Table XXII-1

PROSTATE CANCER (Invasive)

TRENDS IN SEER INCIDENCE AND U.S. MORTALITY USING THE JOINPOINT REGRESSION PROGRAM, 1973-1998
WITH UP TO THREE JOINPOINTS BY RACE AND AGE

	All Races		Whites		Blacks	
	Year	APC	Year	APC	Year	APC
SEER Cancer Incidence						
Age - All Ages	1973-88	2.9★	1973-88	3.1★	1973-89	2.2★
	1988-92	17.5★	1988-92	17.4★	1989-92	22.0★
	1992-95	-10.0★	1992-95	-11.3★	1992-98	-4.0★
	1995-98	0.3	1995-98	0.4		
Age - Under 65	1973-85	2.8★	1973-85	3.0★	1973-89	2.0★
	1985-89	7.2★	1985-89	8.3★	1989-93	26.8★
	1989-92	27.0★	1989-92	26.1★	1993-98	0.5
	1992-98	1.6★	1992-98	0.9		
Age - 65 and Over	1973-88	2.8★	1973-88	3.0★	1973-89	2.3★
	1988-92	16.0★	1988-92	15.8★	1989-92	18.9★
	1992-95	-14.0★	1992-95	-15.2★	1992-98	-7.5★
	1995-98	-0.9	1995-98	-0.7		
U.S. Cancer Mortality						
Age - All Ages	1973-87	0.8★	1973-87	0.7★	1973-88	1.7★
	1987-91	2.8★	1987-91	2.9★	1988-93	2.6★
	1991-94	-1.2	1991-94	-1.4	1993-98	-3.0★
	1994-98	-4.5★	1994-98	-4.7★		
Age - Under 65	1973-87	0.3★	1973-87	0.4★	1973-87	0.0
	1987-90	3.8	1987-90	3.8	1987-92	1.9
	1990-98	-3.4★	1990-98	-3.9★	1992-98	-2.6★
Age - 65 and Over	1973-87	0.8★	1973-87	0.7★	1973-93	2.1★
	1987-91	2.9★	1987-91	3.0★	1993-98	-2.7★
	1991-94	-0.9	1991-94	-1.1		
	1994-98	-4.5★	1994-98	-4.7★		

The APC is the Annual Percent Change based on rates age-adjusted to the 1970 U.S. standard population using the
Joinpoint Regression Program.
★ The APC is significantly different from zero (p<.05).

Table XXII-2

PROSTATE CANCER (Invasive)

SEER INCIDENCE§ AND U.S. MORTALITYδ RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES, BY RACE

	Incidence§			US Mortalityδ		
	All Races, Males	White Males	Black Males	All Races, Males	White Males	Black Males
AGE-SPECIFIC RATES, 1994-98						
AGE AT DIAGNOSIS/DEATH:						
0-4	-	-	-	-	-	-
5-9	-	-	-	-	-	-
10-14	-	-	-	-	-	-
15-19	-	-	-	-	-	-
20-24	-	-	-	-	-	-
25-29	-	-	-	-	-	-
30-34	-	-	-	-	-	-
35-39	0.5	-	-	0.1	-	-
40-44	4.5	3.9	10.0	0.3	0.2	0.6
45-49	29.1	25.8	68.9	1.0	0.8	2.6
50-54	118.9	111.4	237.7	4.0	3.4	11.0
55-59	294.9	283.2	539.4	12.3	10.5	31.9
60-64	555.7	535.5	1005.8	31.9	27.1	86.7
65-69	859.5	837.5	1304.1	70.8	62.4	167.9
70-74	1084.0	1045.5	1747.9	142.4	127.0	357.1
75-79	1056.8	1009.6	1562.0	247.8	227.3	555.3
80-84	936.9	895.2	1292.6	433.0	403.6	922.4
85+	852.0	822.0	1108.0	759.8	722.8	1323.8
AGE-ADJUSTED RATES, 1994-98						
AGE AT DIAGNOSIS/DEATH:						
All ages	142.0	136.6	230.8	23.7	21.7	52.1
Under 65	51.7	49.4	96.4	2.5	2.1	6.7
65 and over	966.4	932.2	1457.7	217.2	200.0	466.2
All ages (world std.)⊕	109.0	104.9	180.2	15.5	14.1	34.5

§   SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, unless noted.
δ   NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, unless noted.
⊕   Rates are per 100,000 and are age-adjusted to the world standard population.
-   Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XXII-3
PROSTATE CANCER (Invasive)

SEER INCIDENCE§ AND U.S. MORTALITYδ RATES, AGE-ADJUSTED RATES, BY RACE AND AGE

	All Races, Males			White Males			Black Males		
	All	<65	65+	All	<65	65+	All	<65	65+
SEER INCIDENCE RATES									
YEAR OF DIAGNOSIS:									
1973	64.2	12.6	535.2	62.6	11.8	526.1	106.3	26.7	832.4
1974	65.6	12.1	553.5	64.8	11.5	551.5	100.7	25.4	788.1
1975	70.7	13.6	591.1	69.0	13.0	580.5	111.6	27.0	883.8
1976	73.5	14.6	611.7	72.7	13.9	608.8	110.6	29.1	854.3
1977	76.1	15.1	633.3	74.5	14.4	623.3	122.1	28.9	972.7
1978	75.2	15.2	622.8	73.6	14.7	610.9	116.8	27.0	936.6
1979	78.0	14.9	654.0	77.1	14.7	647.1	123.1	25.9	1009.7
1980	79.9	15.4	668.1	78.7	14.6	664.3	127.2	33.7	980.9
1981	82.1	16.7	679.0	81.0	15.9	675.0	127.4	34.0	979.7
1982	82.2	16.4	683.5	81.3	15.8	679.2	130.7	31.2	1038.9
1983	84.9	17.1	704.2	84.1	16.5	701.4	134.4	34.1	1049.6
1984	84.7	17.2	700.8	83.3	16.2	695.8	139.4	37.2	1072.9
1985	88.3	17.9	730.7	87.3	17.5	724.3	133.7	31.6	1064.9
1986	91.4	18.5	757.3	91.2	18.2	757.8	133.2	34.2	1037.1
1987	103.2	21.5	848.5	103.4	21.1	854.3	148.5	35.6	1179.0
1988	106.4	22.2	875.3	107.0	22.3	879.7	149.4	34.4	1199.2
1989	113.2	24.2	925.1	113.5	24.2	929.1	151.2	37.1	1192.9
1990	132.8	28.7	1082.6	134.0	28.7	1094.4	175.2	44.5	1368.2
1991	169.4	38.9	1360.9	170.6	39.3	1368.8	227.2	56.4	1785.9
1992	190.6	49.2	1481.6	190.5	49.1	1481.3	262.5	76.5	1960.5
1993	171.1	50.6	1270.9	166.2	48.9	1236.3	278.4	93.8	1963.4
1994	149.0	48.3	1067.4	143.2	46.4	1026.3	255.8	94.8	1725.6
1995	140.5	49.6	970.2	135.4	47.3	939.7	229.9	96.6	1446.9
1996	140.0	52.7	936.8	134.9	50.7	903.2	228.3	99.0	1407.9
1997	143.3	54.2	956.7	138.5	52.4	924.4	224.9	94.1	1419.4
1998	137.3	53.0	906.3	130.9	49.6	872.5	216.2	96.9	1305.5
1994-98	142.0	51.7	966.4	136.6	49.4	932.2	230.8	96.4	1457.7
U.S. MORTALITY RATES									
YEAR OF DEATH:									
1973	21.7	2.7	195.4	20.3	2.3	184.7	39.5	6.9	336.4
1974	21.7	2.7	194.8	20.2	2.3	183.5	39.7	6.8	340.2
1975	21.6	2.5	195.3	20.1	2.2	183.2	40.6	6.5	351.5
1976	22.1	2.7	199.7	20.6	2.3	187.9	40.8	6.9	350.2
1977	22.1	2.7	199.4	20.6	2.3	187.2	41.2	6.9	354.0
1978	22.6	2.6	204.8	21.0	2.3	191.9	42.5	6.8	368.2
1979	22.7	2.6	206.2	21.1	2.2	192.8	43.0	6.6	375.0
1980	22.8	2.7	206.6	21.1	2.3	192.0	44.6	6.6	391.4
1981	22.9	2.7	207.0	21.0	2.3	191.8	45.8	7.1	399.8
1982	23.0	2.7	208.4	21.3	2.3	194.0	44.7	6.6	392.7
1983	23.4	2.8	211.8	21.6	2.4	196.7	46.6	7.0	408.5
1984	23.4	2.7	212.0	21.5	2.4	196.2	47.1	6.7	415.1
1985	23.4	2.7	212.1	21.5	2.4	195.8	48.1	7.1	422.0
1986	24.1	2.8	218.4	22.2	2.5	202.5	48.3	6.6	429.0
1987	24.1	2.7	219.6	22.2	2.4	203.4	49.1	6.7	436.3
1988	24.7	2.8	223.8	22.8	2.5	208.2	49.5	7.0	437.9
1989	25.4	3.0	230.4	23.5	2.6	214.2	51.1	7.1	453.0
1990	26.4	3.0	239.9	24.3	2.7	222.2	54.8	7.5	486.3
1991	26.7	2.9	243.8	24.7	2.5	226.4	54.9	7.1	490.7
1992	26.6	2.9	242.6	24.4	2.5	225.0	55.6	7.8	492.1
1993	26.4	2.8	242.0	24.2	2.4	223.5	56.2	7.2	503.4
1994	25.8	2.7	236.5	23.7	2.3	218.6	55.1	6.9	494.9
1995	24.8	2.6	227.5	22.8	2.2	210.1	53.4	6.9	477.8
1996	24.0	2.5	219.9	21.9	2.2	201.7	53.6	6.7	481.6
1997	22.6	2.3	207.1	20.6	2.0	190.5	49.9	6.5	446.0
1998	21.5	2.3	197.1	19.6	1.9	181.1	48.7	6.5	433.2
1994-98	23.7	2.5	217.2	21.7	2.1	200.0	52.1	6.7	466.2

§ SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.
δ NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.
- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XXII-4
PROSTATE CANCER (Invasive)

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

	All Races, Males			White Males			Black Males		
	All	<65	65+	All	<65	65+	All	<65	65+
5-YR RELATIVE SURVIVAL RATES									
YEAR OF DIAGNOSIS:									
1960-63[a]	-	-	-	50	-	-	35	-	-
1970-73[a]	-	-	-	63	-	-	55	-	-
1974-76[b]	67.1	71.4	65.5	68.1	72.9	66.4	58.3	60.5	57.1
1977-79[b]	71.1	75.8	69.4	72.2	77.5	70.3	62.5	64.5	61.6
1980-82[b]	73.4	76.4	72.3	74.5	78.0	73.3	64.7	66.7	63.7
1983-85[b]	74.8	75.6	74.5	76.2	77.5	75.9	63.8	64.5	63.5
1986-88[b]	81.1	81.3	81.1	82.7	83.0	82.6	69.3	70.0	69.1
1989-91[b]	90.4	90.0	90.6	91.7	91.2	91.9	80.4	81.8	79.8
1992-97[b]	96.2Ω	96.3	96.9	97.0Ω	96.9	97.8	91.8Ω	94.2Ω	91.3Ω
1992-97[b]									
ALL STAGES	96.2	96.3	96.9	97.0	96.9	97.8	91.8	94.2	91.3
LOCAL/REGIONAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DISTANT	33.7	29.7	35.1	33.4	29.5	34.6	30.5	28.9	31.2
UNSTAGED	87.7	91.6	87.1	88.6	92.2	88.1	85.2	90.4	82.9
STAGE DISTRIBUTION (%) 1992-97[b]									
ALL STAGES									
Number of cases	98,292	26,824	71,468	81,902	21,922	59,980	11,637	4,068	7,569
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCAL/REGIONAL	83	89	80	83	90	81	78	84	76
DISTANT	6	4	7	6	4	6	9	6	10
UNSTAGED	11	7	13	11	7	13	13	10	14
5-YR RELATIVE SURVIVAL RATES, 1992-97[b]									
AGE AT DIAGNOSIS:									
<45	87.7	-	-	86.1	-	-	95.1	-	-
45-54	94.5	-	-	94.6	-	-	94.6	-	-
55-64	96.9	-	-	97.6	-	-	94.5	-	-
65-74	99.2	-	-	100.0	-	-	95.2	-	-
75+	92.8	-	-	94.1	-	-	82.5	-	-
Under 65	96.3	-	-	96.9	-	-	94.2	-	-
65 and over	96.9	-	-	97.8	-	-	91.3	-	-

[a] Rates are based on End Results data from a series of hospital registries and one population-based registry.
[b] Rates are from the SEER Program. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients through 1997.
Ω The difference in rates between 1974-76 and 1992-97 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.

Table XXII-5
PROSTATE CANCER (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males

Year of Diagnosis/Death

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Incidence																				
SEER	70.7	79.9	82.1	82.2	84.9	84.7	88.3	91.4	103.2	106.4	113.2	132.8	169.4	190.6	171.1	149.0	140.5	140.0	143.3	137.3
Mortality																				
U.S.	21.6	22.8	22.9	23.0	23.4	23.4	23.4	24.1	24.1	24.7	25.4	26.4	26.7	26.6	26.4	25.8	24.8	24.0	22.6	21.5
SEER	22.0	23.3	22.9	23.4	23.8	22.9	23.6	24.2	24.7	24.3	25.4	25.5	26.4	26.2	25.3	25.4	23.7	23.1	21.0	20.8
Relative Survival Rates (SEER)																				
1-year	90.7	93.4	94.1	94.2	94.6	94.8	95.2	94.9	95.5	96.4	96.9	97.6	98.9	99.8	99.6	99.4	99.1	99.5	99.7	
2-year	83.8	87.7	88.3	88.0	89.1	89.2	88.8	89.4	91.5	92.8	93.9	94.8	97.6	98.7	98.6	98.5	98.2	98.7		
3-year	77.2	81.5	82.6	83.1	83.7	83.3	83.9	84.2	87.2	88.9	90.5	92.6	96.3	98.2	97.6	97.5	97.9			
4-year	72.4	76.9	77.5	78.0	78.3	79.0	79.4	80.5	83.8	86.3	88.1	90.8	95.2	97.9	97.4	96.8				
5-year	67.3	72.4	74.1	73.6	74.1	74.3	75.8	77.8	81.1	83.9	85.6	89.7	94.1	97.4	96.8					
6-year	63.5	68.6	70.9	69.5	70.7	71.8	73.0	74.8	78.8	81.8	83.7	88.5	93.1	96.6						
7-year	60.3	64.9	66.8	65.7	66.9	70.1	70.8	72.8	76.3	78.9	82.2	86.8	92.8							
8-year	57.1	61.4	64.4	63.0	63.6	67.6	68.4	71.3	74.4	77.3	80.9	85.5								
9-year	54.2	59.1	62.1	60.7	62.0	65.6	66.4	68.9	72.9	76.1	79.8									
10-year	51.6	56.6	59.7	59.5	60.7	64.3	64.4	67.1	71.6	74.7										
11-year	50.5	55.2	57.2	57.5	59.1	62.1	62.0	65.9	70.2											
12-year	48.2	53.0	55.3	56.1	57.8	60.3	59.9	64.2												
13-year	46.5	51.6	54.3	54.0	56.5	58.9	59.0													
14-year	45.4	50.8	52.9	52.7	54.7	57.8														
15-year	45.1	50.1	51.8	52.3	53.9															
16-year	43.2	49.3	50.8	50.5																
17-year	42.6	48.3	50.8																	
18-year	41.6	47.2																		
19-year	41.6																			
20-year	40.9																			
21-year	37.7																			
22-year	36.7																			
23-year	35.6																			

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

Survival rates are relative rates expressed as percents.

Table XXII-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 (11 SEER Areas) With Cancer and
Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

1996-1998

All Races

Current Age	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	16.03
10	0.00	0.00	0.00	16.18
20	0.00	0.00	0.16	16.28
30	0.00	0.17	2.06	16.50
40	0.17	2.10	7.73	16.82
50	2.01	7.86	14.12	17.31
60	6.46	13.37	16.31	16.89

Lifetime Risk of Being Diagnosed =   16.03%
Lifetime Risk of Dying =   3.22%

Whites

Current Age	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	15.53
10	0.00	0.00	0.00	15.66
20	0.00	0.00	0.15	15.75
30	0.00	0.15	2.00	15.94
40	0.15	2.03	7.55	16.23
50	1.95	7.66	13.66	16.64
60	6.26	12.85	15.59	16.12

Lifetime Risk of Being Diagnosed =   15.53%
Lifetime Risk of Dying =   3.03%

Blacks

Current Age	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	18.26
10	0.00	0.00	0.01	18.63
20	0.00	0.01	0.35	18.83
30	0.01	0.36	3.44	19.40
40	0.37	3.56	10.89	20.16
50	3.48	11.46	18.50	21.55
60	9.71	18.30	21.38	22.02

Lifetime Risk of Being Diagnosed =   18.26%
Lifetime Risk of Dying =   4.86%

Table XXII-7
PROSTATE CANCER (Invasive)

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

By Race/Ethnicity and Sex

Incidenceχ

	Rate 1992-1998 Rate per 100,000 persons	Trend 1992-1998 EAPC (%)
	Males	Males
RACE/ETHNICITY		
All Races	149.6	-5.1★
White	144.6	-5.7★
White Hispanic	108.7	-4.0★
White Non-Hispanic	147.8	-5.8★
Black	234.2	-4.0★
Asian/Pacific Islander	82.8	-4.2★
Amer Ind/Alask Nat	47.8	-6.2
Hispanic⊗	103.4	-4.1★

Mortality✤

	Rate 1992-1998 Rate per 100,000 persons	Trend 1992-1998 EAPC (%)
	Males	Males
RACE/ETHNICITY		
All Races	24.5	-3.5★
White	22.4	-3.7★
White Hispanic	16.6	-3.1★
White Non-Hispanic	22.6	-3.6★
Black	53.1	-2.3★
Asian/Pacific Islander	9.8	-4.7★
Amer Ind/Alask Nat	14.0	-4.3★
Hispanic⊗	15.9	-3.0★

	The EAPC is the Estimated 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.
χ	Incidence data are from the 11 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, and Los Angeles) and Alaska. Unless specified, other tables use data from 9 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
⊗	Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians/Native Alaskans. For incidence, all 11 SEER areas are included. For mortality, information is included for all states except Connecticut, Oklahoma, Louisiana, and New Hampshire.
✤	Mortality data are analyzed from a public-use file provided by the National Center for Health Statistics (NCHS).
★	The EAPC is significantly different from zero (p<.05).

Table XXII-8
PROSTATE CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE RATES§ AND SEER MORTALITY RATESδ
By Registry and Race

	All Races, Males			White Males			Black Males		
	All	<65	65+	All	<65	65+	All	<65	65+
SEER INCIDENCE RATES§, 1994-98									
REGISTRY									
11 registries	139.3	50.7	947.4	133.3	48.7	905.7	222.9	94.5	1395.5
9 registries	142.0	51.7	966.4	136.6	49.4	932.2	230.8	96.4	1457.7
San Francisco-Oakland	136.5	49.2	933.1	134.6	51.1	897.0	177.8	75.9	1108.0
Connecticut	141.3	53.2	945.4	134.6	49.9	907.5	218.1	87.9	1406.9
Metropolitan Detroit	172.2	63.6	1163.3	149.2	52.7	1030.0	256.3	103.9	1647.7
Hawaii	99.2	27.4	753.9	136.4	46.5	956.9	–	–	–
Iowa	127.7	42.7	903.3	125.4	42.0	887.1	–	–	–
New Mexico	124.1	43.2	861.9	127.1	44.8	878.1	–	–	–
Seattle-Puget Sound	134.7	48.9	918.2	134.0	48.6	913.7	200.2	89.4	1210.8
Utah	145.4	50.6	1011.1	146.8	51.4	1017.4	–	–	–
Metropolitan Atlanta	170.6	70.0	1088.7	147.4	57.9	963.5	262.6	116.6	1595.1
San Jose-Monterey	127.2	48.7	843.6	123.3	49.7	795.3	201.1	92.6	1192.2
Los Angeles	133.4	48.2	910.8	124.6	46.0	841.7	205.3	90.1	1256.8
SEER MORTALITY RATESδ, 1994-98									
REGISTRY									
11 registries	22.0	2.3	201.7	21.2	2.1	195.9	45.6	6.6	401.2
9 registries	22.8	2.3	209.6	21.9	2.1	203.4	46.3	6.2	411.9
San Francisco-Oakland	21.5	2.6	194.0	21.6	2.6	195.7	42.2	6.2	371.6
Connecticut	21.3	2.1	196.9	20.1	1.7	188.7	49.0	8.5	418.5
Metropolitan Detroit	25.2	2.5	232.6	21.2	1.9	197.4	42.9	5.2	386.9
Hawaii	15.2	1.3	142.4	23.7	–	217.3	–	–	–
Iowa	23.1	1.9	216.2	22.9	1.8	215.2	–	–	–
New Mexico	23.3	2.3	214.1	23.4	2.4	215.2	–	–	–
Seattle-Puget Sound	21.3	1.9	198.9	21.2	2.0	197.3	46.0	–	446.1
Utah	25.2	2.4	233.7	25.3	2.4	234.5	–	–	–
Metropolitan Atlanta	29.9	3.5	270.6	22.7	2.3	209.2	64.0	8.5	570.5
San Jose-Monterey	18.7	2.1	170.9	20.3	2.3	183.9	35.5	–	–
Los Angeles	20.4	2.6	183.1	19.1	2.2	173.2	44.4	7.8	378.2

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.
§   SEER Program. Incidence rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.
δ   NCHS public use tape. Mortality rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.
-      Statistic could not be calculated or populations are inadequate.

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                              Table XXII-9
                         PROSTATE CANCER (Invasive)


        AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITYᵈ RATES BY STATE, 1994-98


                             All Races, Males
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State	Rate	SE	Rank	PD
TOTAL U.S.	23.7	0.06		
High Five States				
District of Columbia	40.1¾'	1.68	(01)	69.2
Mississippi	30.8¾'	0.67	(02)	30.0
South Carolina	30.4¾'	0.60	(03)	28.3
Georgia	29.4¾'	0.46	(04)	24.1
Louisiana	29.2¾'	0.54	(05)	23.2
Low Five States				
Arizona	21.2¾'	0.41	(47)	-10.5
California	20.8¾'	0.17	(48)	-12.2
Nebraska	20.2¾'	0.64	(49)	-14.8
Alaska	17.3¾'	1.66	(50)	-27.0
Hawaii	15.2¾'	0.65	(51)	-35.9

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	28.2¾'	0.50	(06)	19.0	Montana	24.5	0.96	(18)	3.4
Alaska	17.3¾'	1.66	(50)	-27.0	Nebraska	20.2¾'	0.64	(49)	-14.8
Arizona	21.2¾'	0.41	(47)	-10.5	Nevada	23.0	0.79	(35)	-3.0
Arkansas	25.5	0.58	(13)	7.6	New Hampshire	22.8	0.89	(37)	-3.8
California	20.8¾'	0.17	(48)	-12.2	New Jersey	24.1	0.33	(24)	1.7
Colorado	21.4¾	0.51	(43)	-9.7	New Mexico	23.3	0.74	(33)	-1.7
Connecticut	21.3¾'	0.47	(45)	-10.1	New York	23.0	0.22	(36)	-3.0
Delaware	26.9'	1.21	(09)	13.5	North Carolina	28.1¾'	0.40	(07)	18.6
District of Columbia	40.1¾'	1.68	(01)	69.2	North Dakota	25.5	1.09	(12)	7.6
Florida	21.5¾	0.20	(42)	-9.3	Ohio	24.4	0.28	(20)	3.0
Georgia	29.4¾'	0.46	(04)	24.1	Oklahoma	21.3¾'	0.48	(44)	-10.1
Hawaii	15.2¾'	0.65	(51)	-35.9	Oregon	23.8	0.50	(29)	0.4
Idaho	24.3	0.87	(21)	2.5	Pennsylvania	24.1	0.25	(25)	1.7
Illinois	24.1	0.28	(23)	1.7	Rhode Island	23.8	0.88	(30)	0.4
Indiana	24.1	0.40	(22)	1.7	South Carolina	30.4¾'	0.60	(03)	28.3
Iowa	23.1	0.50	(34)	-2.5	South Dakota	24.4	1.02	(19)	3.0
Kansas	22.0	0.53	(41)	-7.2	Tennessee	25.1	0.43	(15)	5.9
Kentucky	24.1	0.49	(27)	1.7	Texas	24.1	0.24	(26)	1.7
Louisiana	29.2¾'	0.54	(05)	23.2	Utah	25.2	0.79	(14)	6.3
Maine	23.6	0.81	(32)	-0.4	Vermont	23.7	1.25	(31)	0.0
Maryland	26.9¾'	0.48	(10)	13.5	Virginia	27.3¾'	0.43	(08)	15.2
Massachusetts	22.7	0.36	(38)	-4.2	Washington	21.2¾'	0.39	(46)	-10.5
Michigan	24.0	0.31	(28)	1.3	West Virginia	22.5	0.63	(39)	-5.1
Minnesota	24.7	0.44	(17)	4.2	Wisconsin	24.8	0.41	(16)	4.6
Mississippi	30.8¾'	0.67	(02)	30.0	Wyoming	25.9	1.47	(11)	9.3
Missouri	22.4	0.38	(40)	-5.5					

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d       NCHS public use tape.  Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.
SE      Standard error of the rate.
PD      Percent difference between state rate and total U.S. rate.
'       Absolute difference between state rate and total U.S. rate is 10% or more.
¾       Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
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Figure XXII-1

SEER Incidence and U.S. Mortality Rates[+]
Prostate
By Race
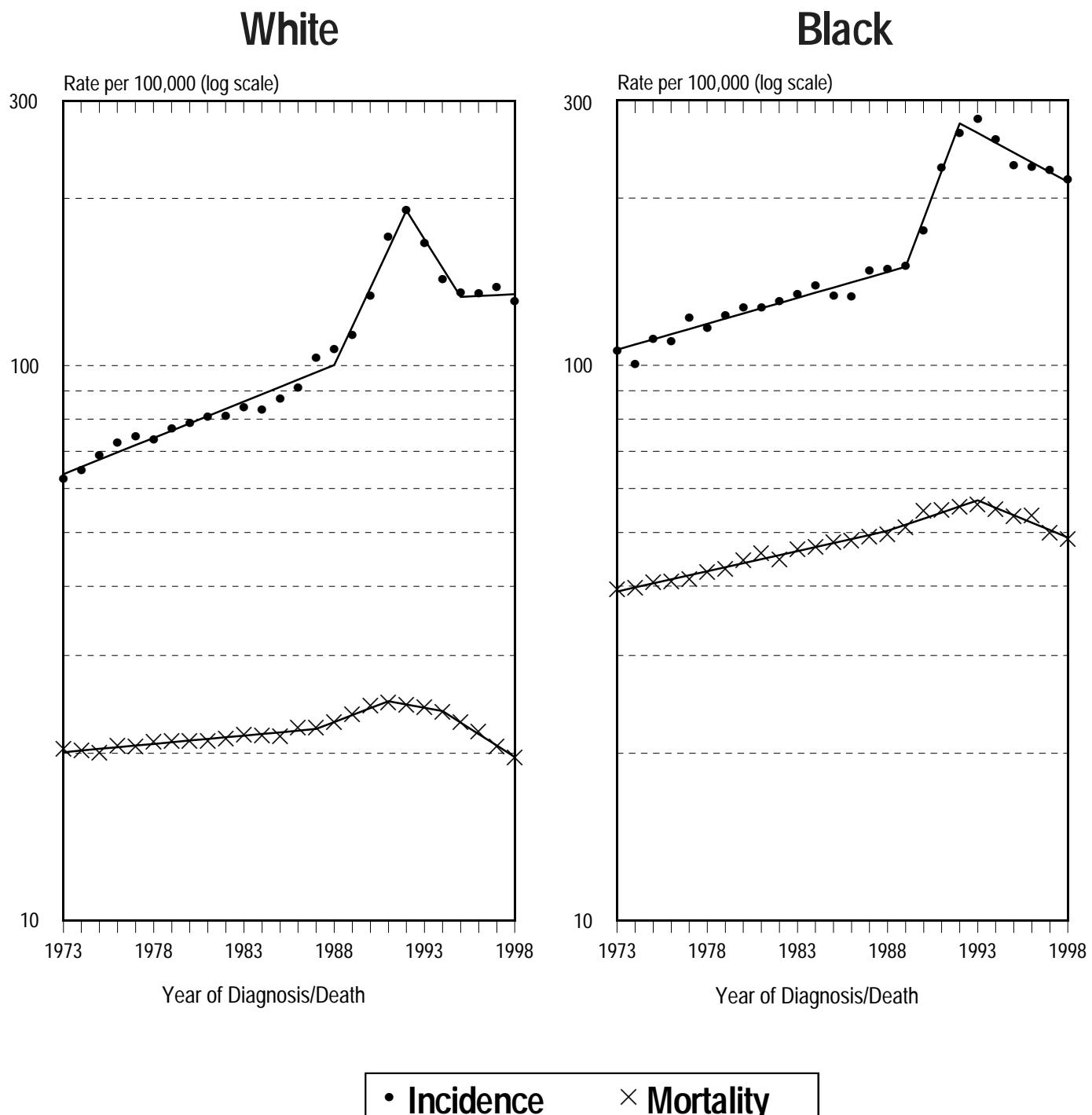
White

Rate per 100,000 (log scale)

Year of Diagnosis/Death

Black

Rate per 100,000 (log scale)

Year of Diagnosis/Death

• Incidence   × Mortality

[+] Rates are age-adjusted to the 1970 U.S. standard million population. Regression lines are calculated using the
Joinpoint Regression Program.

Figure XXII-2

SEER Incidence and U.S. Mortality Rates+
Prostate Cancer, By Age and Race

White - Under 65 Years of Age
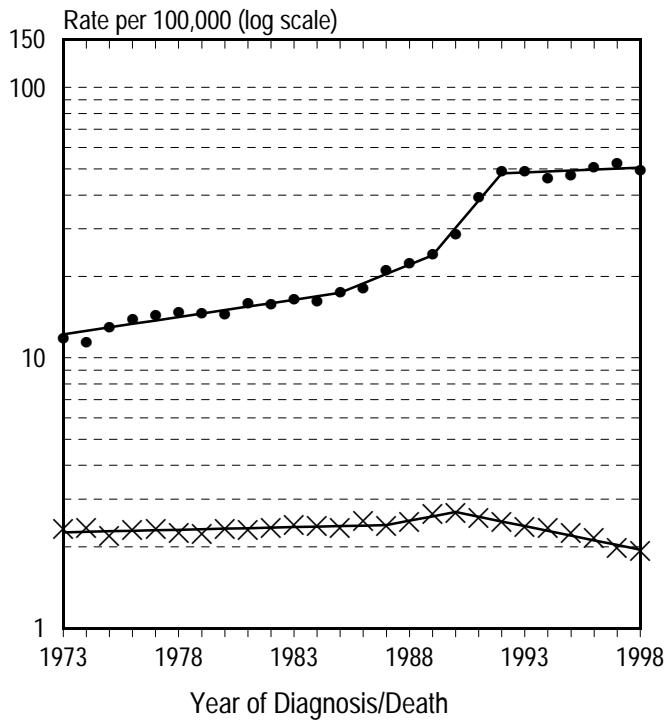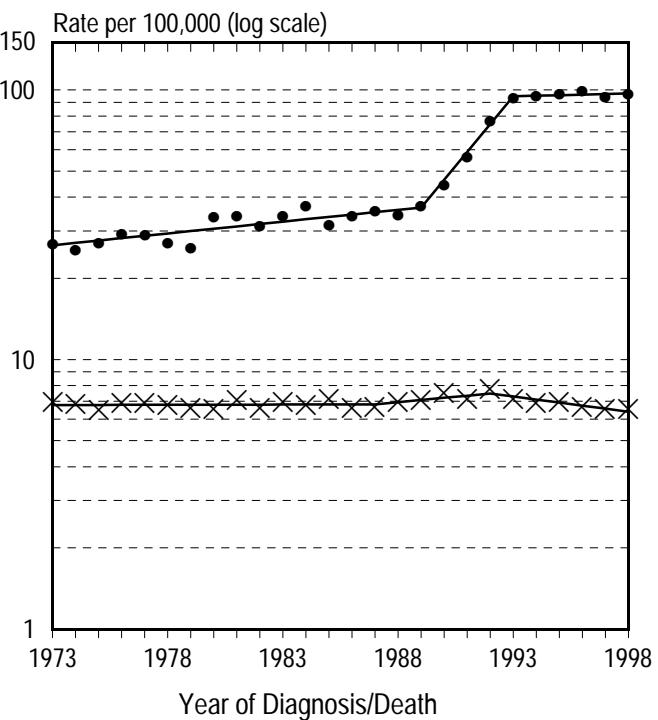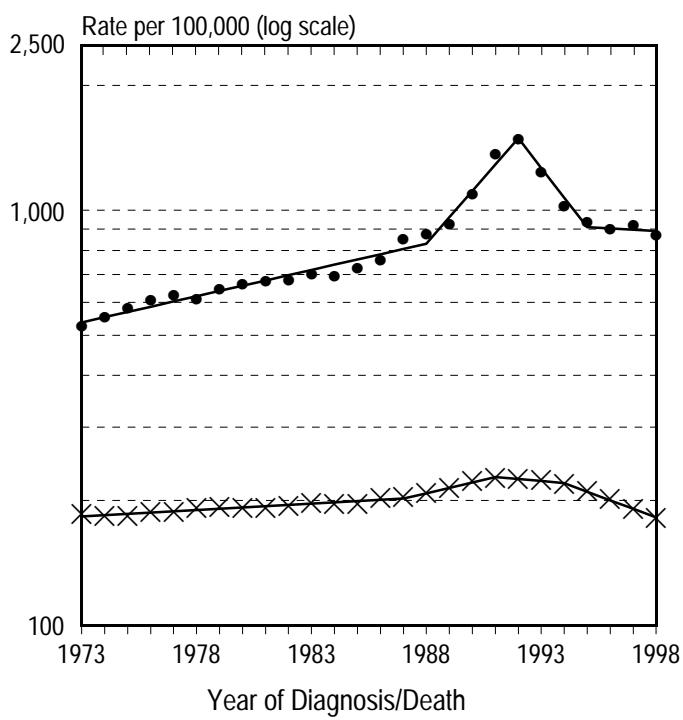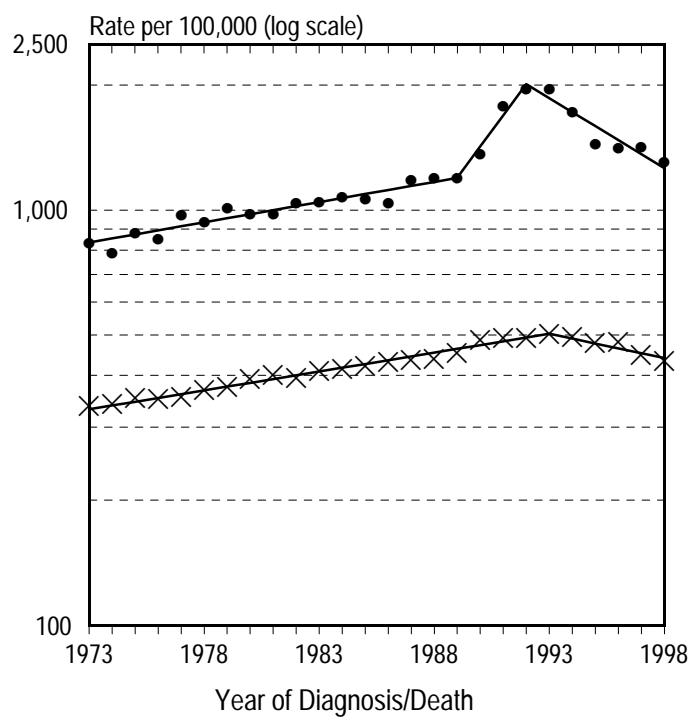
Rate per 100,000 (log scale)

Year of Diagnosis/Death

Black - Under 65 Years of Age

Rate per 100,000 (log scale)

Year of Diagnosis/Death

White - Ages 65 and Over

Rate per 100,000 (log scale)

Year of Diagnosis/Death

Black - Ages 65 and Over

Rate per 100,000 (log scale)

Year of Diagnosis/Death

• Incidence   × Mortality

+ Rates are age-adjusted to the 1970 U.S. standard million population. Regression lines are calculated using the Joinpoint Regression Program.

Figure XXII-3

Cancer of the Prostate
SEER Incidence & U.S. Mortality, 1973-1998
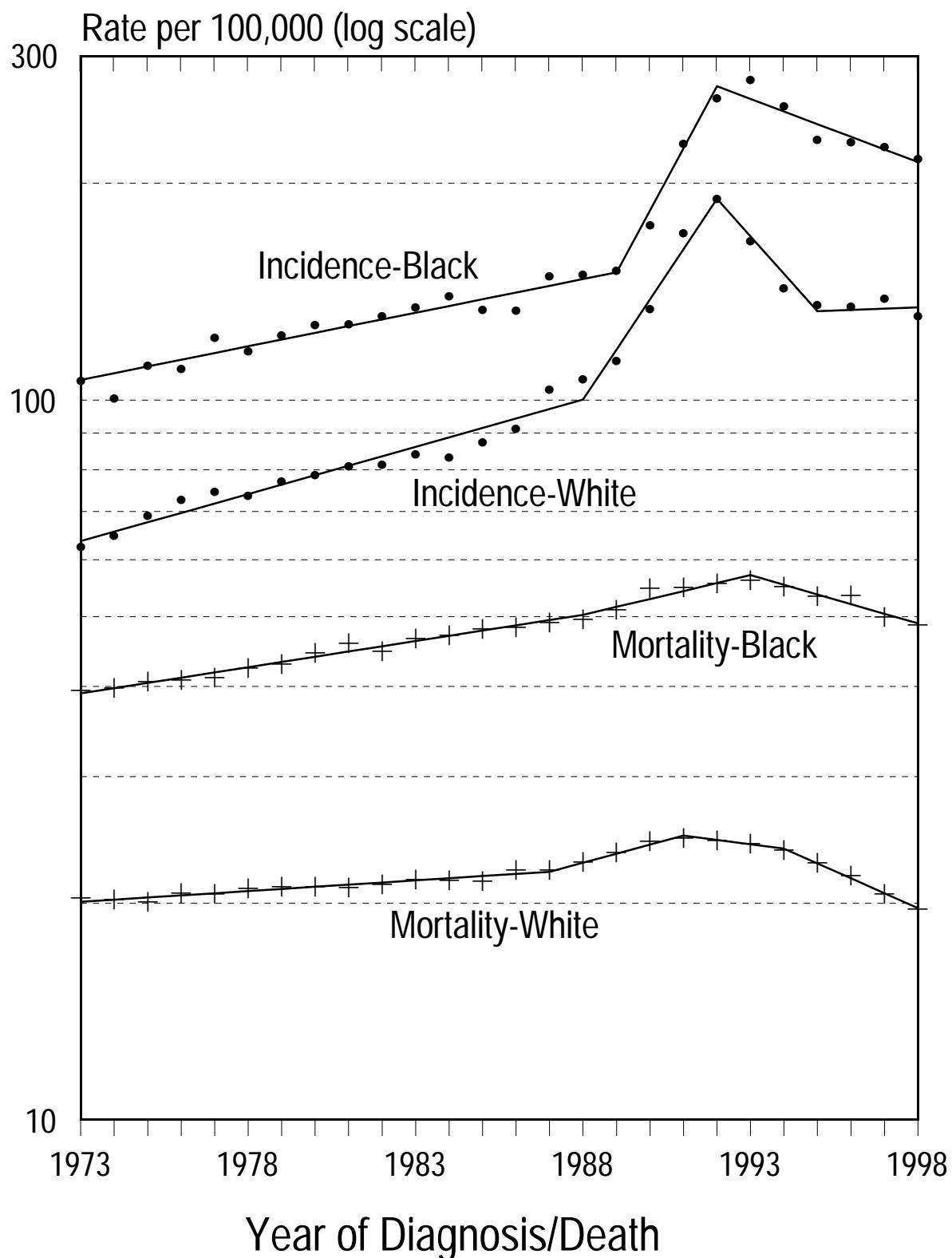
Rate per 100,000 (log scale)

Incidence-Black

Incidence-White

Mortality-Black

Mortality-White

Year of Diagnosis/Death

Rates are age-adjusted to the 1970 U.S. standard million population. Regression lines are calculated using the Joinpoint Regression Program.

Figure XXII-4

Prostate vs. Lung Cancer Incidence
All Races, Males
1973-1998
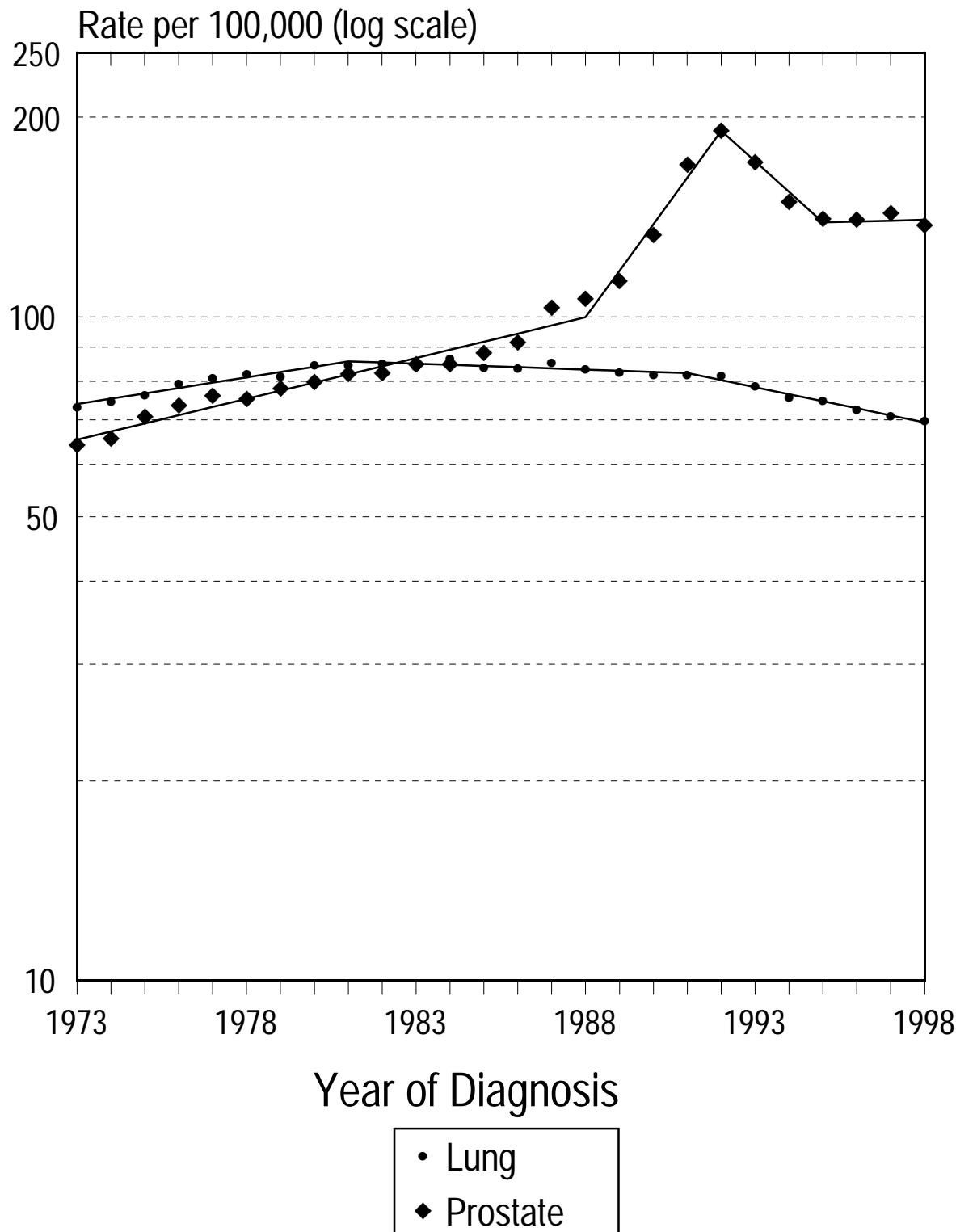
Rate per 100,000 (log scale)

Year of Diagnosis

Legend:
- • Lung
- ◆ Prostate

Rates are age-adjusted to the 1970 U.S. standard million population. Regression lines are calculated using the Joinpoint Regression Program.

Figure XXII-5

SEER Incidence and Delay Adjusted Incidence Rates⁺
Prostate
By Race
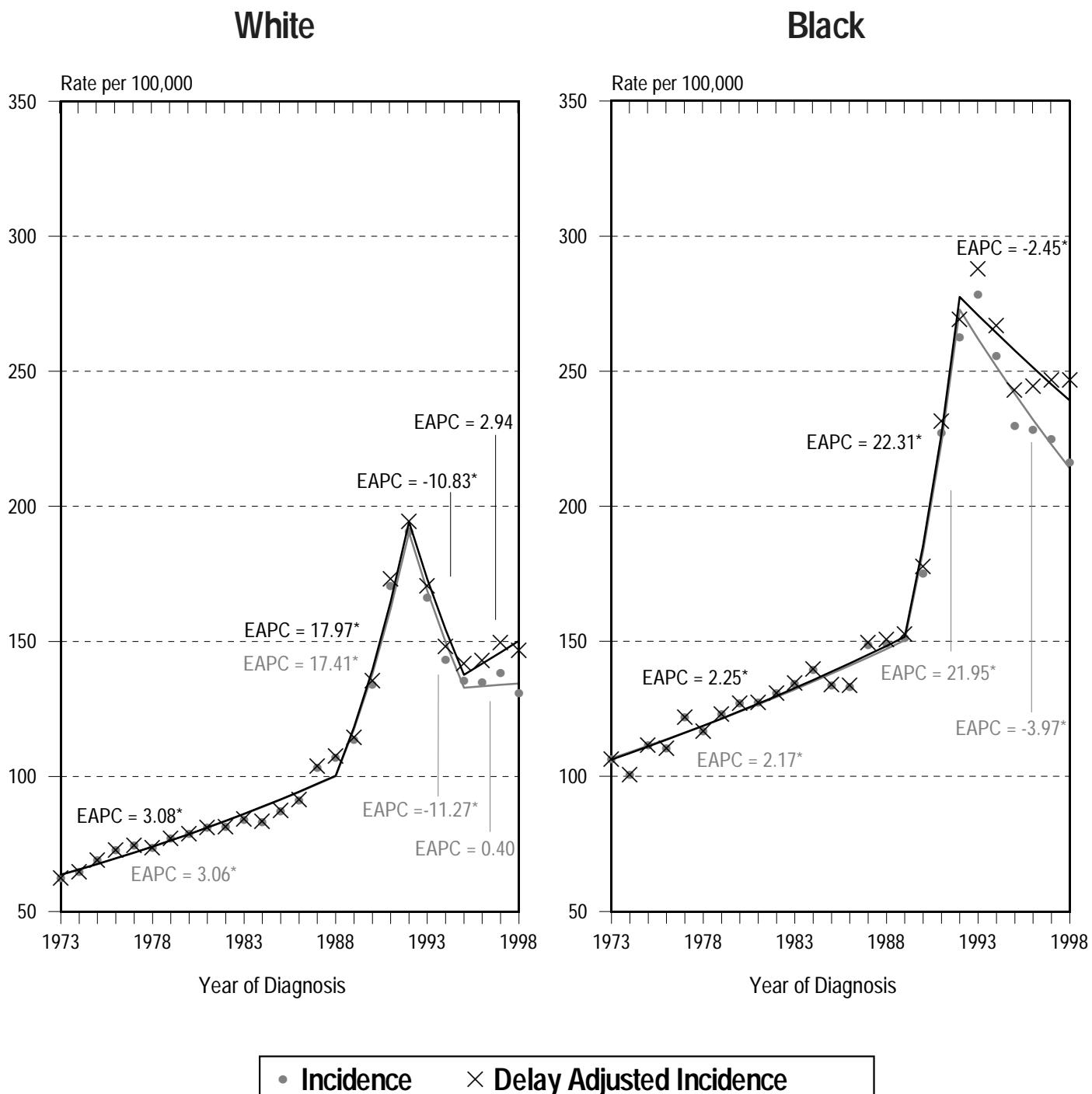
White

Rate per 100,000

EAPC = 2.94
EAPC = -10.83*
EAPC = 17.97*
EAPC = 17.41*
EAPC = 3.08*
EAPC = 3.06*
EAPC = -11.27*
EAPC = 0.40

Year of Diagnosis

Black

Rate per 100,000

EAPC = -2.45*
EAPC = 22.31*
EAPC = 2.25*
EAPC = 21.95*
EAPC = 2.17*
EAPC = -3.97*

Year of Diagnosis

• **Incidence**   ✕ **Delay Adjusted Incidence**

⁺ Rates are age-adjusted to the 1970 U.S. standard million population. Regression lines are calculated using the Joinpoint Regression Program. The EAPC is the Estimated Annual Percent Change for the regression line segments.The EAPC is calcualted by the Joinpoint Regression Program.
* The EAPC is significantly different from zero (p < 0.05).