

Table XVI-1
MELANOMA OF THE SKIN (Invasive)

TRENDS IN SEER INCIDENCE^a AND U.S. MORTALITY^b USING THE JOINPOINT REGRESSION PROGRAM, 1975-2001
WITH UP TO THREE JOINPOINTS BY RACE AND SEX

		<u>Joinpoint Segment 1</u>		<u>Joinpoint Segment 2</u>		<u>Joinpoint Segment 3</u>		<u>Joinpoint Segment 4</u>	
		Year	APC	Year	APC	Year	APC	Year	APC
<u>SEER Cancer Incidence^a</u>									
All Races	Male and Female	1975-1981	6.0 ^c	1981-2001	2.8 ^c				
All Races	Male	1975-1985	5.6 ^c	1985-2001	3.1 ^c				
All Races	Female	1975-1981	5.1 ^c	1981-2001	2.2 ^c				
White	Male and Female	1975-1981	6.2 ^c	1981-2001	3.1 ^c				
White	Male	1975-1985	5.8 ^c	1985-2001	3.4 ^c				
White	Female	1975-1980	6.1 ^c	1980-2001	2.6 ^c				
Black	Male and Female	1975-2001	-0.1						
Black	Male	1975-2001	1.7						
Black	Female	1975-2001	-1.6 ^c						
<u>SEER Delay-Adjusted Incidence^a</u>									
White	Male and Female	1975-1980	6.5 ^c	1980-2001	3.6 ^c				
White	Male	1975-1981	7.1 ^c	1981-2001	4.1 ^c				
White	Female	1975-1981	6.1 ^c	1981-1993	2.2 ^c	1993-2001	4.4 ^c		
<u>U.S. Cancer Mortality^b</u>									
All Races	Male and Female	1975-1989	1.6 ^c	1989-2001	-0.1				
All Races	Male	1975-1990	2.2 ^c	1990-2001	0.1				
All Races	Female	1975-1988	0.8 ^c	1988-2001	-0.6 ^c				
White	Male and Female	1975-1989	1.7 ^c	1989-2001	0.0				
White	Male	1975-1990	2.3 ^c	1990-2001	0.2				
White	Female	1975-1988	1.0 ^c	1988-2001	-0.5 ^c				
Black	Male and Female	1975-2001	-0.5						
Black	Male	1975-2001	-1.2 ^c						
Black	Female	1975-2001	0.0						

Joinpoint Regression Program Version 2.7, September 2003, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>).

^a The APC is the Annual Percent Change based on rates age-adjusted to the 2000 U.S. standard population by 5-year age groups. Trends are from the SEER 9 areas.

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

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

Table XVI-2
MELANOMA OF THE SKIN (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, BY 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	7.5	8.7	9.3	8.2	-	-	-
1976	8.1	8.7	7.7	9.0	9.6	8.5	-	-	-
1977	8.9	9.8	8.2	9.8	10.8	9.1	-	-	-
1978	8.9	9.5	8.7	10.1	10.7	9.9	-	-	-
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	12.5	13.5	11.9	-	-	-
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	14.7	11.8	-	-	-
1985	12.7	15.1	11.1	14.2	16.9	12.5	-	-	-
1986	13.3	15.7	11.6	15.0	17.7	13.1	-	-	-
1987	13.6	15.9	12.1	15.4	17.9	13.7	-	-	-
1988	12.8	15.0	11.4	14.8	17.3	13.1	-	-	-
1989	13.7	16.4	11.9	15.8	18.8	13.7	-	-	-
1990	13.8	16.6	11.8	15.9	19.1	13.7	-	-	-
1991	14.6	17.6	12.5	16.9	20.3	14.6	-	-	-
1992	14.8	18.3	12.2	17.1	21.0	14.3	-	-	-
1993	14.5	18.0	12.0	16.8	20.7	14.1	-	-	-
1994	15.6	19.7	12.6	18.2	22.8	14.8	-	-	-
1995	16.3	20.2	13.6	19.0	23.2	16.2	1.7	-	-
1996	17.1	21.4	14.0	20.1	24.9	16.7	-	-	-
1997	17.5	21.5	14.7	20.5	24.8	17.5	-	-	-
1998	17.7	22.0	14.7	21.1	25.8	17.8	1.2	-	-
1999	17.9	22.4	14.7	21.3	26.2	17.8	1.2	-	-
2000	18.3	23.0	15.0	21.8	27.1	18.1	-	-	-
2001	18.7	23.1	15.6	22.6	27.4	19.3	-	-	-
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
All ages	18.0	22.4	15.0	21.4	26.3	18.1	1.0	1.5	0.7
Under 65	12.7	13.4	12.1	15.4	16.0	14.9	0.6	0.6	0.6
65 and over	55.0	84.6	35.0	63.6	97.6	40.5	3.9	7.9	-
All ages(IARC world std) ^b	13.3	15.7	11.6	16.0	18.5	14.1	0.7	0.9	0.6
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DIAGNOSIS:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	0.3	-	-	0.5	-	-	-	-	-
15-19	1.3	1.1	1.6	1.7	1.4	2.0	-	-	-
20-24	4.5	3.0	6.1	5.8	3.9	7.9	-	-	-
25-29	7.5	5.2	9.9	9.6	6.5	12.8	-	-	-
30-34	10.8	7.9	13.7	13.6	9.7	17.6	-	-	-
35-39	14.2	12.2	16.2	17.6	15.0	20.2	-	-	-
40-44	18.7	18.1	19.3	22.8	21.8	23.8	-	-	-
45-49	23.3	24.7	21.9	28.3	29.7	26.9	-	-	-
50-54	28.3	33.0	23.7	33.5	38.8	28.3	-	-	-
55-59	34.9	43.1	27.0	40.7	49.6	32.0	-	-	-
60-64	40.4	54.1	27.9	48.4	63.9	33.9	-	-	-
65-69	48.1	65.9	32.8	57.3	77.5	39.5	-	-	-
70-74	56.7	83.0	36.1	66.0	95.9	42.1	-	-	-
75-79	56.8	89.4	33.9	65.7	103.2	39.3	-	-	-
80-84	61.7	102.0	37.4	69.9	116.5	42.0	-	-	-
85+	55.7	100.7	36.7	61.5	114.3	40.0	-	-	-

^a 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.

^b SEER 9 areas. Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XVI-3
MELANOMA OF THE SKIN (Invasive)U.S. DEATH RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, 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:									
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
<u>AGE-ADJUSTED RATES, 1997-2001</u>									
AGE AT DEATH:									
All ages	2.7	3.9	1.8	3.0	4.4	2.0	0.5	0.5	0.5
Under 65	1.4	1.8	1.0	1.6	2.1	1.1	0.2	0.2	0.2
65 and over	11.7	18.3	7.4	12.8	20.1	8.0	2.7	2.6	2.7
All ages(IARC world std) ^b	1.8	2.5	1.2	2.0	2.8	1.3	0.3	0.3	0.3
<u>AGE-SPECIFIC RATES, 1997-2001</u>									
AGE AT DEATH:									
<1	-	-	-	-	-	-	-	-	-
1-4	-	-	-	-	-	-	-	-	-
5-9	-	-	-	-	-	-	-	-	-
10-14	-	-	-	-	-	-	-	-	-
15-19	0.0	0.1	-	0.1	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	0.4	0.4	-	-	-
30-34	0.7	0.8	0.5	0.8	0.9	0.7	-	-	-
35-39	1.1	1.3	0.9	1.3	1.6	1.1	-	-	-
40-44	1.8	2.2	1.3	2.1	2.6	1.6	0.2	-	-
45-49	2.7	3.4	1.9	3.1	4.0	2.3	0.3	-	-
50-54	3.7	4.8	2.6	4.2	5.5	3.0	0.3	-	-
55-59	4.7	6.6	2.9	5.4	7.5	3.4	0.6	-	-
60-64	6.2	8.7	3.9	7.1	9.9	4.5	1.0	-	1.0
65-69	8.1	11.8	4.8	9.1	13.3	5.4	1.4	1.4	1.3
70-74	10.3	15.4	6.3	11.3	17.0	6.9	2.2	2.3	2.1
75-79	12.5	19.3	7.7	13.6	21.1	8.4	2.3	-	2.3
80-84	14.8	24.3	9.3	15.9	26.2	9.9	4.5	4.7	4.5
85+	17.7	29.9	12.8	19.1	32.6	13.6	5.3	-	5.8

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

^b NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 25 cases for the time interval.

Table XVI-4
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
<u>5-YR RELATIVE SURVIVAL RATES</u>									
YEAR OF DIAGNOSIS:									
1960-1963 ^a	-	-	-	60	51	68	-	-	-
1970-1973 ^a	-	-	-	68	62	75	-	-	-
1974-1976 ^b	80.2	75.2	85.1	80.5	75.7	85.1	66.6 ^d	-	-
1977-1979 ^b	82.2	77.9	86.3	82.5	78.2	86.7	50.4 ^e	-	-
1980-1982 ^b	83.1	77.9	88.3	83.3	78.2	88.3	58.3 ^e	-	-
1983-1985 ^b	84.9	80.6	89.4	85.0	80.7	89.6	74.5 ^e	-	70.1 ^e
1986-1988 ^b	87.9	84.5	91.4	88.1	84.9	91.5	69.1 ^d	-	-
1989-1991 ^b	88.9	86.3	91.8	89.0	86.6	91.8	78.8 ^d	62.4 ^e	94.0 ^e
1992-1994 ^b	89.0	87.0	91.4	89.2	87.2	91.6	59.6 ^e	-	-
1995-2000 ^b	90.5 ^c	89.0 ^c	92.2 ^c	90.7 ^c	89.1 ^c	92.4 ^c	74.0 ^d	72.2 ^d	75.7 ^d
1995-2000 ^b									
ALL STAGES	90.5	89.0	92.2	90.7	89.1	92.4	74.0 ^d	72.2 ^d	75.7 ^d
LOCALIZED	97.6	98.0	97.3	97.6	97.9	97.3	90.6 ^d	90.8 ^e	90.4 ^d
REGIONAL	60.3	55.3	67.3	60.5	55.2	68.1	34.0 ^e	-	-
DISTANT	16.2	15.3	18.0	15.9	15.2	17.7	-	-	-
UNSTAGED	80.0	78.0	82.2	80.0	78.0	82.3	-	-	-
<u>STAGE DISTRIBUTION (%) 1995-2000^b</u>									
ALL STAGES									
Number of cases	21,045	11,499	9,546	20,700	11,323	9,377	123	66	57
Percent	100%	100%	100%	100%	100%	100%	100%	100%	100%
LOCALIZED	83	81	85	83	81	85	61	59	63
REGIONAL	11	12	9	10	12	9	21	21	21
DISTANT	3	4	3	3	4	2	13	15	11
UNSTAGED	4	4	3	4	4	3	5	5	5
<u>5-YR RELATIVE SURVIVAL RATES, 1995-2000^b</u>									
AGE AT DIAGNOSIS:									
<45	92.6	88.7	95.5	92.7	88.7	95.6	83.1 ^d	-	-
45-54	90.5	87.5	94.6	90.5	87.4	94.6	-	-	-
55-64	90.3	88.8	92.8	90.4	88.9	92.9	78.5 ^e	-	-
65-74	90.7	91.1	89.9	91.1	91.2	90.8	-	-	-
75+	85.8	88.4	79.7	86.2	88.9	80.2	-	-	-
Under 65	91.4	88.3	94.7	91.5	88.3	94.8	84.1 ^d	81.8 ^d	85.7 ^d
65 and over	88.9	91.2	85.6	89.4	91.4	86.3	50.3 ^e	53.1 ^e	-

^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. 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 2001.

^c

The difference in rates between 1974-1976 and 1995-2000 is statistically significant (p<.05).

^d

The standard error of the survival rate is between 5 and 10 percentage points.

^e

The standard error of the survival rate is greater than 10 percentage points.

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Statistic could not be calculated.

Table XVI-5
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
Relative Survival Rates (SEER ^b)																		
1-year	94.5	95.9	95.9	96.8	96.2	96.9	96.0	96.5	97.1	96.2	96.8	97.0	97.5	97.6	96.7	96.7	97.7	97.8
2-year	89.9	91.9	92.7	93.1	92.9	93.3	93.5	93.6	94.1	93.7	94.3	93.7	94.3	95.7	94.4	94.6	95.5	
3-year	86.2	88.2	89.3	90.8	90.2	91.1	90.8	91.6	91.8	91.4	92.4	91.5	92.6	93.9	92.2	92.6		
4-year	83.4	85.6	87.2	89.4	88.5	89.8	89.1	89.7	90.6	89.5	90.6	89.7	91.2	93.0	91.2			
5-year	82.1	83.7	85.5	87.8	87.0	88.8	87.6	89.2	89.7	88.5	90.0	88.6	90.0	91.9				
6-year	80.3	82.6	84.4	86.6	86.1	87.1	86.8	88.0	88.6	88.1	89.6	87.6	90.0					
7-year	79.2	81.9	83.3	86.3	85.1	86.9	85.7	87.6	87.9	88.0	88.3	87.0						
8-year	78.2	81.2	83.1	85.6	84.5	86.2	85.2	87.1	87.2	87.4	87.8							
9-year	77.6	80.6	82.7	85.6	84.1	85.9	85.1	86.9	87.0	87.0								
11-year	77.1	80.1	82.7	85.6	84.0	85.3	84.8	86.7	86.9									
11-year	76.5	79.8	82.7	85.6	82.8	84.9	84.5	86.4										
12-year	76.0	79.7	82.7	85.6	82.6	84.7	83.9											
13-year	75.7	79.3	82.7	85.4	82.6	84.4												
14-year	75.4	79.2	82.7	84.8	82.6													
15-year	75.0	79.1	82.7	84.7														
16-year	74.7	79.0	82.7															
17-year	74.6	78.6																
18-year	74.6																	
19-year	74.6																	
20-year	74.6																	

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

Table XVI-6
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
Relative Survival Rates (SEER ^b)																		
1-year	92.8	94.4	94.8	95.7	95.3	95.7	94.7	95.7	96.1	95.8	96.2	96.8	96.6	96.8	96.3	96.4	97.4	97.5
2-year	86.7	89.0	90.4	91.1	90.7	91.7	92.2	91.7	93.1	92.6	93.4	92.3	92.2	94.5	93.6	94.0	94.3	
3-year	82.4	84.5	86.2	88.1	87.7	88.9	88.8	89.4	90.6	90.0	90.8	89.5	90.0	92.4	90.8	92.0		
4-year	78.8	81.5	83.7	86.2	85.5	87.6	86.4	87.1	89.2	87.2	89.2	87.6	88.3	91.5	90.0			
5-year	77.5	78.8	81.5	84.0	83.2	86.5	84.5	86.1	88.2	85.9	88.4	86.7	86.8	90.4				
6-year	75.4	77.7	80.6	82.2	82.5	84.5	83.4	84.7	87.1	85.3	87.6	86.0	86.8					
7-year	73.8	77.1	79.5	81.6	81.0	84.0	81.9	84.7	86.4	85.3	85.6	84.9						
8-year	72.7	76.4	79.3	81.1	80.8	83.2	81.2	84.2	85.5	85.0	85.2							
9-year	71.9	75.5	78.9	81.1	80.4	82.4	80.8	84.2	85.1	84.2								
10-year	71.3	75.2	78.9	81.1	79.9	81.8	80.8	84.2	85.0									
11-year	70.3	74.8	78.9	81.1	78.8	81.8	80.8	84.1										
12-year	69.9	74.8	78.9	81.1	78.8	81.8	80.4											
13-year	69.4	74.6	78.9	81.0	78.8	81.8												
14-year	69.3	74.4	78.9	79.5	78.8													
15-year	68.9	74.4	78.9	79.4														
16-year	68.5	74.4	78.9															
17-year	68.4	74.4																
18-year	68.4																	
19-year	68.4																	
20-year	68.4																	

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

Table XVI-7
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
Relative Survival Rates (SEER ^b)																		
1-year	96.3	97.5	97.2	97.9	97.2	98.3	97.5	97.4	98.3	96.7	97.5	97.4	98.6	98.7	97.1	97.2	98.1	98.2
2-year	93.1	94.8	95.2	95.3	95.2	95.1	95.0	95.7	95.3	94.8	95.4	95.5	96.7	97.2	95.3	95.2	96.9	
3-year	89.8	91.9	92.8	93.9	92.9	93.4	93.2	94.2	93.3	93.1	94.3	94.0	95.5	95.7	93.7	93.2		
4-year	87.8	89.8	91.2	92.9	91.7	92.1	92.2	92.7	92.2	92.0	92.3	92.4	94.6	94.9	92.5			
5-year	86.5	88.7	89.7	91.9	91.1	91.2	91.2	92.7	91.4	91.4	91.9	90.9	93.5	93.7				
6-year	85.1	87.5	88.6	91.4	89.9	89.8	90.7	91.8	90.3	91.3	91.9	89.7	93.5					
7-year	84.3	86.6	87.4	91.3	89.5	89.8	89.7	91.0	89.6	90.8	91.4	89.5						
8-year	83.5	86.0	87.3	90.5	88.3	89.2	89.6	90.4	89.0	90.0	90.8							
9-year	82.8	85.5	86.7	90.5	88.0	89.2	89.6	89.8	89.0	90.0								
11-year	82.4	84.8	86.7	90.5	88.0	88.8	88.8	89.2	89.0									
10-year	82.1	84.5	86.7	89.7	87.0	87.8	88.2	88.9										
12-year	81.5	84.4	86.7	89.7	86.3	86.9	87.7											
13-year	81.4	83.8	86.7	89.7	85.9	86.9												
14-year	80.9	83.8	86.7	89.7	85.9													
15-year	80.4	83.3	86.7	89.7														
16-year	80.2	82.9	86.7															
17-year	80.0	82.6																
18-year	79.9																	
19-year	79.9																	
20-year	79.7																	

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

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

1999-2001

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	1.89	0.00	0.01	0.08	1.28
10	0.01	0.04	0.13	1.92	0.01	0.08	0.21	1.29
20	0.03	0.12	0.30	1.92	0.06	0.20	0.38	1.28
30	0.09	0.27	0.59	1.91	0.13	0.31	0.53	1.22
40	0.19	0.51	0.97	1.85	0.18	0.40	0.65	1.10
50	0.34	0.81	1.34	1.73	0.23	0.48	0.73	0.94
60	0.51	1.08	1.44	1.50	0.27	0.53	0.70	0.75

Lifetime Risk of Being Diagnosed = 1.89%
 Lifetime Risk of Dying = 0.35%

Lifetime Risk of Being Diagnosed = 1.28%
 Lifetime Risk of Dying = 0.19%

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	2.27	0.00	0.02	0.10	1.55
10	0.01	0.05	0.15	2.29	0.02	0.10	0.26	1.57
20	0.04	0.15	0.37	2.30	0.08	0.25	0.47	1.55
30	0.11	0.33	0.72	2.28	0.17	0.39	0.66	1.48
40	0.23	0.62	1.17	2.21	0.23	0.50	0.81	1.32
50	0.40	0.98	1.60	2.05	0.28	0.59	0.88	1.12
60	0.62	1.29	1.70	1.77	0.33	0.64	0.83	0.88

Lifetime Risk of Being Diagnosed = 2.27%
 Lifetime Risk of Dying = 0.40%

Lifetime Risk of Being Diagnosed = 1.55%
 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	0.10	0.00	0.00	0.01	0.06
10	0.00	0.00	0.01	0.10	0.00	0.00	0.01	0.06
20	0.00	0.01	0.01	0.10	0.00	0.01	0.02	0.06
30	0.01	0.01	0.02	0.10	0.01	0.02	0.02	0.06
40	0.00	0.02	0.05	0.10	0.01	0.02	0.03	0.05
50	0.02	0.05	0.07	0.10	0.01	0.02	0.04	0.04
60	0.04	0.07	0.09	0.10	0.02	0.03	0.04	0.04

Lifetime Risk of Being Diagnosed = 0.10%
 Lifetime Risk of Dying = 0.03%

Lifetime Risk of Being Diagnosed = 0.06%
 Lifetime Risk of Dying = 0.05%

Table XVI-9
MELANOMA OF THE SKIN (Invasive)

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

By Race/Ethnicity and Sex

Incidence^a

RACE/ETHNICITY	Rate 1997-2001			Trend 1992-2001		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	17.0	21.4	13.8	2.5 ^d	2.7 ^d	2.5 ^d
White	20.3	25.4	16.8	3.1 ^d	3.2 ^d	3.2 ^d
White Hispanic ^b	4.5	4.6	4.6	3.1 ^d	3.5 ^d	2.8
White Non-Hispanic ^b	23.2	28.4	19.5	3.2 ^d	3.1 ^d	3.4 ^d
Black	1.0	1.5	0.7	-0.7	-	-
Asian/Pacific Islander	1.6	1.7	1.5	3.0	1.7	4.5
Amer Ind/Alaska Nat	1.9	-	-	-	-	-
Hispanic ^b	4.3	4.4	4.5	3.3 ^d	3.4 ^d	3.3 ^d

Mortality^c

RACE/ETHNICITY	Rate 1997-2001			Trend 1992-2001		
	Rate per 100,000 persons			APC (%)		
	Total	Males	Females	Total	Males	Females
All Races	2.7	3.9	1.8	-0.2	0.0	-0.6 ^d
White	3.0	4.4	2.0	0.0	0.2	-0.4
White Hispanic ^b	0.9	1.2	0.7	0.0	0.6	-1.5
White Non-Hispanic ^b	3.2	4.7	2.1	0.1	0.3	-0.2
Black	0.5	0.5	0.5	-0.8	-0.7	-0.7
Asian/Pacific Islander	0.4	0.4	0.3	-4.0	-	-
Amer Ind/Alaska Nat	0.5	0.8	-	-	-	-
Hispanic ^b	0.8	1.1	0.6	0.0	0.5	-1.4

The APC is the Annual Percent Change over the time interval.

- Statistic not shown. Rate based on less than 25 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.

^a 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).

^b Hispanic and Non-Hispanic are not mutually exclusive from Whites, Blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics do not include cases from Detroit, Hawaii and Alaska Native Registry. For mortality, information is included for all states except Connecticut, Maine, Maryland, Oklahoma, New York, New Hampshire, North Dakota and Vermont.

^c Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).

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

Table XVI-10
MELANOMA OF THE SKIN (Invasive)

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

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER INCIDENCE RATES^a, 1997-2001</u>									
REGISTRY									
12 registries	17.0	21.4	13.8	20.3	25.4	16.8	1.0	1.5	0.7
11 registries	17.0	21.5	13.9	20.3	25.4	16.8	1.0	1.5	0.7
9 registries	18.0	22.4	15.0	21.4	26.3	18.1	1.0	1.5	0.7
San Francisco-Oakland	15.4	19.8	12.2	20.4	26.0	16.5	-	-	-
Connecticut	21.1	26.4	17.3	22.3	27.8	18.4	-	-	-
Metropolitan Detroit	16.0	20.7	12.9	20.2	25.6	16.8	0.9	-	-
Hawaii	15.5	20.8	10.9	50.3	65.9	35.8	-	-	-
Iowa	17.1	19.5	15.7	16.7	19.1	15.2	-	-	-
New Mexico	15.8	19.8	12.8	17.3	21.5	14.1	-	-	-
Seattle-Puget Sound	21.2	24.6	18.8	23.6	27.2	21.3	-	-	-
Utah	20.6	25.0	17.4	21.3	25.8	18.1	-	-	-
Metropolitan Atlanta	19.1	26.3	14.6	26.7	34.8	21.6	1.1	-	-
San Jose-Monterey	16.7	20.5	13.8	19.0	23.5	15.5	-	-	-
Los Angeles	14.0	18.8	10.6	17.3	23.0	13.3	1.0	1.4	-
<u>SEER DEATH RATES^b, 1997-2001</u>									
REGISTRY									
12 registries	2.3	3.4	1.6	2.8	4.0	1.9	0.3	-	0.3
11 registries	2.4	3.4	1.6	2.8	4.1	1.9	0.3	-	0.3
9 registries	2.5	3.5	1.7	2.9	4.1	2.0	0.3	-	-
San Francisco-Oakland	2.5	3.6	1.7	3.3	4.7	2.2	-	-	-
Connecticut	2.6	3.4	2.0	2.8	3.6	2.1	-	-	-
Metropolitan Detroit	1.9	2.9	1.2	2.4	3.6	1.5	-	-	-
Hawaii	1.5	2.0	1.1	4.2	5.8	-	-	-	-
Iowa	2.5	3.6	1.7	2.5	3.6	1.7	-	-	-
New Mexico	2.4	3.5	1.6	2.6	3.7	1.7	-	-	-
Seattle-Puget Sound	3.0	4.2	2.1	3.3	4.6	2.3	-	-	-
Utah	3.1	4.3	2.1	3.1	4.4	2.1	-	-	-
Metropolitan Atlanta	2.4	3.7	1.5	3.2	5.0	2.0	-	-	-
San Jose-Monterey	2.4	3.4	1.7	3.0	4.2	2.0	-	-	-
Los Angeles	2.0	3.0	1.3	2.6	3.8	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.

^a 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.

^b NCHS public use data file for the total US. 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 THE SKIN (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH^a RATES BY STATE, ALL RACES, 1997-2001

Males and Females

State	Rate	SE	Rank	PD
TOTAL U.S.	2.7	0.01		
High Five States				
Oklahoma	3.5 ^{bc}	0.14	(01)	29.6
Delaware	3.4 ^b	0.29	(02)	25.9
Kentucky	3.2 ^{bc}	0.13	(03)	18.5
Oregon	3.1	0.13	(04)	14.8
Colorado	3.1	0.13	(05)	14.8
Low Five States				
Louisiana	2.2 ^{bc}	0.10	(47)	-18.5
North Dakota	1.8 ^{bc}	0.23	(48)	-33.3
Alaska	1.7 ^b	0.31	(49)	-37.0
District of Columbia	1.6 ^{bc}	0.24	(50)	-40.7
Hawaii	1.5 ^{bc}	0.16	(51)	-44.4

Males

State	Rate	SE	Rank	PD
TOTAL U.S.	3.9	0.03		
High Five States				
Oklahoma	5.1 ^{bc}	0.26	(01)	30.8
Delaware	5.0 ^b	0.56	(02)	28.2
Vermont	4.8 ^b	0.60	(03)	23.1
Kentucky	4.6 ^b	0.23	(04)	17.9
Colorado	4.6 ^b	0.26	(05)	17.9
Low Five States				
Louisiana	3.0 ^{bc}	0.19	(47)	-23.1
District of Columbia	2.7 ^b	0.51	(48)	-30.8
North Dakota	2.4 ^{bc}	0.39	(49)	-38.5
Alaska	2.1 ^b	0.59	(50)	-46.2
Hawaii	2.0 ^{bc}	0.27	(51)	-48.7

Females

State	Rate	SE	Rank	PD
TOTAL U.S.	1.8	0.02		
High Five States				
Rhode Island	2.6 ^b	0.28	(01)	44.4
Oklahoma	2.3 ^b	0.15	(02)	27.8
Delaware	2.2 ^b	0.32	(03)	22.2
Massachusetts	2.1 ^b	0.11	(04)	16.7
Kentucky	2.1 ^b	0.14	(05)	16.7
Low Five States				
Michigan	1.5 ^b	0.08	(47)	-16.7
Alaska	1.4 ^b	0.36	(48)	-22.2
North Dakota	1.3 ^b	0.26	(49)	-27.8
Hawaii	1.1 ^{bc}	0.18	(50)	-38.9
District of Columbia	0.8 ^{bc}	0.22	(51)	-55.6

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

^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.
^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<=.0002).
 SE Standard error of the rate.
 PD Percent difference between state rate and total U.S. rate.

Table XVI-12
MELANOMA OF THE SKIN (Invasive)

Estimated United States Cancer Prevalence Counts^a on January 1, 2001
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 <11 ^e	0 to <26 ^e	>=26 ^g	Complete ^h
Race/Sex									
All Races ^b	194,560	133,626	99,181	67,971	43,512	350,172	544,920	52,891	597,811
Males	103,566	68,108	46,919	30,234	18,008	182,537	269,150	18,561	287,711
Females	90,994	65,518	52,262	37,737	25,504	167,635	275,770	34,330	310,100
White ^b	186,420	127,426	94,117	64,754	41,900	334,906	520,314	49,881	570,195
Males	99,434	65,089	44,825	28,807	17,292	175,034	257,637	17,662	275,299
Females	86,986	62,337	49,292	35,947	24,608	159,872	262,677	32,219	294,896
Black ^b	817	534	384	226	76	1,422	2,084	160	2,244
Males	370	281	131	50	18	678	856	60	916
Females	447	253	253	176	58	744	1,228	100	1,328
Asian/Pacific Islander ^c	562	258	+	+	+	860	+	+	+
Males	256	117	+	+	+	386	+	+	+
Females	306	141	+	+	+	474	+	+	+
Hispanic ^d	3,050	1,857	+	+	+	5,234	+	+	+
Males	1,220	704	+	+	+	2,044	+	+	+
Females	1,830	1,153	+	+	+	3,190	+	+	+

Estimated prevalence percent^a on January 1, 2001, 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	0.0981%	0.0003%	0.0021%	0.0228%	0.0686%	0.1313%	0.1983%	0.2595%	0.3142%	0.3002%	0.1035%
Males	0.1046%	0.0003%	0.0017%	0.0159%	0.0522%	0.1236%	0.2235%	0.3394%	0.4458%	0.4678%	0.1209%
Females	0.0917%	0.0003%	0.0025%	0.0301%	0.0855%	0.1389%	0.1743%	0.1888%	0.2156%	0.2113%	0.0916%
White ^c	0.1201%	0.0003%	0.0025%	0.0278%	0.0835%	0.1595%	0.2348%	0.3087%	0.3649%	0.3354%	0.1226%
Males	0.1274%	0.0004%	0.0019%	0.0187%	0.0621%	0.1480%	0.2615%	0.3999%	0.5165%	0.5326%	0.1415%
Females	0.1128%	-	0.0032%	0.0376%	0.1064%	0.1711%	0.2087%	0.2259%	0.2501%	0.2325%	0.1101%
Black ^c	0.0037%	-	-	0.0011%	0.0027%	0.0035%	0.0079%	0.0172%	0.0151%	0.0213%	0.0049%
Males	0.0038%	-	-	-	0.0021%	0.0040%	0.0080%	0.0229%	0.0225%	-	0.0057%
Females	0.0035%	-	-	-	0.0033%	0.0030%	0.0077%	0.0126%	0.0103%	0.0222%	0.0042%
Asian/Pacific Islander ^c	0.0075%	-	-	0.0024%	0.0053%	0.0075%	0.0152%	0.0208%	0.0252%	0.0348%	0.0083%
Males	0.0072%	-	-	0.0029%	0.0024%	0.0054%	0.0163%	0.0249%	0.0311%	0.0417%	0.0087%
Females	0.0079%	-	-	0.0020%	0.0081%	0.0093%	0.0143%	0.0175%	0.0208%	0.0301%	0.0082%
Hispanic ^d	0.0134%	-	-	0.0034%	0.0131%	0.0275%	0.0444%	0.0494%	0.0759%	0.0887%	0.0229%
Males	0.0100%	-	-	0.0019%	0.0070%	0.0203%	0.0360%	0.0484%	0.0950%	0.0995%	0.0213%
Females	0.0169%	-	-	0.0051%	0.0199%	0.0347%	0.0520%	0.0502%	0.0623%	0.0829%	0.0251%

^a US 2001 cancer prevalence counts are based on 2001 cancer prevalence proportions from the SEER registries and 1/1/2001 US population estimates based on the average of 2000 and 2001 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 d) SEER 11 Areas excluding Hawaii and Detroit.

^e Maximum limited-duration prevalence: 26 years for 1975-2001 SEER 9 data; 11 years for 1990-2001 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 26 years or more 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 <26 and >=26.

- 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

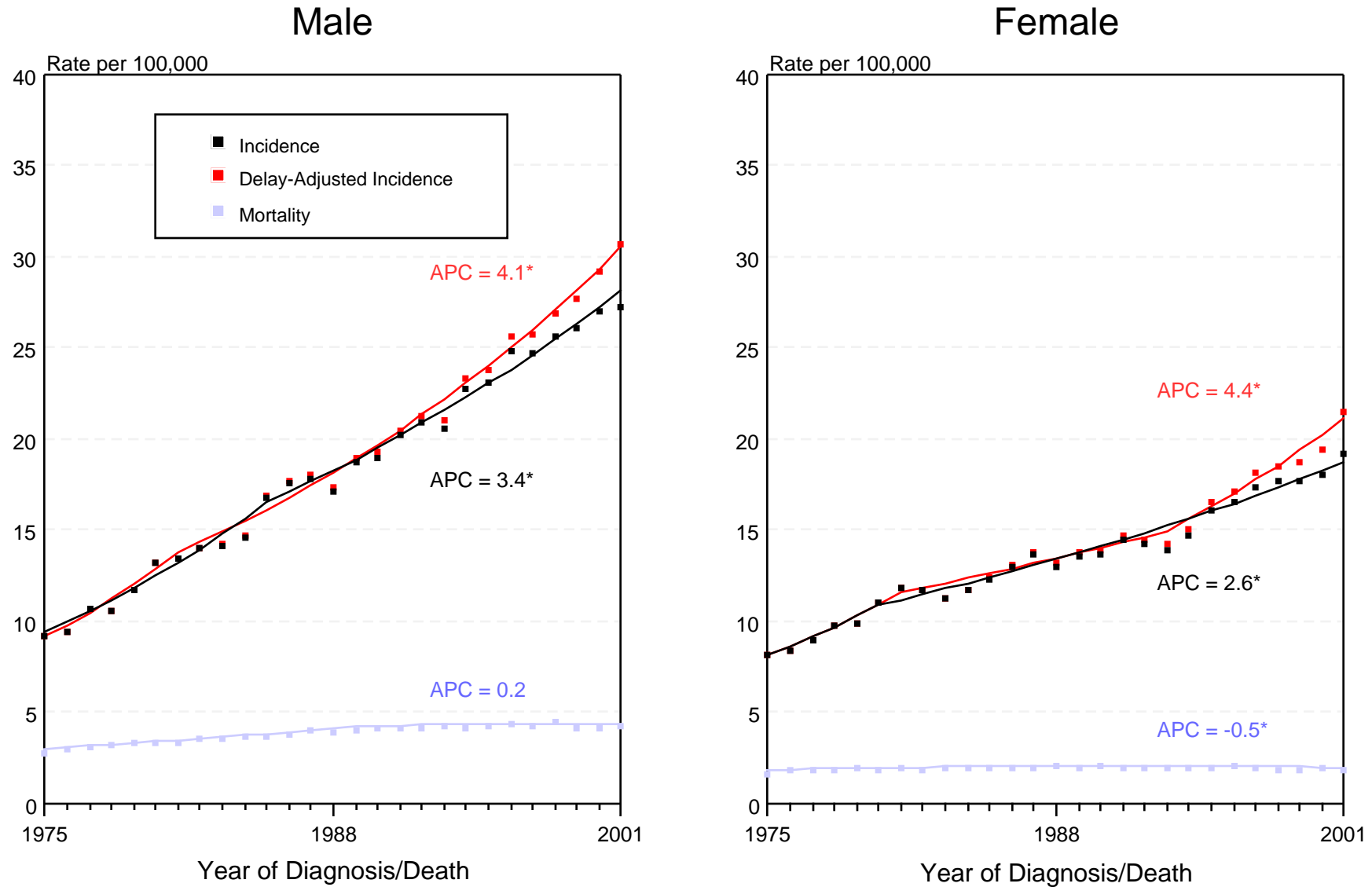


Figure XVI-1

+ Source: SEER 9 areas and NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US standard million population by 5-year age groups. Regression lines and APCs are calculated using the Joinpoint Regression Program Version 2.7, September 2003, 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 ($p < 0.05$).

Melanoma of the Skin

SEER Incidence 1989-1991 vs 1999-2001

White, by Age and Sex

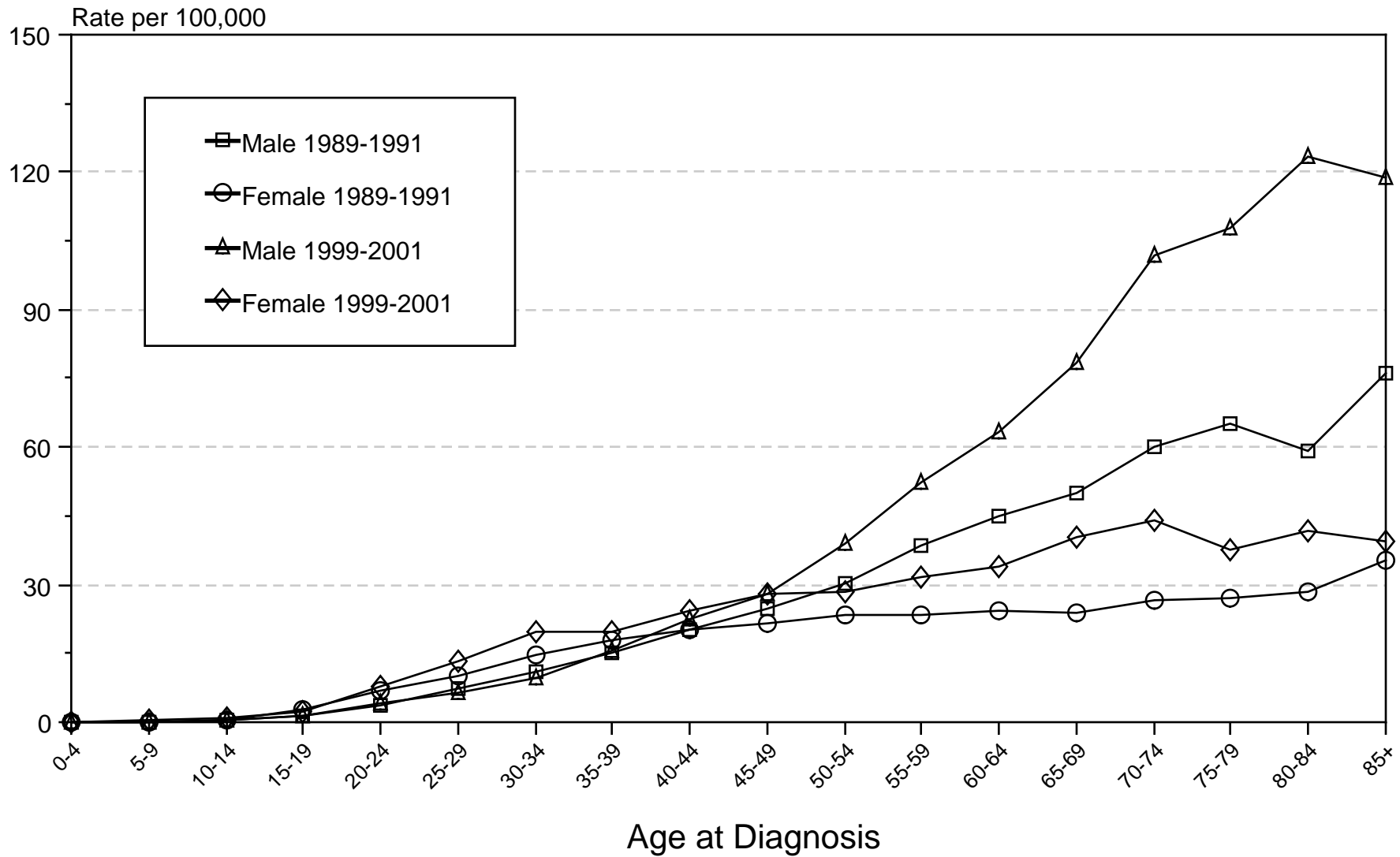


Figure XVI-2

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