

Table XVI-1  
MELANOMAS OF SKIN (Invasive)

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

	All Races		Whites		Blacks	
	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence</u>						
Sex - Male and Female	1973-81	6.1★	1973-81	6.6★	1973-98	0.8
	1981-98	2.8★	1981-98	2.9★		
Sex - Male	1973-85	5.7★	1973-80	7.7★	1973-98	2.5
	1985-98	3.0★	1980-96	3.9★		
			1996-98	-2.1		
Sex - Female	1973-80	6.1★	1973-80	6.7★	1973-98	-0.9
	1980-98	2.1★	1980-98	2.3★		
<u>U.S. Cancer Mortality</u>						
Sex - Male and Female	1973-77	4.1★	1973-77	4.3★	1973-98	-0.4
	1977-89	1.3★	1977-89	1.5★		
	1989-98	0.2	1989-98	0.3		
Sex - Male	1973-87	2.4★	1973-87	2.6★	1973-98	-1.2★
	1987-98	0.7★	1987-98	0.8★		
Sex - Female	1973-79	3.1★	1973-79	3.2★	1973-98	0.3
	1979-98	0.0	1979-98	0.1		

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 XVI-2  
MELANOMAS OF SKIN (Invasive)

SEER INCIDENCE 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>AGE-ADJUSTED RATES</u>									
<u>YEAR OF DIAGNOSIS:</u>									
1973	5.7	6.1	5.4	6.3	6.7	5.9	-	-	-
1974	5.9	6.2	5.8	6.5	6.9	6.3	-	-	-
1975	6.7	7.1	6.3	7.3	7.8	7.0	-	-	-
1976	6.9	7.4	6.4	7.6	8.1	7.1	-	-	-
1977	7.6	8.2	7.1	8.4	9.1	7.9	-	-	-
1978	7.6	8.0	7.4	8.5	9.0	8.3	-	-	-
1979	8.1	8.9	7.5	9.1	10.0	8.5	-	-	-
1980	8.9	9.9	8.2	10.2	11.3	9.4	-	-	-
1981	9.4	10.2	8.8	10.6	11.4	10.1	-	-	-
1982	9.4	10.5	8.6	10.7	11.8	9.9	-	-	-
1983	9.3	10.6	8.4	10.5	11.9	9.5	-	-	-
1984	9.6	10.9	8.7	10.9	12.3	9.8	-	-	-
1985	10.8	12.7	9.4	12.0	14.2	10.5	-	-	-
1986	11.2	13.2	9.8	12.6	14.7	11.1	-	-	-
1987	11.5	13.2	10.2	12.8	14.7	11.6	-	-	-
1988	10.8	12.6	9.6	12.5	14.5	11.0	-	-	-
1989	11.6	13.8	10.0	13.3	15.8	11.5	-	-	-
1990	11.7	13.9	10.0	13.4	15.9	11.5	-	-	-
1991	12.3	14.7	10.6	14.3	17.0	12.3	-	-	-
1992	12.5	15.2	10.3	14.3	17.4	12.0	-	-	-
1993	12.4	15.2	10.3	14.2	17.3	11.9	-	-	-
1994	13.2	16.4	10.7	15.2	18.9	12.3	-	-	-
1995	13.8	16.8	11.5	15.9	19.2	13.5	1.4	-	-
1996	14.4	17.8	11.9	16.7	20.4	13.8	-	-	-
1997	14.7	17.8	12.3	16.8	20.1	14.3	-	-	-
1998	14.3	17.3	12.0	16.0	19.3	13.6	1.0	-	-
<u>AGE-ADJUSTED RATES, 1994-98</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	14.1	17.2	11.7	16.1	19.6	13.5	1.0	1.4	0.7
Under 65	10.4	11.4	9.5	12.0	13.0	11.1	0.6	0.8	0.5
65 and over	47.6	70.5	31.4	53.5	79.5	35.2	4.4	7.2	-
All ages (world std.) <sup>a</sup>	12.4	14.6	10.6	14.2	16.6	12.4	0.8	1.1	0.6
<u>AGE-SPECIFIC RATES, 1994-98</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	0.3	-	-	-	-	-	-	-	-
15-19	1.3	1.2	1.5	1.6	1.4	1.8	-	-	-
20-24	3.9	2.4	5.5	4.7	3.1	6.5	-	-	-
25-29	7.7	5.6	9.8	9.1	6.6	11.7	-	-	-
30-34	10.0	8.0	12.0	11.8	9.2	14.4	-	-	-
35-39	14.4	12.3	16.4	17.1	14.4	19.8	-	-	-
40-44	17.5	17.3	17.6	20.4	20.0	20.8	-	-	-
45-49	23.1	25.4	20.8	26.4	28.7	24.0	-	-	-
50-54	27.5	33.0	22.2	31.0	36.9	25.2	-	-	-
55-59	31.8	39.5	24.5	36.0	44.5	27.9	-	-	-
60-64	37.3	51.2	24.7	43.1	58.4	28.9	-	-	-
65-69	42.1	58.8	28.1	48.5	67.2	32.3	-	-	-
70-74	48.9	69.7	32.7	54.9	78.6	36.4	-	-	-
75-79	51.3	78.6	32.1	57.4	87.9	36.0	-	-	-
80-84	53.8	85.5	35.1	59.7	96.1	38.7	-	-	-
85+	49.5	83.8	35.3	53.0	93.5	36.9	-	-	-

SEER Program. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, unless noted.  
 SEER Program. 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 XVI-3  
MELANOMAS OF SKIN (Invasive)

U.S. MORTALITY RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES<sup>○</sup>, BY RACE AND SEX

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>AGE-ADJUSTED RATES</u>									
YEAR OF DEATH:									
1973	1.6	2.0	1.3	1.7	2.2	1.4	0.4	0.6	0.4
1974	1.7	2.2	1.3	1.9	2.5	1.4	0.3	0.4	0.3
1975	1.7	2.2	1.3	1.9	2.4	1.4	0.4	0.5	0.4
1976	1.9	2.4	1.4	2.0	2.6	1.6	0.4	0.6	0.3
1977	1.9	2.4	1.4	2.1	2.6	1.6	0.4	0.5	0.3
1978	1.9	2.5	1.4	2.1	2.7	1.6	0.4	0.5	0.4
1979	2.0	2.6	1.5	2.2	2.9	1.7	0.4	0.5	0.4
1980	1.9	2.5	1.4	2.1	2.8	1.5	0.5	0.4	0.5
1981	2.0	2.6	1.5	2.2	2.8	1.7	0.4	0.5	0.4
1982	2.0	2.7	1.5	2.2	3.0	1.6	0.4	0.5	0.4
1983	2.0	2.7	1.5	2.3	3.0	1.7	0.4	0.5	0.3
1984	2.1	2.8	1.5	2.3	3.1	1.6	0.4	0.4	0.4
1985	2.1	2.8	1.5	2.3	3.1	1.7	0.4	0.5	0.4
1986	2.1	2.9	1.5	2.4	3.2	1.7	0.4	0.6	0.2
1987	2.2	3.1	1.5	2.4	3.4	1.7	0.4	0.5	0.4
1988	2.2	3.0	1.5	2.4	3.3	1.7	0.4	0.4	0.3
1989	2.2	3.1	1.5	2.5	3.4	1.7	0.4	0.4	0.4
1990	2.3	3.1	1.6	2.5	3.4	1.8	0.4	0.5	0.4
1991	2.2	3.2	1.5	2.5	3.5	1.6	0.5	0.5	0.4
1992	2.2	3.1	1.5	2.5	3.5	1.7	0.4	0.5	0.3
1993	2.2	3.1	1.5	2.5	3.5	1.7	0.4	0.3	0.5
1994	2.2	3.1	1.5	2.5	3.5	1.7	0.3	0.4	0.3
1995	2.2	3.2	1.5	2.5	3.6	1.7	0.4	0.4	0.3
1996	2.3	3.2	1.5	2.6	3.6	1.7	0.3	0.4	0.3
1997	2.2	3.2	1.5	2.5	3.6	1.7	0.4	0.4	0.5
1998	2.3	3.3	1.4	2.6	3.7	1.6	0.4	0.3	0.4
<u>AGE-ADJUSTED RATES, 1994-98</u>									
AGE AT DEATH:									
All ages	2.2	3.2	1.5	2.5	3.6	1.7	0.4	0.4	0.4
Under 65	1.3	1.7	0.9	1.5	2.0	1.0	0.2	0.2	0.1
65 and over	10.9	16.7	7.0	11.9	18.3	7.6	2.3	2.2	2.3
All ages (world std.) <sup>φ</sup>	1.8	2.6	1.2	2.1	2.9	1.4	0.3	0.3	0.3
<u>AGE-SPECIFIC RATES, 1994-98</u>									
AGE AT DEATH:									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	0.0	0.1	-	0.1	0.1	-	-	-	-
20-24	0.2	0.2	0.1	0.2	0.3	0.2	-	-	-
25-29	0.4	0.4	0.4	0.5	0.5	0.5	-	-	-
30-34	0.8	0.9	0.6	0.9	1.1	0.8	-	-	-
35-39	1.3	1.6	1.0	1.6	1.9	1.2	-	-	-
40-44	2.0	2.4	1.5	2.3	2.9	1.8	-	-	-
45-49	2.8	3.7	2.0	3.3	4.2	2.4	0.3	-	-
50-54	3.8	5.1	2.6	4.4	5.8	3.0	0.4	-	-
55-59	4.8	6.8	3.0	5.5	7.7	3.4	0.7	-	0.8
60-64	6.3	9.1	3.9	7.2	10.2	4.4	1.0	1.3	-
65-69	8.0	11.7	4.8	8.9	13.0	5.4	1.2	1.4	1.1
70-74	10.4	15.3	6.5	11.4	16.8	7.1	1.7	-	1.7
75-79	12.2	18.6	7.7	13.2	20.2	8.3	2.6	2.5	2.7
80-84	15.0	23.9	9.9	16.1	25.8	10.5	4.4	-	4.4
85+	17.2	28.7	12.6	18.5	31.5	13.3	5.5	-	6.1

<sup>○</sup> NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population, unless noted.  
<sup>φ</sup> NCHS public use tape. 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 XVI-4  
MELANOMAS OF 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
<b>5-YR RELATIVE SURVIVAL RATES</b>									
YEAR OF DIAGNOSIS:									
1960-63 <sup>a</sup>	-	-	-	60	51	68	-	-	-
1970-73 <sup>a</sup>	-	-	-	68	62	75	-	-	-
1974-76 <sup>b</sup>	80.0	75.0	84.8	80.3	75.5	84.9	66.6†	-	-
1977-79 <sup>b</sup>	82.0	77.7	86.1	82.3	78.0	86.5	50.4†	-	-
1980-82 <sup>b</sup>	83.0	77.7	88.2	83.1	78.0	88.3	60.9†	-	-
1983-85 <sup>b</sup>	84.7	80.4	89.2	84.8	80.5	89.3	74.4†	-	70.1†
1986-88 <sup>b</sup>	87.6	84.3	91.1	87.8	84.6	91.2	67.5†	-	-
1989-91 <sup>b</sup>	88.5	85.9	91.4	88.6	86.2	91.5	76.6†	64.5†	88.4†
1992-97 <sup>b</sup>	88.8Ω	86.4Ω	91.5Ω	89.0Ω	86.6Ω	91.8Ω	60.5†	58.0†	62.9†
1992-97 <sup>b</sup>	ALL STAGES	88.8	86.4	91.5	89.0	86.6	91.8	60.5†	58.0†
LOCALIZED	96.0	95.3	96.8	96.0	95.3	96.9	76.5†	64.3†	76.2†
REGIONAL	60.5	56.5	66.6	60.9	56.8	67.3	-	-	-
DISTANT	11.6	10.5	13.3	11.9	10.8	13.7	-	-	-
UNSTAGED	73.7	70.0	79.0	73.7	69.7	79.8	-	-	-
<b>STAGE DISTRIBUTION (%) 1992-97<sup>b</sup></b>									
ALL STAGES									
Number of cases	18,206	9,979	8,227	17,954	9,849	8,105	95	52	43
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	82	80	84	82	80	85	61	54	70
REGIONAL	9	10	8	9	9	8	20	19	21
DISTANT	4	4	3	4	4	3	12	17	5
UNSTAGED	6	7	5	6	6	5	7	10	5
<b>5-YR RELATIVE SURVIVAL RATES, 1992-97<sup>b</sup></b>									
AGE AT DIAGNOSIS:									
<45	90.8	86.7	94.1	90.9	86.7	94.2	-	-	-
45-54	90.0	87.7	93.0	90.0	87.8	93.2	-	-	-
55-64	90.0	88.2	93.1	90.2	88.3	93.5	-	-	-
65-74	87.7	86.9	89.0	88.2	87.3	89.5	-	-	-
75+	81.0	81.0	81.1	81.5	81.5	81.5	-	-	-
Under 65	90.3	87.4	93.6	90.4	87.5	93.8	63.8†	63.2†	64.5†
65 and over	85.5	85.0	86.3	86.0	85.4	86.7	56.5†	-	-

<sup>a</sup> Rates are based on End Results data from a series of hospital registries and one population-based registry.  
<sup>b</sup> 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.

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.

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Table XVI-5  
MELANOMAS OF SKIN (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Males and Females

Year of Diagnosis/Death

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>Incidence</b>																				
SEER	6.7	8.9	9.4	9.4	9.3	9.6	10.8	11.2	11.5	10.8	11.6	11.7	12.3	12.5	12.4	13.2	13.8	14.4	14.7	14.3
<b>Mortality</b>																				
U.S.	1.7	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3
SEER	1.6	1.9	2.0	1.9	1.9	2.1	1.9	1.9	2.1	2.1	2.0	2.0	2.2	2.0	2.1	1.9	2.0	2.1	2.1	2.1
<b>Relative Survival Rates (SEER)</b>																				
1-year	95.2	96.6	94.5	95.3	96.6	96.4	95.8	96.7	96.2	96.9	95.9	96.5	97.1	96.2	96.8	96.9	97.5	97.5	96.4	
2-year	90.0	92.4	90.3	91.2	92.2	93.0	92.7	93.0	92.7	93.2	93.4	93.4	94.0	93.5	94.2	93.6	94.1	95.3		
3-year	85.8	88.4	84.9	88.0	88.9	90.1	89.2	90.7	90.0	90.8	90.7	91.4	91.6	91.2	92.2	91.2	92.1			
4-year	82.2	85.9	82.5	85.6	86.5	87.0	87.1	89.2	88.2	89.4	88.9	89.4	90.3	89.1	90.2	89.1				
5-year	81.2	84.1	80.4	84.4	83.8	84.8	85.2	87.6	86.6	88.5	87.3	88.9	89.2	88.0	89.4					
6-year	79.2	83.2	79.1	83.6	82.2	83.6	84.0	86.5	85.7	86.7	86.3	87.6	87.9	87.4						
7-year	77.9	82.1	78.5	82.4	81.8	83.3	82.9	86.1	84.7	86.3	85.0	87.1	86.9							
8-year	76.4	80.9	78.4	81.7	80.6	82.8	82.7	85.4	84.0	85.5	84.4	86.3								
9-year	74.5	80.2	77.5	81.1	80.6	81.7	82.2	85.4	83.5	85.0	84.1									
10-year	72.9	79.8	77.5	80.9	79.9	80.8	82.2	85.4	83.3	84.2										
11-year	72.4	79.3	77.1	80.5	79.9	80.3	82.1	85.2	81.8											
12-year	71.1	78.2	77.1	80.4	79.9	80.3	82.1	85.0												
13-year	71.0	77.8	77.1	79.7	79.5	79.7	82.1													
14-year	69.3	77.3	77.1	79.5	79.2	79.4														
15-year	68.7	77.2	77.1	78.7	78.8															
16-year	68.7	76.7	77.1	78.5																
17-year	68.7	75.9	76.9																	
18-year	68.7	75.6																		
19-year	68.7																			
20-year	68.7																			
21-year	68.7																			
22-year	68.7																			
23-year	68.7																			

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 XVI-6  
MELANOMAS OF SKIN (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
<b>Incidence</b>																				
SEER	7.1	9.9	10.2	10.5	10.6	10.9	12.7	13.2	13.2	12.6	13.8	13.9	14.7	15.2	15.2	16.4	16.8	17.8	17.8	17.3
<b>Mortality</b>																				
U.S.	2.2	2.5	2.6	2.7	2.7	2.8	2.8	2.9	3.1	3.0	3.1	3.1	3.2	3.1	3.1	3.1	3.2	3.2	3.2	3.3
SEER	1.9	2.5	2.6	2.7	2.7	2.9	2.5	2.5	3.0	2.8	2.5	2.6	3.2	2.8	2.9	2.7	2.9	3.1	2.8	2.8
<b>Relative Survival Rates (SEER)</b>																				
1-year	93.0	95.8	93.2	92.9	95.2	94.4	94.7	95.6	95.2	95.6	94.6	95.6	96.0	95.8	96.1	96.7	96.6	96.5	96.0	
2-year	85.2	89.8	88.3	87.6	89.0	89.8	90.5	90.9	90.4	91.5	92.1	91.5	93.0	92.4	93.2	92.2	92.0	93.9		
3-year	80.7	84.8	80.6	84.5	85.8	85.9	86.2	87.9	87.4	88.6	88.6	89.1	90.4	89.6	90.4	89.1	89.5			
4-year	76.7	81.7	77.7	81.8	83.4	81.7	83.7	86.0	85.2	87.1	86.2	86.6	88.9	86.7	88.5	87.0				
5-year	75.6	78.2	75.2	79.6	80.4	79.1	81.5	84.1	82.7	86.2	84.1	85.7	87.8	85.3	87.5					
6-year	73.2	77.4	73.4	78.5	79.0	78.2	80.4	82.3	82.0	84.1	82.8	84.3	86.4	84.6						
7-year	71.8	75.9	73.2	77.3	79.0	78.1	79.3	81.6	80.5	83.4	81.3	84.0	85.5							
8-year	69.9	74.5	72.8	76.8	77.4	78.1	78.9	81.0	80.1	82.5	80.4	83.4								
9-year	67.7	73.4	71.2	76.3	77.4	76.9	78.6	80.9	79.5	81.5	81.5	79.8								
10-year	65.8	73.1	71.2	76.2	77.4	76.1	78.6	80.9	79.1	80.7										
11-year	65.1	72.5	70.7	76.2	77.1	75.4	78.5	80.9	77.5											
12-year	63.0	71.6	70.6	75.7	77.1	75.4	78.5	80.7												
13-year	62.9	71.6	70.6	75.4	77.0	74.4	78.5													
14-year	61.8	70.7	70.6	74.9	76.6	74.4														
15-year	61.6	70.7	70.6	74.0	76.6															
16-year	61.6	70.6	70.6	73.4																
17-year	61.2	69.4	70.6																	
18-year	61.2	69.1																		
19-year	61.2																			
20-year	61.2																			
21-year	61.2																			
22-year	61.2																			
23-year	61.2																			

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 XVI-7  
MELANOMAS OF SKIN (Invasive)

INCIDENCE, MORTALITY, AND SURVIVAL RATES

By Year of Diagnosis/Death

All Races, Females

Year of Diagnosis/Death

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>Incidence</b>																				
SEER	6.3	8.2	8.8	8.6	8.4	8.7	9.4	9.8	10.2	9.6	10.0	10.0	10.6	10.3	10.3	10.7	11.5	11.9	12.3	12.0
<b>Mortality</b>																				
U.S.	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.4	
SEER	1.3	1.3	1.4	1.3	1.3	1.4	1.5	1.5	1.4	1.5	1.5	1.6	1.5	1.4	1.4	1.2	1.3	1.3	1.5	1.5
<b>Relative Survival Rates (SEER)</b>																				
1-year	97.3	97.5	95.7	97.9	98.0	98.5	97.1	97.9	97.2	98.3	97.5	97.5	98.3	96.6	97.6	97.3	98.6	98.7	96.9	
2-year	94.7	95.1	92.4	94.9	95.7	96.3	95.1	95.2	95.1	95.0	95.0	95.7	95.1	94.8	95.4	95.4	96.5	97.1		
3-year	90.8	92.2	89.2	91.7	92.1	94.4	92.6	93.8	92.7	93.3	93.1	94.2	93.1	93.0	94.3	93.8	95.1			
4-year	87.5	90.1	87.0	89.5	89.8	92.4	90.9	92.6	91.4	91.8	92.0	92.6	91.9	91.8	92.2	91.8				
5-year	86.6	90.1	85.3	89.4	87.5	90.6	89.3	91.5	90.7	90.9	90.9	92.6	90.9	91.1	91.6					
6-year	85.1	89.1	84.5	88.8	85.5	89.1	88.0	91.0	89.5	89.4	90.2	91.4	89.7	90.7						
7-year	83.7	88.3	83.5	87.5	84.5	88.5	86.8	90.8	89.1	89.3	89.2	90.6	88.6							
8-year	82.7	87.5	83.5	86.6	83.8	87.4	86.8	90.0	87.9	88.6	88.6	89.7								
9-year	80.8	87.1	83.3	86.0	83.7	86.5	86.1	90.0	87.6	88.6	88.6	89.7								
10-year	79.5	86.6	83.0	85.6	82.5	85.4	86.1	90.0	87.6	87.8										
11-year	79.3	86.0	82.9	84.6	82.5	85.1	85.9	89.1	86.2											
12-year	78.6	84.8	82.9	84.6	82.5	85.1	85.9	89.1												
13-year	78.6	83.7	82.9	84.0	82.0	84.8	85.6													
14-year	76.1	83.7	82.9	83.8	81.9	84.0														
15-year	75.1	83.2	82.9	83.3	80.7															
16-year	75.1	82.7	82.6	83.2																
17-year	75.1	82.2	81.8																	
18-year	75.1	81.9																		
19-year	75.1																			
20-year	75.1																			
21-year	75.1																			
22-year	75.1																			
23-year	75.1																			

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 XVI-8  
MELANOMAS 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 (11 SEER Areas) With Cancer and  
Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

1996-1998

All Races								
Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.01	0.05	1.72	0.00	0.01	0.08	1.22
10	0.01	0.05	0.13	1.74	0.01	0.08	0.20	1.23
20	0.04	0.12	0.31	1.74	0.07	0.19	0.36	1.22
30	0.09	0.27	0.58	1.73	0.12	0.29	0.50	1.16
40	0.19	0.50	0.93	1.67	0.17	0.38	0.62	1.05
50	0.33	0.78	1.22	1.54	0.22	0.46	0.69	0.90
60	0.49	0.97	1.27	1.32	0.25	0.50	0.66	0.72

Lifetime Risk of Being Diagnosed = 1.72%      Lifetime Risk of Being Diagnosed = 1.22%  
Lifetime Risk of Dying = 0.35%      Lifetime Risk of Dying = 0.20%

Whites								
Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.01	0.05	1.97	0.00	0.01	0.09	1.40
10	0.01	0.05	0.15	1.99	0.01	0.09	0.24	1.41
20	0.04	0.14	0.36	1.99	0.08	0.23	0.42	1.41
30	0.10	0.32	0.67	1.97	0.14	0.34	0.58	1.33
40	0.22	0.58	1.08	1.91	0.20	0.44	0.72	1.20
50	0.37	0.89	1.39	1.75	0.25	0.53	0.79	1.01
60	0.56	1.10	1.43	1.49	0.29	0.57	0.75	0.80

Lifetime Risk of Being Diagnosed = 1.97%      Lifetime Risk of Being Diagnosed = 1.40%  
Lifetime Risk of Dying = 0.40%      Lifetime Risk of Dying = 0.23%

Blacks								
Current Age	Males				Females			
	+10 yrs	+20 yrs	+30 yrs	Eventually	+10 yrs	+20 yrs	+30 yrs	Eventually
0	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.08
10	0.00	0.00	0.00	0.11	0.00	0.00	0.01	0.09
20	0.00	0.00	0.01	0.11	0.00	0.01	0.02	0.09
30	0.00	0.01	0.03	0.11	0.00	0.01	0.03	0.08
40	0.01	0.02	0.05	0.12	0.01	0.03	0.04	0.08
50	0.02	0.04	0.08	0.12	0.02	0.03	0.04	0.08
60	0.03	0.08	0.10	0.12	0.01	0.03	0.06	0.06

Lifetime Risk of Being Diagnosed = 0.11%      Lifetime Risk of Being Diagnosed = 0.08%  
Lifetime Risk of Dying = 0.03%      Lifetime Risk of Dying = 0.05%

**Table XVI-9**  
MELANOMAS OF SKIN (Invasive)  
AGE-ADJUSTED SEER INCIDENCE AND U.S. MORTALITY RATES  
 By Race/Ethnicity and Sex

Incidence

RACE/ETHNICITY	Rate 1992-1998 Rate per 100,000 persons			Trend 1992-1998 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	12.9	16.0	10.6	2.8*	2.8*
White	14.8	18.2	12.3	2.8*	2.7*	2.9*
White Hispanic	3.1	3.1	3.2	3.6	3.8*	3.9
White Non-Hispanic	16.6	20.3	13.8	3.1*	3.0*	3.3*
Black	0.9	1.1	0.7	7.3	-	-
Asian/Pacific Islander	1.1	1.2	1.0	3.0	0.0	6.2
Amer Ind/Alask Nat	1.3	-	-	-	-	-
Hispanic <sup>⊗</sup>	2.9	2.9	2.9	3.3	3.0*	4.1

Mortality<sup>♦</sup>

RACE/ETHNICITY	Rate 1992-1998 Rate per 100,000 persons			Trend 1992-1998 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	2.2	3.2	1.5	0.4	0.8*
White	2.5	3.6	1.7	0.5	1.0*	-0.3
White Hispanic	0.7	0.9	0.5	1.9	5.4*	-2.2
White Non-Hispanic	2.6	3.7	1.8	0.8*	1.2*	0.0
Black	0.4	0.4	0.4	0.2	-2.8	2.2
Asian/Pacific Islander	0.3	0.4	0.3	2.5	-	-
Amer Ind/Alask Nat	0.5	0.6	0.4	-	-	-
Hispanic <sup>⊗</sup>	0.6	0.8	0.5	1.8	5.2*	-2.3

- 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.  
 x 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).

<sup>⊗</sup> 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.

<sup>♦</sup> 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 XVI-10  
MELANOMAS OF SKIN (Invasive)

AGE-ADJUSTED SEER INCIDENCE RATES\$ AND SEER MORTALITY RATES§  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<b>SEER INCIDENCE RATES\$, 1994-98</b>									
REGISTRY									
11 registries	13.3	16.6	10.9	15.3	18.9	12.7	1.0	1.3	0.7
9 registries	14.1	17.2	11.7	16.1	19.6	13.5	1.0	1.4	0.7
San Francisco-Oakland	12.9	16.4	10.2	16.5	20.8	13.1	-	-	-
Connecticut	17.0	21.1	14.0	17.7	21.7	14.8	-	-	-
Metropolitan Detroit	11.6	14.4	9.6	13.4	16.6	11.2	0.8	-	-
Hawaii	11.8	15.3	8.8	33.7	45.0	23.2	-	-	-
Iowa	12.5	14.5	11.1	12.1	14.1	10.8	-	-	-
New Mexico	12.3	14.9	10.2	13.5	16.3	11.3	-	-	-
Seattle-Puget Sound	16.8	19.4	14.7	18.5	21.2	16.5	-	-	-
Utah	15.7	18.9	13.2	16.3	19.5	13.7	-	-	-
Metropolitan Atlanta	15.6	20.4	12.1	18.9	24.0	15.2	1.3	-	-
San Jose-Monterey	14.8	18.4	12.1	14.9	18.4	12.3	-	-	-
Los Angeles	10.7	14.0	8.3	13.0	16.8	10.2	0.9	-	-
<b>SEER MORTALITY RATES§, 1994-98</b>									
REGISTRY									
11 registries	2.0	2.9	1.3	2.4	3.4	1.6	0.3	0.4	0.3
9 registries	2.0	2.9	1.4	2.4	3.3	1.6	0.3	-	-
San Francisco-Oakland	2.1	3.2	1.3	2.8	4.2	1.7	-	-	-
Connecticut	2.2	3.0	1.5	2.3	3.2	1.7	-	-	-
Metropolitan Detroit	1.6	2.3	1.0	1.9	2.8	1.3	-	-	-
Hawaii	1.2	1.7	0.8	3.4	5.3	-	-	-	-
Iowa	2.1	2.9	1.4	2.1	2.9	1.4	-	-	-
New Mexico	2.0	3.1	1.2	2.2	3.3	1.2	-	-	-
Seattle-Puget Sound	2.3	3.1	1.6	2.5	3.4	1.8	-	-	-
Utah	2.6	3.6	1.8	2.7	3.6	1.9	-	-	-
Metropolitan Atlanta	1.9	2.8	1.2	2.4	3.5	1.6	-	-	-
San Jose-Monterey	2.1	2.9	1.4	2.4	3.5	1.6	-	-	-
Los Angeles	1.9	2.8	1.3	2.4	3.5	1.6	-	-	-

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.  
 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.

Table XVI-11  
MELANOMAS OF SKIN (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY<sup>d</sup> RATES BY STATE, 1994-98

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	2.2	0.01		
High Five States				
Vermont	3.0 <sup>e</sup>	0.30	(01)	36.4
Delaware	2.8 <sup>e</sup>	0.26	(02)	27.3
South Dakota	2.7 <sup>e</sup>	0.26	(03)	22.7
Utah	2.6 <sup>e</sup>	0.17	(04)	18.2
Massachusetts	2.6 <sup>3/4</sup> <sup>f</sup>	0.09	(05)	18.2
Low Five States				
Mississippi	1.9	0.11	(47)	-13.6
Michigan	1.8 <sup>3/4</sup> <sup>f</sup>	0.06	(48)	-18.2
North Dakota	1.7 <sup>e</sup>	0.21	(49)	-22.7
Hawaii	1.2 <sup>3/4</sup> <sup>f</sup>	0.13	(50)	-45.5
District of Columbia	0.9 <sup>3/4</sup> <sup>f</sup>	0.16	(51)	-59.1

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	2.2	0.09	(28)	0.0	Montana	2.2	0.20	(29)	0.0
Alaska	2.1	0.31	(39)	-4.5	Nebraska	2.1	0.15	(35)	-4.5
Arizona	2.5	0.10	(14)	13.6	Nevada	2.6 <sup>e</sup>	0.17	(07)	18.2
Arkansas	2.1	0.12	(37)	-4.5	New Hampshire	2.5	0.20	(13)	13.6
California	2.4	0.04	(20)	9.1	New Jersey	2.5 <sup>3/4</sup>	0.07	(15)	13.6
Colorado	2.5	0.11	(12)	13.6	New Mexico	2.0	0.15	(42)	-9.1
Connecticut	2.2	0.11	(30)	0.0	New York	2.0 <sup>3/4</sup>	0.04	(44)	-9.1
Delaware	2.8 <sup>e</sup>	0.26	(02)	27.3	North Carolina	2.3	0.07	(21)	4.5
District of Columbia	0.9 <sup>3/4</sup> <sup>f</sup>	0.16	(51)	-59.1	North Dakota	1.7 <sup>e</sup>	0.21	(49)	-22.7
Florida	2.4	0.05	(19)	9.1	Ohio	2.2	0.06	(31)	0.0
Georgia	2.2	0.08	(33)	0.0	Oklahoma	2.6 <sup>e</sup>	0.11	(08)	18.2
Hawaii	1.2 <sup>3/4</sup> <sup>f</sup>	0.13	(50)	-45.5	Oregon	2.6 <sup>e</sup>	0.12	(10)	18.2
Idaho	2.5	0.20	(11)	13.6	Pennsylvania	2.3	0.06	(23)	4.5
Illinois	1.9 <sup>3/4</sup>	0.05	(45)	-13.6	Rhode Island	2.1	0.19	(41)	-4.5
Indiana	2.2	0.08	(32)	0.0	South Carolina	2.1	0.10	(38)	-4.5
Iowa	2.1	0.11	(40)	-4.5	South Dakota	2.7 <sup>e</sup>	0.26	(03)	22.7
Kansas	2.3	0.12	(24)	4.5	Tennessee	2.6 <sup>3/4</sup> <sup>f</sup>	0.09	(09)	18.2
Kentucky	2.4	0.10	(17)	9.1	Texas	2.2	0.05	(27)	0.0
Louisiana	1.9 <sup>3/4</sup>	0.09	(46)	-13.6	Utah	2.6 <sup>e</sup>	0.17	(04)	18.2
Maine	2.3	0.18	(25)	4.5	Vermont	3.0 <sup>e</sup>	0.30	(01)	36.4
Maryland	2.1	0.09	(36)	-4.5	Virginia	2.3	0.08	(26)	4.5
Massachusetts	2.6 <sup>3/4</sup> <sup>f</sup>	0.09	(05)	18.2	Washington	2.3	0.09	(22)	4.5
Michigan	1.8 <sup>3/4</sup> <sup>f</sup>	0.06	(48)	-18.2	West Virginia	2.4	0.14	(16)	9.1
Minnesota	2.0	0.09	(43)	-9.1	Wisconsin	2.1	0.08	(34)	-4.5
Mississippi	1.9	0.11	(47)	-13.6	Wyoming	2.6 <sup>e</sup>	0.32	(06)	18.2
Missouri	2.4	0.09	(18)	9.1					

<sup>d</sup> NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
<sup>SE</sup> Standard error of the rate.

<sup>PD</sup> Percent difference between state rate and total U.S. rate.

<sup>f</sup> Absolute difference between state rate and total U.S. rate is 15% or more.

<sup>3/4</sup> Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).

Table XVI-12  
MELANOMAS OF SKIN (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY<sup>d</sup> RATES BY STATE, 1994-98

All Races, Males

State	Rate	SE	Rank	PD
TOTAL U.S.	3.2	0.02		
High Five States				
Delaware	4.2 <sup>e</sup>	0.48	(01)	31.3
Vermont	3.9 <sup>e</sup>	0.52	(02)	21.9
Arizona	3.8 <sup>e</sup>	0.18	(03)	18.8
Idaho	3.8 <sup>e</sup>	0.35	(04)	18.8
Nevada	3.7 <sup>e</sup>	0.30	(05)	15.6
Low Five States				
Michigan	2.5 <sup>3/4</sup> <sup>f</sup>	0.10	(47)	-21.9
Alaska	2.3 <sup>e</sup>	0.49	(48)	-28.1
North Dakota	2.0 <sup>e</sup>	0.34	(49)	-37.5
Hawaii	1.7 <sup>3/4</sup> <sup>f</sup>	0.22	(50)	-46.9
District of Columbia	1.1 <sup>3/4</sup> <sup>f</sup>	0.27	(51)	-65.6

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	3.0	0.16	(37)	-6.3	Montana	3.1	0.35	(32)	-3.1
Alaska	2.3 <sup>e</sup>	0.49	(48)	-28.1	Nebraska	3.3	0.27	(23)	3.1
Arizona	3.8 <sup>e</sup>	0.18	(03)	18.8	Nevada	3.7 <sup>e</sup>	0.30	(05)	15.6
Arkansas	2.8	0.20	(41)	-12.5	New Hampshire	3.6	0.36	(14)	12.5
California	3.4	0.07	(19)	6.3	New Jersey	3.6	0.13	(06)	12.5
Colorado	3.5	0.20	(15)	9.4	New Mexico	3.1	0.27	(33)	-3.1
Connecticut	3.0	0.18	(36)	-6.3	New York	2.8 <sup>3/4</sup>	0.08	(42)	-12.5
Delaware	4.2 <sup>e</sup>	0.48	(01)	31.3	North Carolina	3.2	0.13	(28)	0.0
District of Columbia	1.1 <sup>3/4</sup> <sup>f</sup>	0.27	(51)	-65.6	North Dakota	2.0 <sup>e</sup>	0.34	(49)	-37.5
Florida	3.6 <sup>3/4</sup>	0.09	(11)	12.5	Ohio	3.1	0.10	(35)	-3.1
Georgia	3.2	0.14	(30)	0.0	Oklahoma	3.6	0.20	(09)	12.5
Hawaii	1.7 <sup>3/4</sup> <sup>f</sup>	0.22	(50)	-46.9	Oregon	3.5	0.20	(17)	9.4
Idaho	3.8 <sup>e</sup>	0.35	(04)	18.8	Pennsylvania	3.4	0.10	(21)	6.3
Illinois	2.7 <sup>3/4</sup> <sup>f</sup>	0.10	(44)	-15.6	Rhode Island	2.8	0.33	(43)	-12.5
Indiana	3.1	0.14	(34)	-3.1	South Carolina	3.3	0.19	(25)	3.1
Iowa	2.9	0.19	(39)	-9.4	South Dakota	3.6	0.42	(08)	12.5
Kansas	3.2	0.22	(26)	0.0	Tennessee	3.6	0.16	(07)	12.5
Kentucky	3.6	0.19	(12)	12.5	Texas	3.2	0.09	(29)	0.0
Louisiana	2.7 <sup>e</sup>	0.16	(45)	-15.6	Utah	3.6	0.30	(13)	12.5
Maine	3.3	0.31	(22)	3.1	Vermont	3.9 <sup>e</sup>	0.52	(02)	21.9
Maryland	3.2	0.16	(31)	0.0	Virginia	3.2	0.14	(27)	0.0
Massachusetts	3.6	0.15	(10)	12.5	Washington	3.3	0.15	(24)	3.1
Michigan	2.5 <sup>3/4</sup> <sup>f</sup>	0.10	(47)	-21.9	West Virginia	3.4	0.25	(18)	6.3
Minnesota	2.8	0.15	(40)	-12.5	Wisconsin	3.0	0.15	(38)	-6.3
Mississippi	2.6 <sup>e</sup>	0.20	(46)	-18.8	Wyoming	3.5	0.54	(16)	9.4
Missouri	3.4	0.15	(20)	6.3					

<sup>d</sup> NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
<sup>SE</sup> Standard error of the rate.

<sup>PD</sup> Percent difference between state rate and total U.S. rate.

<sup>3/4</sup> Absolute difference between state rate and total U.S. rate is 15% or more.

<sup>e</sup> Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).

Table XVI-13  
MELANOMAS OF SKIN (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER MORTALITY<sup>d</sup> RATES BY STATE, 1994-98

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	1.5	0.01		
High Five States				
Vermont	2.2 <sup>e</sup>	0.35	(01)	46.7
South Dakota	2.0 <sup>e</sup>	0.31	(02)	33.3
Alaska	2.0 <sup>e</sup>	0.44	(03)	33.3
Massachusetts	1.9 <sup>3/4</sup> <sup>f</sup>	0.10	(04)	26.7
Tennessee	1.8 <sup>e</sup>	0.10	(05)	20.0
Low Five States				
South Carolina	1.2 <sup>e</sup>	0.10	(47)	-20.0
Nebraska	1.2 <sup>e</sup>	0.16	(48)	-20.0
New Mexico	1.2 <sup>e</sup>	0.15	(49)	-20.0
Hawaii	0.8 <sup>3/4</sup> <sup>f</sup>	0.15	(50)	-46.7
District of Columbia	0.8 <sup>3/4</sup> <sup>f</sup>	0.20	(51)	-46.7

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	1.6	0.11	(18)	6.7	Montana	1.4	0.23	(37)	-6.7
Alaska	2.0 <sup>e</sup>	0.44	(03)	33.3	Nebraska	1.2 <sup>e</sup>	0.16	(48)	-20.0
Arizona	1.5	0.10	(32)	0.0	Nevada	1.6	0.19	(17)	6.7
Arkansas	1.6	0.14	(19)	6.7	New Hampshire	1.7	0.22	(13)	13.3
California	1.5	0.04	(26)	0.0	New Jersey	1.7	0.08	(14)	13.3
Colorado	1.8 <sup>e</sup>	0.13	(11)	20.0	New Mexico	1.2 <sup>e</sup>	0.15	(49)	-20.0
Connecticut	1.5	0.12	(21)	0.0	New York	1.3	0.05	(41)	-13.3
Delaware	1.8 <sup>e</sup>	0.27	(10)	20.0	North Carolina	1.7	0.09	(12)	13.3
District of Columbia	0.8 <sup>3/4</sup> <sup>f</sup>	0.20	(51)	-46.7	North Dakota	1.4	0.26	(36)	-6.7
Florida	1.4	0.05	(38)	-6.7	Ohio	1.5	0.06	(30)	0.0
Georgia	1.4	0.08	(35)	-6.7	Oklahoma	1.8 <sup>e</sup>	0.13	(08)	20.0
Hawaii	0.8 <sup>3/4</sup> <sup>f</sup>	0.15	(50)	-46.7	Oregon	1.8 <sup>e</sup>	0.13	(09)	20.0
Idaho	1.5	0.21	(29)	0.0	Pennsylvania	1.5	0.06	(22)	0.0
Illinois	1.3	0.06	(43)	-13.3	Rhode Island	1.5	0.21	(23)	0.0
Indiana	1.4	0.09	(34)	-6.7	South Carolina	1.2 <sup>e</sup>	0.10	(47)	-20.0
Iowa	1.4	0.12	(39)	-6.7	South Dakota	2.0 <sup>e</sup>	0.31	(02)	33.3
Kansas	1.5	0.14	(27)	0.0	Tennessee	1.8 <sup>e</sup>	0.10	(05)	20.0
Kentucky	1.6	0.11	(20)	6.7	Texas	1.5	0.05	(28)	0.0
Louisiana	1.3	0.10	(45)	-13.3	Utah	1.8 <sup>e</sup>	0.20	(07)	20.0
Maine	1.4	0.19	(33)	-6.7	Vermont	2.2 <sup>e</sup>	0.35	(01)	46.7
Maryland	1.3	0.09	(40)	-13.3	Virginia	1.5	0.09	(25)	0.0
Massachusetts	1.9 <sup>3/4</sup> <sup>f</sup>	0.10	(04)	26.7	Washington	1.5	0.10	(24)	0.0
Michigan	1.2 <sup>3/4</sup> <sup>f</sup>	0.06	(46)	-20.0	West Virginia	1.7	0.16	(15)	13.3
Minnesota	1.3	0.10	(42)	-13.3	Wisconsin	1.5	0.10	(31)	0.0
Mississippi	1.3	0.12	(44)	-13.3	Wyoming	1.8 <sup>e</sup>	0.36	(06)	20.0
Missouri	1.6	0.10	(16)	6.7					

<sup>d</sup> NCHS public use tape. Rates are per 100,000 and are age-adjusted to the 1970 U.S. standard population.  
<sup>SE</sup> Standard error of the rate.

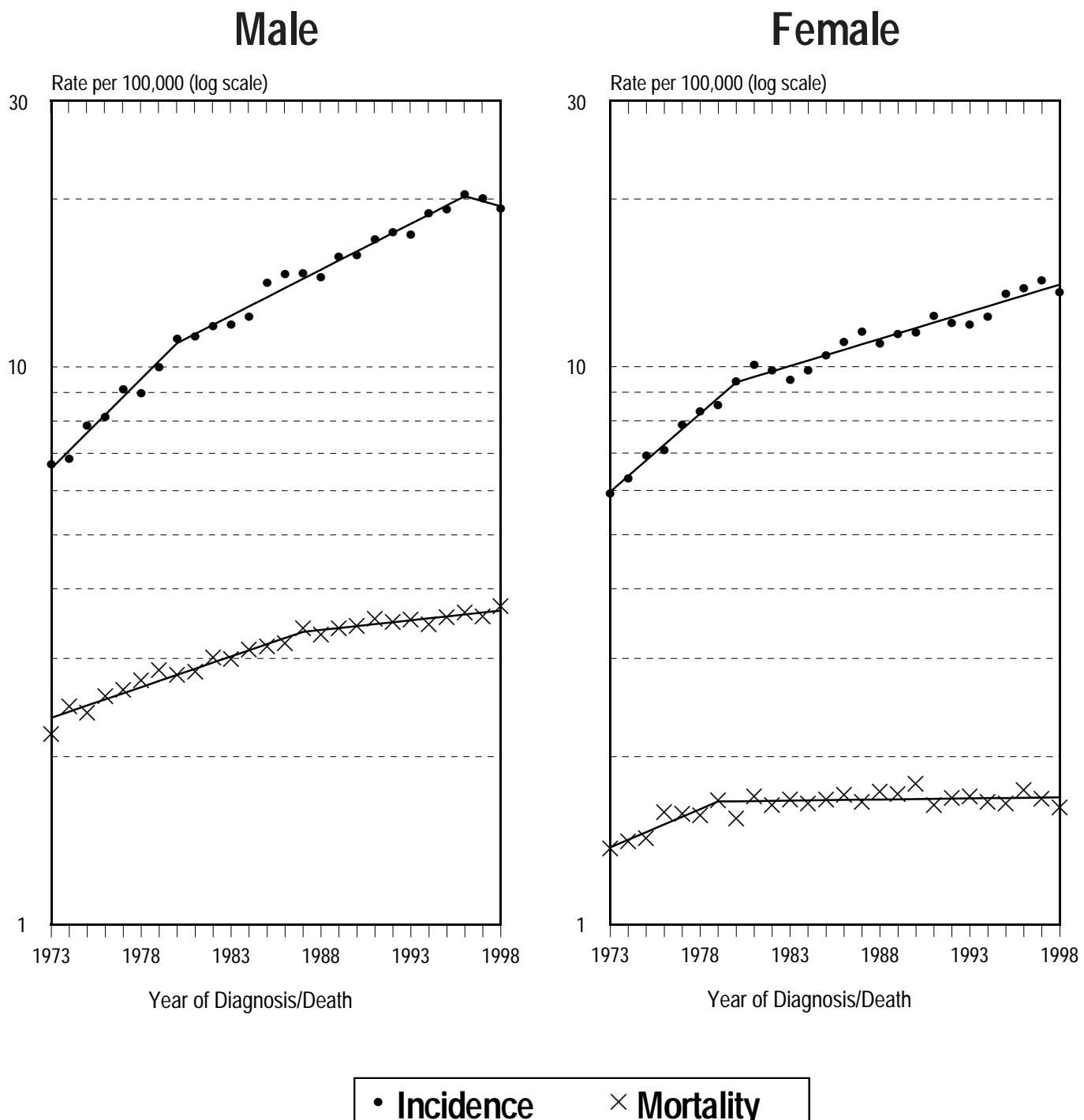
<sup>PD</sup> Percent difference between state rate and total U.S. rate.

<sup>f</sup> Absolute difference between state rate and total U.S. rate is 15% or more.

<sup>3/4</sup> Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).

Figure XVI-1

# SEER Incidence and U.S. Mortality Rates<sup>+</sup> Melanoma of the Skin, White By Sex



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

# Melanoma of the Skin SEER Incidence by Age and Sex Whites 1986-1988 vs. 1996-1998

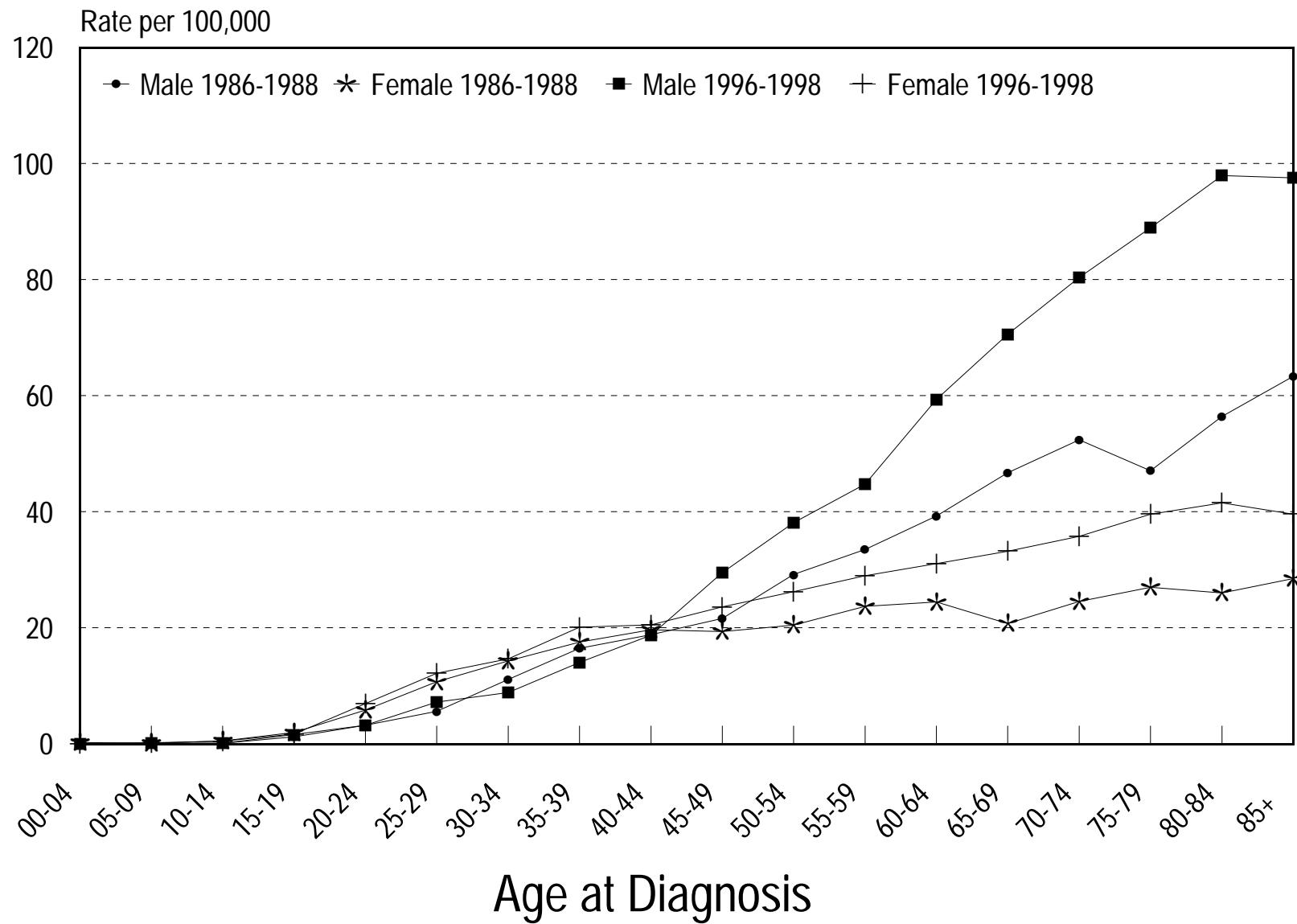
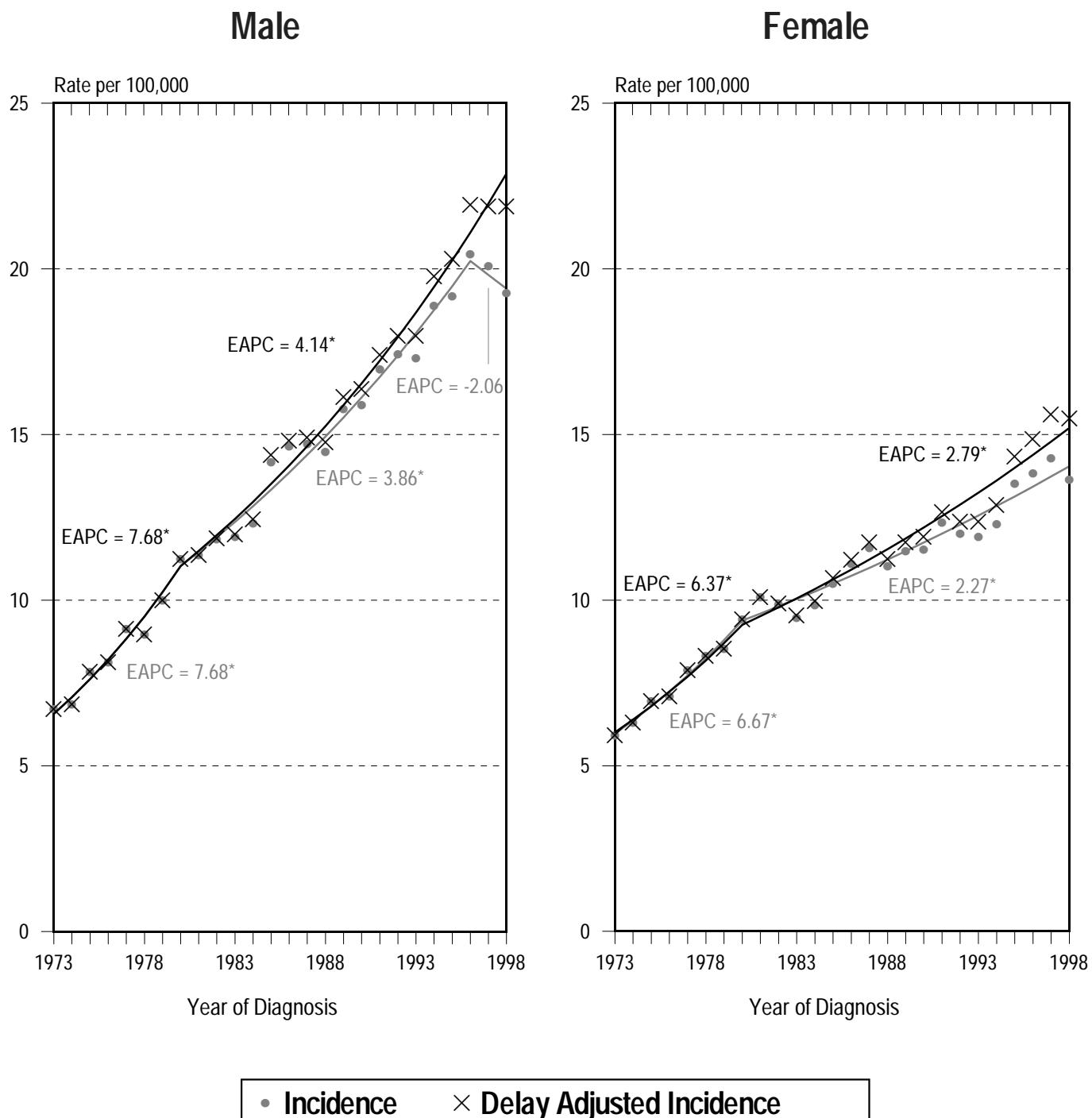


Figure XVI-3

# SEER Incidence and Delay Adjusted Incidence Rates<sup>+</sup> Melanoma of the Skin, White By Sex



<sup>+</sup>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 calculated by the Joinpoint Regression Program.

\* The EAPC is significantly different from zero ( $p < 0.05$ ).