

Table XVI-1  
MELANOMA OF SKIN (Invasive)

TRENDS IN SEER INCIDENCE<sup>a</sup> AND U.S. MORTALITY<sup>b</sup> USING THE JOINPOINT REGRESSION PROGRAM, 1973-1999  
WITH UP TO THREE JOINPOINTS BY RACE AND SEX

	<u>All Races</u>		<u>Whites</u>		<u>Blacks</u>	
	<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>	<u>Year</u>	<u>APC</u>
<u>SEER Cancer Incidence<sup>a</sup></u>						
Sex - Male and Female	1973-81	6.1★	1973-81	6.5★	1973-99	0.7
	1981-99	2.8★	1981-99	3.0★		
Sex - Male	1973-85	5.7★	1973-85	6.0★	1973-99	2.8
	1985-99	3.1★	1985-99	3.2★		
Sex - Female	1973-81	5.4★	1973-80	6.4★	1973-99	-0.6
	1981-99	2.1★	1980-99	2.4★		
<u>U.S. Cancer Mortality<sup>b</sup></u>						
Sex - Male and Female	1973-77	4.2★	1973-77	4.3★	1973-99	-0.3
	1977-90	1.3★	1977-90	1.5★		
	1990-99	0.0	1990-99	0.2		
Sex - Male	1973-87	2.5★	1973-87	2.7★	1973-99	-1.1★
	1987-99	0.7★	1987-99	0.8★		
Sex - Female	1973-81	2.4★	1973-81	2.5★	1973-99	0.4
	1981-99	-0.1	1981-99	0.0		

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 U.S. standard population by 5-year age groups using the Joinpoint Regression Program.

Trends are from the SEER 9 areas.

Trends are from the NCHS public use data file.

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

<sup>a</sup>  
<sup>b</sup>  
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Table XVI-2  
MELANOMA 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	6.8	7.3	6.4	7.4	7.9	7.0	-	-	-
1974	7.2	7.6	7.0	7.9	8.3	7.7	-	-	-
1975	7.9	8.5	7.5	8.6	9.3	8.2	-	-	-
1976	8.2	8.7	7.7	9.0	9.5	8.5	-	-	-
1977	8.9	9.8	8.1	9.8	10.8	9.1	-	-	-
1978	8.9	9.5	8.7	10.1	10.7	9.8	-	-	-
1979	9.5	10.5	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	12.5	13.5	11.9	-	-	-
1982	11.2	12.5	10.2	12.7	14.1	11.7	-	-	-
1983	11.1	12.6	10.0	12.4	14.2	11.3	-	-	-
1984	11.4	12.9	10.4	12.9	14.7	11.7	-	-	-
1985	12.7	15.1	11.1	14.2	16.8	12.4	-	-	-
1986	13.3	15.7	11.6	14.9	17.6	13.0	-	-	-
1987	13.6	15.9	12.1	15.3	17.8	13.7	-	-	-
1988	12.8	14.9	11.4	14.7	17.2	13.1	-	-	-
1989	13.7	16.4	11.8	15.7	18.8	13.7	-	-	-
1990	13.8	16.6	11.8	15.9	19.1	13.7	-	-	-
1991	14.6	17.5	12.5	16.9	20.2	14.5	-	-	-
1992	14.8	18.3	12.2	17.0	21.0	14.2	-	-	-
1993	14.6	18.0	12.1	16.8	20.6	14.1	-	-	-
1994	15.6	19.6	12.6	18.0	22.7	14.6	-	-	-
1995	16.4	20.2	13.7	19.0	23.1	16.1	1.7	-	-
1996	17.1	21.3	14.1	19.9	24.5	16.5	-	-	-
1997	17.6	21.4	14.8	20.2	24.3	17.2	-	-	-
1998	17.6	21.7	14.7	20.6	25.0	17.5	1.3	-	-
1999	17.4	21.7	14.2	20.1	24.9	16.8	1.2	-	-
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
All ages	17.2	21.3	14.3	20.0	24.4	16.8	1.3	1.8	0.9
Under 65	12.4	13.3	11.6	14.6	15.4	13.9	0.7	0.8	0.7
65 and over	50.5	76.5	32.8	57.1	86.7	37.1	4.9	9.1	-
All ages (world std.) <sup>ë</sup>	12.8	15.1	11.0	14.9	17.4	13.1	0.8	1.1	0.7
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DIAGNOSIS:</u>									
0-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	0.3	-	-	0.4	-	-	-	-	-
15-19	1.4	1.1	1.6	1.7	1.4	2.0	-	-	-
20-24	4.1	2.7	5.6	5.1	3.3	6.8	-	-	-
25-29	7.8	5.7	9.9	9.6	6.9	12.4	-	-	-
30-34	10.1	7.9	12.3	12.2	9.3	15.2	-	-	-
35-39	14.5	12.0	16.9	17.4	14.2	20.6	-	-	-
40-44	17.6	17.7	17.6	20.8	20.5	21.1	-	-	-
45-49	23.2	24.8	21.6	27.2	28.9	25.4	-	-	-
50-54	28.7	33.9	23.7	33.0	38.8	27.3	-	-	-
55-59	33.1	41.3	25.3	38.0	46.7	29.6	-	-	-
60-64	38.9	52.7	26.4	45.8	61.2	31.5	-	-	-
65-69	44.3	61.6	29.7	51.5	70.9	34.7	-	-	-
70-74	51.3	75.4	32.4	58.1	85.2	36.8	-	-	-
75-79	52.4	80.0	32.8	59.4	90.6	37.2	-	-	-
80-84	55.9	89.7	35.8	62.4	101.1	39.6	-	-	-
85+	53.2	90.8	37.3	57.6	101.1	40.0	-	-	-

§ SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

ë SEER 9 areas. 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  
MELANOMA OF SKIN (Invasive)

U.S. DEATH 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 DEATH:</u>									
1973	1.9	2.5	1.5	2.1	2.7	1.7	0.5	0.7	0.4
1974	2.1	2.7	1.6	2.3	3.0	1.7	0.4	0.4	0.4
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	3.9	1.9	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	4.4	2.0	0.5	0.5	0.4
1996	2.8	4.0	1.9	3.2	4.5	2.2	0.4	0.5	0.4
1997	2.8	4.0	1.9	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	0.4	0.6
1999	2.7	3.8	1.8	3.0	4.3	2.0	0.4	0.5	0.3
<u>AGE-ADJUSTED RATES, 1995-99</u>									
<u>AGE AT DEATH:</u>									
All ages	2.7	4.0	1.8	3.1	4.4	2.1	0.5	0.5	0.5
Under 65	1.5	1.9	1.0	1.7	2.2	1.2	0.2	0.2	0.2
65 and over	11.7	18.0	7.6	12.8	19.8	8.2	2.6	2.6	2.6
All ages (world std.) <sup>ö</sup>	1.8	2.6	1.2	2.1	2.9	1.4	0.3	0.3	0.3
<u>AGE-SPECIFIC RATES, 1995-99</u>									
<u>AGE AT DEATH:</u>									
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	0.2	0.2	-	-	-
25-29	0.4	0.4	0.4	0.5	0.5	0.4	-	-	-
30-34	0.8	0.9	0.6	0.9	1.0	0.8	-	-	-
35-39	1.3	1.6	1.0	1.5	1.9	1.2	-	-	-
40-44	1.9	2.4	1.4	2.2	2.8	1.7	-	-	-
45-49	2.8	3.6	2.0	3.3	4.2	2.3	0.3	-	-
50-54	3.7	5.0	2.6	4.3	5.7	3.0	0.4	-	-
55-59	4.9	6.9	3.0	5.6	7.8	3.4	0.6	-	-
60-64	6.3	9.0	3.9	7.2	10.2	4.4	0.9	1.2	-
65-69	8.1	11.9	4.9	9.1	13.4	5.5	1.3	-	1.3
70-74	10.3	15.3	6.4	11.3	16.8	7.0	1.7	1.8	1.7
75-79	12.4	18.9	7.9	13.5	20.5	8.5	2.7	2.9	2.5
80-84	15.1	24.0	9.8	16.2	25.9	10.5	4.3	4.7	4.1
85+	17.3	28.8	12.7	18.7	31.6	13.4	5.3	-	5.7

ä NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups, unless noted.

ö NCHS public use data file. 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  
MELANOMA 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
<u>5-YR RELATIVE SURVIVAL RATES</u>									
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	75.1	84.8	80.4	75.6	85.0	66.6†	-	-
1977-79 <sup>b</sup>	82.0	77.7	86.1	82.4	78.0	86.5	50.4†	-	-
1980-82 <sup>b</sup>	83.0	77.8	88.3	83.2	78.0	88.3	60.9†	-	-
1983-85 <sup>b</sup>	84.7	80.4	89.2	84.8	80.5	89.4	74.4†	-	70.1†
1986-88 <sup>b</sup>	87.7	84.4	91.2	87.9	84.7	91.3	69.0†	-	-
1989-91 <sup>b</sup>	88.6	86.0	91.5	88.7	86.3	91.5	79.1†	64.5†	94.0†
1992-98 <sup>b</sup>	89.1Ū	87.0Ū	91.5Ū	89.3Ū	87.1Ū	91.8Ū	65.5†	69.4†	61.9†
1992-98 <sup>b</sup>									
ALL STAGES	89.1	87.0	91.5	89.3	87.1	91.8	65.5†	69.4†	61.9†
LOCALIZED	96.2	95.8	96.8	96.3	95.8	96.8	85.9†	91.7†	80.0†
REGIONAL	59.8	55.8	65.9	60.2	55.9	66.8	-	-	-
DISTANT	14.1	12.6	16.5	14.3	12.8	16.5	-	-	-
UNSTAGED	75.3	72.0	80.0	75.4	71.9	80.6	-	-	-
<u>STAGE DISTRIBUTION (%) 1992-98<sup>b</sup></u>									
ALL STAGES									
Number of cases	21,967	12,011	9,956	21,647	11,852	9,795	117	61	56
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	82	80	84	82	80	84	62	56	70
REGIONAL	9	10	8	9	10	8	20	21	18
DISTANT	4	4	3	4	4	3	11	15	7
UNSTAGED	6	6	5	6	6	5	7	8	5
<u>5-YR RELATIVE SURVIVAL RATES, 1992-98<sup>b</sup></u>									
AGE AT DIAGNOSIS:									
<45	91.3	87.6	94.2	91.3	87.6	94.2	-	-	-
45-54	90.2	88.0	93.2	90.3	88.0	93.4	-	-	-
55-64	90.2	88.5	92.9	90.3	88.6	93.2	62.9†	-	-
65-74	88.5	87.7	89.9	88.9	88.0	90.3	-	-	-
75+	80.4	80.9	80.0	80.8	81.3	80.3	48.8†	-	-
Under 65	90.7	88.0	93.7	90.8	88.0	93.8	69.4†	72.2†	66.2†
65 and over	85.6	85.4	86.0	86.0	85.8	86.4	60.5†	-	-

<sup>a</sup>

<sup>b</sup>

Rates are based on End Results data from a series of hospital registries and one population-based registry. Rates are from the SEER 9 areas. 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 into 1999.

The difference in rates between 1974-76 and 1992-98 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  
MELANOMA OF SKIN (Invasive)

INCIDENCE, DEATH, 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	1999
Incidence																					
SEER <sup>a</sup>	7.9	10.5	11.1	11.2	11.1	11.4	12.7	13.3	13.6	12.8	13.7	13.8	14.6	14.8	14.6	15.6	16.4	17.1	17.6	17.6	17.4
Mortality																					
U.S. <sup>b</sup>	2.1	2.3	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.8	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.7
SEER <sup>a</sup>	1.9	2.3	2.4	2.3	2.3	2.5	2.3	2.4	2.5	2.5	2.4	2.5	2.7	2.4	2.5	2.3	2.5	2.6	2.5	2.5	2.6
Relative Survival Rates (SEER <sup>a</sup> )																					
1-year	95.2	96.7	94.5	95.3	96.5	96.4	95.9	96.7	96.2	96.9	95.9	96.5	97.1	96.2	96.8	97.0	97.6	97.6	96.5	96.4	
2-year	89.9	92.4	90.4	91.2	92.1	93.0	92.6	93.0	92.8	93.3	93.4	93.5	94.0	93.5	94.4	93.6	94.3	95.5	94.0		
3-year	85.8	88.4	85.0	88.0	88.8	90.2	89.2	90.7	90.1	90.9	90.7	91.5	91.7	91.3	92.4	91.3	92.5	93.5			
4-year	82.2	85.9	82.6	85.6	86.4	87.1	87.1	89.2	88.4	89.6	88.9	89.5	90.4	89.2	90.5	89.4	91.0				
5-year	81.2	84.1	80.4	84.4	83.7	84.9	85.2	87.6	86.8	88.6	87.3	89.0	89.4	88.2	89.8	88.1					
6-year	79.2	83.3	79.2	83.7	82.0	83.8	84.0	86.4	85.9	86.9	86.3	87.7	88.3	87.7	89.2						
7-year	77.9	82.2	78.6	82.5	81.7	83.5	82.9	86.0	84.9	86.6	85.1	87.2	87.4	87.4							
8-year	76.5	81.0	78.5	81.8	80.4	83.0	82.7	85.3	84.2	85.8	84.6	86.6	86.5								
9-year	74.5	80.3	77.4	81.2	80.4	81.9	82.2	85.3	83.8	85.4	84.4	86.2									
10-year	72.8	79.8	77.4	80.9	79.7	81.0	82.2	85.3	83.6	84.7	83.9										
11-year	72.4	79.3	77.1	80.5	79.7	80.5	82.2	85.3	82.3	84.2											
12-year	71.1	78.2	77.0	80.5	79.7	80.5	82.2	85.2	82.0												
13-year	71.0	77.8	77.0	79.8	79.4	79.9	82.2	84.7													
14-year	69.3	77.4	77.0	79.5	79.2	79.9	81.7														
15-year	68.8	77.3	77.0	78.9	78.9	79.7															
16-year	68.8	76.9	77.0	78.8	78.5																
17-year	68.8	76.2	76.9	78.2																	
18-year	68.8	76.0	76.9																		
19-year	68.8	75.6																			
20-year	68.8																				
21-year	68.8																				
22-year	68.8																				
23-year	68.8																				
24-year	68.8																				

<sup>a</sup> Rates are from the SEER 9 areas.

<sup>b</sup> Rates are from the NCHS public use data file.

\* Incidence and death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

Survival rates are relative rates expressed as percents.

Table XVI-6  
MELANOMA OF SKIN (Invasive)

INCIDENCE, DEATH, 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	1999
Incidence																					
SEER <sup>a</sup>	8.5	11.8	12.1	12.5	12.6	12.9	15.1	15.7	15.9	14.9	16.4	16.6	17.5	18.3	18.0	19.6	20.2	21.3	21.4	21.7	21.7
Mortality																					
U.S. <sup>b</sup>	2.6	3.1	3.1	3.3	3.3	3.4	3.5	3.5	3.7	3.7	3.7	3.8	3.9	3.9	3.9	3.8	3.9	4.0	4.0	4.1	3.8
SEER <sup>a</sup>	2.3	3.1	3.1	3.2	3.3	3.5	3.0	3.1	3.5	3.4	3.1	3.2	3.8	3.4	3.5	3.3	3.6	3.8	3.5	3.4	3.6
Relative Survival Rates (SEER <sup>a</sup> )																					
1-year	93.1	95.9	93.2	92.8	95.2	94.4	94.8	95.7	95.3	95.7	94.6	95.7	96.1	95.8	96.2	96.7	96.6	96.6	96.2	96.0	
2-year	85.1	89.7	88.3	87.6	89.0	89.8	90.4	91.0	90.5	91.6	92.1	91.6	93.1	92.4	93.4	92.2	92.3	94.2	93.3		
3-year	80.6	84.8	80.6	84.5	85.8	86.0	86.1	87.9	87.5	88.7	88.6	89.2	90.5	89.8	90.6	89.3	90.0	91.7			
4-year	76.7	81.8	77.8	81.8	83.3	81.8	83.6	86.0	85.4	87.4	86.2	86.8	89.0	86.9	88.9	87.3	88.1				
5-year	75.6	78.2	75.3	79.6	80.3	79.3	81.4	83.9	83.0	86.3	84.1	85.8	88.0	85.5	88.0	86.2					
6-year	73.1	77.5	73.5	78.7	78.8	78.4	80.3	81.9	82.3	84.3	82.9	84.4	86.8	84.9	87.0						
7-year	71.7	76.1	73.3	77.5	78.8	78.3	79.2	81.3	80.7	83.7	81.4	84.3	86.0	84.8							
8-year	69.9	74.6	72.8	77.0	77.2	78.3	78.9	80.8	80.4	82.9	80.6	83.7	84.9								
9-year	67.7	73.6	71.0	76.4	77.2	77.1	78.6	80.7	79.9	82.0	80.1	83.7									
10-year	65.6	73.1	71.0	76.2	77.0	76.4	78.6	80.7	79.5	81.2	80.1										
11-year	64.9	72.6	70.5	76.2	76.8	75.7	78.5	80.7	78.2	81.2											
12-year	62.8	71.7	70.2	75.9	76.8	75.7	78.5	80.6	78.2												
13-year	62.7	71.7	70.2	75.5	76.8	74.9	78.5	80.0													
14-year	61.6	70.8	70.2	75.2	76.6	74.9	78.0														
15-year	61.4	70.8	70.2	74.4	76.6	74.9															
16-year	61.4	70.8	70.2	74.0	76.6																
17-year	61.1	69.7	70.2	74.0																	
18-year	60.9	69.6	70.2																		
19-year	60.9	69.1																			
20-year	60.9																				
21-year	60.9																				
22-year	60.9																				
23-year	60.9																				
24-year	59.7																				

<sup>a</sup> Rates are from the SEER 9 areas.

<sup>b</sup> Rates are from the NCHS public use data file.

\* Incidence and death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

Survival rates are relative rates expressed as percents.

Table XVI-7  
MELANOMA OF SKIN (Invasive)

INCIDENCE, DEATH, 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	1999
Incidence																					
SEER <sup>a</sup>	7.5	9.6	10.4	10.2	10.0	10.4	11.1	11.6	12.1	11.4	11.8	11.8	12.5	12.2	12.1	12.6	13.7	14.1	14.8	14.7	14.2
Mortality																					
U.S. <sup>b</sup>	1.6	1.7	1.9	1.8	1.8	1.8	1.9	1.9	1.8	1.9	1.9	2.0	1.8	1.9	1.9	1.8	1.8	1.9	1.9	1.8	1.8
SEER <sup>a</sup>	1.6	1.6	1.8	1.6	1.6	1.8	1.8	1.8	1.7	1.8	1.9	1.9	1.9	1.7	1.7	1.6	1.6	1.6	1.8	1.8	1.7
Relative Survival Rates (SEER <sup>a</sup> )																					
1-year	97.3	97.5	95.7	97.9	97.9	98.5	97.1	97.9	97.2	98.3	97.5	97.4	98.3	96.6	97.6	97.3	98.7	98.8	96.8	96.9	
2-year	94.7	95.2	92.4	94.9	95.5	96.3	95.0	95.2	95.2	95.0	94.9	95.7	95.2	94.8	95.5	95.4	96.6	97.2	94.9		
3-year	90.8	92.2	89.2	91.7	91.9	94.5	92.5	93.8	92.8	93.3	93.0	94.1	93.2	93.0	94.5	93.9	95.3	95.5			
4-year	87.6	90.1	87.1	89.5	89.6	92.5	90.9	92.7	91.5	92.0	92.0	92.5	92.0	91.9	92.4	92.1	94.3				
5-year	86.6	90.1	85.3	89.4	87.4	90.7	89.4	91.7	90.9	91.1	90.9	92.5	91.1	91.1	91.9	90.5					
6-year	85.1	89.2	84.6	88.8	85.3	89.3	88.1	91.2	89.7	89.6	90.2	91.5	89.9	90.9	91.9						
7-year	83.8	88.4	83.6	87.5	84.4	88.6	87.0	91.0	89.3	89.5	89.3	90.6	89.0	90.2							
8-year	82.7	87.6	83.6	86.6	83.8	87.5	86.8	90.1	88.1	88.8	89.0	89.8	88.3								
9-year	80.9	87.1	83.3	86.0	83.7	86.6	86.1	90.1	87.8	88.8	89.0	89.0									
10-year	79.6	86.5	83.1	85.6	82.5	85.5	86.1	90.1	87.8	88.2	87.9										
11-year	79.5	86.0	83.0	84.7	82.5	85.1	86.0	89.4	86.5	87.1											
12-year	78.8	84.8	83.0	84.7	82.3	85.1	86.0	89.4	85.6												
13-year	78.8	83.7	83.0	84.0	81.8	84.7	85.9	89.4													
14-year	76.3	83.7	83.0	83.8	81.8	84.1	85.5														
15-year	75.4	83.3	83.0	83.3	81.0	82.6															
16-year	75.4	82.7	82.9	83.3	80.1																
17-year	75.4	82.4	82.2	82.1																	
18-year	75.4	82.2	82.2																		
19-year	75.4	81.7																			
20-year	75.4																				
21-year	75.4																				
22-year	75.4																				
23-year	75.4																				
24-year	75.4																				

<sup>a</sup> Rates are from the SEER 9 areas.

<sup>b</sup> Rates are from the NCHS public use data file.

\* Incidence and death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

Survival rates are relative rates expressed as percents.

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

1997-1999

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	0.04	1.77	0.00	0.01	0.08	1.25	
10	0.01	0.04	0.13	1.79	0.01	0.08	0.20	1.26	
20	0.04	0.12	0.30	1.79	0.07	0.19	0.36	1.25	
30	0.09	0.27	0.58	1.78	0.12	0.30	0.52	1.19	
40	0.18	0.50	0.94	1.72	0.17	0.40	0.64	1.08	
50	0.33	0.78	1.25	1.59	0.23	0.47	0.71	0.92	
60	0.49	0.99	1.31	1.37	0.26	0.51	0.69	0.73	
Lifetime Risk of Being Diagnosed =				1.77%	Lifetime Risk of Being Diagnosed =				1.25%
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	2.06	0.00	0.01	0.09	1.47	
10	0.01	0.05	0.15	2.07	0.01	0.09	0.24	1.48	
20	0.04	0.15	0.36	2.08	0.08	0.23	0.44	1.47	
30	0.10	0.32	0.68	2.06	0.15	0.36	0.62	1.39	
40	0.22	0.59	1.10	1.99	0.21	0.47	0.76	1.25	
50	0.38	0.91	1.45	1.83	0.26	0.56	0.83	1.06	
60	0.57	1.15	1.50	1.56	0.31	0.60	0.79	0.83	
Lifetime Risk of Being Diagnosed =				2.06%	Lifetime Risk of Being Diagnosed =				1.47%
Lifetime Risk of Dying =				0.40%	Lifetime Risk of Dying =				0.22%

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	0.01	0.11	0.00	0.00	0.01	0.09	
20	0.00	0.01	0.01	0.11	0.00	0.01	0.02	0.09	
30	0.00	0.01	0.02	0.11	0.01	0.02	0.04	0.08	
40	0.01	0.02	0.05	0.12	0.01	0.03	0.04	0.08	
50	0.02	0.05	0.08	0.12	0.02	0.04	0.05	0.07	
60	0.03	0.07	0.11	0.12	0.01	0.03	0.05	0.05	
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  
MELANOMA OF SKIN (Invasive)

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

By Race/Ethnicity and Sex

Incidence<sup>i</sup>

RACE/ETHNICITY	Rate 1992-1999 Rate per 100,000 persons			Trend 1992-1999 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	15.5	19.5	12.7	2.8★	2.9★
White	18.0	22.4	14.9	3.0★	2.9★	3.1★
White Hispanic	3.8	3.9	3.9	4.3★	5.1★	3.8
White Non-Hispanic	20.5	25.2	17.1	2.8★	2.8★	2.7★
Black	1.1	1.3	0.9	4.9	-	2.7
Asian/Pacific Islander	1.4	1.7	1.2	3.0	3.6	3.1
Amer Ind/Alaska Nat	1.5	-	-	-	-	-
Hispanic <sup>⊗</sup>	3.6	3.7	3.7	4.0★	4.3★	3.8

Mortality<sup>❖</sup>

RACE/ETHNICITY	Rate 1992-1999 Rate per 100,000 persons			Trend 1992-1999 EAPC (%)		
	Total	Males	Females	Total	Males	Females
	All Races	2.7	3.9	1.8	0.1	0.5
White	3.1	4.4	2.1	0.3	0.6	-0.3
White Hispanic	0.8	1.1	0.6	1.0	3.5	-2.4
White Non-Hispanic	3.2	4.6	2.2	0.4	0.7	-0.2
Black	0.5	0.5	0.5	-1.1	-0.5	-1.0
Asian/Pacific Islander	0.4	0.5	0.3	-1.8	-	-
Amer Ind/Alaska Nat	0.6	0.7	0.5	-	-	-
Hispanic <sup>⊗</sup>	0.8	1.0	0.6	1.0	3.3	-2.4

- 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.
- <sup>i</sup> Incidence data are from the 12 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, and Alaska Native Registry).
- <sup>⊗</sup> Hispanic is not mutually exclusive from whites, blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics does not include cases from Detroit, Hawaii and Alaska Native Registry. For mortality, information is included for all states except Connecticut, Oklahoma, New York, and New Hampshire.
- <sup>❖</sup> Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).
- <sup>★</sup> The EAPC is significantly different from zero (p<.05).

Table XVI-10  
MELANOMA OF SKIN (Invasive)AGE-ADJUSTED SEER INCIDENCE RATES§ AND SEER DEATH RATESä  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES§, 1995-99</u>									
REGISTRY									
11 registries	16.3	20.4	13.3	19.0	23.5	15.7	1.2	1.6	0.9
9 registries	17.2	21.3	14.3	20.0	24.4	16.8	1.3	1.8	0.9
San Francisco-Oakland	15.6	19.8	12.7	20.1	25.0	16.6	-	-	-
Connecticut	20.6	25.9	16.9	21.3	26.5	17.6	-	-	-
Metropolitan Detroit	14.7	18.2	12.4	17.8	21.8	15.4	0.9	-	-
Hawaii	14.5	19.2	10.3	44.6	60.8	29.8	-	-	-
Iowa	15.4	18.2	13.5	15.0	17.7	13.2	-	-	-
New Mexico	14.8	18.2	12.2	16.2	19.7	13.5	-	-	-
Seattle-Puget Sound	20.3	23.4	18.1	22.4	25.5	20.2	-	-	-
Utah	19.8	24.5	16.1	20.5	25.3	16.7	-	-	-
Metropolitan Atlanta	18.5	25.4	13.9	23.8	31.4	18.6	1.8	-	-
San Jose-Monterey	18.0	22.5	14.6	18.0	22.8	14.4	-	-	-
Los Angeles	13.2	17.4	10.2	16.0	20.8	12.6	1.0	-	-
<u>SEER DEATH RATESä, 1995-99</u>									
REGISTRY									
11 registries	2.4	3.5	1.6	2.9	4.2	1.9	0.4	0.5	0.3
9 registries	2.5	3.6	1.7	3.0	4.2	2.0	0.4	-	-
San Francisco-Oakland	2.6	3.9	1.6	3.5	5.2	2.2	-	-	-
Connecticut	2.6	3.7	1.9	2.8	3.9	2.0	-	-	-
Metropolitan Detroit	1.9	2.9	1.2	2.4	3.5	1.5	-	-	-
Hawaii	1.5	2.1	1.0	4.4	6.7	-	-	-	-
Iowa	2.7	3.6	1.9	2.7	3.6	1.9	-	-	-
New Mexico	2.6	3.8	1.6	2.7	4.1	1.7	-	-	-
Seattle-Puget Sound	3.1	4.2	2.2	3.4	4.6	2.4	-	-	-
Utah	3.2	4.6	2.1	3.3	4.7	2.2	-	-	-
Metropolitan Atlanta	2.3	3.4	1.5	2.9	4.2	2.0	-	-	-
San Jose-Monterey	2.4	3.6	1.5	2.9	4.3	1.8	-	-	-
Los Angeles	2.2	3.3	1.4	2.7	4.1	1.7	-	-	-

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 9 areas. Incidence rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.  
 ä NCHS public use data file. Death rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.  
 - Statistic could not be calculated or populations are inadequate.

Table XVI-11  
MELANOMA OF SKIN (Invasive)AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>ä</sup> RATES BY STATE, 1995-99

All Races, Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	2.7	0.01		
High Five States				
Oklahoma	3.5 $\oplus$ *	0.14	(01)	29.6
Vermont	3.4*	0.34	(02)	25.9
Delaware	3.3*	0.30	(03)	22.2
Utah	3.2*	0.21	(04)	18.5
Nevada	3.2*	0.21	(05)	18.5
Low Five States				
Louisiana	2.3 $\oplus$	0.11	(47)	-14.8
Michigan	2.3 $\oplus$	0.07	(48)	-14.8
North Dakota	2.1*	0.25	(49)	-22.2
Hawaii	1.5 $\oplus$ *	0.16	(50)	-44.4
District of Columbia	1.2 $\oplus$ *	0.21	(51)	-55.6

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	2.6	0.11	(37)	-3.7	Montana	2.7	0.25	(29)	0.0
Alaska	2.5	0.40	(43)	-7.4	Nebraska	2.7	0.18	(30)	0.0
Arizona	3.1	0.12	(08)	14.8	Nevada	3.2*	0.21	(05)	18.5
Arkansas	2.6	0.14	(38)	-3.7	New Hampshire	3.1	0.24	(12)	14.8
California	2.8	0.04	(26)	3.7	New Jersey	3.0	0.09	(15)	11.1
Colorado	2.9	0.13	(20)	7.4	New Mexico	2.6	0.18	(40)	-3.7
Connecticut	2.6	0.12	(36)	-3.7	New York	2.3 $\oplus$	0.05	(46)	-14.8
Delaware	3.3*	0.30	(03)	22.2	North Carolina	2.9	0.09	(22)	7.4
District of Columbia	1.2 $\oplus$ *	0.21	(51)	-55.6	North Dakota	2.1*	0.25	(49)	-22.2
Florida	3.0 $\oplus$	0.06	(17)	11.1	Ohio	2.7	0.07	(32)	0.0
Georgia	2.7	0.09	(35)	0.0	Oklahoma	3.5 $\oplus$ *	0.14	(01)	29.6
Hawaii	1.5 $\oplus$ *	0.16	(50)	-44.4	Oregon	3.2*	0.14	(07)	18.5
Idaho	3.1	0.24	(09)	14.8	Pennsylvania	2.8	0.06	(24)	3.7
Illinois	2.4 $\oplus$	0.06	(45)	-11.1	Rhode Island	2.8	0.23	(25)	3.7
Indiana	2.8	0.10	(23)	3.7	South Carolina	2.6	0.12	(39)	-3.7
Iowa	2.7	0.13	(34)	0.0	South Dakota	3.0	0.29	(16)	11.1
Kansas	2.9	0.15	(21)	7.4	Tennessee	3.1	0.11	(10)	14.8
Kentucky	3.0	0.12	(19)	11.1	Texas	2.8	0.06	(27)	3.7
Louisiana	2.3 $\oplus$	0.11	(47)	-14.8	Utah	3.2*	0.21	(04)	18.5
Maine	2.7	0.20	(31)	0.0	Vermont	3.4*	0.34	(02)	25.9
Maryland	2.5	0.10	(42)	-7.4	Virginia	2.8	0.09	(28)	3.7
Massachusetts	3.1	0.10	(13)	14.8	Washington	3.1	0.11	(11)	14.8
Michigan	2.3 $\oplus$	0.07	(48)	-14.8	West Virginia	3.0	0.18	(14)	11.1
Minnesota	2.6	0.11	(41)	-3.7	Wisconsin	2.7	0.10	(33)	0.0
Mississippi	2.4	0.14	(44)	-11.1	Wyoming	3.2*	0.38	(06)	18.5
Missouri	3.0	0.10	(18)	11.1					

<sup>ä</sup> NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

SE Standard error of the rate.

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

\* Absolute percent difference between state rate and total U.S. rate is 15% or more.

$\oplus$  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 DEATH<sup>ä</sup> RATES BY STATE, 1995-99

All Races, Males

State	Rate	SE	Rank	PD
TOTAL U.S.	4.0	0.03		
High Five States				
Delaware	5.0*	0.59	(01)	25.0
Vermont	5.0*	0.63	(02)	25.0
Arizona	4.7*	0.22	(03)	17.5
Oklahoma	4.7*	0.26	(04)	17.5
Nevada	4.7*	0.38	(05)	17.5
Low Five States				
New York	3.3⊕*	0.09	(47)	-17.5
Michigan	3.3⊕*	0.13	(48)	-17.5
North Dakota	2.5⊕*	0.41	(49)	-37.5
Hawaii	2.1⊕*	0.28	(50)	-47.5
District of Columbia	1.9⊕*	0.42	(51)	-52.5

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	3.8	0.21	(34)	-5.0	Montana	3.9	0.44	(29)	-2.5
Alaska	3.4*	0.77	(44)	-15.0	Nebraska	4.2	0.34	(17)	5.0
Arizona	4.7*	0.22	(03)	17.5	Nevada	4.7*	0.38	(05)	17.5
Arkansas	3.6	0.25	(39)	-10.0	New Hampshire	4.2	0.43	(16)	5.0
California	4.1	0.08	(23)	2.5	New Jersey	4.4	0.16	(09)	10.0
Colorado	4.2	0.25	(18)	5.0	New Mexico	3.8	0.34	(33)	-5.0
Connecticut	3.7	0.23	(36)	-7.5	New York	3.3⊕*	0.09	(47)	-17.5
Delaware	5.0*	0.59	(01)	25.0	North Carolina	4.2	0.17	(20)	5.0
District of Columbia	1.9⊕*	0.42	(51)	-52.5	North Dakota	2.5⊕*	0.41	(49)	-37.5
Florida	4.6⊕*	0.11	(07)	15.0	Ohio	3.8	0.13	(31)	-5.0
Georgia	4.0	0.18	(28)	0.0	Oklahoma	4.7*	0.26	(04)	17.5
Hawaii	2.1⊕*	0.28	(50)	-47.5	Oregon	4.4	0.24	(12)	10.0
Idaho	4.5	0.43	(08)	12.5	Pennsylvania	4.1	0.12	(25)	2.5
Illinois	3.4⊕*	0.12	(46)	-15.0	Rhode Island	3.6	0.41	(40)	-10.0
Indiana	4.1	0.19	(24)	2.5	South Carolina	3.9	0.23	(30)	-2.5
Iowa	3.6	0.23	(42)	-10.0	South Dakota	3.7	0.47	(37)	-7.5
Kansas	4.1	0.27	(21)	2.5	Tennessee	4.4	0.20	(11)	10.0
Kentucky	4.4	0.24	(10)	10.0	Texas	4.0	0.11	(26)	0.0
Louisiana	3.4*	0.21	(43)	-15.0	Utah	4.6*	0.37	(06)	15.0
Maine	3.6	0.36	(38)	-10.0	Vermont	5.0*	0.63	(02)	25.0
Maryland	3.8	0.20	(35)	-5.0	Virginia	4.0	0.18	(27)	0.0
Massachusetts	4.3	0.18	(15)	7.5	Washington	4.3	0.19	(14)	7.5
Michigan	3.3⊕*	0.13	(48)	-17.5	West Virginia	4.1	0.31	(22)	2.5
Minnesota	3.6	0.19	(41)	-10.0	Wisconsin	3.8	0.18	(32)	-5.0
Mississippi	3.4*	0.25	(45)	-15.0	Wyoming	4.2	0.67	(19)	5.0
Missouri	4.3	0.19	(13)	7.5					

ä NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

SE Standard error of the rate.

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

\* Absolute percent difference between state rate and total U.S. rate is 15% or more.

⊕ Difference between state rate and total U.S. rate is statistically significant ( $p < .0002$ ).

Table XVI-13  
MELANOMAS OF SKIN (Invasive)AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>ä</sup> RATES BY STATE, 1995-99

All Races, Females

State	Rate	SE	Rank	PD
TOTAL U.S.	1.8	0.02		
High Five States				
Oklahoma	2.5 $\oplus$ *	0.16	(01)	38.9
South Dakota	2.5*	0.36	(02)	38.9
Wyoming	2.4*	0.45	(03)	33.3
Rhode Island	2.3*	0.28	(04)	27.8
West Virginia	2.2*	0.20	(05)	22.2
Low Five States				
New Mexico	1.6	0.19	(47)	-11.1
Michigan	1.5 $\oplus$ *	0.07	(48)	-16.7
Louisiana	1.4*	0.11	(49)	-22.2
Hawaii	1.0 $\oplus$ *	0.18	(50)	-44.4
District of Columbia	0.8 $\oplus$ *	0.21	(51)	-55.6

State	Rate	SE	Rank	PD	State	Rate	SE	Rank	PD
Alabama	1.8	0.12	(31)	0.0	Montana	1.8	0.27	(36)	0.0
Alaska	1.8	0.43	(32)	0.0	Nebraska	1.6	0.19	(46)	-11.1
Arizona	1.9	0.13	(29)	5.6	Nevada	2.0	0.22	(19)	11.1
Arkansas	1.9	0.16	(23)	5.6	New Hampshire	2.2*	0.27	(07)	22.2
California	1.8	0.05	(34)	0.0	New Jersey	2.0	0.09	(17)	11.1
Colorado	2.0	0.15	(15)	11.1	New Mexico	1.6	0.19	(47)	-11.1
Connecticut	1.9	0.14	(26)	5.6	New York	1.6 $\oplus$	0.06	(45)	-11.1
Delaware	2.1*	0.32	(13)	16.7	North Carolina	2.0	0.10	(20)	11.1
District of Columbia	0.8 $\oplus$ *	0.21	(51)	-55.6	North Dakota	1.7	0.29	(42)	-5.6
Florida	1.8	0.06	(37)	0.0	Ohio	1.8	0.08	(30)	0.0
Georgia	1.8	0.10	(38)	0.0	Oklahoma	2.5 $\oplus$ *	0.16	(01)	38.9
Hawaii	1.0 $\oplus$ *	0.18	(50)	-44.4	Oregon	2.1*	0.15	(10)	16.7
Idaho	2.0	0.26	(14)	11.1	Pennsylvania	1.9	0.07	(25)	5.6
Illinois	1.6	0.07	(44)	-11.1	Rhode Island	2.3*	0.28	(04)	27.8
Indiana	1.9	0.11	(28)	5.6	South Carolina	1.6	0.13	(43)	-11.1
Iowa	1.9	0.15	(22)	5.6	South Dakota	2.5*	0.36	(02)	38.9
Kansas	2.0	0.17	(18)	11.1	Tennessee	2.2*	0.12	(09)	22.2
Kentucky	1.9	0.13	(24)	5.6	Texas	1.8	0.06	(33)	0.0
Louisiana	1.4*	0.11	(49)	-22.2	Utah	2.1*	0.23	(11)	16.7
Maine	2.0	0.24	(16)	11.1	Vermont	2.2*	0.37	(08)	22.2
Maryland	1.7	0.11	(40)	-5.6	Virginia	1.9	0.10	(27)	5.6
Massachusetts	2.2*	0.11	(06)	22.2	Washington	2.1*	0.12	(12)	16.7
Michigan	1.5 $\oplus$ *	0.07	(48)	-16.7	West Virginia	2.2*	0.20	(05)	22.2
Minnesota	1.7	0.12	(39)	-5.6	Wisconsin	1.8	0.11	(35)	0.0
Mississippi	1.7	0.15	(41)	-5.6	Wyoming	2.4*	0.45	(03)	33.3
Missouri	1.9	0.11	(21)	5.6					

<sup>ä</sup> NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

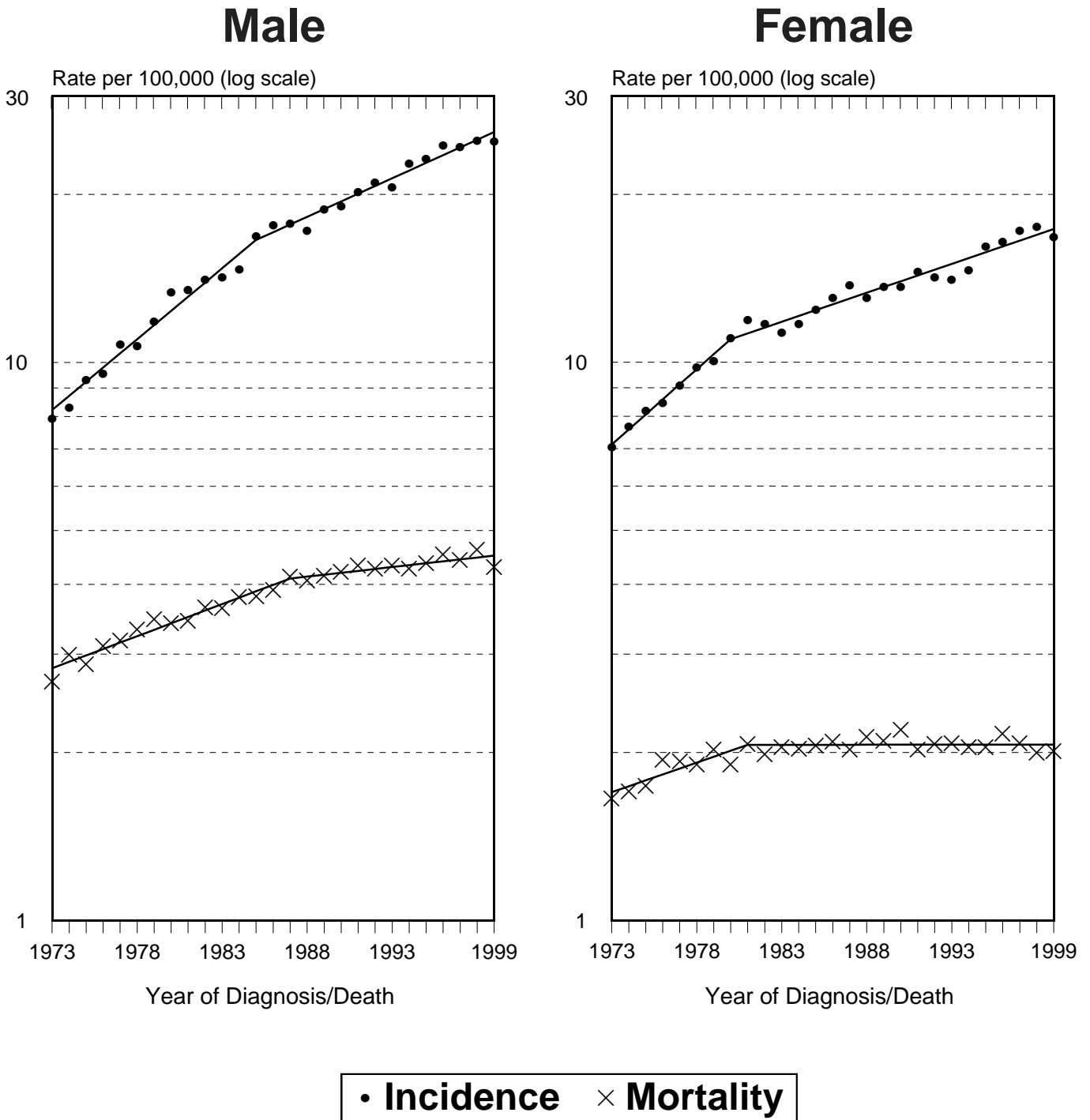
SE Standard error of the rate.

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

\* Absolute percent difference between state rate and total U.S. rate is 15% or more.

$\oplus$  Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).

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



<sup>+</sup> Source: SEER 9 areas and NCHS public use data file. Rates are age-adjusted to the 2000 U.S. standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program.

# Melanoma of the Skin

## SEER Incidence by Age and Sex

### Whites 1987-1989 vs. 1997-1999

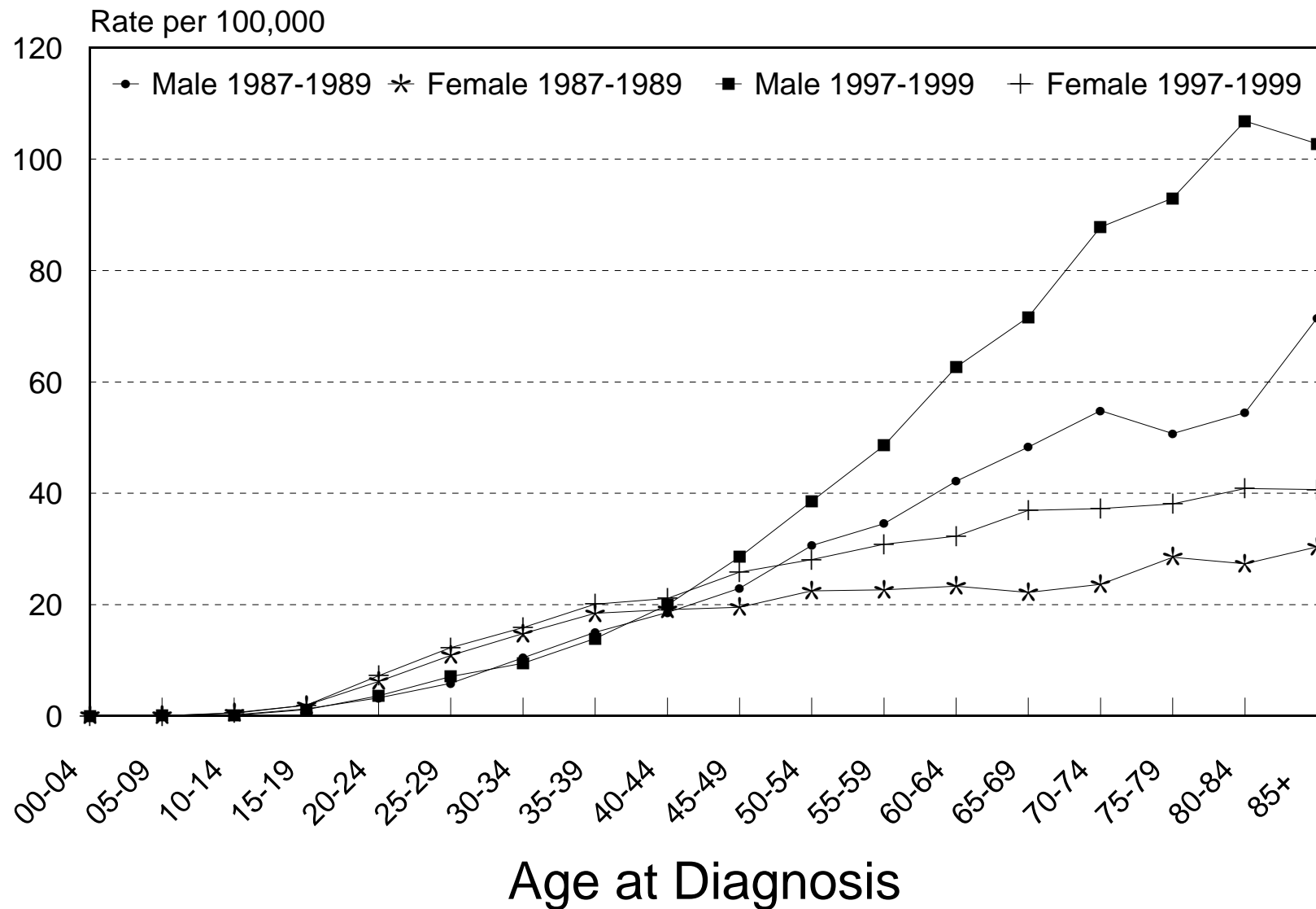
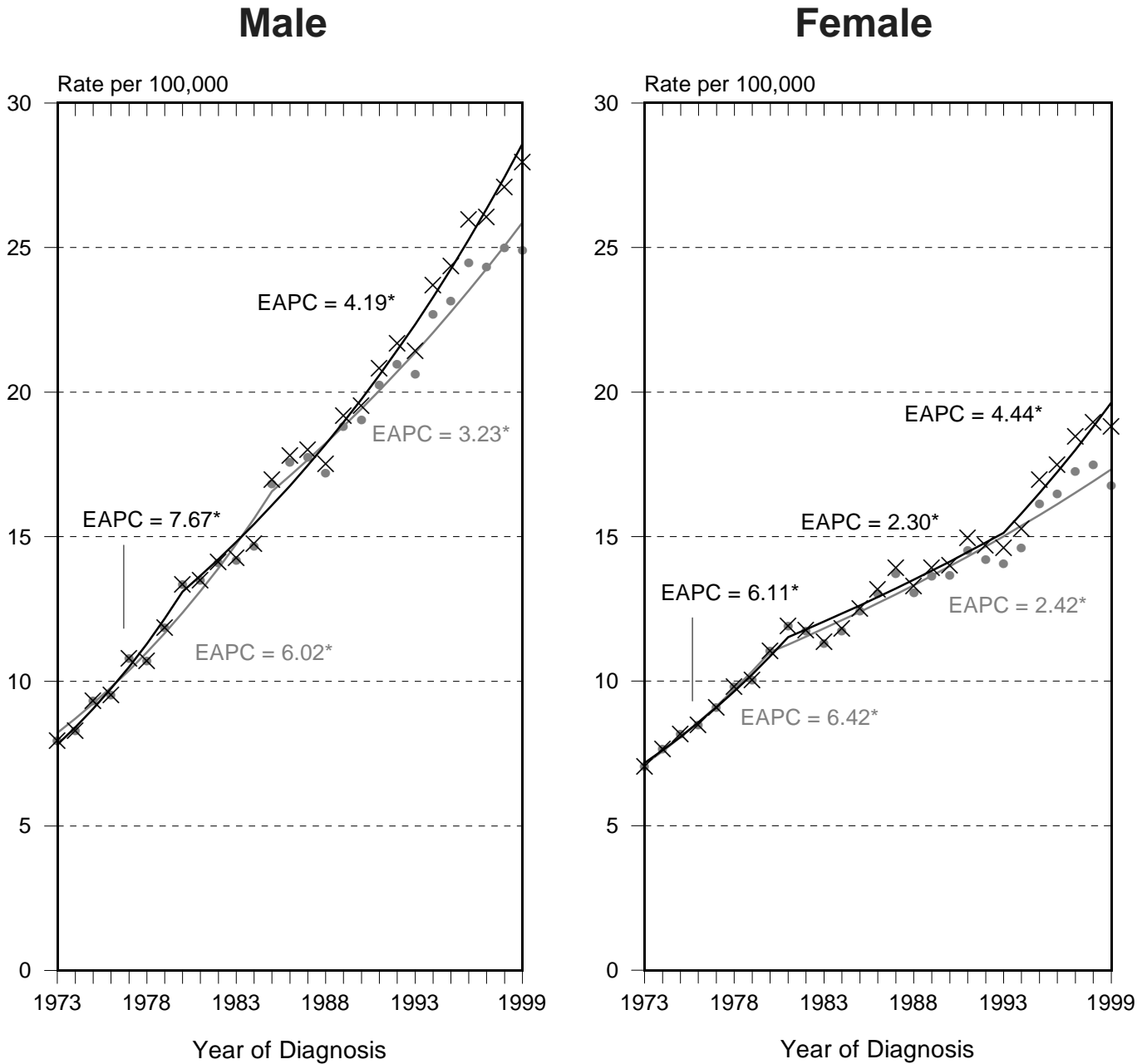


Figure XVI-2

Source: SEER 9 areas. Rates are age-adjusted to the 2000 U.S. standard million population by 5-year age groups.

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



• Incidence × Delay Adjusted Incidence

Source: SEER 9 areas.

<sup>+</sup> Rates are age-adjusted to the 2000 U.S. standard million population by 5-year age groups. 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 ( $p < 0.05$ ).