

Table XIV-1  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (Invasive)

TRENDS IN SEER INCIDENCE<sup>a</sup> AND U.S. MORTALITY<sup>b</sup> USING THE JOINPOINT REGRESSION PROGRAM, 1975-2002  
WITH UP TO THREE JOINPOINTS BY RACE AND SEX

|  |                 | Joinpoint Segment 1 |                  | Joinpoint Segment 2 |                  | Joinpoint Segment 3 |                  | Joinpoint Segment 4 |                  |
|--|-----------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|
|  |                 | Year                | APC              | Year                | APC              | Year                | APC              | Year                | APC              |
| <u>SEER Cancer Incidence<sup>a</sup></u>         |                 |                     |                  |                     |                  |                     |                  |                     |                  |
| All Races  | Male and Female | 1975-1984           | 1.4              | 1984-1999           | 4.6 <sup>c</sup> | 1999-2002           | -2.4             |                     |                  |
| All Races  | Male            | 1975-1984           | 1.7              | 1984-1999           | 4.5 <sup>c</sup> | 1999-2002           | -2.1             |                     |                  |
| All Races  | Female          | 1975-1983           | 0.6              | 1983-1999           | 4.3 <sup>c</sup> | 1999-2002           | -3.2             |                     |                  |
| White  | Male and Female | 1975-1986           | 1.4 <sup>c</sup> | 1986-1999           | 5.0 <sup>c</sup> | 1999-2002           | -3.6             |                     |                  |
| White  | Male            | 1975-1987           | 1.9 <sup>c</sup> | 1987-1999           | 5.1 <sup>c</sup> | 1999-2002           | -4.3             |                     |                  |
| White  | Female          | 1975-1985           | 0.8              | 1985-1999           | 4.1 <sup>c</sup> | 1999-2002           | -3.5             |                     |                  |
| Black  | Male and Female | 1975-2002           | 2.8 <sup>c</sup> |                     |                  |                     |                  |                     |                  |
| Black  | Male            | 1975-2002           | 3.1 <sup>c</sup> |                     |                  |                     |                  |                     |                  |
| Black  | Female          | 1975-2002           | 2.3 <sup>c</sup> |                     |                  |                     |                  |                     |                  |
| <u>SEER Delay-Adjusted Incidence<sup>a</sup></u> |                 |                     |                  |                     |                  |                     |                  |                     |                  |
| All Races  | Male and Female | 1975-1984           | 1.4              | 1984-1999           | 4.7 <sup>c</sup> | 1999-2002           | -0.8             |                     |                  |
| All Races  | Male            | 1975-1984           | 1.7              | 1984-1999           | 4.5 <sup>c</sup> | 1999-2002           | -0.7             |                     |                  |
| All Races  | Female          | 1975-1983           | 0.5              | 1983-1999           | 4.3 <sup>c</sup> | 1999-2002           | -1.4             |                     |                  |
| White  | Male and Female | 1975-1986           | 1.4 <sup>c</sup> | 1986-1999           | 5.1 <sup>c</sup> | 1999-2002           | -2.0             |                     |                  |
| White  | Male            | 1975-1987           | 1.8 <sup>c</sup> | 1987-1998           | 5.5 <sup>c</sup> | 1998-2002           | -1.0             |                     |                  |
| White  | Female          | 1975-1985           | 0.8              | 1985-1999           | 4.2 <sup>c</sup> | 1999-2002           | -1.6             |                     |                  |
| Black  | Male and Female | 1975-2002           | 3.0 <sup>c</sup> |                     |                  |                     |                  |                     |                  |
| Black  | Male            | 1975-2002           | 3.3 <sup>c</sup> |                     |                  |                     |                  |                     |                  |
| Black  | Female          | 1975-2002           | 2.5 <sup>c</sup> |                     |                  |                     |                  |                     |                  |
| <u>U.S. Cancer Mortality<sup>b</sup></u>         |                 |                     |                  |                     |                  |                     |                  |                     |                  |
| All Races  | Male and Female | 1975-1978           | -0.8             | 1978-1987           | 1.7 <sup>c</sup> | 1987-1995           | 4.0 <sup>c</sup> | 1995-2002           | 1.4 <sup>c</sup> |
| All Races  | Male            | 1975-1986           | 1.7 <sup>c</sup> | 1986-1995           | 3.9 <sup>c</sup> | 1995-2002           | 1.6 <sup>c</sup> |                     |                  |
| All Races  | Female          | 1975-1978           | -1.5             | 1978-1988           | 1.4 <sup>c</sup> | 1988-1995           | 3.9 <sup>c</sup> | 1995-2002           | 0.4              |
| White  | Male and Female | 1975-1978           | -1.2             | 1978-1987           | 1.6 <sup>c</sup> | 1987-1995           | 4.0 <sup>c</sup> | 1995-2002           | 1.5 <sup>c</sup> |
| White  | Male            | 1975-1985           | 1.3 <sup>c</sup> | 1985-1995           | 3.9 <sup>c</sup> | 1995-2002           | 1.7 <sup>c</sup> |                     |                  |
| White  | Female          | 1975-1978           | -1.9             | 1978-1988           | 1.1 <sup>c</sup> | 1988-1995           | 3.8 <sup>c</sup> | 1995-2002           | 0.4              |
| Black  | Male and Female | 1975-1988           | 0.8 <sup>c</sup> | 1988-1995           | 3.1 <sup>c</sup> | 1995-2002           | 0.6              |                     |                  |
| Black  | Male            | 1975-2002           | 1.6 <sup>c</sup> |                     |                  |                     |                  |                     |                  |
| Black  | Female          | 1975-2002           | 1.7 <sup>c</sup> |                     |                  |                     |                  |                     |                  |

Joinpoint Regression Program Version 3.0, April 2005, National Cancer Institute. (<http://srab.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

<sup>b</sup> Trends are from the NCHS public use data file for the total US.

<sup>c</sup> The APC is significantly different from zero (p<.05).

Table XIV-2  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (Invasive)

SEER INCIDENCE 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>             |           |       |         |        |       |         |        |       |         |
| <u>YEAR OF DIAGNOSIS:</u>             |           |       |         |        |       |         |        |       |         |
| 1975                                  | 2.6       | 3.9   | 1.6     | 2.2    | 3.2   | 1.4     | 4.7    | 6.5   | -       |
| 1976                                  | 2.7       | 3.8   | 1.8     | 2.3    | 3.2   | 1.6     | 4.0    | 6.2   | -       |
| 1977                                  | 2.7       | 4.2   | 1.5     | 2.2    | 3.6   | 1.3     | 3.5    | 5.0   | -       |
| 1978                                  | 2.7       | 4.2   | 1.6     | 2.2    | 3.3   | 1.4     | 4.2    | 6.8   | -       |
| 1979                                  | 2.7       | 4.1   | 1.7     | 2.2    | 3.3   | 1.5     | 4.1    | 7.1   | -       |
| 1980                                  | 2.6       | 3.9   | 1.7     | 2.2    | 3.3   | 1.5     | 3.6    | 5.0   | -       |
| 1981                                  | 2.9       | 4.6   | 1.7     | 2.5    | 3.9   | 1.5     | 4.6    | 7.1   | -       |
| 1982                                  | 2.9       | 4.4   | 1.9     | 2.4    | 3.5   | 1.6     | 3.9    | 5.4   | -       |
| 1983                                  | 2.9       | 4.7   | 1.6     | 2.4    | 3.7   | 1.4     | 4.1    | 6.3   | -       |
| 1984                                  | 2.9       | 4.3   | 1.9     | 2.3    | 3.4   | 1.6     | 3.3    | 5.3   | -       |
| 1985                                  | 3.2       | 5.1   | 1.7     | 2.6    | 4.1   | 1.5     | 4.0    | 7.6   | -       |
| 1986                                  | 3.2       | 4.8   | 2.0     | 2.6    | 3.9   | 1.7     | 5.0    | 7.6   | 3.1     |
| 1987                                  | 3.4       | 4.8   | 2.2     | 2.7    | 3.6   | 1.9     | 5.3    | 7.7   | 3.5     |
| 1988                                  | 3.4       | 5.4   | 1.8     | 2.7    | 4.2   | 1.6     | 4.8    | 8.9   | -       |
| 1989                                  | 3.6       | 5.6   | 2.2     | 2.9    | 4.3   | 1.9     | 5.3    | 9.1   | 2.6     |
| 1990                                  | 3.9       | 6.0   | 2.3     | 3.1    | 4.7   | 1.9     | 6.5    | 10.6  | 3.5     |
| 1991                                  | 4.3       | 6.7   | 2.6     | 3.5    | 5.6   | 2.1     | 6.0    | 9.2   | 3.5     |
| 1992                                  | 4.0       | 6.1   | 2.4     | 3.2    | 4.8   | 1.9     | 5.6    | 8.4   | 3.4     |
| 1993                                  | 4.5       | 7.1   | 2.5     | 3.7    | 5.9   | 2.1     | 6.2    | 10.2  | 3.1     |
| 1994                                  | 4.4       | 7.0   | 2.5     | 3.6    | 5.6   | 2.1     | 5.1    | 9.6   | -       |
| 1995                                  | 4.5       | 6.8   | 2.8     | 3.6    | 5.4   | 2.2     | 6.0    | 8.6   | 3.9     |
| 1996                                  | 5.4       | 8.3   | 3.2     | 4.4    | 6.8   | 2.6     | 6.7    | 10.8  | 3.6     |
| 1997                                  | 5.4       | 8.0   | 3.2     | 4.4    | 6.5   | 2.6     | 7.4    | 11.4  | 4.4     |
| 1998                                  | 5.5       | 8.3   | 3.1     | 4.6    | 6.9   | 2.6     | 6.5    | 9.6   | 4.1     |
| 1999                                  | 5.8       | 8.8   | 3.3     | 4.7    | 7.2   | 2.7     | 7.6    | 12.1  | 4.3     |
| 2000                                  | 5.6       | 8.4   | 3.2     | 4.7    | 7.0   | 2.7     | 6.8    | 11.4  | 3.4     |
| 2001                                  | 5.3       | 8.2   | 3.0     | 4.1    | 6.2   | 2.5     | 7.7    | 13.5  | 3.2     |
| 2002                                  | 5.5       | 8.4   | 3.1     | 4.4    | 6.7   | 2.5     | 7.3    | 12.3  | 3.5     |
| <u>AGE-ADJUSTED RATES, 1998-2002</u>  |           |       |         |        |       |         |        |       |         |
| <u>AGE AT DIAGNOSIS:</u>              |           |       |         |        |       |         |        |       |         |
| All ages                              | 5.5       | 8.4   | 3.2     | 4.5    | 6.8   | 2.6     | 7.2    | 11.8  | 3.7     |
| Under 65                              | 2.8       | 4.4   | 1.2     | 2.1    | 3.3   | 0.9     | 4.4    | 7.6   | 1.7     |
| 65 and over                           | 24.8      | 36.6  | 16.5    | 21.2   | 31.3  | 14.1    | 26.8   | 41.3  | 17.7    |
| All ages(IARC world std) <sup>b</sup> | 3.8       | 5.8   | 2.1     | 3.0    | 4.5   | 1.7     | 5.2    | 8.6   | 2.6     |
| <u>AGE-SPECIFIC RATES, 1998-2002</u>  |           |       |         |        |       |         |        |       |         |
| <u>AGE AT DIAGNOSIS:</u>              |           |       |         |        |       |         |        |       |         |
| <1                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 1-4                                   | 0.6       | -     | -       | 0.5    | -     | -       | -      | -     | -       |
| 5-9                                   | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 10-14                                 | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 15-19                                 | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 20-24                                 | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 25-29                                 | 0.3       | -     | -       | -      | -     | -       | -      | -     | -       |
| 30-34                                 | 0.4       | 0.5   | -       | -      | -     | -       | -      | -     | -       |
| 35-39                                 | 0.8       | 1.1   | 0.5     | 0.5    | -     | -       | -      | -     | -       |
| 40-44                                 | 1.9       | 3.1   | 0.8     | 1.5    | 2.2   | 0.7     | -      | -     | -       |
| 45-49                                 | 6.0       | 10.0  | 2.2     | 4.7    | 7.7   | 1.7     | 10.2   | 18.4  | -       |
| 50-54                                 | 8.2       | 13.8  | 2.8     | 6.2    | 10.3  | 2.2     | 15.4   | 27.7  | -       |
| 55-59                                 | 10.8      | 17.7  | 4.2     | 8.2    | 13.4  | 3.1     | 20.3   | 35.1  | 7.9     |
| 60-64                                 | 15.2      | 23.0  | 8.0     | 11.3   | 17.3  | 5.6     | 20.9   | 33.8  | 10.5    |
| 65-69                                 | 20.0      | 28.5  | 12.6    | 16.0   | 23.0  | 9.7     | 27.6   | 40.0  | 18.4    |
| 70-74                                 | 25.4      | 37.7  | 15.8    | 21.4   | 32.3  | 12.6    | 27.6   | 44.1  | 16.4    |
| 75-79                                 | 27.9      | 41.7  | 18.1    | 24.2   | 35.1  | 16.5    | 26.9   | 42.5  | -       |
| 80-84                                 | 27.8      | 39.5  | 20.7    | 25.0   | 35.8  | 18.5    | 25.4   | -     | -       |
| 85+                                   | 25.1      | 40.1  | 18.6    | 23.0   | 36.3  | 17.5    | 24.5   | -     | -       |

<sup>a</sup> SEER 9 areas. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

<sup>b</sup> 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 XIV-3  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (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>             |           |       |         |        |       |         |        |       |         |
| <u>YEAR OF DEATH:</u>                 |           |       |         |        |       |         |        |       |         |
| 1975                                  | 2.8       | 3.8   | 2.0     | 2.6    | 3.5   | 2.0     | 4.3    | 6.3   | 2.7     |
| 1976                                  | 2.7       | 3.8   | 2.0     | 2.5    | 3.5   | 1.9     | 4.5    | 6.8   | 2.7     |
| 1977                                  | 2.8       | 3.8   | 2.0     | 2.6    | 3.4   | 1.9     | 4.5    | 7.2   | 2.5     |
| 1978                                  | 2.7       | 3.9   | 1.9     | 2.5    | 3.5   | 1.8     | 4.6    | 7.0   | 2.8     |
| 1979                                  | 2.8       | 3.9   | 2.0     | 2.6    | 3.5   | 2.0     | 4.4    | 6.6   | 2.7     |
| 1980                                  | 2.8       | 3.9   | 2.0     | 2.6    | 3.5   | 1.9     | 4.5    | 6.8   | 2.8     |
| 1981                                  | 2.9       | 4.1   | 2.0     | 2.7    | 3.8   | 1.9     | 4.4    | 6.7   | 2.7     |
| 1982                                  | 2.9       | 4.2   | 2.1     | 2.7    | 3.8   | 1.9     | 4.7    | 7.2   | 2.9     |
| 1983                                  | 2.9       | 4.2   | 2.0     | 2.6    | 3.7   | 1.9     | 4.8    | 7.3   | 3.0     |
| 1984                                  | 3.0       | 4.3   | 2.1     | 2.7    | 3.8   | 2.0     | 4.8    | 7.9   | 2.7     |
| 1985                                  | 3.1       | 4.4   | 2.2     | 2.8    | 3.9   | 2.1     | 4.6    | 7.2   | 2.7     |
| 1986                                  | 3.1       | 4.5   | 2.2     | 2.9    | 4.1   | 2.0     | 4.7    | 7.3   | 2.9     |
| 1987                                  | 3.2       | 4.6   | 2.2     | 2.9    | 4.1   | 2.0     | 4.8    | 6.9   | 3.2     |
| 1988                                  | 3.3       | 4.8   | 2.2     | 3.0    | 4.4   | 2.1     | 4.8    | 7.2   | 3.0     |
| 1989                                  | 3.4       | 5.0   | 2.3     | 3.1    | 4.5   | 2.2     | 5.1    | 8.0   | 3.1     |
| 1990                                  | 3.6       | 5.3   | 2.4     | 3.3    | 4.7   | 2.2     | 5.3    | 7.8   | 3.6     |
| 1991                                  | 3.7       | 5.3   | 2.5     | 3.4    | 4.8   | 2.3     | 5.3    | 8.0   | 3.5     |
| 1992                                  | 3.9       | 5.7   | 2.6     | 3.6    | 5.2   | 2.4     | 5.4    | 8.5   | 3.3     |
| 1993                                  | 4.0       | 5.8   | 2.7     | 3.7    | 5.3   | 2.6     | 5.5    | 8.1   | 3.6     |
| 1994                                  | 4.1       | 6.0   | 2.7     | 3.8    | 5.4   | 2.6     | 5.7    | 8.9   | 3.5     |
| 1995                                  | 4.4       | 6.3   | 2.9     | 4.0    | 5.7   | 2.7     | 6.2    | 9.3   | 4.1     |
| 1996                                  | 4.4       | 6.5   | 2.9     | 4.1    | 5.9   | 2.7     | 5.9    | 9.1   | 3.7     |
| 1997                                  | 4.5       | 6.5   | 3.0     | 4.1    | 5.9   | 2.8     | 6.0    | 8.9   | 3.9     |
| 1998                                  | 4.6       | 6.7   | 2.9     | 4.2    | 6.1   | 2.7     | 6.4    | 10.1  | 3.7     |
| 1999                                  | 4.5       | 6.5   | 2.9     | 4.1    | 6.0   | 2.7     | 5.9    | 8.8   | 3.8     |
| 2000                                  | 4.6       | 6.8   | 2.9     | 4.2    | 6.1   | 2.7     | 6.1    | 9.5   | 3.6     |
| 2001                                  | 4.7       | 6.9   | 3.0     | 4.3    | 6.3   | 2.7     | 6.2    | 9.1   | 4.1     |
| 2002                                  | 4.9       | 7.2   | 3.0     | 4.5    | 6.5   | 2.8     | 6.3    | 10.0  | 3.6     |
| <u>AGE-ADJUSTED RATES, 1998-2002</u>  |           |       |         |        |       |         |        |       |         |
| <u>AGE AT DEATH:</u>                  |           |       |         |        |       |         |        |       |         |
| All ages                              | 4.7       | 6.8   | 3.0     | 4.3    | 6.2   | 2.7     | 6.2    | 9.5   | 3.8     |
| Under 65                              | 1.8       | 2.8   | 0.9     | 1.6    | 2.3   | 0.8     | 3.1    | 5.1   | 1.4     |
| 65 and over                           | 24.2      | 34.5  | 17.0    | 23.0   | 33.0  | 16.1    | 27.6   | 40.0  | 20.0    |
| All ages(IARC world std) <sup>b</sup> | 2.9       | 4.3   | 1.8     | 2.6    | 3.9   | 1.6     | 4.1    | 6.5   | 2.3     |
| <u>AGE-SPECIFIC RATES, 1998-2002</u>  |           |       |         |        |       |         |        |       |         |
| <u>AGE AT DEATH:</u>                  |           |       |         |        |       |         |        |       |         |
| <1                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 1-4                                   | 0.1       | 0.2   | 0.1     | 0.2    | 0.2   | 0.1     | -      | -     | -       |
| 5-9                                   | 0.0       | -     | -       | -      | -     | -       | -      | -     | -       |
| 10-14                                 | 0.0       | 0.1   | -       | 0.0    | -     | -       | -      | -     | -       |
| 15-19                                 | 0.1       | 0.1   | 0.1     | 0.1    | 0.1   | -       | -      | -     | -       |
| 20-24                                 | 0.1       | 0.1   | 0.1     | 0.1    | 0.1   | 0.1     | -      | -     | -       |
| 25-29                                 | 0.2       | 0.2   | 0.1     | 0.1    | 0.1   | 0.1     | 0.3    | 0.4   | -       |
| 30-34                                 | 0.3       | 0.3   | 0.2     | 0.2    | 0.2   | 0.2     | 0.5    | 0.7   | -       |
| 35-39                                 | 0.5       | 0.7   | 0.3     | 0.4    | 0.5   | 0.3     | 0.9    | 1.3   | 0.6     |
| 40-44                                 | 1.3       | 2.0   | 0.7     | 1.1    | 1.6   | 0.5     | 2.3    | 3.5   | 1.2     |
| 45-49                                 | 3.5       | 5.7   | 1.4     | 2.9    | 4.7   | 1.2     | 6.6    | 11.4  | 2.4     |
| 50-54                                 | 5.5       | 9.0   | 2.3     | 4.6    | 7.3   | 2.0     | 10.5   | 18.4  | 3.9     |
| 55-59                                 | 7.5       | 11.3  | 3.9     | 6.3    | 9.4   | 3.4     | 13.4   | 22.0  | 6.3     |
| 60-64                                 | 11.3      | 16.7  | 6.5     | 10.2   | 14.9  | 5.8     | 14.9   | 23.4  | 8.2     |
| 65-69                                 | 16.4      | 23.9  | 10.0    | 15.2   | 22.1  | 9.1     | 20.6   | 32.1  | 12.0    |
| 70-74                                 | 21.8      | 31.5  | 14.1    | 20.5   | 29.7  | 13.1    | 26.5   | 40.4  | 17.4    |
| 75-79                                 | 27.0      | 38.8  | 18.7    | 25.9   | 37.4  | 17.8    | 29.0   | 41.7  | 21.4    |
| 80-84                                 | 31.5      | 44.8  | 23.6    | 30.5   | 43.6  | 22.7    | 34.3   | 50.6  | 26.1    |
| 85+                                   | 32.9      | 45.0  | 27.9    | 32.0   | 44.1  | 27.0    | 35.5   | 41.6  | 33.2    |

<sup>a</sup> NCHS public use data file for the total US. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

<sup>b</sup> 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 XIV-4  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (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 <sup>a</sup>                                     | -                | -                | -                 | -                | -                | -                 | -                | -                 | -                 |
| 1970-1973 <sup>a</sup>                                     | -                | -                | -                 | -                | -                | -                 | -                | -                 | -                 |
| 1974-1976 <sup>b</sup>                                     | 3.8              | 2.4              | 6.1               | 4.4              | 2.7              | 6.9               | 1.0              | 0.0               | 3.3               |
| 1977-1979 <sup>b</sup>                                     | 3.7              | 2.1              | 6.6               | 3.3              | 2.1              | 5.2               | 4.8              | 3.3               | 8.5 <sup>e</sup>  |
| 1980-1982 <sup>b</sup>                                     | 3.4              | 2.6              | 4.8               | 3.8              | 2.9              | 5.1               | 1.5              | 2.2               | 0.0               |
| 1983-1985 <sup>b</sup>                                     | 5.7              | 4.2              | 8.8               | 6.0              | 4.5              | 8.6               | 3.9              | 1.1               | 10.9 <sup>e</sup> |
| 1986-1988 <sup>b</sup>                                     | 6.1              | 4.0              | 10.1              | 6.9              | 4.4              | 11.0              | 5.7              | 4.6               | 7.4               |
| 1989-1991 <sup>b</sup>                                     | 5.1              | 3.9              | 7.4               | 5.7              | 4.0              | 8.6               | 2.3              | 1.3               | 3.9               |
| 1992-1994 <sup>b</sup>                                     | 5.7              | 5.5              | 6.0               | 6.0              | 5.6              | 6.9               | 3.7              | 3.2               | 4.8               |
| 1995-2001 <sup>b</sup>                                     | 9.0 <sup>d</sup> | 8.4 <sup>d</sup> | 10.1 <sup>d</sup> | 8.5 <sup>d</sup> | 7.4 <sup>d</sup> | 10.6 <sup>d</sup> | 5.1 <sup>d</sup> | 5.5               | 4.6 <sup>d</sup>  |
| 1995-2001 <sup>b</sup>                                     |                  |                  |                   |                  |                  |                   |                  |                   |                   |
| All Stages   | 9.0              | 8.4              | 10.1              | 8.5              | 7.4              | 10.6              | 5.1              | 5.5               | 4.6               |
| Localized  | 19.0             | 18.3             | 20.9              | 19.2             | 16.8             | 25.5              | 10.0             | 14.1              | 2.4               |
| Regional   | 6.6              | 6.8              | 6.5               | 5.9              | 5.8              | 6.3               | 4.5              | 3.4               | 7.9               |
| Distant  | 3.4              | 2.4              | 5.3               | 2.8              | 1.6              | 5.2               | 2.9              | 3.2               | 0.0               |
| Unstaged   | 3.3              | 1.9              | 5.3               | 3.2              | 2.1              | 4.6               | 0.0              | 0.0               | 0.0               |
| <u>5-YR PERIOD SURVIVAL RATES<sup>bc</sup></u>             |                  |                  |                   |                  |                  |                   |                  |                   |                   |
| YEAR OF DIAGNOSIS:   |                  |                  |                   |                  |                  |                   |                  |                   |                   |
| 1995-2001  | 10.0             | 9.4              | 11.3              | 9.8              | 8.5              | 12.6              | 5.0              | 6.7               | 2.8               |
| <u>STAGE DISTRIBUTION (%) 1995-2001<sup>b</sup></u>        |                  |                  |                   |                  |                  |                   |                  |                   |                   |
| All Stages   |                  |                  |                   |                  |                  |                   |                  |                   |                   |
| Number of cases  | 7,653            | 5,185            | 2,468             | 4,993            | 3,331            | 1,662             | 890              | 630               | 260               |
| Percent  | 100%             | 100%             | 100%              | 100%             | 100%             | 100%              | 100%             | 100%              | 100%              |
| Localized  | 31               | 31               | 30                | 30               | 31               | 29                | 29               | 27                | 32                |
| Regional   | 26               | 27               | 23                | 23               | 24               | 21                | 30               | 32                | 25                |
| Distant  | 22               | 23               | 22                | 23               | 23               | 21                | 25               | 25                | 24                |
| Unstaged   | 22               | 20               | 25                | 25               | 22               | 29                | 17               | 16                | 18                |
| <u>5-YR RELATIVE SURVIVAL RATES, 1995-2001<sup>b</sup></u> |                  |                  |                   |                  |                  |                   |                  |                   |                   |
| AGE AT DIAGNOSIS:  |                  |                  |                   |                  |                  |                   |                  |                   |                   |
| <45  | 22.1             | 18.2             | 30.4              | 25.7             | 21.2             | 32.7 <sup>e</sup> | 14.1             | 11.8 <sup>e</sup> | -                 |
| 45-54  | 11.2             | 10.0             | 15.6              | 12.6             | 10.8             | 19.0              | 2.7              | -                 | 6.4               |
| 55-64  | 8.1              | 7.8              | 9.0               | 7.7              | 7.5              | 8.5               | 5.4              | 5.7               | -                 |
| 65-74  | 7.1              | 6.7              | 7.7               | 5.2              | 3.9              | 7.8               | 4.6              | 7.9               | -                 |
| 75+  | 4.6              | 4.2              | 5.0               | 4.4              | 3.2              | 5.4               | -                | -                 | -                 |
| Under 65   | 11.9             | 10.5             | 16.3              | 12.7             | 10.8             | 18.4              | 5.8              | 4.9               | 8.9               |
| 65 and over  | 6.1              | 6.0              | 6.3               | 4.8              | 3.7              | 6.5               | 3.3              | 6.4               | -                 |

<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 (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).

<sup>c</sup> Rates are based on follow-up of patients into 2002.

<sup>d</sup> Period survival provides a more up-to-date estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three calendar year blocks (1999-2001: 0-1 year survival), (1998-2000: 1-2 year survival), (1997-1999: 2-3 year survival), (1996-1998: 3-4 year survival), (1995-1997: 4-5 years survival).

<sup>e</sup> The difference in rates between 1974-1976 and 1995-2001 is statistically significant ( $p < .05$ ).

<sup>f</sup> The standard error of the survival rate is between 5 and 10 percentage points.

- Statistic could not be calculated.

Table XIV-5  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (Invasive)  
SURVIVAL RATES<sup>a</sup>  
By Year of Diagnosis  
All Races, Males and Females

|   | Year of Diagnosis |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|---|-------------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
|   | 1975-1979         | 1980-1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |  |
| <b>Relative Survival Rates (SEER<sup>b</sup>)</b> |                   |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 1-year  | 14.4              | 15.6      | 19.4 | 16.8 | 22.0 | 16.7 | 18.7 | 20.7 | 22.9 | 20.6 | 21.1 | 25.4 | 23.8 | 25.6 | 28.3 | 27.4 | 28.3 | 29.2 | 31.4 |  |
| 2-year  | 7.1               | 8.7       | 11.5 | 9.2  | 12.2 | 9.3  | 8.1  | 11.5 | 13.2 | 12.6 | 11.1 | 14.8 | 13.9 | 15.5 | 17.7 | 17.2 | 17.8 | 19.8 |      |  |
| 3-year  | 4.9               | 6.2       | 8.2  | 7.7  | 9.3  | 7.3  | 5.8  | 9.3  | 9.7  | 8.5  | 8.0  | 9.3  | 9.5  | 11.1 | 12.6 | 13.1 | 14.1 |      |      |  |
| 4-year  | 4.2               | 4.8       | 8.0  | 6.2  | 8.2  | 6.5  | 4.2  | 6.7  | 7.8  | 7.0  | 6.2  | 7.9  | 7.0  | 9.5  | 10.3 | 10.7 |      |      |      |  |
| 5-year  | 3.7               | 4.1       | 7.1  | 6.1  | 6.7  | 5.6  | 3.2  | 5.5  | 6.3  | 5.6  | 4.5  | 6.8  | 5.7  | 8.5  | 8.0  |      |      |      |      |  |
| 6-year  | 3.2               | 3.8       | 7.1  | 5.5  | 6.5  | 5.2  | 2.9  | 5.0  | 6.0  | 5.1  | 3.7  | 6.1  | 5.1  | 7.4  |      |      |      |      |      |  |
| 7-year  | 3.1               | 3.4       | 6.9  | 5.1  | 6.5  | 5.2  | 2.8  | 4.7  | 5.3  | 4.7  | 3.4  | 5.7  | 4.5  |      |      |      |      |      |      |  |
| 8-year  | 3.1               | 3.3       | 6.7  | 5.0  | 6.0  | 4.9  | 2.3  | 4.7  | 5.1  | 4.6  | 3.3  | 5.5  |      |      |      |      |      |      |      |  |
| 9-year  | 2.9               | 3.3       | 6.7  | 4.7  | 5.8  | 4.7  | 2.3  | 4.7  | 5.0  | 4.6  | 3.2  |      |      |      |      |      |      |      |      |  |
| 10-year   | 2.9               | 3.3       | 6.7  | 4.7  | 5.4  | 4.2  | 2.3  | 4.2  | 5.0  | 4.6  |      |      |      |      |      |      |      |      |      |  |
| 11-year   | 2.9               | 3.1       | 6.7  | 4.7  | 5.4  | 3.9  | 2.3  | 3.8  | 4.9  |      |      |      |      |      |      |      |      |      |      |  |
| 12-year   | 2.9               | 3.1       | 6.7  | 4.7  | 5.4  | 3.6  | 2.3  | 3.7  |      |      |      |      |      |      |      |      |      |      |      |  |
| 13-year   | 2.9               | 3.0       | 6.7  | 4.7  | 5.4  | 3.6  | 2.2  |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 14-year   | 2.9               | 3.0       | 6.7  | 4.7  | 5.4  | 3.3  |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 15-year   | 2.9               | 3.0       | 6.7  | 4.7  | 5.4  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 16-year   | 2.9               | 3.0       | 6.7  | 4.7  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 17-year   | 2.9               | 3.0       | 6.7  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 18-year   | 2.8               | 3.0       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 19-year   | 2.8               |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 20-year   | 2.8               |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |

<sup>a</sup> Survival rates are relative rates expressed as percents.  
<sup>b</sup> Rates are from the SEER 9 areas.

Table XIV-6  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (Invasive)

SURVIVAL RATES<sup>a</sup>

By Year of Diagnosis

All Races, Males

Year of Diagnosis

|  | 1975-<br>1979 | 1980-<br>1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
|--|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Relative Survival Rates (SEER <sup>b</sup> ) |               |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1-year                                       | 12.0          | 13.4          | 17.1 | 14.0 | 19.5 | 14.0 | 14.1 | 18.0 | 21.5 | 20.2 | 19.0 | 24.7 | 22.0 | 25.5 | 27.5 | 26.4 | 29.6 | 28.7 | 30.3 |
| 2-year                                       | 5.4           | 6.7           | 9.5  | 6.5  | 8.7  | 7.4  | 5.7  | 9.1  | 13.2 | 12.6 | 9.8  | 13.8 | 12.7 | 16.2 | 16.6 | 16.2 | 17.9 | 18.8 |      |
| 3-year                                       | 3.3           | 5.0           | 6.6  | 4.8  | 6.1  | 6.3  | 4.0  | 7.7  | 9.8  | 8.0  | 6.9  | 8.6  | 9.0  | 11.4 | 12.0 | 11.9 | 13.6 |      |      |
| 4-year                                       | 2.9           | 3.7           | 6.4  | 3.6  | 5.1  | 5.6  | 2.5  | 5.3  | 7.6  | 6.2  | 5.4  | 8.0  | 6.2  | 9.4  | 9.7  | 10.4 |      |      |      |
| 5-year                                       | 2.2           | 3.0           | 5.1  | 3.5  | 3.8  | 4.8  | 1.5  | 4.2  | 5.6  | 5.1  | 4.3  | 7.0  | 5.0  | 8.0  | 7.7  |      |      |      |      |
| 6-year                                       | 1.9           | 2.8           | 5.1  | 2.9  | 3.6  | 4.7  | 0.9  | 3.5  | 5.2  | 4.8  | 4.0  | 6.5  | 4.4  | 7.0  |      |      |      |      |      |
| 7-year                                       | 1.6           | 2.4           | 5.1  | 2.6  | 3.6  | 4.7  | 0.9  | 3.5  | 4.6  | 4.3  | 3.6  | 6.0  | 3.9  |      |      |      |      |      |      |
| 8-year                                       | 1.6           | 2.2           | 5.1  | 2.6  | 3.1  | 4.7  | 0.7  | 3.5  | 4.3  | 4.2  | 3.4  | 5.7  |      |      |      |      |      |      |      |
| 9-year                                       | 1.6           | 2.2           | 5.1  | 2.4  | 3.1  | 4.5  | 0.7  | 3.5  | 4.1  | 4.2  | 3.3  |      |      |      |      |      |      |      |      |
| 10-year                                      | 1.6           | 2.2           | 5.1  | 2.4  | 3.1  | 4.5  | 0.7  | 3.5  | 4.0  | 4.2  |      |      |      |      |      |      |      |      |      |
| 11-year                                      | 1.6           | 2.1           | 5.1  | 2.4  | 3.1  | 4.2  | 0.7  | 3.2  | 4.0  |      |      |      |      |      |      |      |      |      |      |
| 12-year                                      | 1.6           | 2.0           | 5.1  | 2.4  | 3.1  | 4.0  | 0.4  | 3.0  |      |      |      |      |      |      |      |      |      |      |      |
| 13-year                                      | 1.6           | 1.8           | 5.1  | 2.4  | 3.1  | 4.0  | 0.4  |      |      |      |      |      |      |      |      |      |      |      |      |
| 14-year                                      | 1.6           | 1.8           | 5.1  | 2.4  | 3.1  | 3.5  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15-year                                      | 1.6           | 1.8           | 5.1  | 2.4  | 3.1  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 16-year                                      | 1.6           | 1.8           | 5.1  | 2.4  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17-year                                      | 1.6           | 1.8           | 5.1  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 18-year                                      | 1.6           | 1.8           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 19-year                                      | 1.6           |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20-year                                      | 1.6           |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

<sup>a</sup> Survival rates are relative rates expressed as percents.  
<sup>b</sup> Rates are from the SEER 9 areas.

Table XIV-7  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (Invasive)

SURVIVAL RATES<sup>a</sup>

By Year of Diagnosis

All Races, Females

Year of Diagnosis

|   | 1975-<br>1979 | 1980-<br>1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
|---|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Relative Survival Rates (SEER<sup>b</sup>)</b> |               |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1-year  | 19.0          | 19.6          | 24.6 | 21.9 | 26.5 | 22.6 | 27.0 | 26.1 | 25.7 | 21.3 | 25.4 | 26.9 | 27.4 | 25.9 | 29.8 | 29.8 | 25.5 | 30.2 | 34.1 |
| 2-year  | 10.4          | 12.4          | 15.9 | 14.2 | 18.6 | 13.4 | 12.5 | 16.4 | 13.3 | 12.7 | 13.8 | 17.1 | 16.4 | 14.1 | 19.8 | 19.3 | 17.5 | 21.9 |      |
| 3-year  | 7.9           | 8.6           | 11.7 | 12.9 | 15.1 | 9.5  | 9.0  | 12.6 | 9.6  | 9.3  | 10.4 | 10.6 | 10.4 | 10.5 | 13.7 | 15.5 | 15.1 |      |      |
| 4-year  | 6.8           | 6.9           | 11.2 | 10.9 | 13.7 | 8.3  | 7.3  | 9.5  | 8.2  | 8.4  | 7.8  | 7.9  | 8.3  | 9.6  | 11.5 | 11.2 |      |      |      |
| 5-year  | 6.4           | 5.9           | 11.2 | 10.6 | 11.9 | 7.4  | 6.1  | 8.3  | 7.6  | 6.4  | 5.0  | 6.4  | 7.1  | 9.5  | 8.7  |      |      |      |      |
| 6-year  | 5.5           | 5.6           | 11.0 | 10.2 | 11.6 | 6.4  | 6.1  | 8.0  | 7.4  | 5.7  | 3.3  | 5.2  | 6.1  | 8.2  |      |      |      |      |      |
| 7-year  | 5.5           | 5.1           | 9.8  | 9.5  | 11.6 | 5.9  | 6.0  | 7.1  | 6.7  | 5.5  | 2.9  | 5.0  | 5.8  |      |      |      |      |      |      |
| 8-year  | 5.5           | 5.1           | 9.4  | 9.1  | 10.9 | 5.3  | 5.0  | 6.7  | 6.4  | 5.3  | 2.9  | 5.0  |      |      |      |      |      |      |      |
| 9-year  | 5.3           | 5.1           | 9.4  | 8.7  | 10.4 | 4.8  | 5.0  | 6.5  | 6.4  | 5.3  | 2.9  |      |      |      |      |      |      |      |      |
| 10-year   | 5.3           | 5.0           | 9.4  | 8.7  | 9.1  | 3.4  | 5.0  | 5.5  | 6.4  | 5.3  |      |      |      |      |      |      |      |      |      |
| 11-year   | 5.3           | 4.9           | 9.4  | 8.7  | 9.1  | 3.4  | 5.0  | 5.1  | 6.3  |      |      |      |      |      |      |      |      |      |      |
| 12-year   | 5.3           | 4.9           | 9.4  | 8.7  | 9.1  | 2.7  | 5.0  | 5.1  |      |      |      |      |      |      |      |      |      |      |      |
| 13-year   | 4.9           | 4.9           | 9.4  | 8.7  | 9.1  | 2.7  | 5.0  |      |      |      |      |      |      |      |      |      |      |      |      |
| 14-year   | 4.9           | 4.9           | 9.4  | 8.7  | 9.1  | 2.7  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15-year   | 4.9           | 4.9           | 9.4  | 8.7  | 9.1  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 16-year   | 4.9           | 4.9           | 9.4  | 8.7  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17-year   | 4.8           | 4.9           | 9.4  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 18-year   | 4.2           | 4.9           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 19-year   | 4.2           |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20-year   | 4.2           |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

<sup>a</sup> Survival rates are relative rates expressed as percents.  
<sup>b</sup> Rates are from the SEER 9 areas.

Table XIV-8  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (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 (13 SEER Areas) With Cancer and  
Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

2000-2002

All Races

| Current<br>Age | Males   |         |         |            | Females |         |         |            |
|----------------|---------|---------|---------|------------|---------|---------|---------|------------|
|                | +10 yrs | +20 yrs | +30 yrs | Eventually | +10 yrs | +20 yrs | +30 yrs | Eventually |
| 0              | 0.00    | 0.00    | 0.01    | 0.89       | 0.00    | 0.01    | 0.01    | 0.43       |
| 10             | 0.00    | 0.00    | 0.01    | 0.90       | 0.00    | 0.00    | 0.01    | 0.43       |
| 20             | 0.00    | 0.01    | 0.08    | 0.91       | 0.00    | 0.01    | 0.02    | 0.43       |
| 30             | 0.01    | 0.08    | 0.24    | 0.92       | 0.00    | 0.02    | 0.06    | 0.43       |
| 40             | 0.07    | 0.24    | 0.48    | 0.92       | 0.02    | 0.06    | 0.17    | 0.43       |
| 50             | 0.18    | 0.43    | 0.71    | 0.88       | 0.04    | 0.16    | 0.30    | 0.42       |
| 60             | 0.28    | 0.57    | 0.73    | 0.76       | 0.12    | 0.27    | 0.37    | 0.39       |

Lifetime Risk of Being Diagnosed = 0.89%      Lifetime Risk of Being Diagnosed = 0.43%  
Lifetime Risk of Dying = 0.65%      Lifetime Risk of Dying = 0.37%

Whites

| 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    | 0.71       | 0.00    | 0.01    | 0.01    | 0.36       |
| 10             | 0.00    | 0.00    | 0.01    | 0.72       | 0.00    | 0.00    | 0.01    | 0.35       |
| 20             | 0.00    | 0.01    | 0.06    | 0.72       | 0.00    | 0.00    | 0.02    | 0.35       |
| 30             | 0.01    | 0.06    | 0.19    | 0.73       | 0.00    | 0.02    | 0.05    | 0.35       |
| 40             | 0.05    | 0.18    | 0.37    | 0.74       | 0.01    | 0.05    | 0.13    | 0.35       |
| 50             | 0.13    | 0.33    | 0.56    | 0.71       | 0.03    | 0.12    | 0.24    | 0.35       |
| 60             | 0.21    | 0.46    | 0.59    | 0.61       | 0.09    | 0.22    | 0.30    | 0.33       |

Lifetime Risk of Being Diagnosed = 0.71%      Lifetime Risk of Being Diagnosed = 0.36%  
Lifetime Risk of Dying = 0.61%      Lifetime Risk of Dying = 0.35%

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    | 0.95       | 0.00    | 0.00    | 0.00    | 0.35       |
| 10             | 0.00    | 0.00    | 0.02    | 0.97       | 0.00    | 0.00    | 0.01    | 0.36       |
| 20             | 0.00    | 0.02    | 0.12    | 0.98       | 0.00    | 0.01    | 0.02    | 0.36       |
| 30             | 0.01    | 0.12    | 0.39    | 1.00       | 0.00    | 0.02    | 0.08    | 0.36       |
| 40             | 0.11    | 0.39    | 0.66    | 1.02       | 0.02    | 0.08    | 0.17    | 0.36       |
| 50             | 0.30    | 0.59    | 0.84    | 0.98       | 0.06    | 0.16    | 0.27    | 0.36       |
| 60             | 0.33    | 0.62    | 0.76    | 0.79       | 0.11    | 0.23    | 0.30    | 0.32       |

Lifetime Risk of Being Diagnosed = 0.95%      Lifetime Risk of Being Diagnosed = 0.35%  
Lifetime Risk of Dying = 0.69%      Lifetime Risk of Dying = 0.38%

Devcan Version 6.0, April 2005, National Cancer Institute (<http://srab.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 13 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia). Mortality data are from the NCHS public use data file for the total US.

Table XIV-9  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (Invasive)

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

Incidence<sup>b</sup>

|                                 | Rate 1998-2002           |       |         | Trend 1992-2002  |                  |                  |
|---------------------------------|--------------------------|-------|---------|------------------|------------------|------------------|
|                                 | Rate per 100,000 persons |       |         | APC (%)          |                  |                  |
|                                 | Total                    | Males | Females | Total            | Males            | Females          |
| <b>RACE/ETHNICITY</b>           |                          |       |         |                  |                  |                  |
| All Races                       | 6.2                      | 9.3   | 3.6     | 3.3 <sup>e</sup> | 3.0 <sup>e</sup> | 3.3 <sup>e</sup> |
| White                           | 5.0                      | 7.4   | 2.9     | 3.5 <sup>e</sup> | 2.9 <sup>e</sup> | 3.7 <sup>e</sup> |
| White Hispanic <sup>c</sup>     | 10.0                     | 14.6  | 6.3     | 3.2 <sup>e</sup> | 2.1 <sup>e</sup> | 4.9 <sup>e</sup> |
| White Non-Hispanic <sup>c</sup> | 4.2                      | 6.2   | 2.5     | 2.8 <sup>e</sup> | 2.3 <sup>e</sup> | 2.9 <sup>e</sup> |
| Black                           | 7.3                      | 12.1  | 3.7     | 3.5 <sup>e</sup> | 4.5 <sup>e</sup> | 1.4              |
| Asian/Pacific Islander          | 14.0                     | 21.4  | 7.9     | 0.6              | 1.0              | 0.2              |
| Amer Ind/Alaska Nat             | 6.7                      | 8.7   | 5.2     | -2.7             | -                | -                |
| Hispanic <sup>c</sup>           | 9.7                      | 14.1  | 6.1     | 3.4 <sup>e</sup> | 2.2 <sup>e</sup> | 5.0 <sup>e</sup> |

Mortality<sup>d</sup>

|                                 | Rate 1998-2002           |       |         | Trend 1992-2002  |                  |                  |
|---------------------------------|--------------------------|-------|---------|------------------|------------------|------------------|
|                                 | Rate per 100,000 persons |       |         | APC (%)          |                  |                  |
|                                 | Total                    | Males | Females | Total            | Males            | Females          |
| <b>RACE/ETHNICITY</b>           |                          |       |         |                  |                  |                  |
| All Races                       | 4.7                      | 6.8   | 3.0     | 1.9 <sup>e</sup> | 2.1 <sup>e</sup> | 1.2 <sup>e</sup> |
| White                           | 4.3                      | 6.2   | 2.7     | 2.0 <sup>e</sup> | 2.1 <sup>e</sup> | 1.1 <sup>e</sup> |
| White Hispanic <sup>c</sup>     | 7.8                      | 11.0  | 5.3     | 2.0 <sup>e</sup> | 1.6 <sup>e</sup> | 2.1 <sup>e</sup> |
| White Non-Hispanic <sup>c</sup> | 4.1                      | 5.9   | 2.6     | 1.8 <sup>e</sup> | 2.0 <sup>e</sup> | 0.9 <sup>e</sup> |
| Black                           | 6.2                      | 9.5   | 3.8     | 1.3 <sup>e</sup> | 1.3 <sup>e</sup> | 0.7              |
| Asian/Pacific Islander          | 10.5                     | 15.4  | 6.5     | -0.7             | -0.6             | -0.7             |
| Amer Ind/Alaska Nat             | 5.9                      | 7.9   | 4.3     | 2.2              | 1.6              | 1.7              |
| Hispanic <sup>c</sup>           | 7.6                      | 10.7  | 5.1     | 2.0 <sup>e</sup> | 1.6 <sup>e</sup> | 2.1 <sup>e</sup> |

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.

<sup>a</sup> Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

<sup>b</sup> Incidence data are from the 13 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia).

<sup>c</sup> 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, Alaska Native Registry and Rural Georgia. For mortality, information is included for all states except Connecticut, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma and Vermont.

<sup>d</sup> Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).

<sup>e</sup> The APC is significantly different from zero ( $p < .05$ ).

Table XIV-10  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE RATES AND SEER DEATH RATES<sup>a</sup>  
By Registry, Race and Sex

|  | All Races |       |         | Whites |       |         | Blacks |       |         |
|--|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
|  | Total     | Males | Females | Total  | Males | Females | Total  | Males | Females |
| <b>SEER INCIDENCE RATES<sup>b</sup>, 1998-2002</b> |           |       |         |        |       |         |        |       |         |
| REGISTRY   |           |       |         |        |       |         |        |       |         |
| 13 SEER Areas                                      | 6.2       | 9.3   | 3.6     | 5.0    | 7.4   | 2.9     | 7.3    | 12.1  | 3.7     |
| 11 SEER Areas                                      | 6.2       | 9.3   | 3.6     | 5.0    | 7.4   | 2.9     | 7.4    | 12.2  | 3.8     |
| 9 SEER Areas                                       | 5.5       | 8.4   | 3.2     | 4.5    | 6.8   | 2.6     | 7.2    | 11.8  | 3.7     |
| San Francisco-Oakland                              | 7.7       | 11.7  | 4.1     | 5.4    | 8.0   | 3.0     | 9.1    | 14.4  | 4.7     |
| Connecticut  | 4.7       | 7.5   | 2.6     | 4.5    | 7.1   | 2.5     | 6.6    | 12.3  | -       |
| Metropolitan Detroit                               | 5.8       | 9.1   | 3.3     | 5.1    | 7.9   | 3.0     | 7.6    | 12.9  | 3.7     |
| Hawaii   | 8.9       | 13.3  | 5.0     | 5.3    | 8.7   | -       | -      | -     | -       |
| Iowa   | 3.4       | 5.2   | 2.0     | 3.3    | 5.0   | 1.9     | -      | -     | -       |
| New Mexico   | 6.0       | 8.8   | 3.5     | 5.8    | 8.5   | 3.4     | -      | -     | -       |
| Seattle-Puget Sound                                | 5.9       | 8.5   | 3.6     | 4.8    | 7.1   | 2.9     | 10.5   | 16.8  | -       |
| Utah   | 3.1       | 4.3   | 2.1     | 2.9    | 3.9   | 2.0     | -      | -     | -       |
| Metropolitan Atlanta                               | 4.4       | 6.9   | 2.4     | 3.4    | 5.5   | 1.8     | 5.1    | 7.9   | 3.3     |
| San Jose-Monterey                                  | 7.5       | 11.3  | 4.2     | 5.6    | 8.4   | 3.2     | -      | -     | -       |
| Los Angeles  | 7.9       | 11.8  | 4.8     | 6.5    | 9.3   | 4.1     | 7.7    | 13.1  | 3.9     |
| <b>SEER DEATH RATES<sup>c</sup>, 1998-2002</b>     |           |       |         |        |       |         |        |       |         |
| REGISTRY   |           |       |         |        |       |         |        |       |         |
| 13 SEER Areas                                      | 5.3       | 7.7   | 3.4     | 4.5    | 6.4   | 2.9     | 6.5    | 10.0  | 3.8     |
| 11 SEER Areas                                      | 5.3       | 7.7   | 3.4     | 4.5    | 6.4   | 2.9     | 6.5    | 10.1  | 3.9     |
| 9 SEER Areas                                       | 4.9       | 7.2   | 3.1     | 4.2    | 6.1   | 2.7     | 6.2    | 9.6   | 3.7     |
| San Francisco-Oakland                              | 6.5       | 9.4   | 4.0     | 5.1    | 7.2   | 3.1     | 7.8    | 11.9  | 4.3     |
| Connecticut  | 4.0       | 6.2   | 2.5     | 3.9    | 5.9   | 2.4     | 5.6    | 9.0   | -       |
| Metropolitan Detroit                               | 5.3       | 8.2   | 3.2     | 4.9    | 7.4   | 3.0     | 6.7    | 10.7  | 3.8     |
| Hawaii   | 7.0       | 9.8   | 4.5     | 4.6    | 6.9   | -       | -      | -     | -       |
| Iowa   | 3.3       | 4.7   | 2.1     | 3.1    | 4.5   | 2.1     | -      | -     | -       |
| New Mexico   | 5.5       | 7.9   | 3.4     | 5.2    | 7.5   | 3.3     | -      | -     | -       |
| Seattle-Puget Sound                                | 4.9       | 6.9   | 3.3     | 4.3    | 6.0   | 2.9     | 7.6    | 11.9  | -       |
| Utah   | 3.3       | 4.4   | 2.4     | 3.1    | 4.1   | 2.2     | -      | -     | -       |
| Metropolitan Atlanta                               | 4.4       | 6.6   | 2.8     | 3.8    | 5.8   | 2.4     | 4.6    | 6.5   | 3.1     |
| San Jose-Monterey                                  | 5.8       | 8.3   | 3.7     | 4.5    | 6.3   | 2.9     | -      | -     | -       |
| Los Angeles  | 6.6       | 9.4   | 4.3     | 5.5    | 7.6   | 3.8     | 7.3    | 11.3  | 4.3     |

<sup>a</sup> Incidence and death rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta. The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles. The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.

<sup>c</sup> NCHS public use data file for the total US with analyses limited to the SEER geographic areas.

- Statistic could not be calculated or populations are inadequate.

Table XIV-11  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (Invasive)

AVERAGE ANNUAL AGE-ADJUSTED CANCER DEATH<sup>a</sup> RATES BY STATE, ALL RACES, 1998-2002

Males and Females

| State                | Rate              | SE   | Rank | PD    |
|----------------------|-------------------|------|------|-------|
| TOTAL U.S.           | 4.7               | 0.02 |      |       |
| High Five States     |                   |      |      |       |
| Hawaii               | 7.0 <sup>bc</sup> | 0.33 | (01) | 48.9  |
| District of Columbia | 6.6 <sup>bc</sup> | 0.49 | (02) | 40.4  |
| Louisiana            | 6.2 <sup>bc</sup> | 0.17 | (03) | 31.9  |
| Texas                | 6.2 <sup>bc</sup> | 0.08 | (04) | 31.9  |
| Mississippi          | 5.8 <sup>bc</sup> | 0.21 | (05) | 23.4  |
| Low Five States      |                   |      |      |       |
| Idaho                | 3.5 <sup>bc</sup> | 0.24 | (47) | -25.5 |
| Utah                 | 3.3 <sup>bc</sup> | 0.20 | (48) | -29.8 |
| Vermont              | 3.3 <sup>bc</sup> | 0.32 | (49) | -29.8 |
| Iowa                 | 3.3 <sup>bc</sup> | 0.14 | (50) | -29.8 |
| Nebraska             | 3.1 <sup>bc</sup> | 0.19 | (51) | -34.0 |

Males

| State                | Rate               | SE   | Rank | PD    |
|----------------------|--------------------|------|------|-------|
| TOTAL U.S.           | 6.8                | 0.03 |      |       |
| High Five States     |                    |      |      |       |
| District of Columbia | 10.7 <sup>bc</sup> | 0.97 | (01) | 57.4  |
| Hawaii               | 9.8 <sup>bc</sup>  | 0.58 | (02) | 44.1  |
| Louisiana            | 9.2 <sup>bc</sup>  | 0.33 | (03) | 35.3  |
| Texas                | 9.0 <sup>bc</sup>  | 0.16 | (04) | 32.4  |
| Mississippi          | 8.2 <sup>bc</sup>  | 0.39 | (05) | 20.6  |
| Low Five States      |                    |      |      |       |
| Iowa                 | 4.7 <sup>bc</sup>  | 0.26 | (47) | -30.9 |
| Idaho                | 4.7 <sup>bc</sup>  | 0.42 | (48) | -30.9 |
| Utah                 | 4.4 <sup>bc</sup>  | 0.36 | (49) | -35.3 |
| Wyoming              | 4.2 <sup>bc</sup>  | 0.63 | (50) | -38.2 |
| Nebraska             | 4.1 <sup>bc</sup>  | 0.33 | (51) | -39.7 |

Females

| State            | Rate              | SE   | Rank | PD    |
|------------------|-------------------|------|------|-------|
| TOTAL U.S.       | 3.0               | 0.02 |      |       |
| High Five States |                   |      |      |       |
| Hawaii           | 4.5 <sup>bc</sup> | 0.36 | (01) | 50.0  |
| Alaska           | 4.4 <sup>b</sup>  | 0.76 | (02) | 46.7  |
| Mississippi      | 4.0 <sup>bc</sup> | 0.22 | (03) | 33.3  |
| Louisiana        | 3.9 <sup>bc</sup> | 0.18 | (04) | 30.0  |
| Texas            | 3.9 <sup>bc</sup> | 0.09 | (05) | 30.0  |
| Low Five States  |                   |      |      |       |
| North Dakota     | 2.2 <sup>b</sup>  | 0.33 | (47) | -26.7 |
| Kansas           | 2.2 <sup>bc</sup> | 0.17 | (48) | -26.7 |
| Nebraska         | 2.2 <sup>bc</sup> | 0.21 | (49) | -26.7 |
| Iowa             | 2.1 <sup>bc</sup> | 0.15 | (50) | -30.0 |
| Vermont          | 1.8 <sup>bc</sup> | 0.31 | (51) | -40.0 |

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

<sup>a</sup> NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

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

SE Standard error of the rate.

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

Table XIV-12  
LIVER AND INTRAHEPATIC BILE DUCT CANCER (Invasive)

Estimated United States Cancer Prevalence Counts<sup>a</sup> on January 1, 2002  
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 <12 <sup>e</sup> | 0 to <27 <sup>e</sup> | >=27 <sup>g</sup> | Complete <sup>h</sup> |
|-------------------------------------|---------|----------|-----------|-----------|-----------|-----------------------|-----------------------|-------------------|-----------------------|
| <u>Race/Sex</u>                     |         |          |           |           |           |                       |                       |                   |                       |
| All Races <sup>b</sup>              | 11,552  | 1,743    | 908       | 685       | 221       | 13,738                | 15,152                | 360               | 15,512                |
| Males                               | 7,508   | 1,082    | 401       | 300       | 85        | 8,836                 | 9,437                 | 61                | 9,498                 |
| Females                             | 4,044   | 661      | 507       | 385       | 136       | 4,902                 | 5,715                 | 299               | 6,014                 |
| White <sup>b</sup>                  | 8,299   | 1,281    | 722       | 568       | 150       | 9,922                 | 11,049                | 182               | 11,231                |
| Males                               | 5,252   | 772      | 285       | 240       | 58        | 6,196                 | 6,639                 | 87 <sup>i</sup>   | 6,726                 |
| Females                             | 3,047   | 509      | 437       | 328       | 92        | 3,726                 | 4,410                 | 95 <sup>i</sup>   | 4,505                 |
| Black <sup>b</sup>                  | 1,550   | 151      | 108       | 73        | 47        | 1,743                 | 1,922                 | +                 | +                     |
| Males                               | 1,083   | 101      | 61        | 37        | 23        | 1,203                 | 1,301                 | +                 | +                     |
| Females                             | 467     | 50       | 47        | 36        | 24        | 540                   | 621                   | +                 | +                     |
| Asian/Pacific Islander <sup>c</sup> | 1,466   | 245      | +         | +         | +         | 1,756                 | +                     | +                 | +                     |
| Males                               | 1,014   | 157      | +         | +         | +         | 1,199                 | +                     | +                 | +                     |
| Females                             | 452     | 88       | +         | +         | +         | 557                   | +                     | +                 | +                     |
| Hispanic <sup>d</sup>               | 1,480   | 267      | +         | +         | +         | 1,779                 | +                     | +                 | +                     |
| Males                               | 964     | 166      | +         | +         | +         | 1,147                 | +                     | +                 | +                     |
| Females                             | 516     | 101      | +         | +         | +         | 632                   | +                     | +                 | +                     |

Estimated prevalence percent<sup>a</sup> on January 1, 2002, 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 <sup>f</sup><br>All Ages |         |         |
|-------------------------------------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------------------------------------|---------|---------|
|                                     | All Ages             | 0-9     | 10-19   | 20-29   | 30-39   | 40-49   | 50-59   | 60-69   | 70-79                                 |         |         |
| <u>Race/Sex</u>                     |                      |         |         |         |         |         |         |         |                                       |         |         |
| All Races <sup>c</sup>              | 0.0057%              | 0.0016% | 0.0005% | 0.0005% | 0.0010% | 0.0040% | 0.0114% | 0.0221% | 0.0262%                               | 0.0172% | 0.0061% |
| Males                               | 0.0076%              | 0.0015% | 0.0006% | 0.0005% | 0.0012% | 0.0057% | 0.0179% | 0.0316% | 0.0381%                               | 0.0242% | 0.0088% |
| Females                             | 0.0039%              | 0.0018% | 0.0004% | 0.0006% | 0.0007% | 0.0023% | 0.0052% | 0.0137% | 0.0172%                               | 0.0134% | 0.0039% |
| White <sup>c</sup>                  | 0.0044%              | 0.0016% | 0.0005% | 0.0004% | 0.0008% | 0.0032% | 0.0084% | 0.0151% | 0.0185%                               | 0.0130% | 0.0045% |
| Males                               | 0.0057%              | 0.0014% | 0.0007% | 0.0004% | 0.0008% | 0.0044% | 0.0130% | 0.0214% | 0.0261%                               | 0.0174% | 0.0063% |
| Females                             | 0.0031%              | 0.0018% | 0.0004% | 0.0005% | 0.0007% | 0.0020% | 0.0040% | 0.0094% | 0.0127%                               | 0.0106% | 0.0030% |
| Black <sup>c</sup>                  | 0.0044%              | -       | -       | -       | -       | 0.0035% | 0.0146% | 0.0208% | 0.0255%                               | 0.0079% | 0.0058% |
| Males                               | 0.0065%              | -       | -       | -       | -       | 0.0056% | 0.0249% | 0.0347% | 0.0414%                               | -       | 0.0093% |
| Females                             | 0.0025%              | -       | -       | -       | -       | 0.0017% | 0.0060% | 0.0098% | 0.0150%                               | -       | 0.0031% |
| Asian/Pacific Islander <sup>c</sup> | 0.0158%              | 0.0029% | -       | 0.0011% | 0.0026% | 0.0102% | 0.0282% | 0.0704% | 0.0824%                               | 0.0619% | 0.0176% |
| Males                               | 0.0222%              | 0.0020% | -       | -       | 0.0044% | 0.0156% | 0.0474% | 0.1036% | 0.1251%                               | 0.0857% | 0.0265% |
| Females                             | 0.0099%              | 0.0037% | -       | -       | -       | 0.0053% | 0.0113% | 0.0429% | 0.0507%                               | 0.0456% | 0.0104% |
| Hispanic <sup>d</sup>               | 0.0045%              | 0.0015% | 0.0007% | 0.0004% | 0.0008% | 0.0051% | 0.0142% | 0.0340% | 0.0380%                               | 0.0241% | 0.0085% |
| Males                               | 0.0056%              | 0.0014% | 0.0011% | -       | 0.0010% | 0.0072% | 0.0235% | 0.0445% | 0.0551%                               | 0.0259% | 0.0117% |
| Females                             | 0.0033%              | 0.0016% | -       | -       | -       | 0.0030% | 0.0055% | 0.0253% | 0.0259%                               | 0.0231% | 0.0057% |

<sup>a</sup> US 2002 cancer prevalence counts are based on 2002 cancer prevalence proportions from the SEER registries and 1/1/2002 US population estimates based on the average of 2001 and 2002 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.

<sup>b c d</sup> Statistics based on b) SEER 9 Areas c) SEER 11 Areas and Rural Georgia d) SEER 11 Areas excluding Hawaii and Detroit.

<sup>e</sup> Maximum limited-duration prevalence: 27 years for 1975-2002 SEER 9 data; 12 years for 1990-2002 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

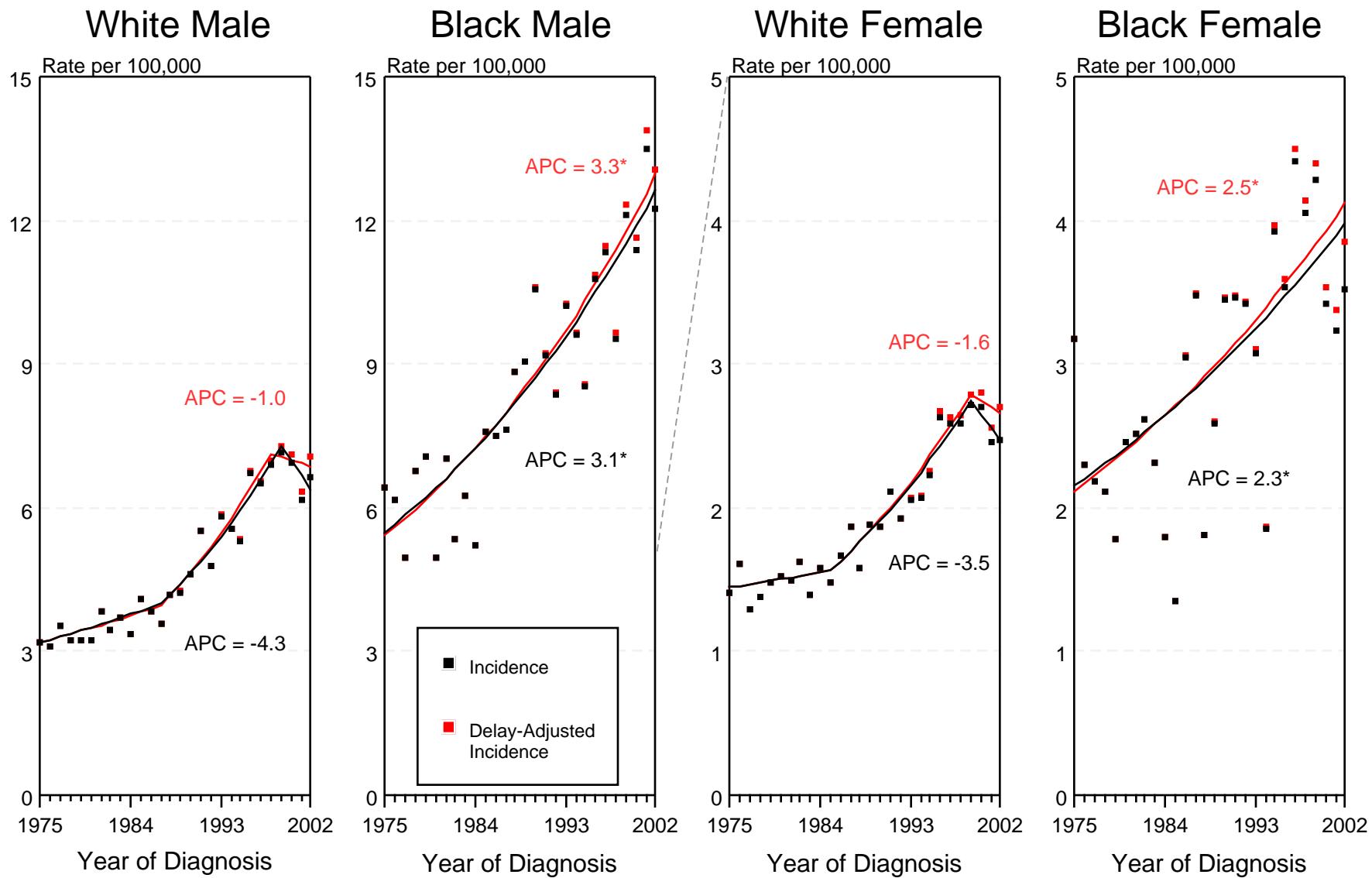
<sup>f g h i</sup> Percentages are age-adjusted to the 2000 US standard population by 5-year age groups.

(g) Cases diagnosed more than 27 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (h) Complete prevalence is obtained by summing 0 to <27 and >=27. (i) Age-specific completeness index was approximated using empirical data from historical Connecticut tumor registry.

- Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.

+ Not available.

# SEER Incidence and Delay Adjusted Incidence Rates+ Liver and Intrahepatic Bile Duct Cancer, by Race and Sex

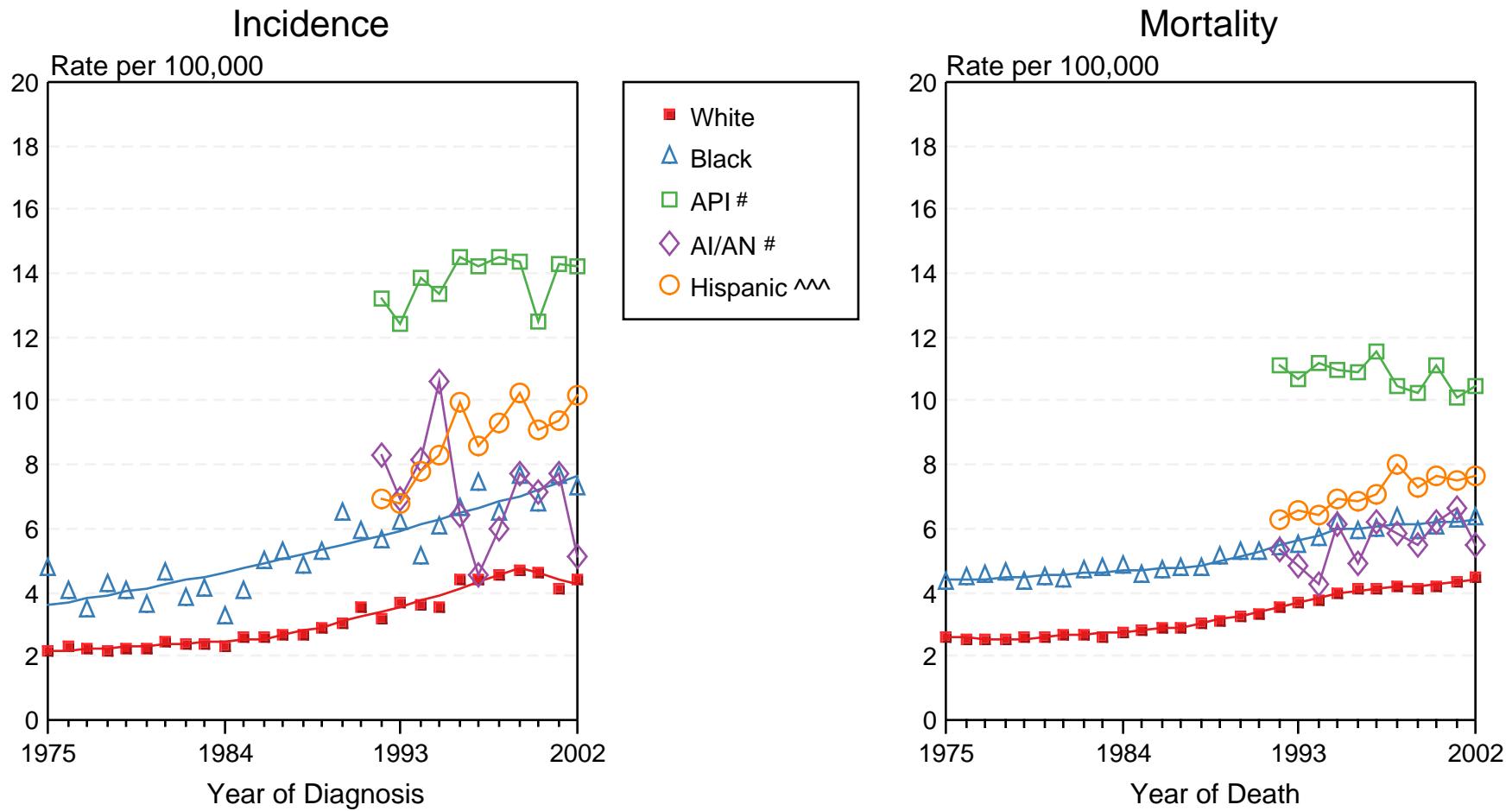


+ Source: SEER 9 areas. Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.0, April 2005, National Cancer Institute.  
 \* The APC is significantly different from zero ( $p < 0.05$ ).

Figure XIV-1

# SEER Incidence and US Death Rates + Liver and Intrahepatic Bile Duct Cancer, Both Sexes

Joinpoint Analyses for 1975-2002 for Whites and Blacks  
Rates for 1992-2002 for Asian/Pacific Islander, American Indian/Alaska Native and Hispanic



+ Source: Incidence data for whites and blacks is from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indian/Alaska Natives and Hispanics is from the SEER 13 Areas (SEER 9 Areas, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Mortality data is from NCHS public use data file for the total US. Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines for whites and blacks are calculated using the Joinpoint Regression Program Version 3.0, April 2005, National Cancer Institute.

# API = Asian/Pacific Islander. AI/AN = American Indian/Alaska Native.  
^^^ Hispanic is not mutually exclusive from Whites, Blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics excludes cases from Detroit, Hawaii, Alaska Native Registry and Rural Georgia. Mortality data for Hispanics excludes cases from Connecticut, Maine, Maryland, Minnesota, Oklahoma, New Hampshire, New York, North Dakota, and Vermont.

Figure XIV-2