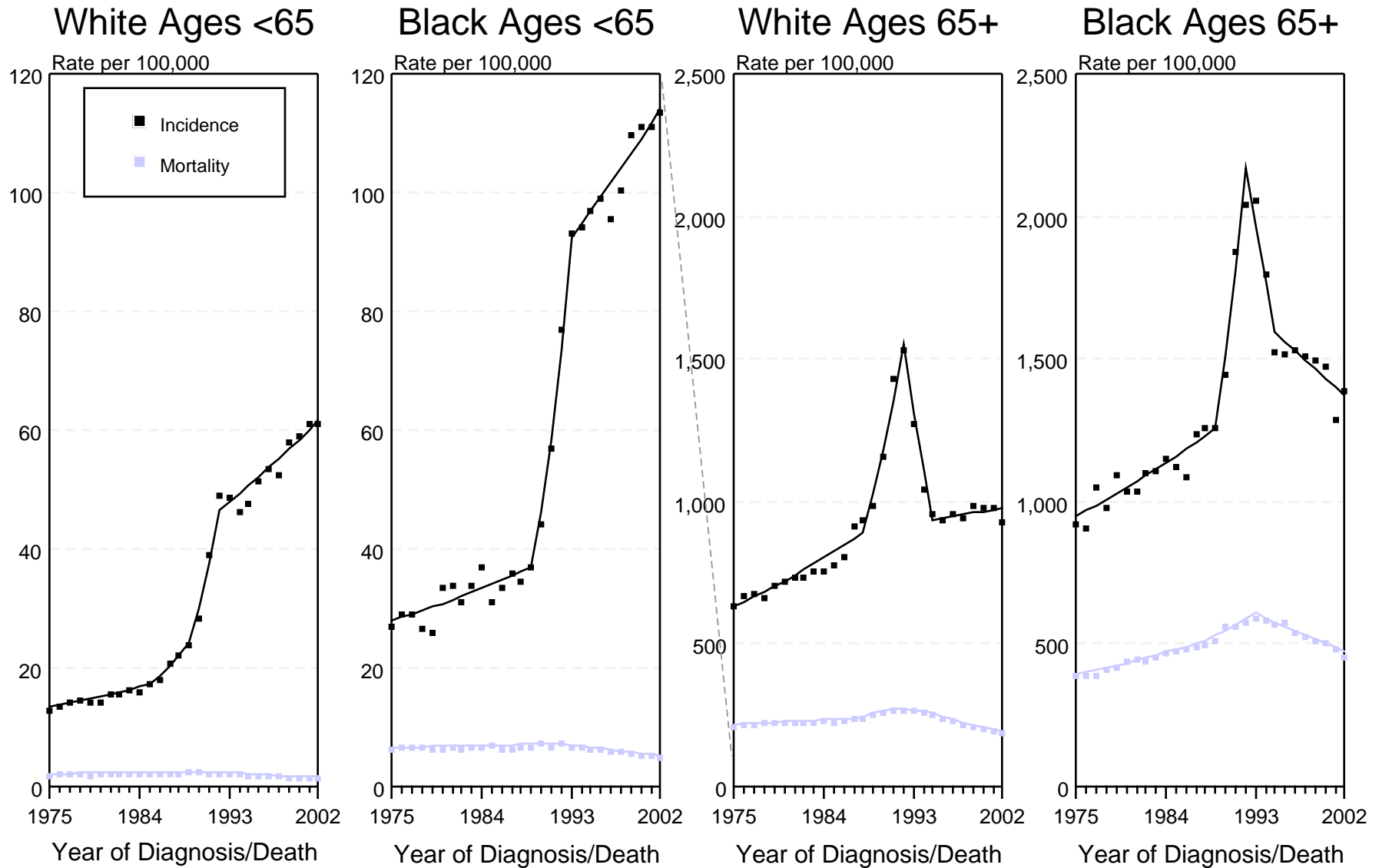


Figure XXIII-2

+ 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 are calculated using the Joinpoint Regression Program Version 3.0, April 2005, National Cancer Institute.

SEER Incidence and US Death Rates + Prostate Cancer

Joinpoint Analyses for 1975-2002 for Whites and Blacks

Rates for 1992-2002 for Asian/Pacific Islander, American Indian/Alaska Native and Hispanic

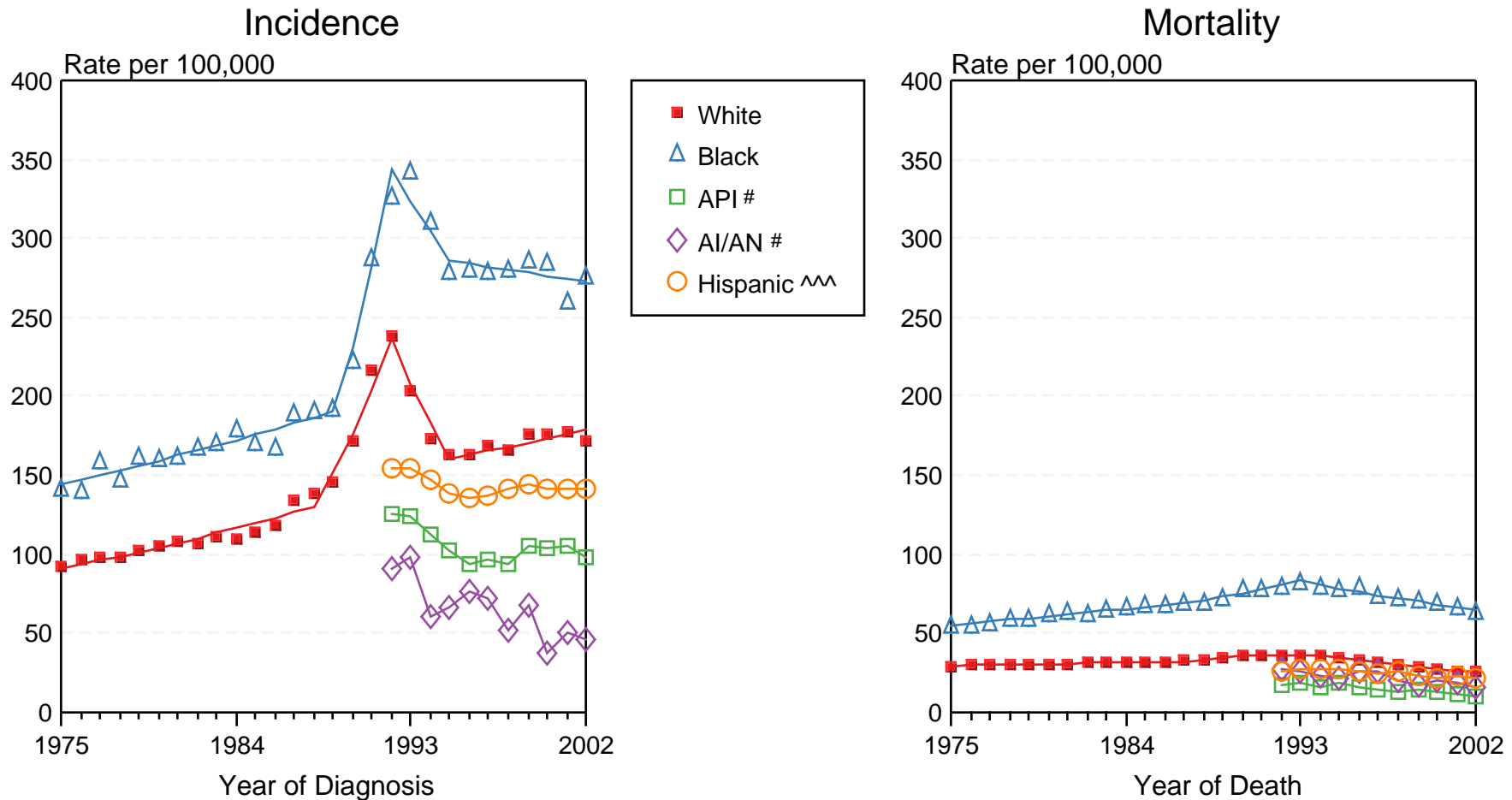


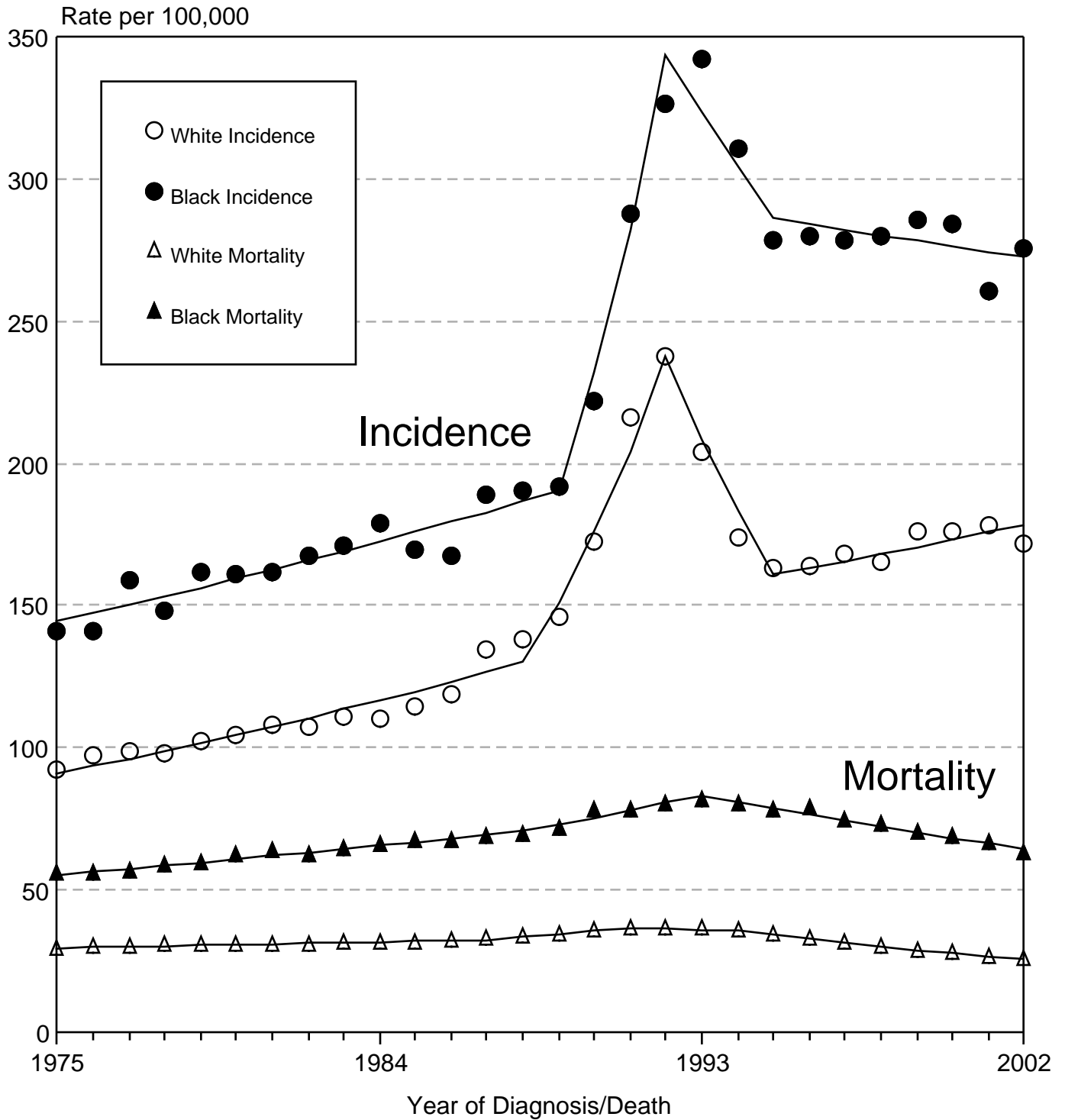
Figure XXIII-3

+ Source: Incidence data for whites and blacks is from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indian/Alaska Natives and Hispanics is from the SEER 13 Areas (SEER 9 Areas, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Mortality data is 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 for whites and blacks are calculated using the Joinpoint Regression Program Version 3.0, April 2005, National Cancer Institute.

API = Asian/Pacific Islander. AI/AN = American Indian/Alaska Native.

^^ Hispanic is not mutually exclusive from Whites, Blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics excludes cases from Detroit, Hawaii, Alaska Native Registry and Rural Georgia. Mortality data for Hispanics excludes cases from Connecticut, Maine, Maryland, Minnesota, Oklahoma, New Hampshire, New York, North Dakota, and Vermont.

Prostate Cancer SEER Incidence & US Mortality 1975-2002

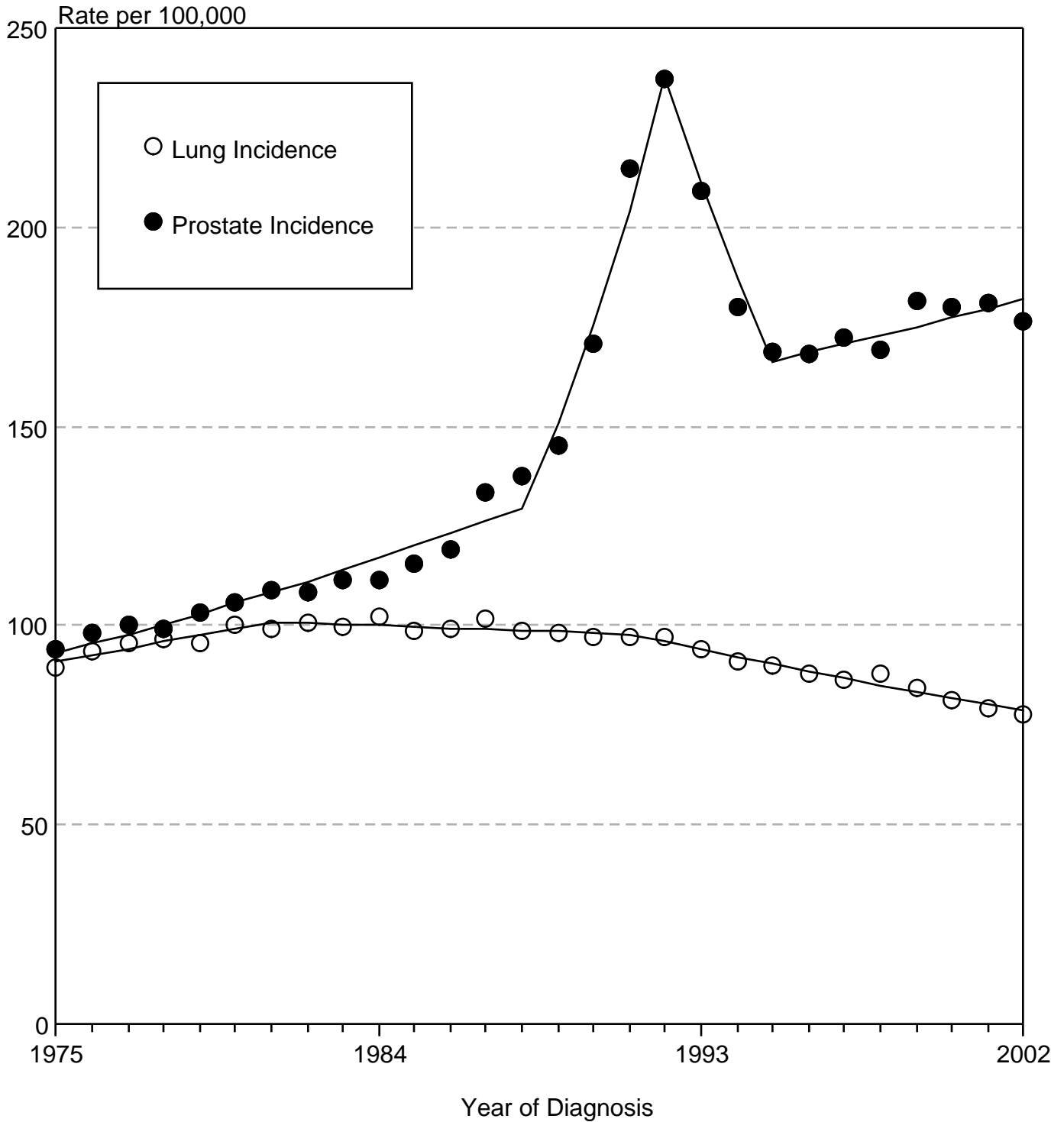


Source: SEER 9 areas and NCHS public use data file for the total US.
 Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).
 Regression lines are calculated using the Joinpoint Regression Program Version 3.0, April 2005, National Cancer Institute.

Prostate vs Lung Cancer Incidence

All Races, Males

1975-2002



Source: SEER 9 areas. 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 3.0, April 2005, National Cancer Institute.