

Table XVI-1
MELANOMA OF THE SKIN (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

		Joinpoint Segment 1		Joinpoint Segment 2		Joinpoint Segment 3		Joinpoint Segment 4	
		Year	APC	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence^a</u>									
All Races	Male and Female	1975-1981	5.8*	1981-2001	2.9*	2001-2003	-1.9		
All Races	Male	1975-1985	5.5*	1985-2001	3.3*	2001-2003	-3.3		
All Races	Female	1975-1981	5.2*	1981-2003	2.2*				
White	Male and Female	1975-1980	6.8*	1980-2001	3.3*	2001-2003	-2.3		
White	Male	1975-1985	5.7*	1985-2001	3.5*	2001-2003	-3.7		
White	Female	1975-1981	6.2*	1981-1993	2.0*	1993-2001	3.7*	2001-2003	-1.9
Black	Male and Female	1975-2003	-0.3						
Black	Male	1975-2003	1.2						
Black	Female	1975-2003	-1.6*						
<u>SEER Delay-Adjusted Incidence^a</u>									
All Races	Male and Female	1975-1981	5.9*	1981-2003	2.9*				
All Races	Male	1975-1985	5.5*	1985-2001	3.4*	2001-2003	-0.9		
All Races	Female	1975-1981	4.9*	1981-2003	2.4*				
White	Male and Female	1975-1981	6.3*	1981-2003	3.3*				
White	Male	1975-1985	5.8*	1985-2001	3.7*	2001-2003	-1.7		
White	Female	1975-1981	6.2*	1981-1994	2.1*	1994-1997	5.8	1997-2003	2.4*
<u>U.S. Cancer Mortality^b</u>									
All Races	Male and Female	1975-1990	1.5*	1990-2003	-0.3*				
All Races	Male	1975-1991	2.1*	1991-2003	-0.1				
All Races	Female	1975-1989	0.8*	1989-2003	-0.7*				
White	Male and Female	1975-1989	1.7*	1989-2003	-0.1				
White	Male	1975-1990	2.4*	1990-2003	0.1				
White	Female	1975-1988	1.0*	1988-2003	-0.5*				
Black	Male and Female	1975-2003	-0.7*						
Black	Male	1975-2003	-1.2*						
Black	Female	1975-2003	-0.3						

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 XVI-2
MELANOMA OF THE SKIN (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	7.9	8.5	7.4	8.7	9.4	8.2	-	-	-
1976	8.1	8.7	7.7	9.0	9.5	8.5	1.7	-	-
1977	8.9	9.8	8.2	9.8	10.8	9.1	-	-	-
1978	8.9	9.5	8.7	10.1	10.7	9.8	-	-	-
1979	9.5	10.6	8.9	10.7	11.9	10.0	-	-	-
1980	10.5	11.8	9.6	12.0	13.4	11.1	-	-	-
1981	11.1	12.1	10.4	12.6	13.5	12.0	1.4	-	-
1982	11.2	12.5	10.3	12.7	14.1	11.8	-	-	-
1983	11.1	12.6	10.0	12.5	14.3	11.4	-	-	-
1984	11.4	12.9	10.4	13.0	14.8	11.9	-	-	-
1985	12.8	15.1	11.2	14.3	17.0	12.5	-	-	-
1986	13.3	15.7	11.6	15.1	17.8	13.2	-	-	-
1987	13.7	15.9	12.2	15.5	18.0	13.9	1.3	-	-
1988	12.9	15.0	11.4	14.9	17.3	13.2	1.1	-	-
1989	13.7	16.4	11.9	15.8	18.9	13.7	1.2	-	-
1990	13.8	16.6	11.8	16.0	19.2	13.8	1.2	-	-
1991	14.6	17.6	12.5	17.0	20.4	14.6	1.2	-	-
1992	14.8	18.3	12.2	17.1	21.1	14.3	-	-	-
1993	14.6	18.0	12.1	16.9	20.8	14.1	-	-	-
1994	15.6	19.7	12.5	18.2	22.9	14.8	1.1	-	-
1995	16.4	20.2	13.7	19.1	23.4	16.3	1.7	3.0	-
1996	17.2	21.5	14.1	20.2	25.1	16.8	1.1	-	-
1997	17.6	21.6	14.8	20.7	25.0	17.7	1.1	-	-
1998	17.8	22.1	14.8	21.2	25.9	17.9	1.2	-	-
1999	18.1	22.7	14.9	21.5	26.6	18.1	1.1	-	-
2000	18.7	23.7	15.3	22.5	28.0	18.6	0.8	-	-
2001	19.4	24.1	16.2	23.5	28.7	20.0	0.8	-	-
2002	18.6	23.1	15.5	22.3	27.2	19.0	1.0	-	-
2003	18.7	23.0	15.8	22.3	26.9	19.2	0.8	-	-
1975-2003	14.3	17.3	12.3	16.5	19.9	14.3	1.0	1.2	0.9

^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 XVI-3
MELANOMA OF THE SKIN (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	2.1	2.6	1.6	2.3	2.9	1.7	0.5	0.6	0.4
1976	2.2	2.9	1.8	2.5	3.1	1.9	0.5	0.7	0.4
1977	2.3	2.9	1.8	2.5	3.2	1.9	0.5	0.7	0.4
1978	2.3	3.0	1.7	2.5	3.3	1.9	0.5	0.6	0.5
1979	2.4	3.2	1.8	2.7	3.5	2.0	0.5	0.6	0.5
1980	2.3	3.1	1.7	2.6	3.4	1.9	0.5	0.5	0.6
1981	2.4	3.1	1.9	2.7	3.4	2.1	0.6	0.6	0.6
1982	2.5	3.3	1.8	2.7	3.6	2.0	0.5	0.6	0.5
1983	2.5	3.3	1.8	2.7	3.6	2.0	0.5	0.6	0.4
1984	2.5	3.4	1.8	2.8	3.8	2.0	0.5	0.5	0.5
1985	2.6	3.5	1.9	2.8	3.8	2.1	0.5	0.6	0.5
1986	2.6	3.5	1.9	2.9	3.9	2.1	0.5	0.7	0.3
1987	2.6	3.7	1.8	2.9	4.1	2.0	0.6	0.6	0.5
1988	2.6	3.7	1.9	3.0	4.1	2.1	0.5	0.5	0.4
1989	2.7	3.7	1.9	3.0	4.2	2.1	0.6	0.6	0.5
1990	2.8	3.8	2.0	3.1	4.2	2.2	0.5	0.6	0.4
1991	2.7	3.9	1.8	3.0	4.3	2.0	0.6	0.6	0.5
1992	2.7	3.8	1.8	3.0	4.3	2.1	0.5	0.6	0.4
1993	2.7	3.9	1.9	3.0	4.3	2.1	0.5	0.4	0.6
1994	2.7	3.8	1.8	3.0	4.3	2.0	0.4	0.4	0.4
1995	2.7	3.9	1.8	3.0	4.3	2.0	0.5	0.5	0.4
1996	2.8	4.0	1.9	3.1	4.5	2.1	0.4	0.5	0.4
1997	2.7	3.9	1.8	3.1	4.4	2.1	0.6	0.5	0.6
1998	2.8	4.1	1.8	3.1	4.6	2.0	0.5	0.5	0.5
1999	2.6	3.8	1.7	3.0	4.3	2.0	0.4	0.5	0.3
2000	2.7	3.8	1.8	3.0	4.3	2.0	0.5	0.6	0.5
2001	2.7	3.9	1.7	3.0	4.4	2.0	0.4	0.3	0.4
2002	2.6	3.8	1.7	3.0	4.2	2.0	0.4	0.5	0.3
2003	2.7	3.9	1.7	3.0	4.4	2.0	0.4	0.4	0.4
1975-2003	2.6	3.6	1.8	2.9	4.0	2.0	0.5	0.5	0.5

^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 XVI-4
MELANOMA OF THE SKIN (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	18.2	23.2	14.7	21.1	26.5	17.3	1.0	1.1	0.9
Under 65	12.1	12.9	11.4	14.2	15.0	13.6	0.5	0.6	0.5
65 and over	60.5	94.1	37.5	68.4	106.1	42.4	4.2	5.0	3.7
All ages(IARC world std) ^c	13.2	15.9	11.2	15.4	18.3	13.2	0.7	0.7	0.6
AGE-SPECIFIC RATES, 2000-2003									
<1	-	-	-	-	-	-	-	-	-
1-4	0.1	-	-	0.1	-	-	-	-	-
5-9	0.1	-	0.2	0.2	-	0.2	-	-	-
10-14	0.3	0.3	0.4	0.4	0.4	0.4	-	-	-
15-19	1.7	1.4	2.1	2.1	1.7	2.5	-	-	-
20-24	4.0	2.6	5.6	4.9	3.1	6.9	-	-	-
25-29	6.9	4.8	9.1	8.4	5.9	11.2	-	-	-
30-34	9.5	7.0	12.1	11.4	8.3	14.7	0.6	-	-
35-39	12.3	10.4	14.1	14.6	12.3	17.0	0.6	-	-
40-44	18.0	16.9	19.0	21.2	19.9	22.6	-	-	-
45-49	21.6	22.6	20.6	25.4	26.4	24.4	-	-	-
50-54	27.6	32.6	22.9	32.4	37.7	27.2	-	-	-
55-59	34.6	44.1	25.7	40.0	50.4	29.9	1.7	-	-
60-64	41.1	54.6	28.8	47.6	62.7	33.6	2.7	-	-
65-69	49.3	70.1	31.5	57.6	80.9	37.2	2.6	-	-
70-74	60.7	89.5	37.9	69.8	101.8	43.8	3.9	-	-
75-79	65.9	103.0	39.9	74.1	115.8	44.8	5.0	-	-
80-84	70.5	117.1	41.5	77.6	130.1	45.1	5.6	-	-
85+	63.7	114.7	40.8	69.2	126.0	44.2	5.7	-	-
<u>U.S. MORTALITY</u>									
<u>AGE AT DEATH</u>									
AGE-ADJUSTED RATES, 2000-2003									
All ages	2.6	3.8	1.8	3.0	4.3	2.0	0.4	0.5	0.4
Under 65	1.3	1.7	0.9	1.6	2.0	1.1	0.2	0.2	0.1
65 and over	11.7	18.3	7.4	12.9	20.1	8.1	2.4	2.4	2.4
All ages(IARC world std) ^c	1.7	2.4	1.2	2.0	2.8	1.3	0.3	0.3	0.2
AGE-SPECIFIC RATES, 2000-2003									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	0.0	0.1	-	0.0	0.1	-	-	-	-
20-24	0.2	0.2	0.2	0.2	0.2	0.2	-	-	-
25-29	0.3	0.4	0.3	0.4	0.5	0.4	-	-	-
30-34	0.6	0.7	0.5	0.7	0.9	0.6	-	-	-
35-39	1.0	1.1	0.8	1.2	1.3	1.0	-	-	-
40-44	1.7	2.1	1.3	2.0	2.5	1.6	0.2	-	-
45-49	2.5	3.2	1.8	3.0	3.8	2.2	0.2	-	-
50-54	3.5	4.7	2.4	4.1	5.4	2.8	0.4	-	-
55-59	4.7	6.5	3.0	5.3	7.3	3.4	0.7	1.0	0.5
60-64	6.2	8.7	3.9	7.1	9.9	4.4	0.8	-	0.8
65-69	7.7	11.2	4.7	8.7	12.6	5.3	1.5	2.0	1.2
70-74	10.2	15.2	6.3	11.4	16.9	6.9	2.1	2.0	2.1
75-79	12.7	20.0	7.6	14.0	21.9	8.3	2.3	2.4	2.2
80-84	15.0	24.2	9.5	16.3	26.3	10.2	3.3	3.5	3.2
85+	18.0	30.2	12.8	19.5	33.0	13.7	4.5	-	5.0

^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 XVI-5
MELANOMA OF THE SKIN (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	-	-	-	60	51	68	-	-	-
1970-1973 ^a	-	-	-	68	62	75	-	-	-
1975-1977 ^b	81.9	77.3	86.3	82.3	77.9	86.5	58.4 ^f	44.2 ^g	68.1 ^g
1978-1980 ^b	83.1	78.1	87.9	83.3	78.4	88.2	59.7 ^g	-	69.5 ^g
1981-1983 ^b	83.0	78.5	87.5	83.2	78.7	87.7	62.2 ^f	51.5 ^g	70.5 ^g
1984-1986 ^b	86.3	82.0	90.9	86.4	82.1	91.0	71.0 ^g	-	73.3 ^g
1987-1989 ^b	88.0	85.0	91.3	88.2	85.3	91.3	79.9 ^f	61.7 ^g	90.5 ^f
1990-1992 ^b	89.4	87.0	91.9	89.6	87.3	92.1	61.6 ^f	53.3 ^g	70.5 ^g
1993-1995 ^b	90.0	87.7	92.6	90.1	87.8	92.8	67.6 ^f	66.1 ^g	66.8 ^g
1996-2002 ^b	92.3 ^e	91.1 ^e	93.7 ^e	92.5 ^e	91.3 ^e	93.9 ^e	75.2 ^f	73.8 ^f	75.0 ^f
5-YR PERIOD SURVIVAL RATES^{cd}									
YEAR OF DIAGNOSIS:									
1996-2002	91.8	90.4	93.5	92.0	90.5	93.8	77.8	76.1	76.1
STAGE DISTRIBUTION (%) 1996-2002^c									
All Stages									
Number of cases	48,923	26,994	21,929	48,141	26,617	21,524	266	129	137
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
Localized	80	78	83	81	79	83	60	53	66
Regional	12	14	11	12	13	11	21	22	20
Distant	4	4	3	3	4	2	12	16	9
Unstaged	4	4	4	4	4	4	6	8	5
5-YR RELATIVE SURVIVAL RATES, 1996-2002^c									
AGE AT DIAGNOSIS:									
<45	93.2	89.5	96.1	93.4	89.6	96.3	70.2 ^f	78.7 ^g	64.4 ^f
45-54	91.1	88.6	94.4	91.2	88.6	94.6	84.4 ^f	90.0 ^f	-
55-64	91.3	90.4	92.9	91.5	90.6	92.9	85.0 ^f	73.9 ^g	90.6 ^f
65-74	91.7	92.1	90.7	92.1	92.3	91.2	66.5 ^g	46.5 ^g	88.4 ^g
75+	85.6	87.3	82.2	86.0	87.8	82.4	38.6 ^g	32.0 ^g	43.8 ^g
Under 65	92.1	89.5	95.0	92.3	89.6	95.2	78.7	81.5 ^f	75.7 ^f
65 and over	89.6	90.5	87.4	90.0	90.9	87.8	55.7 ^f	41.8 ^g	69.6 ^g
STAGE:									
All Stages	91.5	90.1	93.1	91.7	90.3	93.4	72.0	67.4 ^f	74.5 ^f
Localized	99.0	99.4	98.6	99.1	99.5	98.7	93.5	88.4 ^f	94.4
Regional	64.9	61.5	70.1	65.2	61.7	70.8	33.7 ^g	43.3 ^g	23.6 ^g
Distant	15.3	14.9	16.0	14.8	14.8	14.9	24.8 ^f	-	-
Unstaged	76.8	74.7	78.9	77.1	75.0	79.4	62.1 ^g	-	-

^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 XVI-6
MELANOMA OF THE SKIN (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	94.5	95.9	95.8	96.8	96.3	97.0	96.0	96.6	97.1	96.2	96.9	97.1	97.5	97.7	96.8	96.8	97.8	98.0	97.5	97.9
2-year	89.9	91.8	92.6	93.1	93.0	93.4	93.5	93.7	94.1	93.7	94.5	93.9	94.4	95.8	94.6	94.7	95.9	96.3	95.9	
3-year	86.2	88.2	89.3	90.8	90.5	91.1	90.9	91.8	91.9	91.7	92.6	91.8	92.7	94.1	92.5	93.0	94.4	94.9		
4-year	83.5	85.6	87.3	89.4	88.8	89.9	89.2	89.9	90.7	89.7	90.9	90.1	91.4	93.3	91.8	92.0	93.8			
5-year	82.2	83.7	85.6	87.8	87.5	88.9	87.7	89.3	89.8	88.8	90.4	89.1	90.4	92.6	90.6	91.6				
6-year	80.5	82.6	84.6	86.7	86.5	87.4	87.0	88.4	88.7	88.5	89.9	88.3	90.4	91.9	90.1					
7-year	79.3	81.9	83.5	86.3	85.6	86.9	85.8	88.0	88.0	88.2	88.9	87.9	90.4	91.6						
8-year	78.4	81.3	83.3	85.5	85.0	86.4	85.5	87.4	87.4	87.9	88.6	87.1	90.4							
9-year	77.7	80.7	82.9	85.5	84.7	86.1	85.4	87.4	87.2	87.6	88.5	86.9								
11-year	77.2	80.2	82.9	85.5	84.6	85.7	85.2	87.3	87.2	87.4	88.3									
11-year	76.6	80.0	82.9	85.5	83.6	85.3	84.9	87.2	87.2	87.1										
12-year	76.1	79.9	82.9	85.5	83.3	85.3	84.6	87.2	87.1											
13-year	75.8	79.7	82.9	85.5	83.3	85.3	84.5	87.2												
14-year	75.6	79.6	82.9	85.4	83.3	85.2	84.4													
15-year	75.3	79.5	82.9	85.4	83.3	85.1														
16-year	75.1	79.5	82.9	85.3	83.3															
17-year	75.0	79.4	82.9	85.3																
18-year	75.0	79.4	82.9																	
19-year	75.0	79.4																		
20-year	75.0																			

^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 XVI-7
MELANOMA OF THE SKIN (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	92.7	94.4	94.7	95.7	95.4	95.7	94.8	95.8	96.1	95.9	96.2	96.9	96.6	96.8	96.5	96.5	97.5	97.7	96.9	97.0
2-year	86.7	89.0	90.4	91.0	90.9	91.8	92.2	91.9	93.1	92.7	93.5	92.6	92.4	94.6	93.9	94.3	94.8	95.9	94.5	
3-year	82.4	84.5	86.2	88.1	88.0	88.9	88.9	89.6	90.7	90.2	90.9	89.9	90.2	92.6	91.4	92.5	92.9	94.4		
4-year	78.9	81.5	83.7	86.3	85.9	87.7	86.5	87.4	89.4	87.5	89.3	88.1	88.5	91.8	90.6	91.2	92.1			
5-year	77.6	78.7	81.7	84.2	83.7	86.7	84.6	86.3	88.3	86.3	88.7	87.2	87.3	91.1	89.2	91.0				
6-year	75.5	77.6	80.7	82.4	82.9	84.8	83.6	85.2	87.2	85.7	87.9	86.6	87.2	90.4	88.4					
7-year	73.9	77.0	79.7	81.7	81.6	84.0	82.2	85.0	86.5	85.5	86.1	85.9	87.2	90.3						
8-year	72.8	76.3	79.4	80.8	80.8	83.6	81.6	84.7	85.8	85.5	85.8	84.4	87.2							
9-year	72.0	75.5	78.9	80.8	80.8	82.9	81.3	84.7	85.2	85.0	85.7	84.2								
10-year	71.4	75.2	78.9	80.8	80.5	82.5	81.3	84.7	85.2	85.0	85.4									
11-year	70.5	74.9	78.9	80.8	79.6	82.5	81.3	84.7	85.2	84.7										
12-year	69.9	74.8	78.9	80.8	79.3	82.5	81.2	84.7	85.2											
13-year	69.5	74.7	78.9	80.8	79.3	82.5	81.0	84.7												
14-year	69.5	74.4	78.9	79.8	79.3	82.5	81.0													
15-year	69.2	74.4	78.9	79.8	79.3	81.7														
16-year	68.8	74.4	78.9	79.8	79.3															
17-year	68.8	74.4	78.3	79.8																
18-year	68.8	74.4	78.1																	
19-year	68.8	74.4																		
20-year	68.8																			

^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 XVI-8
MELANOMA OF THE SKIN (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	96.2	97.5	97.1	98.0	97.3	98.2	97.4	97.5	98.3	96.7	97.7	97.4	98.5	98.7	97.2	97.2	98.2	98.3	98.3	99.0
2-year	93.0	94.8	95.2	95.3	95.3	95.1	94.9	95.8	95.3	94.9	95.6	95.6	96.7	97.3	95.3	95.3	97.0	96.8	97.5	
3-year	89.9	91.9	92.8	93.8	93.0	93.4	93.1	94.2	93.3	93.3	94.5	94.1	95.6	95.8	93.9	93.6	96.0	95.5		
4-year	87.9	89.8	91.2	92.7	91.9	92.2	92.2	92.8	92.2	92.2	92.7	92.6	94.7	95.0	92.9	92.8	95.6			
5-year	86.5	88.7	89.7	91.8	91.3	91.3	91.2	92.5	91.4	91.6	92.3	91.4	93.8	94.3	92.2	92.1				
6-year	85.2	87.6	88.7	91.4	90.1	89.9	90.6	91.9	90.3	91.6	92.1	90.3	93.8	93.5	91.9					
7-year	84.4	86.8	87.6	91.2	89.7	89.7	89.8	91.1	89.8	91.1	92.0	90.3	93.6	93.0						
8-year	83.6	86.2	87.3	90.3	88.7	89.0	89.6	90.2	89.3	90.4	91.6	90.3	93.6							
9-year	82.9	85.7	87.0	90.3	88.4	89.0	89.6	90.0	89.2	90.3	91.3	90.1								
11-year	82.4	85.1	87.0	90.3	88.4	88.8	89.0	89.6	89.2	90.0	91.2									
10-year	82.2	84.9	87.0	90.0	87.6	87.9	88.4	89.3	88.4	89.6										
12-year	81.6	84.7	86.9	90.0	87.0	87.2	88.2	89.2	87.7											
13-year	81.5	84.3	86.9	90.0	86.7	87.2	87.3	89.2												
14-year	81.0	84.3	86.9	90.0	86.7	87.2	87.1													
15-year	80.7	83.9	86.9	90.0	86.7	87.2														
16-year	80.5	83.6	86.9	90.0	86.7															
17-year	80.4	83.5	86.9	90.0																
18-year	80.3	83.2	86.9																	
19-year	80.2	83.2																		
20-year	80.2																			

^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 XVI-9
MELANOMA OF SKIN (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	0.00	0.01	0.05	2.04	0.00	0.02	0.09	1.38
	10	0.01	0.05	0.13	2.06	0.01	0.09	0.22	1.39
	20	0.04	0.12	0.30	2.07	0.07	0.20	0.39	1.38
	30	0.09	0.27	0.61	2.06	0.13	0.32	0.55	1.31
	40	0.19	0.53	1.03	2.01	0.19	0.42	0.69	1.20
	50	0.36	0.88	1.46	1.89	0.24	0.51	0.79	1.03
	60	0.56	1.19	1.58	1.66	0.29	0.58	0.78	0.83
White	0	0.00	0.01	0.06	2.33	0.00	0.02	0.11	1.60
	10	0.01	0.06	0.15	2.36	0.02	0.11	0.26	1.62
	20	0.04	0.14	0.36	2.36	0.09	0.24	0.47	1.60
	30	0.10	0.32	0.71	2.35	0.15	0.38	0.65	1.52
	40	0.22	0.62	1.19	2.29	0.23	0.50	0.82	1.38
	50	0.41	1.01	1.67	2.14	0.28	0.60	0.92	1.18
	60	0.64	1.36	1.79	1.87	0.34	0.68	0.89	0.94
Black	0	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.09
	10	0.00	0.00	0.01	0.08	0.00	0.00	0.01	0.09
	20	0.00	0.01	0.01	0.08	0.00	0.01	0.01	0.09
	30	0.00	0.01	0.02	0.08	0.00	0.01	0.02	0.08
	40	0.01	0.02	0.04	0.08	0.00	0.01	0.03	0.08
	50	0.01	0.04	0.06	0.08	0.01	0.03	0.05	0.08
	60	0.03	0.06	0.07	0.07	0.02	0.05	0.06	0.08
Asian/ Pacific Islander	0	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.14
	10	0.00	0.00	0.01	0.19	0.00	0.00	0.02	0.14
	20	0.00	0.01	0.02	0.19	0.00	0.02	0.03	0.14
	30	0.01	0.02	0.04	0.19	0.01	0.03	0.05	0.14
	40	0.01	0.03	0.06	0.18	0.01	0.03	0.05	0.13
	50	0.02	0.05	0.10	0.18	0.02	0.04	0.06	0.12
	60	0.03	0.09	0.12	0.16	0.02	0.04	0.08	0.10
Hispanic ^a	0	0.00	0.00	0.01	0.45	0.00	0.00	0.02	0.49
	10	0.00	0.01	0.02	0.46	0.00	0.02	0.06	0.49
	20	0.01	0.02	0.05	0.46	0.02	0.05	0.11	0.49
	30	0.01	0.04	0.09	0.46	0.04	0.10	0.16	0.47
	40	0.03	0.08	0.17	0.45	0.06	0.12	0.21	0.44
	50	0.05	0.14	0.28	0.43	0.06	0.15	0.26	0.39
	60	0.10	0.25	0.39	0.41	0.09	0.20	0.28	0.34

Race/Ethnicity	Lifetime Risk of Developing		Lifetime Risk of Dying	
	Males	Females	Males	Females
All Races	2.04%	1.38%	0.36%	0.20%
White	2.33%	1.60%	0.41%	0.22%
Black	0.08%	0.09%	0.03%	0.04%
Asian/Pacific Islander	0.19%	0.14%	0.07%	0.06%
Hispanic ^a	0.45%	0.49%	0.11%	0.10%

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 XVI-10
MELANOMA OF THE SKIN (Invasive)

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

SEER Incidence

RACE/ETHNICITY	Rate 2000-2003 ^b Rate per 100,000 persons			Trend 1994-2003 ^c APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	18.2	23.2	14.7	1.6*	1.6*	1.7*
White	21.1	26.5	17.3	2.1*	1.9*	2.3*
White Hispanic ^d	4.3	4.4	4.4	0.7	0.0	1.3
White Non-Hispanic ^d	24.1	30.2	19.8	2.6*	2.4*	2.9*
Black	1.0	1.1	0.9	-4.6*	-5.7*	-
Asian/Pacific Islander	1.4	1.6	1.2	2.4	1.4	3.5
Amer Ind/Alaska Nat ^e	2.7	-	-	-	-	-
Hispanic ^d	4.3	4.4	4.4	0.3	-0.5	1.1

U.S. Mortality^f

RACE/ETHNICITY	Rate 2000-2003 Rate per 100,000 persons			Trend 1994-2003 APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	2.6	3.8	1.8	-0.4	-0.3	-0.7*
White	3.0	4.3	2.0	-0.2	-0.2	-0.5
White Hispanic ^d	0.8	1.0	0.7	-0.4	-2.2	1.3
White Non-Hispanic ^d	3.2	4.6	2.1	-0.1	0.0	-0.4
Black	0.4	0.5	0.4	-1.1	-0.8	-1.2
Asian/Pacific Islander	0.4	0.5	0.3	-1.5	1.9	-
Amer Ind/Alaska Nat	0.8	0.9	0.6	-	-	-
Hispanic ^d	0.8	1.0	0.6	-0.4	-2.1	1.4

- 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 XVI-11
MELANOMA OF THE SKIN (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	18.2	23.2	14.7	26.5	17.3	1.1	0.9	1.6	1.2	4.4	4.4
13 SEER Areas ^c	17.5	22.2	14.3	26.5	17.6	1.2	0.6	1.6	1.4	3.9	4.4
11 SEER Areas ^c	17.6	22.3	14.3	26.5	17.6	1.2	0.7	1.6	1.4	3.9	4.4
9 SEER Areas ^c	18.9	23.4	15.7	27.7	19.2	1.2	0.6	1.8	1.5	3.4	5.4
San Francisco-Oakland	14.6	19.3	11.3	25.3	15.3	-	-	1.1	0.9	2.6	5.2
Connecticut	22.3	27.6	18.6	29.2	20.1	-	-	-	-	-	5.8
Metropolitan Detroit	16.8	21.2	13.9	26.8	18.7	-	0.9	-	-	-	-
Hawaii	16.2	21.3	12.1	66.4	36.6	-	-	2.7	2.1	-	-
Iowa	17.7	19.8	16.4	18.9	15.7	-	-	-	-	-	-
New Mexico	17.9	22.6	14.4	24.6	16.1	-	-	-	-	3.4	5.5
Seattle-Puget Sound	22.7	26.9	19.9	30.0	22.8	-	-	-	-	-	-
Utah	21.6	26.2	18.2	27.1	18.9	-	-	-	-	-	-
Metropolitan Atlanta	20.6	28.3	15.6	38.5	24.0	-	-	-	-	-	4.6
San Jose-Monterey	16.4	21.2	12.7	25.2	15.3	-	-	-	-	4.7	4.3
Los Angeles	14.2	19.0	10.8	23.4	13.5	1.1	0.8	1.4	1.2	4.2	3.8
Rural Georgia	12.6	16.8	9.5	25.1	17.1	-	-	-	-	-	-
California exclud. SF/SJM/LA	21.2	27.1	16.9	28.4	17.7	1.4	1.3	1.5	0.9	4.9	4.7
Kentucky	19.9	24.4	16.9	25.0	17.3	-	-	-	-	-	-
Louisiana	10.4	13.6	8.1	17.6	10.8	0.9	1.0	-	-	-	-
New Jersey	18.3	23.6	14.8	27.1	17.6	-	1.1	-	-	4.8	3.7

^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.

^c Incidence data for Hispanics are based on NHIA and exclude cases from Hawaii, Seattle, Alaska Native Registry and Kentucky.

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 XVI-12
MELANOMA OF THE SKIN 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	2.5	3.7	1.6	4.3	1.9	0.5	0.4	0.5	0.3	0.9	0.6
13 SEER Areas ^c	2.2	3.3	1.5	4.0	1.8	0.4	0.3	0.6	0.3	0.8	0.8
11 SEER Areas ^c	2.3	3.3	1.5	4.0	1.8	0.4	0.3	0.6	0.3	0.8	0.8
9 SEER Areas ^c	2.4	3.5	1.5	4.1	1.8	-	0.3	0.8	0.3	0.6	0.8
San Francisco-Oakland	2.4	3.5	1.6	4.7	2.1	-	-	-	-	-	-
Connecticut	2.6	3.7	1.9	4.0	2.0	-	-	-	-	-	-
Metropolitan Detroit	1.8	2.9	1.1	3.5	1.4	-	-	-	-	-	-
Hawaii	1.7	2.5	1.1	6.3	2.7	-	-	1.0	-	-	-
Iowa	2.2	3.4	1.3	3.5	1.3	-	-	-	-	-	-
New Mexico	2.3	3.4	1.5	3.5	1.6	-	-	-	-	-	-
Seattle-Puget Sound	2.8	4.0	1.8	4.3	2.0	-	-	-	-	-	-
Utah	3.2	4.3	2.2	4.5	2.3	-	-	-	-	-	-
Metropolitan Atlanta	2.5	4.0	1.5	5.2	2.1	-	-	-	-	-	-
San Jose-Monterey	2.3	3.1	1.7	3.9	2.1	-	-	-	-	-	-
Los Angeles	1.8	2.8	1.2	3.6	1.5	-	-	-	-	1.0	0.7
Rural Georgia	-	-	-	-	-	-	-	-	-	-	-
California exclud. SF/SJM/LA	3.0	4.4	1.9	4.9	2.1	-	-	-	-	1.2	0.5
Kentucky	3.3	4.9	2.2	5.1	2.3	-	-	-	-	-	-
Louisiana	2.3	3.1	1.6	3.9	2.0	1.0	0.6	-	-	-	-
New Jersey	2.6	3.9	1.7	4.5	1.9	-	-	-	-	-	-
Total U.S.	2.6	3.8	1.8	4.3	2.0	0.5	0.4	0.5	0.3	1.0	0.6

^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).

^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 XVI-13
MELANOMA OF THE SKIN (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.	2.6	0.02			Montana	3.2 ^b	0.29	(04)	23.1
High Five States					Nebraska	2.8	0.20	(23)	7.7
Oklahoma	3.5 ^{bc}	0.16	(01)	34.6	Nevada	3.0 ^b	0.20	(10)	15.4
Kentucky	3.3 ^{bc}	0.14	(02)	26.9	New Hampshire	3.0 ^b	0.24	(12)	15.4
Idaho	3.3 ^b	0.26	(03)	26.9	New Jersey	2.6	0.09	(33)	0.0
Montana	3.2 ^b	0.29	(04)	23.1	New Mexico	2.3	0.18	(40)	-11.5
Utah	3.2 ^b	0.22	(05)	23.1	New York	2.3 ^c	0.05	(44)	-11.5
Low Five States					North Carolina	2.9	0.10	(14)	11.5
Iowa	2.2 ^b	0.13	(47)	-15.4	North Dakota	1.4 ^{bc}	0.23	(50)	-46.2
Hawaii	1.7 ^{bc}	0.18	(48)	-34.6	Ohio	2.6	0.07	(35)	0.0
Alaska	1.5 ^{bc}	0.30	(49)	-42.3	Oklahoma	3.5 ^{bc}	0.16	(01)	34.6
North Dakota	1.4 ^{bc}	0.23	(50)	-46.2	Oregon	3.2 ^{bc}	0.15	(06)	23.1
District of Columbia	1.4 ^{bc}	0.25	(51)	-46.2	Pennsylvania	2.8	0.07	(25)	7.7
Alabama	2.6	0.12	(30)	0.0	Rhode Island	2.9	0.25	(19)	11.5
Alaska	1.5 ^{bc}	0.30	(49)	-42.3	South Carolina	2.6	0.13	(34)	0.0
Arizona	2.8	0.11	(24)	7.7	South Dakota	2.7	0.29	(27)	3.8
Arkansas	2.5	0.15	(38)	-3.8	Tennessee	2.7	0.11	(26)	3.8
California	2.6	0.05	(36)	0.0	Texas	2.6	0.06	(37)	0.0
Colorado	2.9	0.14	(16)	11.5	Utah	3.2 ^b	0.22	(05)	23.1
Connecticut	2.6	0.13	(31)	0.0	Vermont	3.1 ^b	0.35	(08)	19.2
Delaware	3.1 ^b	0.31	(07)	19.2	Virginia	2.9	0.10	(15)	11.5
District of Columbia	1.4 ^{bc}	0.25	(51)	-46.2	Washington	2.8	0.11	(22)	7.7
Florida	2.8	0.06	(20)	7.7	West Virginia	3.1 ^b	0.19	(09)	19.2
Georgia	2.6	0.10	(32)	0.0	Wisconsin	2.5	0.10	(39)	-3.8
Hawaii	1.7 ^{bc}	0.18	(48)	-34.6	Wyoming	2.9	0.38	(18)	11.5
Idaho	3.3 ^b	0.26	(03)	26.9					
Illinois	2.3 ^c	0.07	(42)	-11.5					
Indiana	2.8	0.11	(21)	7.7					
Iowa	2.2 ^b	0.13	(47)	-15.4					
Kansas	2.7	0.16	(28)	3.8					
Kentucky	3.3 ^{bc}	0.14	(02)	26.9					
Louisiana	2.3	0.12	(45)	-11.5					
Maine	3.0 ^b	0.22	(13)	15.4					
Maryland	2.7	0.11	(29)	3.8					
Massachusetts	3.0 ^b	0.11	(11)	15.4					
Michigan	2.3 ^c	0.08	(43)	-11.5					
Minnesota	2.3	0.11	(41)	-11.5					
Mississippi	2.2 ^b	0.14	(46)	-15.4					
Missouri	2.9	0.11	(17)	11.5					

^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 XVI-14
MELANOMA OF THE SKIN (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.	3.8	0.03			Montana	4.6 ^b	0.51	(07)	21.1
High Five States					Nebraska	4.5 ^b	0.38	(09)	18.4
Oklahoma	5.2 ^{bc}	0.29	(01)	36.8	Nevada	4.3	0.35	(14)	13.2
Vermont	4.9 ^b	0.66	(02)	28.9	New Hampshire	4.3	0.44	(13)	13.2
Delaware	4.9 ^b	0.61	(03)	28.9	New Jersey	3.9	0.16	(24)	2.6
Kentucky	4.9 ^{bc}	0.27	(04)	28.9	New Mexico	3.4	0.34	(41)	-10.5
Idaho	4.8 ^b	0.46	(05)	26.3	New York	3.2 ^{bc}	0.10	(46)	-15.8
Low Five States					North Carolina	4.2	0.18	(17)	10.5
Louisiana	3.1 ^b	0.21	(47)	-18.4	North Dakota	1.8 ^{bc}	0.37	(50)	-52.6
District of Columbia	2.5 ^b	0.55	(48)	-34.2	Ohio	3.8	0.14	(31)	0.0
Hawaii	2.5 ^{bc}	0.32	(49)	-34.2	Oklahoma	5.2 ^{bc}	0.29	(01)	36.8
North Dakota	1.8 ^{bc}	0.37	(50)	-52.6	Oregon	4.6 ^b	0.27	(06)	21.1
Alaska	1.7 ^{bc}	0.42	(51)	-55.3	Pennsylvania	3.9	0.13	(27)	2.6
Alabama	3.8	0.22	(30)	0.0	Rhode Island	3.9	0.45	(26)	2.6
Alaska	1.7 ^{bc}	0.42	(51)	-55.3	South Carolina	4.0	0.25	(22)	5.3
Arizona	4.2	0.21	(15)	10.5	South Dakota	3.5	0.49	(38)	-7.9
Arkansas	3.4	0.26	(43)	-10.5	Tennessee	4.0	0.21	(21)	5.3
California	3.8	0.08	(32)	0.0	Texas	3.7	0.11	(33)	-2.6
Colorado	4.1	0.26	(19)	7.9	Utah	4.3	0.38	(12)	13.2
Connecticut	3.7	0.24	(34)	-2.6	Vermont	4.9 ^b	0.66	(02)	28.9
Delaware	4.9 ^b	0.61	(03)	28.9	Virginia	3.9	0.18	(28)	2.6
District of Columbia	2.5 ^b	0.55	(48)	-34.2	Washington	3.9	0.19	(29)	2.6
Florida	4.2 ^c	0.11	(16)	10.5	West Virginia	4.5 ^b	0.36	(08)	18.4
Georgia	3.7	0.18	(35)	-2.6	Wisconsin	3.6	0.19	(37)	-5.3
Hawaii	2.5 ^{bc}	0.32	(49)	-34.2	Wyoming	3.9	0.64	(25)	2.6
Idaho	4.8 ^b	0.46	(05)	26.3					
Illinois	3.3 ^c	0.13	(45)	-13.2					
Indiana	4.0	0.20	(23)	5.3					
Iowa	3.4	0.24	(42)	-10.5					
Kansas	3.7	0.28	(36)	-2.6					
Kentucky	4.9 ^{bc}	0.27	(04)	28.9					
Louisiana	3.1 ^b	0.21	(47)	-18.4					
Maine	4.4 ^b	0.42	(10)	15.8					
Maryland	4.1	0.22	(20)	7.9					
Massachusetts	4.4 ^b	0.20	(11)	15.8					
Michigan	3.5	0.14	(39)	-7.9					
Minnesota	3.3	0.20	(44)	-13.2					
Mississippi	3.5	0.28	(40)	-7.9					
Missouri	4.2	0.20	(18)	10.5					

^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 XVI-15
MELANOMA OF THE SKIN (Invasive)

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

Females

State	Rate	SE	Rank	PD
TOTAL U.S.	1.8	0.02		
High Five States				
Utah	2.2 ^b	0.25	(01)	22.2
Virginia	2.2 ^{bc}	0.12	(02)	22.2
Rhode Island	2.2 ^b	0.29	(03)	22.2
Kentucky	2.2 ^b	0.15	(04)	22.2
South Dakota	2.1 ^b	0.36	(05)	16.7
Low Five States				
Alaska	1.3 ^b	0.39	(47)	-27.8
Iowa	1.3 ^b	0.14	(48)	-27.8
North Dakota	1.1 ^b	0.28	(49)	-38.9
Hawaii	1.1 ^b	0.20	(50)	-38.9
District of Columbia	0.7 ^{bc}	0.24	(51)	-61.1

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	1.8	0.13	(25)	0.0	Montana	2.1 ^b	0.32	(06)	16.7
Alaska	1.3 ^b	0.39	(47)	-27.8	Nebraska	1.5 ^b	0.20	(44)	-16.7
Arizona	1.6	0.12	(41)	-11.1	Nevada	1.9	0.22	(16)	5.6
Arkansas	1.8	0.17	(27)	0.0	New Hampshire	1.9	0.26	(19)	5.6
California	1.6	0.05	(35)	-11.1	New Jersey	1.7	0.09	(33)	-5.6
Colorado	2.0	0.15	(11)	11.1	New Mexico	1.5 ^b	0.20	(43)	-16.7
Connecticut	1.9	0.15	(23)	5.6	New York	1.7	0.06	(34)	-5.6
Delaware	1.9	0.32	(20)	5.6	North Carolina	2.0	0.11	(10)	11.1
District of Columbia	0.7 ^{bc}	0.24	(51)	-61.1	North Dakota	1.1 ^b	0.28	(49)	-38.9
Florida	1.7	0.06	(30)	-5.6	Ohio	1.7	0.08	(31)	-5.6
Georgia	1.8	0.11	(24)	0.0	Oklahoma	2.1 ^b	0.16	(08)	16.7
Hawaii	1.1 ^b	0.20	(50)	-38.9	Oregon	2.0	0.16	(09)	11.1
Idaho	1.9	0.27	(18)	5.6	Pennsylvania	2.0	0.08	(13)	11.1
Illinois	1.6	0.08	(38)	-11.1	Rhode Island	2.2 ^b	0.29	(03)	22.2
Indiana	2.0	0.12	(12)	11.1	South Carolina	1.6	0.13	(37)	-11.1
Iowa	1.3 ^b	0.14	(48)	-27.8	South Dakota	2.1 ^b	0.36	(05)	16.7
Kansas	2.0	0.18	(14)	11.1	Tennessee	1.8	0.12	(26)	0.0
Kentucky	2.2 ^b	0.15	(04)	22.2	Texas	1.7	0.06	(32)	-5.6
Louisiana	1.6	0.13	(40)	-11.1	Utah	2.2 ^b	0.25	(01)	22.2
Maine	1.9	0.25	(22)	5.6	Vermont	1.8	0.35	(29)	0.0
Maryland	1.6	0.12	(36)	-11.1	Virginia	2.2 ^{bc}	0.12	(02)	22.2
Massachusetts	2.1 ^b	0.12	(07)	16.7	Washington	1.9	0.12	(21)	5.6
Michigan	1.4 ^{bc}	0.08	(45)	-22.2	West Virginia	1.9	0.21	(17)	5.6
Minnesota	1.6	0.12	(42)	-11.1	Wisconsin	1.6	0.11	(39)	-11.1
Mississippi	1.4 ^b	0.15	(46)	-22.2	Wyoming	1.8	0.41	(28)	0.0
Missouri	1.9	0.12	(15)	5.6					

^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 XVI-16
MELANOMA OF THE SKIN (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	210,287	148,009	105,637	77,558	51,695	426,216	612,953	49,480	662,433
Males	111,633	75,690	51,441	34,790	21,189	221,141	303,073	17,105	320,178
Females	98,654	72,319	54,196	42,768	30,506	205,075	309,880	32,375	342,255
White ^b	202,508	141,196	101,167	73,290	50,207	408,761	586,926	46,714	633,640
Males	107,569	72,263	49,546	32,957	20,553	212,326	290,664	16,278	306,942
Females	94,939	68,933	51,621	40,333	29,654	196,435	296,262	30,436	326,698
Black ^b	865	553	433	181	113	1,644	2,259	145	2,404
Males	408	298	176	24	36	813	969	57	1,026
Females	457	255	257	157	77	831	1,290	88	1,378
Asian/Pacific Islander ^c	512	309	+	+	+	921	+	+	+
Males	219	169	+	+	+	413	+	+	+
Females	293	140	+	+	+	508	+	+	+
Hispanic ^d	3,460	2,190	+	+	+	6,693	+	+	+
Males	1,348	822	+	+	+	2,553	+	+	+
Females	2,112	1,368	+	+	+	4,140	+	+	+

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	0.1040%	0.0003%	0.0026%	0.0246%	0.0693%	0.1340%	0.2022%	0.2709%	0.3406%	0.3144%	0.1076%
Males	0.1109%	0.0002%	0.0020%	0.0163%	0.0506%	0.1233%	0.2269%	0.3535%	0.4893%	0.4942%	0.1256%
Females	0.0973%	0.0003%	0.0033%	0.0332%	0.0885%	0.1446%	0.1787%	0.1973%	0.2287%	0.2167%	0.0955%
White ^c	0.1290%	0.0003%	0.0032%	0.0307%	0.0862%	0.1644%	0.2441%	0.3261%	0.4011%	0.3556%	0.1294%
Males	0.1364%	0.0003%	0.0022%	0.0196%	0.0611%	0.1492%	0.2706%	0.4195%	0.5706%	0.5679%	0.1486%
Females	0.1215%	0.0003%	0.0041%	0.0428%	0.1130%	0.1799%	0.2184%	0.2406%	0.2711%	0.2418%	0.1169%
Black ^c	0.0038%	-	-	-	0.0029%	0.0031%	0.0076%	0.0169%	0.0190%	0.0209%	0.0050%
Males	0.0038%	-	-	-	0.0020%	0.0032%	0.0083%	0.0215%	0.0256%	0.0256%	0.0059%
Females	0.0038%	-	-	-	0.0037%	0.0031%	0.0069%	0.0132%	0.0146%	0.0187%	0.0044%
Asian/Pacific Islander ^c	0.0070%	-	-	0.0017%	0.0062%	0.0062%	0.0131%	0.0171%	0.0243%	0.0302%	0.0074%
Males	0.0070%	-	-	0.0017%	0.0036%	0.0046%	0.0137%	0.0211%	0.0398%	0.0317%	0.0083%
Females	0.0070%	-	-	0.0017%	0.0087%	0.0076%	0.0127%	0.0139%	0.0131%	0.0292%	0.0069%
Hispanic ^d	0.0146%	-	-	0.0033%	0.0128%	0.0264%	0.0462%	0.0525%	0.0943%	0.0964%	0.0244%
Males	0.0107%	-	-	0.0015%	0.0058%	0.0177%	0.0345%	0.0525%	0.1151%	0.1349%	0.0229%
Females	0.0187%	-	-	0.0055%	0.0208%	0.0354%	0.0570%	0.0525%	0.0794%	0.0747%	0.0269%

- ^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⁺ Melanoma of the Skin, White, by Sex

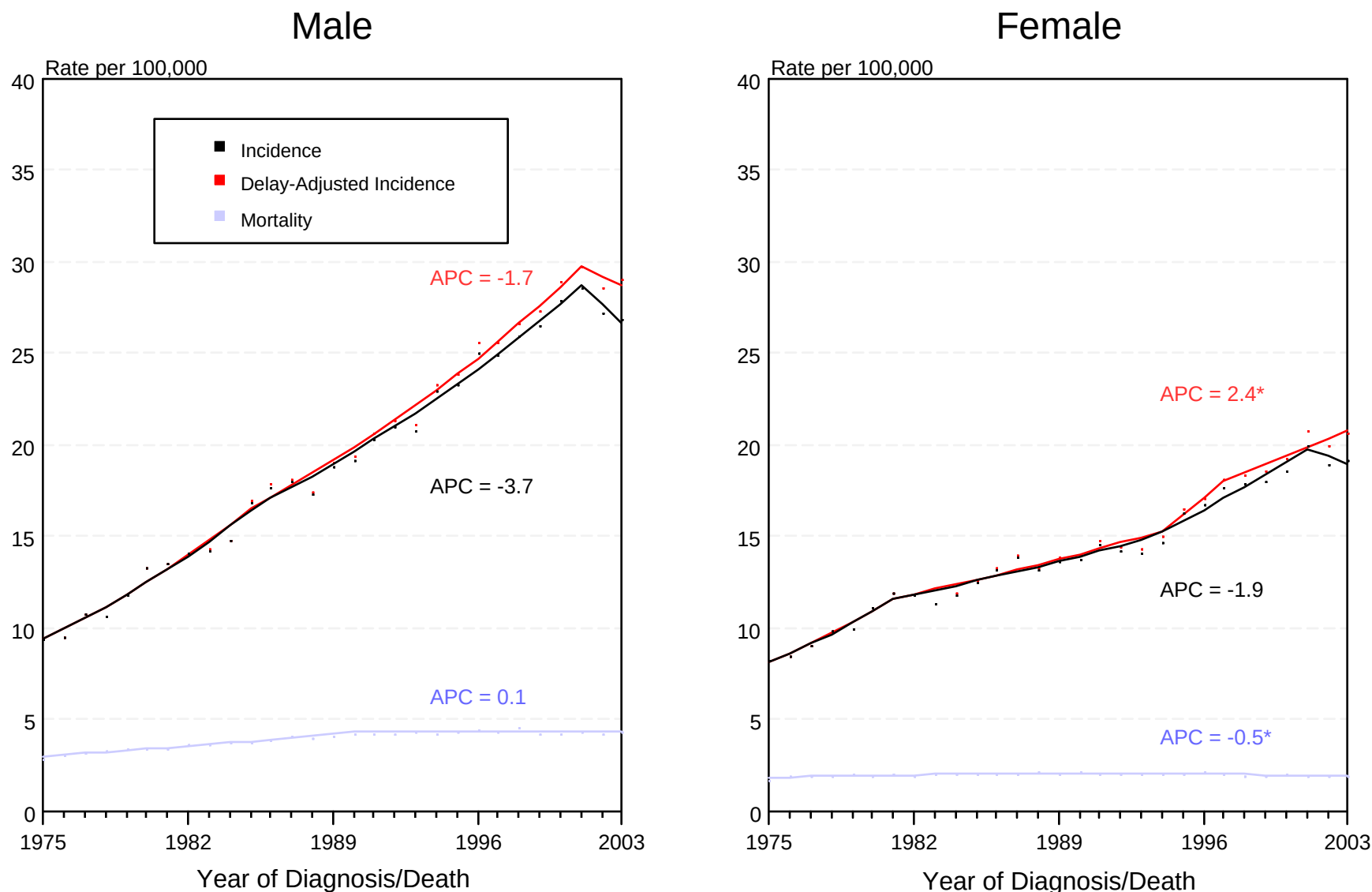


Figure XVI-1

+ 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* Melanoma of the Skin, 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

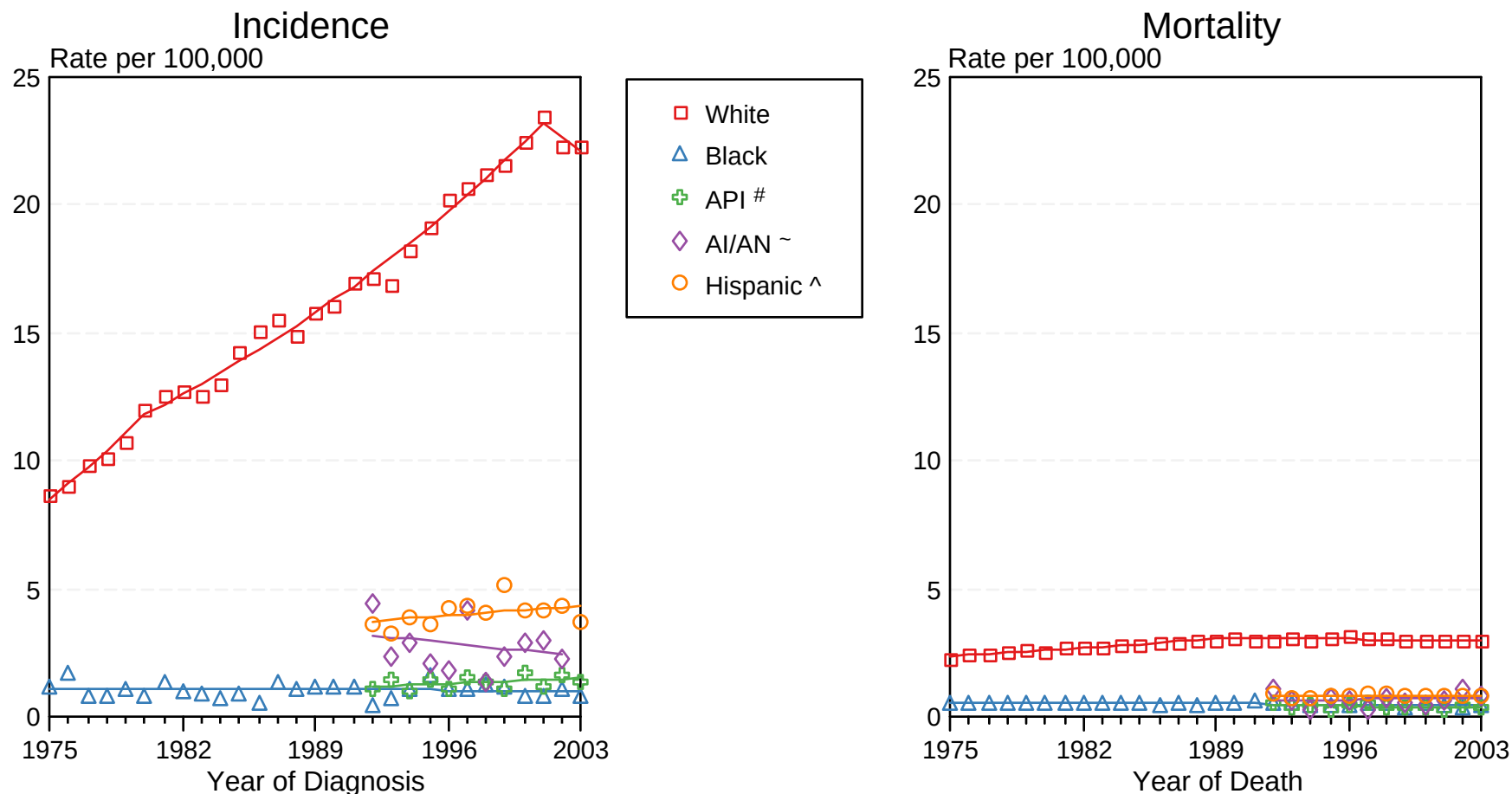


Figure XVI-2

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.

Melanoma of the Skin

SEER Incidence 1992-1994 vs 2001-2003

White, by Age and Sex

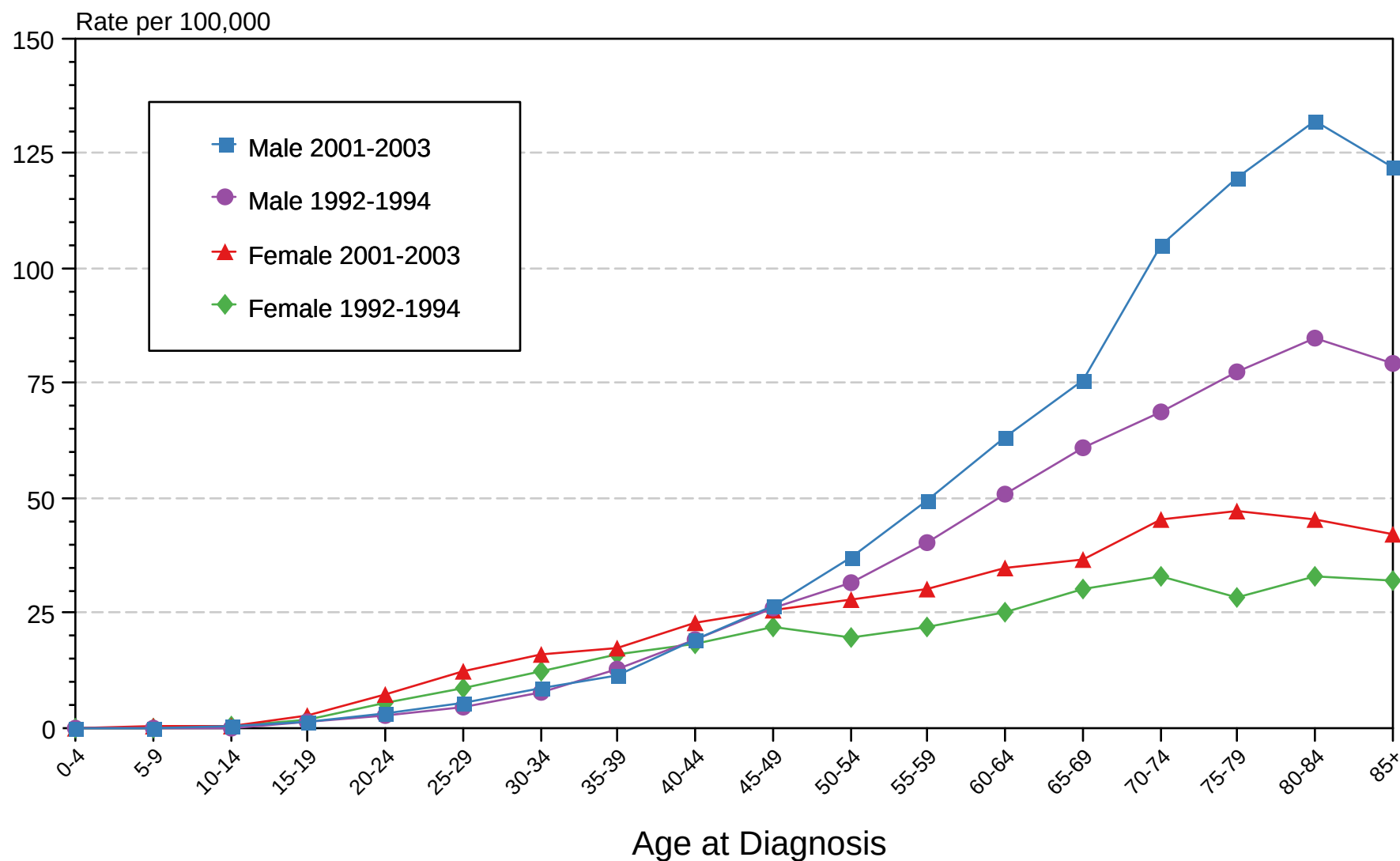


Figure XVI-3

Source: SEER 13 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).