

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

|  | All Races |      | Whites  |      | Blacks  |       |
|--|-----------|------|---------|------|---------|-------|
|  | Year      | APC  | Year    | APC  | Year    | APC   |
| <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.  
<sup>a</sup>Trends are from the SEER 9 areas.  
<sup>b</sup>Trends are from the NCHS public use data file.  
★The APC is significantly different from zero ( $p < .05$ ).

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>ø</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    | -      | -     | -       |

<sup>\$</sup> 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.

<sup>ø</sup> 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<sup>a</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                               | 1.9       | 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     | 0.5    | 0.6   | 0.5     |
| 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    | 0.6   | 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     | 0.5    | 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     | 0.6    | 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     | 0.6    | 0.6   | 0.4     |
| 1993                               | 2.7       | 3.9   | 1.9     | 3.0    | 4.3   | 2.1     | 0.4    | 0.6   | 0.4     |
| 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     | 0.5    | 0.5   | 0.4     |
| 1997                               | 2.8       | 4.0   | 1.9     | 3.1    | 4.4   | 2.1     | 0.5    | 0.5   | 0.6     |
| 1998                               | 2.8       | 4.1   | 1.8     | 3.1    | 4.6   | 2.0     | 0.4    | 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> |           |       |         |        |       |         |        |       |         |
| AGE AT DEATH:                      |           |       |         |        |       |         |        |       |         |
| 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> |           |       |         |        |       |         |        |       |         |
| 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    | 0.2   | 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     |

<sup>a</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, unless noted.

<sup>ö</sup> 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           |
| <b>5-YR RELATIVE SURVIVAL RATES</b>                      |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| <b>YEAR OF DIAGNOSIS:</b>                                |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 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 <sup>†</sup> | -                 | -                 |
| 1977-79 <sup>b</sup>                                     | 82.0              | 77.7              | 86.1              | 82.4              | 78.0              | 86.5              | 50.4 <sup>†</sup> | -                 | -                 |
| 1980-82 <sup>b</sup>                                     | 83.0              | 77.8              | 88.3              | 83.2              | 78.0              | 88.3              | 60.9 <sup>†</sup> | -                 | -                 |
| 1983-85 <sup>b</sup>                                     | 84.7              | 80.4              | 89.2              | 84.8              | 80.5              | 89.4              | 74.4 <sup>†</sup> | -                 | 70.1 <sup>†</sup> |
| 1986-88 <sup>b</sup>                                     | 87.7              | 84.4              | 91.2              | 87.9              | 84.7              | 91.3              | 69.0 <sup>†</sup> | -                 | -                 |
| 1989-91 <sup>b</sup>                                     | 88.6              | 86.0              | 91.5              | 88.7              | 86.3              | 91.5              | 79.1 <sup>†</sup> | 64.5 <sup>†</sup> | 94.0 <sup>†</sup> |
| 1992-98 <sup>b</sup>                                     | 89.1 <sup>‡</sup> | 87.0 <sup>‡</sup> | 91.5 <sup>‡</sup> | 89.3 <sup>‡</sup> | 87.1 <sup>‡</sup> | 91.8 <sup>‡</sup> | 65.5 <sup>†</sup> | 69.4 <sup>†</sup> | 61.9 <sup>†</sup> |
| <b>1992-98<sup>b</sup></b>                               |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| ALL STAGES   | 89.1              | 87.0              | 91.5              | 89.3              | 87.1              | 91.8              | 65.5 <sup>†</sup> | 69.4 <sup>†</sup> | 61.9 <sup>†</sup> |
| LOCALIZED  | 96.2              | 95.8              | 96.8              | 96.3              | 95.8              | 96.8              | 85.9 <sup>†</sup> | 91.7 <sup>†</sup> | 80.0 <sup>†</sup> |
| 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              | -                 | -                 | -                 |
| <b>STAGE DISTRIBUTION (%) 1992-98<sup>b</sup></b>        |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 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                 |
| <b>5-YR RELATIVE SURVIVAL RATES, 1992-98<sup>b</sup></b> |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| <b>AGE AT DIAGNOSIS:</b>                                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| <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 <sup>†</sup> | -                 | -                 |
| 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 <sup>†</sup> | -                 | -                 |
| Under 65   | 90.7              | 88.0              | 93.7              | 90.8              | 88.0              | 93.8              | 69.4 <sup>†</sup> | 72.2 <sup>†</sup> | 66.2 <sup>†</sup> |
| 65 and over  | 85.6              | 85.4              | 86.0              | 86.0              | 85.8              | 86.4              | 60.5 <sup>†</sup> | -                 | -                 |

<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 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.  
<sup>‡</sup> 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.

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 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Incidence</b>                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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 |
| <b>Mortality</b>                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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  |
| <b>Relative Survival Rates (SEER<sup>a</sup>)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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 | 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 | 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 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Incidence</b>                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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 |
| <b>Mortality</b>                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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  |
| <b>Relative Survival Rates (SEER<sup>a</sup>)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Incidence</b>                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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 |
| <b>Mortality</b>                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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  | 1.9  | 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  | 1.9  | 1.7  | 1.7  | 1.6  | 1.6  | 1.6  | 1.8  | 1.7  |
| <b>Relative Survival Rates (SEER<sup>a</sup>)</b> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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 | 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<br>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<br>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<br>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>

|                        | Rate 1992-1999<br>Rate per 100,000 persons |       |         | Trend 1992-1999<br>EAPC (%) |       |         |
|------------------------|--|-------|---------|-----------------------------|-------|---------|
|                        | Total                                      | Males | Females | Total                       | Males | Females |
| <b>RACE/ETHNICITY</b>  |  |       |         |                             |       |         |
| All Races              | 15.5                                       | 19.5  | 12.7    | 2.8*                        | 2.9*  | 2.7*    |
| 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>o</sup>  | 3.6  | 3.7   | 3.7     | 4.0*                        | 4.3*  | 3.8     |

Mortality<sup>♦</sup>

|                        | Rate 1992-1999<br>Rate per 100,000 persons |       |         | Trend 1992-1999<br>EAPC (%) |       |         |
|------------------------|--|-------|---------|-----------------------------|-------|---------|
|                        | Total                                      | Males | Females | Total                       | Males | Females |
| <b>RACE/ETHNICITY</b>  |  |       |         |                             |       |         |
| All Races              | 2.7  | 3.9   | 1.8     | 0.1                         | 0.5   | -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>o</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>o</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).

\* 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 |
| <b>SEER INCIDENCE RATES\$, 1995-99</b> |           |       |         |        |       |         |        |       |         |
| 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    | -     | -       |
| <b>SEER DEATH RATESä, 1995-99</b>      |           |       |         |        |       |         |        |       |         |
| 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>a</sup> RATES BY STATE, 1995-99

All Races, Males and Females

| State                | Rate               | SE   | Rank | PD    | State          | Rate               | SE   | Rank | PD    |
|----------------------|--------------------|------|------|-------|----------------|--------------------|------|------|-------|
| TOTAL U.S.           | 2.7                | 0.01 |      |       |                |                    |      |      |       |
| High Five States     |                    |      |      |       |                |                    |      |      |       |
| Oklahoma             | 3.5 <sup>⊕</sup> * | 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 <sup>⊕</sup>   | 0.11 | (47) | -14.8 |                |                    |      |      |       |
| Michigan             | 2.3 <sup>⊕</sup>   | 0.07 | (48) | -14.8 |                |                    |      |      |       |
| North Dakota         | 2.1*               | 0.25 | (49) | -22.2 |                |                    |      |      |       |
| Hawaii               | 1.5 <sup>⊕</sup> * | 0.16 | (50) | -44.4 |                |                    |      |      |       |
| District of Columbia | 1.2 <sup>⊕</sup> * | 0.21 | (51) | -55.6 |                |                    |      |      |       |
| 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 <sup>⊕</sup>   | 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 <sup>⊕</sup> * | 0.21 | (51) | -55.6 | North Dakota   | 2.1*               | 0.25 | (49) | -22.2 |
| Florida              | 3.0 <sup>⊕</sup>   | 0.06 | (17) | 11.1  | Ohio           | 2.7                | 0.07 | (32) | 0.0   |
| Georgia              | 2.7                | 0.09 | (35) | 0.0   | Oklahoma       | 3.5 <sup>⊕</sup> * | 0.14 | (01) | 29.6  |
| Hawaii               | 1.5 <sup>⊕</sup> * | 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 <sup>⊕</sup>   | 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 <sup>⊕</sup>   | 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 <sup>⊕</sup>   | 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>a</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.

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>a</sup> RATES BY STATE, 1995-99

All Races, Males

| State                | Rate  | SE   | Rank | PD    | 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   |                |       |      |      |       |

<sup>a</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.

⊕ 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 DEATH<sup>a</sup> RATES BY STATE, 1995-99

All Races, Females

| State                | Rate               | SE   | Rank | PD    | State          | Rate               | SE   | Rank | PD    |
|----------------------|--------------------|------|------|-------|----------------|--------------------|------|------|-------|
| TOTAL U.S.           | 1.8                | 0.02 |      |       | Montana        | 1.8                | 0.27 | (36) | 0.0   |
| High Five States     |                    |      |      |       | Nebraska       | 1.6                | 0.19 | (46) | -11.1 |
| Oklahoma             | 2.5 <sup>⊕</sup> * | 0.16 | (01) | 38.9  | Nevada         | 2.0                | 0.22 | (19) | 11.1  |
| South Dakota         | 2.5 <sup>⊕</sup> * | 0.36 | (02) | 38.9  | New Hampshire  | 2.2 <sup>⊕</sup>   | 0.27 | (07) | 22.2  |
| Wyoming              | 2.4 <sup>⊕</sup> * | 0.45 | (03) | 33.3  | New Jersey     | 2.0                | 0.09 | (17) | 11.1  |
| Rhode Island         | 2.3 <sup>⊕</sup> * | 0.28 | (04) | 27.8  | New Mexico     | 1.6                | 0.19 | (47) | -11.1 |
| West Virginia        | 2.2 <sup>⊕</sup> * | 0.20 | (05) | 22.2  | New York       | 1.6 <sup>⊕</sup>   | 0.06 | (45) | -11.1 |
| Low Five States      |                    |      |      |       | North Carolina | 2.0                | 0.10 | (20) | 11.1  |
| New Mexico           | 1.6                | 0.19 | (47) | -11.1 | North Dakota   | 1.7                | 0.29 | (42) | -5.6  |
| Michigan             | 1.5 <sup>⊕</sup> * | 0.07 | (48) | -16.7 | Ohio           | 1.8                | 0.08 | (30) | 0.0   |
| Louisiana            | 1.4 <sup>⊕</sup> * | 0.11 | (49) | -22.2 | Oklahoma       | 2.5 <sup>⊕</sup> * | 0.16 | (01) | 38.9  |
| Hawaii               | 1.0 <sup>⊕</sup> * | 0.18 | (50) | -44.4 | Oregon         | 2.1 <sup>⊕</sup>   | 0.15 | (10) | 16.7  |
| District of Columbia | 0.8 <sup>⊕</sup> * | 0.21 | (51) | -55.6 | Pennsylvania   | 1.9                | 0.07 | (25) | 5.6   |
| Florida              | 1.8                | 0.06 | (37) | 0.0   | Rhode Island   | 2.3 <sup>⊕</sup>   | 0.28 | (04) | 27.8  |
| Georgia              | 1.8                | 0.10 | (38) | 0.0   | South Carolina | 1.6                | 0.13 | (43) | -11.1 |
| Hawaii               | 1.0 <sup>⊕</sup> * | 0.18 | (50) | -44.4 | South Dakota   | 2.5 <sup>⊕</sup>   | 0.36 | (02) | 38.9  |
| Idaho                | 2.0                | 0.26 | (14) | 11.1  | Tennessee      | 2.2 <sup>⊕</sup>   | 0.12 | (09) | 22.2  |
| Illinois             | 1.6                | 0.07 | (44) | -11.1 | Texas          | 1.8                | 0.06 | (33) | 0.0   |
| Indiana              | 1.9                | 0.11 | (28) | 5.6   | Utah           | 2.1 <sup>⊕</sup>   | 0.23 | (11) | 16.7  |
| Iowa                 | 1.9                | 0.15 | (22) | 5.6   | Vermont        | 2.2 <sup>⊕</sup>   | 0.37 | (08) | 22.2  |
| Kansas               | 2.0                | 0.17 | (18) | 11.1  | Virginia       | 1.9                | 0.10 | (27) | 5.6   |
| Kentucky             | 1.9                | 0.13 | (24) | 5.6   | Washington     | 2.1 <sup>⊕</sup>   | 0.12 | (12) | 16.7  |
| Louisiana            | 1.4 <sup>⊕</sup> * | 0.11 | (49) | -22.2 | West Virginia  | 2.2 <sup>⊕</sup>   | 0.20 | (05) | 22.2  |
| Maine                | 2.0                | 0.24 | (16) | 11.1  | Wisconsin      | 1.8                | 0.11 | (35) | 0.0   |
| Maryland             | 1.7                | 0.11 | (40) | -5.6  | Wyoming        | 2.4 <sup>⊕</sup>   | 0.45 | (03) | 33.3  |
| Massachusetts        | 2.2 <sup>⊕</sup> * | 0.11 | (06) | 22.2  |                |                    |      |      |       |
| Michigan             | 1.5 <sup>⊕</sup> * | 0.07 | (48) | -16.7 |                |                    |      |      |       |
| Minnesota            | 1.7                | 0.12 | (39) | -5.6  |                |                    |      |      |       |
| Mississippi          | 1.7                | 0.15 | (41) | -5.6  |                |                    |      |      |       |
| Missouri             | 1.9                | 0.11 | (21) | 5.6   |                |                    |      |      |       |

<sup>a</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.

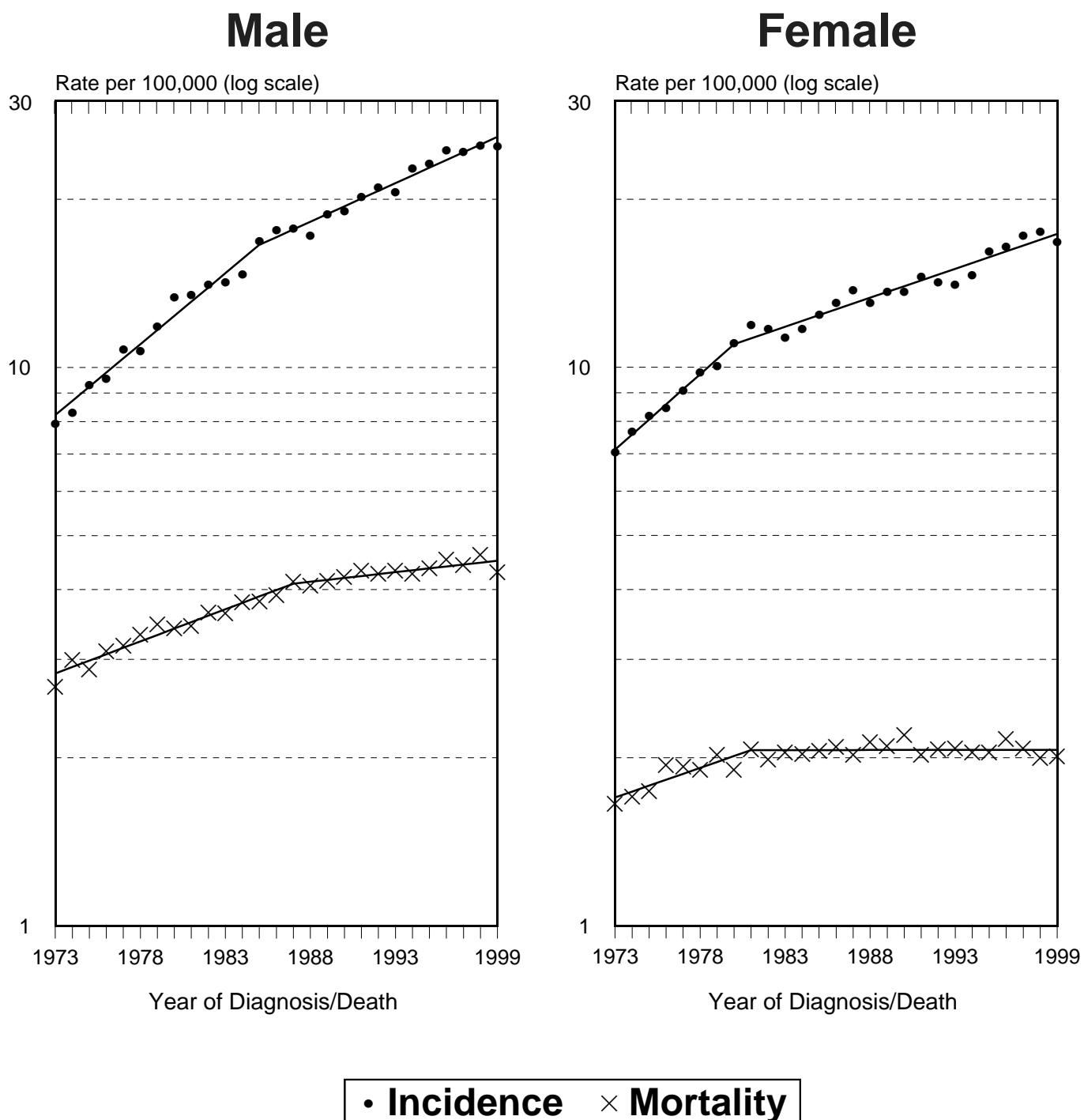
PD Percent difference between state rate and total U.S. rate.

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

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

Figure XVI-1

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

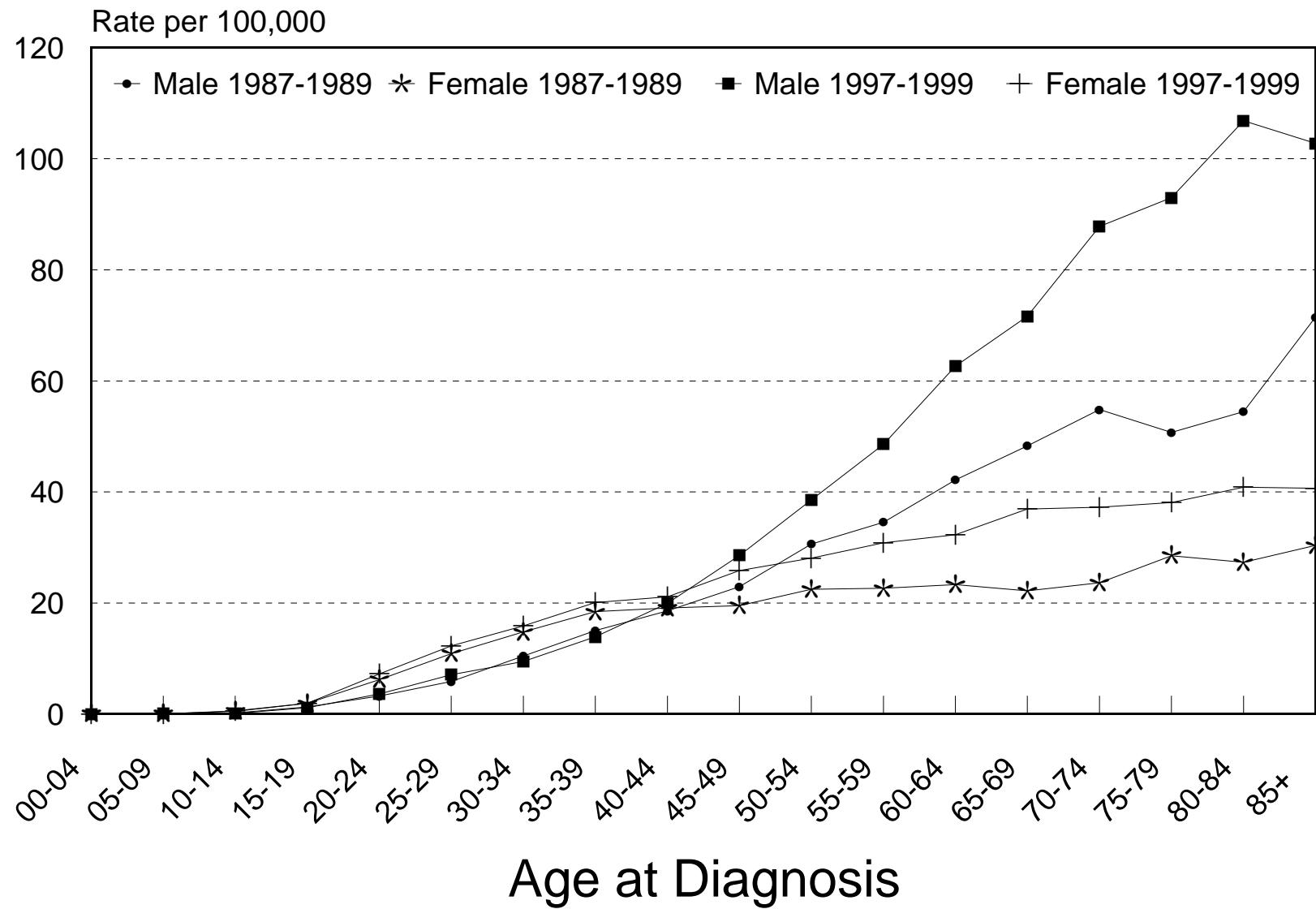


<sup>+</sup> Source: SEER 9 areas and NCHS public use data file. Rates are age-adjusted to the 2000 U.S. standard million population by 5-year age groups. Regression lines are calculated using the Joinpoint Regression Program.

# Melanoma of the Skin

## SEER Incidence by Age and Sex

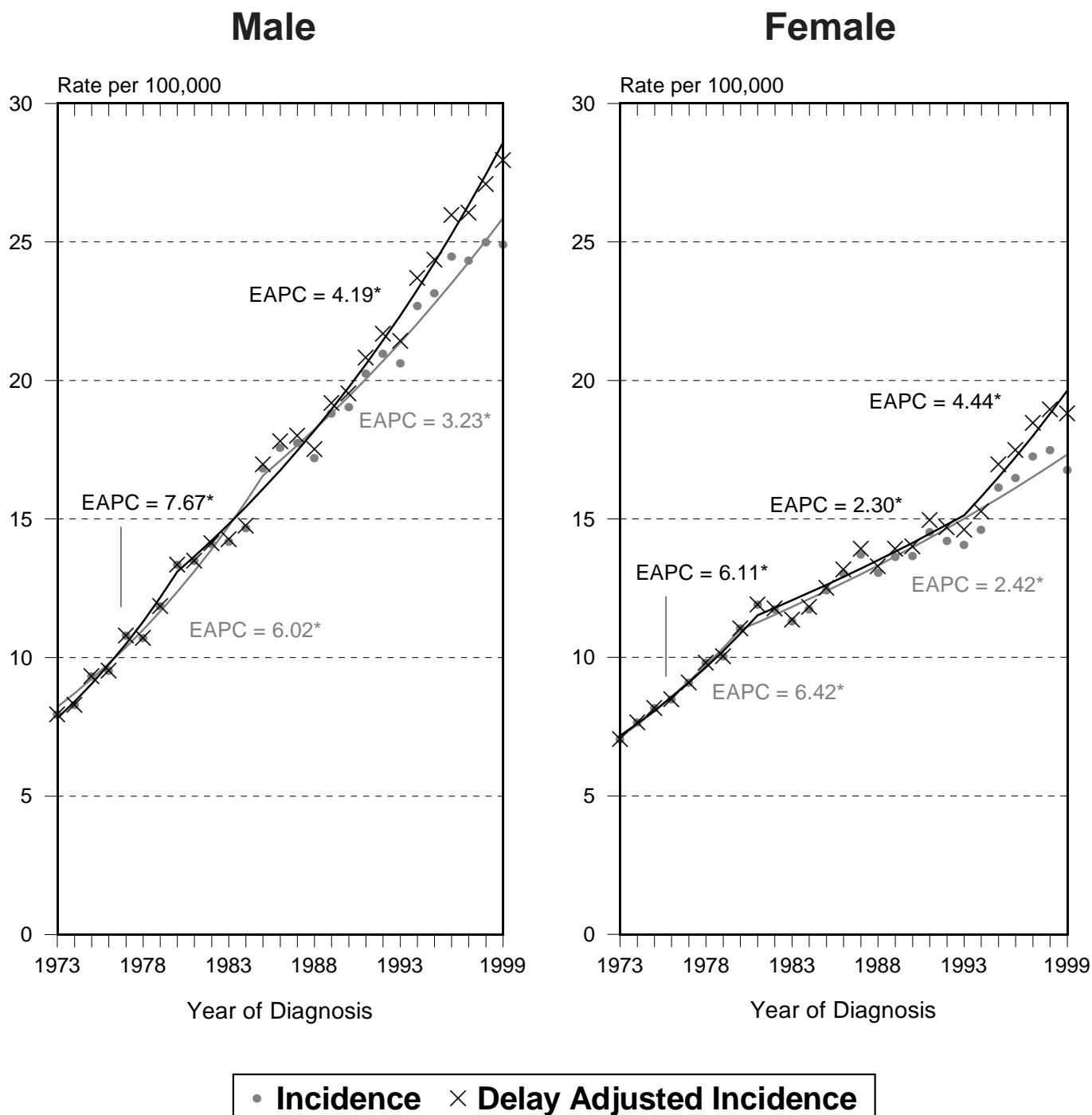
### Whites 1987-1989 vs. 1997-1999



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

Figure XVI-3

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



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 ( $p < 0.05$ ).