

Table VI-1
COLON AND RECTUM CANCER (Invasive)

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

| | | Joinpoint Segment 1 | | Joinpoint Segment 2 | | Joinpoint Segment 3 | | Joinpoint Segment 4 | |
|--|-----------------|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|-------------------|
| | | Year | APC | Year | APC | Year | APC | Year | APC |
| <u>SEER Cancer Incidence^a</u> | | | | | | | | | |
| All Races | Male and Female | 1975-1985 | 0.8 ^c | 1985-1995 | -1.8 ^c | 1995-1998 | 1.2 | 1998-2001 | -2.9 ^c |
| All Races | Male | 1975-1986 | 1.1 ^c | 1986-1995 | -2.1 ^c | 1995-1998 | 1.0 | 1998-2001 | -3.5 ^c |
| All Races | Female | 1975-1985 | 0.3 ^c | 1985-1995 | -1.9 ^c | 1995-1998 | 1.7 | 1998-2001 | -2.8 ^c |
| White | Male and Female | 1975-1985 | 0.8 ^c | 1985-1995 | -2.0 ^c | 1995-1998 | 1.5 | 1998-2001 | -3.4 ^c |
| White | Male | 1975-1986 | 1.1 ^c | 1986-1995 | -2.3 ^c | 1995-1998 | 1.3 | 1998-2001 | -4.0 ^c |
| White | Female | 1975-1985 | 0.3 | 1985-1995 | -2.1 ^c | 1995-1998 | 2.1 | 1998-2001 | -3.3 ^c |
| Black | Male and Female | 1975-1980 | 3.3 ^c | 1980-2001 | -0.2 | | | | |
| Black | Male | 1975-1980 | 4.6 | 1980-2001 | -0.1 | | | | |
| Black | Female | 1975-2001 | -0.1 | | | | | | |
| <u>SEER Delay-Adjusted Incidence^a</u> | | | | | | | | | |
| All Races | Male and Female | 1975-1985 | 0.8 ^c | 1985-1995 | -1.8 ^c | 1995-1998 | 1.3 | 1998-2001 | -2.4 ^c |
| All Races | Male | 1975-1986 | 1.1 ^c | 1986-1995 | -2.1 ^c | 1995-1998 | 1.1 | 1998-2001 | -2.9 ^c |
| All Races | Female | 1975-1985 | 0.3 ^c | 1985-1995 | -1.9 ^c | 1995-1998 | 1.8 | 1998-2001 | -2.3 ^c |
| White | Male and Female | 1975-1985 | 0.8 ^c | 1985-1995 | -1.9 ^c | 1995-1998 | 1.6 | 1998-2001 | -2.7 ^c |
| White | Male | 1975-1986 | 1.1 ^c | 1986-1995 | -2.3 ^c | 1995-1998 | 1.4 | 1998-2001 | -3.3 ^c |
| White | Female | 1975-1985 | 0.3 | 1985-1995 | -2.0 ^c | 1995-1998 | 2.1 | 1998-2001 | -2.6 ^c |
| Black | Male and Female | 1975-1980 | 3.1 ^c | 1980-2001 | -0.1 | | | | |
| Black | Male | 1975-2001 | 0.4 ^c | | | | | | |
| Black | Female | 1975-2001 | 0.0 | | | | | | |
| <u>U.S. Cancer Mortality^b</u> | | | | | | | | | |
| All Races | Male and Female | 1975-1984 | -0.5 ^c | 1984-2001 | -1.8 ^c | | | | |
| All Races | Male | 1975-1984 | -0.1 | 1984-1990 | -1.4 ^c | 1990-2001 | -2.0 ^c | | |
| All Races | Female | 1975-1984 | -1.0 ^c | 1984-2001 | -1.8 ^c | | | | |
| White | Male and Female | 1975-1984 | -0.6 ^c | 1984-2001 | -1.9 ^c | | | | |
| White | Male | 1975-1979 | 0.5 | 1979-1987 | -0.8 ^c | 1987-2001 | -2.1 ^c | | |
| White | Female | 1975-1984 | -1.2 ^c | 1984-2001 | -2.0 ^c | | | | |
| Black | Male and Female | 1975-1990 | 0.7 ^c | 1990-2001 | -0.8 ^c | | | | |
| Black | Male | 1975-1990 | 1.2 ^c | 1990-2001 | -0.7 ^c | | | | |
| Black | Female | 1975-1985 | 0.7 ^c | 1985-2001 | -0.7 ^c | | | | |

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

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

^b Trends are from the SEER 9 areas.

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

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

Table VI-2
COLON CANCER (Invasive) AND RECTUM CANCER (Invasive)

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

| | | <u>Joinpoint Segment 1</u> | | <u>Joinpoint Segment 2</u> | | <u>Joinpoint Segment 3</u> | | <u>Joinpoint Segment 4</u> | |
|---|-----------------|----------------------------|------------------|----------------------------|-------------------|----------------------------|-------------------|----------------------------|-------------------|
| | | <u>Year</u> | <u>APC</u> | <u>Year</u> | <u>APC</u> | <u>Year</u> | <u>APC</u> | <u>Year</u> | <u>APC</u> |
| <u>SEER Cancer Incidence for Colon^a</u> | | | | | | | | | |
| All Races | Male and Female | 1975-1985 | 1.2 ^b | 1985-1995 | -1.7 ^b | 1995-1998 | 0.7 | 1998-2001 | -2.6 ^b |
| All Races | Male | 1975-1985 | 1.8 ^b | 1985-2001 | -1.6 ^b | | | | |
| All Races | Female | 1975-1985 | 0.7 ^b | 1985-1988 | -3.0 | 1988-2001 | -0.8 ^b | | |
| White | Male and Female | 1975-1985 | 1.1 ^b | 1985-1995 | -1.9 ^b | 1995-1998 | 1.0 | 1998-2001 | -3.0 ^b |
| White | Male | 1975-1986 | 1.6 ^b | 1986-1995 | -2.2 ^b | 1995-1998 | 0.9 | 1998-2001 | -4.2 ^b |
| White | Female | 1975-1985 | 0.6 ^b | 1985-1993 | -2.0 ^b | 1993-2001 | -0.4 | | |
| Black | Male and Female | 1975-1980 | 3.7 ^b | 1980-2001 | -0.2 | | | | |
| Black | Male | 1975-1989 | 1.5 ^b | 1989-2001 | -0.9 | | | | |
| Black | Female | 1975-2001 | -0.1 | | | | | | |
| <u>SEER Cancer Incidence for Rectum^a</u> | | | | | | | | | |
| All Races | Male and Female | 1975-1987 | -0.3 | 1987-1995 | -2.4 ^b | 1995-1998 | 3.0 | 1998-2001 | -3.9 ^b |
| All Races | Male | 1975-1989 | -0.2 | 1989-1993 | -3.6 | 1993-2001 | -0.3 | | |
| All Races | Female | 1975-1984 | -0.2 | 1984-1995 | -2.2 ^b | 1995-1998 | 3.5 | 1998-2001 | -5.2 ^b |
| White | Male and Female | 1975-1985 | -0.1 | 1985-1995 | -2.2 ^b | 1995-1999 | 1.8 | 1999-2001 | -6.7 |
| White | Male | 1975-1989 | -0.2 | 1989-1994 | -4.0 ^b | 1994-1999 | 1.2 | 1999-2001 | -5.5 |
| White | Female | 1975-1984 | -0.1 | 1984-1995 | -2.4 ^b | 1995-1998 | 3.7 | 1998-2001 | -5.9 ^b |
| Black | Male and Female | 1975-2001 | 0.0 | | | | | | |
| Black | Male | 1975-2001 | 0.2 | | | | | | |
| Black | Female | 1975-2001 | -0.2 | | | | | | |

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

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

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

Table VI-3
COLON AND RECTUM CANCER (Invasive)SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, BY RACE AND SEX

| | All Races | | | Whites | | | Blacks | | |
|---------------------------------------|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
| | Total | Males | Females | Total | Males | Females | Total | Males | Females |
| <u>AGE-ADJUSTED RATES</u> | | | | | | | | | |
| <u>YEAR OF DIAGNOSIS:</u> | | | | | | | | | |
| 1975 | 59.5 | 68.3 | 53.6 | 60.1 | 69.7 | 54.0 | 56.7 | 59.2 | 54.5 |
| 1976 | 61.3 | 71.7 | 54.1 | 62.1 | 72.6 | 55.0 | 55.1 | 58.5 | 51.3 |
| 1977 | 62.4 | 73.5 | 54.9 | 63.2 | 74.3 | 55.7 | 60.7 | 75.8 | 51.4 |
| 1978 | 62.0 | 72.3 | 55.2 | 62.7 | 73.9 | 55.5 | 62.2 | 65.7 | 60.6 |
| 1979 | 62.3 | 74.1 | 54.5 | 62.9 | 75.2 | 54.9 | 58.8 | 62.2 | 56.3 |
| 1980 | 63.7 | 74.5 | 56.5 | 63.9 | 74.8 | 56.8 | 70.3 | 79.2 | 63.7 |
| 1981 | 64.2 | 75.8 | 56.4 | 64.9 | 76.7 | 57.1 | 62.7 | 72.7 | 55.9 |
| 1982 | 62.8 | 75.1 | 54.5 | 63.4 | 76.2 | 55.0 | 61.1 | 68.8 | 55.8 |
| 1983 | 63.6 | 75.6 | 55.6 | 64.2 | 76.6 | 56.0 | 66.8 | 75.7 | 61.2 |
| 1984 | 64.8 | 77.6 | 56.0 | 65.8 | 79.2 | 56.7 | 62.0 | 70.0 | 57.8 |
| 1985 | 66.3 | 79.0 | 57.4 | 67.1 | 80.0 | 58.4 | 63.9 | 74.0 | 56.4 |
| 1986 | 64.2 | 77.8 | 54.7 | 64.6 | 79.0 | 54.7 | 64.3 | 72.4 | 58.6 |
| 1987 | 62.7 | 77.6 | 52.6 | 62.9 | 78.3 | 52.6 | 66.0 | 77.2 | 58.9 |
| 1988 | 61.4 | 75.2 | 51.8 | 61.6 | 75.8 | 51.7 | 62.9 | 72.1 | 56.7 |
| 1989 | 61.7 | 74.9 | 52.5 | 62.0 | 75.4 | 52.8 | 64.4 | 79.2 | 54.6 |
| 1990 | 60.7 | 74.4 | 51.2 | 60.7 | 74.8 | 51.0 | 66.5 | 74.5 | 61.5 |
| 1991 | 59.5 | 73.0 | 50.0 | 59.3 | 73.2 | 49.6 | 65.7 | 76.3 | 58.3 |
| 1992 | 58.0 | 70.4 | 49.2 | 57.9 | 70.7 | 48.7 | 65.4 | 78.3 | 57.3 |
| 1993 | 56.8 | 68.5 | 48.3 | 56.4 | 68.1 | 47.8 | 64.3 | 78.0 | 55.1 |
| 1994 | 55.7 | 66.4 | 47.7 | 55.5 | 66.5 | 47.2 | 63.9 | 74.9 | 57.2 |
| 1995 | 54.0 | 63.7 | 46.9 | 53.6 | 63.3 | 46.5 | 61.9 | 70.9 | 56.1 |
| 1996 | 54.6 | 65.4 | 46.6 | 54.6 | 65.7 | 46.2 | 58.2 | 65.9 | 52.9 |
| 1997 | 56.3 | 68.0 | 47.9 | 56.3 | 67.9 | 48.0 | 63.8 | 76.9 | 55.2 |
| 1998 | 56.6 | 66.7 | 49.2 | 56.5 | 67.0 | 48.9 | 62.2 | 72.8 | 55.5 |
| 1999 | 55.2 | 65.2 | 47.7 | 55.0 | 65.3 | 47.1 | 63.0 | 71.9 | 57.8 |
| 2000 | 53.5 | 63.0 | 46.2 | 53.1 | 62.4 | 45.9 | 63.3 | 72.7 | 57.2 |
| 2001 | 51.8 | 60.6 | 44.8 | 51.1 | 59.9 | 44.1 | 61.4 | 71.6 | 54.7 |
| <u>AGE-ADJUSTED RATES, 1997-2001</u> | | | | | | | | | |
| <u>AGE AT DIAGNOSIS:</u> | | | | | | | | | |
| All ages | 54.6 | 64.6 | 47.1 | 54.4 | 64.4 | 46.8 | 62.7 | 73.1 | 56.1 |
| Under 65 | 18.5 | 21.5 | 15.8 | 17.9 | 20.8 | 15.0 | 24.6 | 27.4 | 22.3 |
| 65 and over | 304.2 | 363.0 | 263.9 | 306.7 | 365.9 | 265.9 | 326.2 | 389.3 | 289.7 |
| All ages(IARC world std) ^b | 33.1 | 39.1 | 28.2 | 32.8 | 38.8 | 27.8 | 39.5 | 45.3 | 35.4 |
| <u>AGE-SPECIFIC RATES, 1997-2001</u> | | | | | | | | | |
| <u>AGE AT DIAGNOSIS:</u> | | | | | | | | | |
| <1 | - | - | - | - | - | - | - | - | - |
| 1-4 | - | - | - | - | - | - | - | - | - |
| 5-9 | - | - | - | - | - | - | - | - | - |
| 10-14 | - | - | - | - | - | - | - | - | - |
| 15-19 | - | - | - | - | - | - | - | - | - |
| 20-24 | 0.8 | 0.8 | 0.7 | 0.7 | 0.8 | - | - | - | - |
| 25-29 | 1.7 | 1.6 | 1.8 | 1.6 | 1.5 | 1.8 | 2.1 | - | - |
| 30-34 | 3.7 | 3.7 | 3.6 | 3.6 | 3.7 | 3.6 | 3.5 | - | 3.9 |
| 35-39 | 7.1 | 7.7 | 6.5 | 6.7 | 7.3 | 6.1 | 8.5 | 8.9 | 8.3 |
| 40-44 | 13.2 | 14.1 | 12.2 | 12.4 | 13.5 | 11.3 | 17.1 | 18.2 | 16.0 |
| 45-49 | 26.7 | 28.7 | 24.8 | 24.9 | 27.0 | 22.7 | 36.4 | 37.6 | 35.4 |
| 50-54 | 48.8 | 56.5 | 41.5 | 46.0 | 53.3 | 38.7 | 67.3 | 77.7 | 58.5 |
| 55-59 | 81.1 | 96.3 | 66.6 | 79.0 | 95.5 | 62.9 | 110.6 | 117.1 | 105.1 |
| 60-64 | 133.1 | 160.8 | 107.8 | 131.6 | 157.0 | 107.8 | 173.5 | 207.2 | 146.4 |
| 65-69 | 196.7 | 237.0 | 162.2 | 196.4 | 238.0 | 160.0 | 228.2 | 249.8 | 211.9 |
| 70-74 | 263.8 | 317.9 | 221.4 | 266.5 | 319.8 | 223.9 | 283.0 | 338.9 | 245.1 |
| 75-79 | 338.7 | 403.9 | 293.0 | 340.3 | 404.5 | 295.2 | 381.2 | 465.4 | 328.4 |
| 80-84 | 403.5 | 479.3 | 357.8 | 407.5 | 485.4 | 360.8 | 434.3 | 523.5 | 387.9 |
| 85+ | 450.2 | 529.0 | 417.1 | 458.4 | 538.2 | 425.9 | 411.2 | 513.7 | 372.2 |

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

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

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

Table VI-4
COLON CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, BY RACE AND SEX

| | All Races | | | Whites | | | Blacks | | |
|---------------------------------------|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
| | Total | Males | Females | Total | Males | Females | Total | Males | Females |
| <u>AGE-ADJUSTED RATES</u> | | | | | | | | | |
| YEAR OF DIAGNOSIS: | | | | | | | | | |
| 1975 | 41.3 | 45.3 | 38.9 | 41.7 | 46.1 | 39.1 | 42.7 | 44.0 | 41.5 |
| 1976 | 43.1 | 47.8 | 39.9 | 43.4 | 48.2 | 40.4 | 43.1 | 43.6 | 42.0 |
| 1977 | 44.0 | 49.5 | 40.3 | 44.7 | 50.1 | 41.2 | 45.4 | 58.4 | 37.7 |
| 1978 | 43.8 | 49.1 | 40.6 | 44.1 | 49.9 | 40.6 | 47.8 | 48.8 | 47.9 |
| 1979 | 43.8 | 50.2 | 39.6 | 44.1 | 51.0 | 39.7 | 44.9 | 46.1 | 44.1 |
| 1980 | 45.5 | 50.6 | 42.3 | 45.6 | 50.9 | 42.3 | 54.9 | 58.0 | 52.6 |
| 1981 | 45.4 | 51.3 | 41.7 | 45.9 | 52.0 | 42.1 | 46.8 | 50.5 | 44.3 |
| 1982 | 45.7 | 53.4 | 40.7 | 46.0 | 54.1 | 40.8 | 48.2 | 52.3 | 45.2 |
| 1983 | 46.1 | 53.0 | 41.6 | 46.4 | 53.5 | 41.9 | 50.2 | 58.5 | 45.3 |
| 1984 | 46.5 | 54.6 | 41.3 | 47.0 | 55.5 | 41.6 | 48.5 | 53.9 | 45.8 |
| 1985 | 47.9 | 54.9 | 43.0 | 48.4 | 55.5 | 43.7 | 49.9 | 57.2 | 44.3 |
| 1986 | 46.8 | 54.4 | 41.6 | 47.1 | 55.2 | 41.5 | 49.0 | 54.7 | 45.5 |
| 1987 | 45.2 | 54.4 | 39.1 | 45.1 | 54.6 | 39.0 | 51.1 | 59.6 | 45.6 |
| 1988 | 44.3 | 52.6 | 38.7 | 44.3 | 52.9 | 38.4 | 48.8 | 53.9 | 45.5 |
| 1989 | 44.4 | 52.4 | 39.0 | 44.5 | 52.4 | 39.3 | 48.9 | 60.3 | 41.6 |
| 1990 | 44.1 | 51.9 | 38.9 | 44.0 | 51.9 | 38.8 | 52.0 | 57.8 | 48.5 |
| 1991 | 43.6 | 51.9 | 37.9 | 43.3 | 51.9 | 37.4 | 51.8 | 57.8 | 47.8 |
| 1992 | 42.3 | 49.7 | 37.2 | 42.1 | 49.8 | 36.7 | 50.8 | 60.2 | 45.2 |
| 1993 | 41.6 | 49.0 | 36.3 | 41.1 | 48.7 | 35.7 | 51.1 | 60.2 | 45.1 |
| 1994 | 40.8 | 47.0 | 36.3 | 40.7 | 47.1 | 35.9 | 49.5 | 56.5 | 45.6 |
| 1995 | 39.6 | 45.0 | 35.8 | 39.2 | 44.6 | 35.4 | 48.7 | 54.6 | 45.4 |
| 1996 | 39.3 | 45.3 | 34.8 | 39.2 | 45.7 | 34.3 | 44.5 | 47.9 | 42.2 |
| 1997 | 41.0 | 48.3 | 35.9 | 41.1 | 48.2 | 36.1 | 48.7 | 58.6 | 41.9 |
| 1998 | 40.9 | 46.6 | 36.9 | 40.8 | 46.9 | 36.5 | 47.1 | 53.5 | 43.8 |
| 1999 | 39.6 | 45.1 | 35.6 | 39.4 | 45.0 | 35.1 | 48.3 | 54.9 | 44.6 |
| 2000 | 38.8 | 43.9 | 35.0 | 38.5 | 43.4 | 34.7 | 50.0 | 56.0 | 46.2 |
| 2001 | 37.8 | 42.1 | 34.4 | 37.3 | 41.7 | 33.8 | 46.8 | 52.9 | 42.8 |
| <u>AGE-ADJUSTED RATES, 1997-2001</u> | | | | | | | | | |
| AGE AT DIAGNOSIS: | | | | | | | | | |
| All ages | 39.6 | 45.1 | 35.5 | 39.4 | 45.0 | 35.2 | 48.2 | 55.1 | 43.9 |
| Under 65 | 11.9 | 13.3 | 10.6 | 11.4 | 12.9 | 10.0 | 17.3 | 18.8 | 16.1 |
| 65 and over | 231.0 | 265.3 | 207.9 | 232.6 | 267.0 | 209.4 | 261.6 | 306.3 | 236.2 |
| All ages(IARC world std) ^b | 23.3 | 26.5 | 20.7 | 23.0 | 26.2 | 20.3 | 29.6 | 33.2 | 27.2 |
| <u>AGE-SPECIFIC RATES, 1997-2001</u> | | | | | | | | | |
| AGE AT DIAGNOSIS: | | | | | | | | | |
| <1 | - | - | - | - | - | - | - | - | - |
| 1-4 | - | - | - | - | - | - | - | - | - |
| 5-9 | - | - | - | - | - | - | - | - | - |
| 10-14 | - | - | - | - | - | - | - | - | - |
| 15-19 | - | - | - | - | - | - | - | - | - |
| 20-24 | 0.5 | - | - | 0.4 | - | - | - | - | - |
| 25-29 | 1.1 | 0.9 | 1.2 | 1.0 | 0.9 | 1.2 | - | - | - |
| 30-34 | 2.2 | 2.2 | 2.2 | 2.1 | 2.2 | 2.1 | 2.6 | - | - |
| 35-39 | 4.3 | 4.7 | 3.9 | 4.1 | 4.5 | 3.6 | 5.0 | 4.6 | 5.3 |
| 40-44 | 8.1 | 8.5 | 7.7 | 7.5 | 8.2 | 6.9 | 12.0 | 12.7 | 11.4 |
| 45-49 | 16.1 | 16.5 | 15.6 | 15.0 | 15.8 | 14.1 | 23.9 | 22.5 | 25.2 |
| 50-54 | 30.3 | 33.3 | 27.5 | 28.3 | 31.1 | 25.4 | 46.8 | 53.6 | 41.0 |
| 55-59 | 51.8 | 59.4 | 44.6 | 50.0 | 58.7 | 41.6 | 78.1 | 82.4 | 74.5 |
| 60-64 | 91.3 | 105.7 | 78.2 | 89.8 | 102.8 | 77.5 | 128.0 | 148.5 | 111.4 |
| 65-69 | 138.4 | 159.4 | 120.4 | 137.2 | 158.5 | 118.5 | 175.0 | 185.9 | 166.9 |
| 70-74 | 195.9 | 225.0 | 173.0 | 197.3 | 225.6 | 174.7 | 221.4 | 257.9 | 196.8 |
| 75-79 | 258.1 | 298.7 | 229.5 | 259.3 | 299.3 | 231.1 | 303.8 | 368.4 | 263.3 |
| 80-84 | 315.1 | 359.0 | 288.6 | 318.3 | 363.3 | 291.3 | 360.0 | 421.4 | 328.1 |
| 85+ | 363.9 | 416.1 | 342.0 | 370.6 | 424.2 | 348.8 | 348.3 | 431.3 | 316.8 |

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

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

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

Table VI-5
RECTUM CANCER (Invasive)

SEER INCIDENCE RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, BY RACE AND SEX

| | All Races | | | Whites | | | Blacks | | |
|---------------------------------------|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
| | Total | Males | Females | Total | Males | Females | Total | Males | Females |
| <u>AGE-ADJUSTED RATES</u> | | | | | | | | | |
| YEAR OF DIAGNOSIS: | | | | | | | | | |
| 1975 | 18.1 | 23.0 | 14.7 | 18.4 | 23.6 | 14.9 | 14.0 | 15.2 | 13.0 |
| 1976 | 18.3 | 23.9 | 14.2 | 18.7 | 24.4 | 14.6 | 12.0 | 14.9 | 9.4 |
| 1977 | 18.4 | 23.9 | 14.6 | 18.5 | 24.2 | 14.5 | 15.3 | 17.3 | 13.8 |
| 1978 | 18.1 | 23.2 | 14.6 | 18.6 | 24.0 | 14.9 | 14.4 | 16.9 | 12.8 |
| 1979 | 18.6 | 23.9 | 14.9 | 18.8 | 24.2 | 15.2 | 13.8 | 16.1 | 12.2 |
| 1980 | 18.1 | 23.8 | 14.2 | 18.3 | 24.0 | 14.5 | 15.4 | 21.2 | 11.1 |
| 1981 | 18.8 | 24.5 | 14.8 | 19.0 | 24.7 | 15.0 | 15.9 | 22.2 | 11.6 |
| 1982 | 17.0 | 21.7 | 13.8 | 17.4 | 22.2 | 14.2 | 12.9 | 16.5 | 10.6 |
| 1983 | 17.5 | 22.6 | 13.9 | 17.8 | 23.1 | 14.1 | 16.5 | 17.2 | 15.9 |
| 1984 | 18.3 | 23.0 | 14.7 | 18.8 | 23.7 | 15.1 | 13.6 | 16.1 | 12.0 |
| 1985 | 18.4 | 24.1 | 14.4 | 18.8 | 24.5 | 14.7 | 14.0 | 16.8 | 12.1 |
| 1986 | 17.4 | 23.4 | 13.1 | 17.5 | 23.7 | 13.2 | 15.2 | 17.7 | 13.2 |
| 1987 | 17.5 | 23.1 | 13.5 | 17.8 | 23.8 | 13.5 | 14.9 | 17.6 | 13.3 |
| 1988 | 17.1 | 22.6 | 13.1 | 17.3 | 22.9 | 13.3 | 14.1 | 18.1 | 11.2 |
| 1989 | 17.3 | 22.5 | 13.5 | 17.5 | 22.9 | 13.5 | 15.5 | 18.9 | 13.1 |
| 1990 | 16.5 | 22.5 | 12.3 | 16.6 | 22.9 | 12.3 | 14.5 | 16.7 | 13.0 |
| 1991 | 15.9 | 21.1 | 12.1 | 16.0 | 21.3 | 12.2 | 13.9 | 18.5 | 10.5 |
| 1992 | 15.7 | 20.8 | 12.0 | 15.8 | 21.0 | 12.0 | 14.6 | 18.1 | 12.1 |
| 1993 | 15.2 | 19.6 | 12.0 | 15.3 | 19.5 | 12.1 | 13.2 | 17.7 | 10.0 |
| 1994 | 14.8 | 19.4 | 11.4 | 14.8 | 19.4 | 11.3 | 14.4 | 18.4 | 11.6 |
| 1995 | 14.4 | 18.8 | 11.1 | 14.4 | 18.7 | 11.1 | 13.2 | 16.3 | 10.7 |
| 1996 | 15.4 | 20.2 | 11.8 | 15.4 | 20.0 | 11.9 | 13.7 | 18.0 | 10.7 |
| 1997 | 15.3 | 19.7 | 11.9 | 15.3 | 19.6 | 11.9 | 15.1 | 18.3 | 13.3 |
| 1998 | 15.7 | 20.1 | 12.2 | 15.7 | 20.1 | 12.4 | 15.0 | 19.3 | 11.8 |
| 1999 | 15.6 | 20.1 | 12.1 | 15.6 | 20.3 | 12.0 | 14.7 | 17.0 | 13.2 |
| 2000 | 14.6 | 19.1 | 11.2 | 14.6 | 19.0 | 11.2 | 13.3 | 16.7 | 10.9 |
| 2001 | 14.0 | 18.4 | 10.5 | 13.8 | 18.2 | 10.3 | 14.6 | 18.7 | 11.9 |
| <u>AGE-ADJUSTED RATES, 1997-2001</u> | | | | | | | | | |
| AGE AT DIAGNOSIS: | | | | | | | | | |
| All ages | 15.0 | 19.5 | 11.6 | 15.0 | 19.4 | 11.5 | 14.5 | 18.0 | 12.2 |
| Under 65 | 6.6 | 8.2 | 5.1 | 6.5 | 7.9 | 5.0 | 7.3 | 8.6 | 6.2 |
| 65 and over | 73.2 | 97.7 | 56.0 | 74.1 | 98.9 | 56.6 | 64.6 | 83.0 | 53.5 |
| All ages(IARC world std) ^b | 9.8 | 12.7 | 7.5 | 9.8 | 12.6 | 7.4 | 9.9 | 12.0 | 8.3 |
| <u>AGE-SPECIFIC RATES, 1997-2001</u> | | | | | | | | | |
| AGE AT DIAGNOSIS: | | | | | | | | | |
| <1 | - | - | - | - | - | - | - | - | - |
| 1-4 | - | - | - | - | - | - | - | - | - |
| 5-9 | - | - | - | - | - | - | - | - | - |
| 10-14 | - | - | - | - | - | - | - | - | - |
| 15-19 | - | - | - | - | - | - | - | - | - |
| 20-24 | - | - | - | - | - | - | - | - | - |
| 25-29 | 0.6 | 0.7 | 0.6 | 0.6 | - | - | - | - | - |
| 30-34 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | - | - | - |
| 35-39 | 2.8 | 3.1 | 2.6 | 2.7 | 2.9 | 2.4 | 3.6 | 4.3 | - |
| 40-44 | 5.1 | 5.6 | 4.6 | 4.9 | 5.3 | 4.5 | 5.0 | 5.6 | 4.6 |
| 45-49 | 10.6 | 12.1 | 9.2 | 9.9 | 11.2 | 8.6 | 12.5 | 15.1 | 10.2 |
| 50-54 | 18.5 | 23.3 | 14.0 | 17.7 | 22.2 | 13.3 | 20.5 | 24.1 | 17.5 |
| 55-59 | 29.3 | 36.9 | 22.0 | 28.9 | 36.8 | 21.2 | 32.5 | 34.7 | 30.6 |
| 60-64 | 41.8 | 55.1 | 29.6 | 41.9 | 54.2 | 30.3 | 45.5 | 58.7 | 35.0 |
| 65-69 | 58.3 | 77.6 | 41.7 | 59.2 | 79.4 | 41.5 | 53.1 | 64.0 | 45.0 |
| 70-74 | 67.9 | 92.9 | 48.4 | 69.2 | 94.2 | 49.2 | 61.5 | 81.0 | 48.3 |
| 75-79 | 80.7 | 105.2 | 63.4 | 81.0 | 105.2 | 64.1 | 77.4 | 97.0 | 65.1 |
| 80-84 | 88.4 | 120.3 | 69.2 | 89.2 | 122.1 | 69.5 | 74.3 | 102.2 | 59.8 |
| 85+ | 86.3 | 112.9 | 75.1 | 87.8 | 114.0 | 77.1 | 62.9 | 82.5 | 55.4 |

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

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

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

Table VI-6
COLON AND RECTUM CANCER (Invasive)U.S. DEATH RATES, AGE-ADJUSTED AND AGE-SPECIFIC RATES^a, BY RACE AND SEX

| | All Races | | | Whites | | | Blacks | | |
|---------------------------------------|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
| | Total | Males | Females | Total | Males | Females | Total | Males | Females |
| <u>AGE-ADJUSTED RATES</u> | | | | | | | | | |
| <u>YEAR OF DEATH:</u> | | | | | | | | | |
| 1975 | 28.1 | 32.8 | 25.0 | 28.3 | 33.2 | 25.1 | 26.8 | 30.1 | 24.6 |
| 1976 | 28.6 | 33.3 | 25.4 | 28.7 | 33.8 | 25.5 | 28.2 | 31.2 | 26.3 |
| 1977 | 28.2 | 33.2 | 24.9 | 28.3 | 33.5 | 25.0 | 27.6 | 31.4 | 24.9 |
| 1978 | 28.5 | 33.7 | 25.1 | 28.7 | 34.1 | 25.2 | 27.9 | 31.2 | 25.7 |
| 1979 | 28.1 | 33.6 | 24.6 | 28.2 | 33.9 | 24.6 | 28.2 | 31.6 | 26.0 |
| 1980 | 28.1 | 33.7 | 24.4 | 28.1 | 34.0 | 24.3 | 28.8 | 33.2 | 25.9 |
| 1981 | 27.5 | 33.0 | 24.0 | 27.5 | 33.2 | 23.9 | 28.9 | 32.8 | 26.3 |
| 1982 | 27.2 | 33.0 | 23.6 | 27.2 | 33.1 | 23.4 | 29.1 | 33.7 | 26.1 |
| 1983 | 27.1 | 33.1 | 23.2 | 27.1 | 33.3 | 23.1 | 28.7 | 32.9 | 25.8 |
| 1984 | 27.3 | 33.0 | 23.6 | 27.3 | 33.1 | 23.5 | 29.6 | 34.6 | 26.2 |
| 1985 | 26.9 | 32.7 | 23.1 | 26.8 | 32.7 | 22.8 | 30.5 | 34.1 | 28.0 |
| 1986 | 26.2 | 32.0 | 22.3 | 26.0 | 32.0 | 22.1 | 29.8 | 35.4 | 26.3 |
| 1987 | 25.9 | 31.9 | 22.0 | 25.7 | 31.8 | 21.6 | 29.8 | 35.1 | 26.5 |
| 1988 | 25.3 | 31.1 | 21.5 | 25.1 | 31.0 | 21.2 | 29.2 | 34.3 | 25.9 |
| 1989 | 25.0 | 30.8 | 21.2 | 24.7 | 30.5 | 20.8 | 30.1 | 36.4 | 26.1 |
| 1990 | 24.6 | 30.8 | 20.6 | 24.3 | 30.4 | 20.2 | 30.8 | 37.6 | 26.6 |
| 1991 | 24.0 | 29.6 | 20.3 | 23.6 | 29.4 | 19.8 | 30.0 | 35.8 | 26.5 |
| 1992 | 23.6 | 29.3 | 19.9 | 23.2 | 29.0 | 19.4 | 29.5 | 36.2 | 25.4 |
| 1993 | 23.3 | 28.6 | 19.8 | 22.9 | 28.2 | 19.3 | 29.8 | 35.8 | 26.0 |
| 1994 | 22.9 | 28.3 | 19.3 | 22.5 | 27.9 | 18.8 | 29.0 | 35.7 | 24.9 |
| 1995 | 22.6 | 27.7 | 19.1 | 22.1 | 27.2 | 18.6 | 29.5 | 36.3 | 25.5 |
| 1996 | 21.9 | 26.7 | 18.5 | 21.4 | 26.3 | 18.0 | 28.6 | 34.5 | 24.9 |
| 1997 | 21.5 | 26.2 | 18.1 | 20.9 | 25.7 | 17.6 | 28.8 | 35.1 | 24.8 |
| 1998 | 21.2 | 25.6 | 18.0 | 20.7 | 25.1 | 17.5 | 28.3 | 33.9 | 24.8 |
| 1999 | 20.9 | 25.5 | 17.8 | 20.4 | 25.0 | 17.2 | 28.5 | 34.5 | 24.7 |
| 2000 | 20.6 | 25.0 | 17.5 | 20.1 | 24.4 | 17.0 | 28.1 | 35.0 | 23.9 |
| 2001 | 20.0 | 24.2 | 17.0 | 19.5 | 23.7 | 16.4 | 27.6 | 33.1 | 24.2 |
| <u>AGE-ADJUSTED RATES, 1997-2001</u> | | | | | | | | | |
| <u>AGE AT DEATH:</u> | | | | | | | | | |
| All ages | 20.8 | 25.3 | 17.7 | 20.3 | 24.8 | 17.1 | 28.3 | 34.3 | 24.5 |
| Under 65 | 5.7 | 6.7 | 4.7 | 5.4 | 6.4 | 4.4 | 9.0 | 10.7 | 7.6 |
| 65 and over | 125.6 | 153.8 | 107.0 | 123.7 | 152.0 | 104.9 | 161.3 | 197.2 | 140.7 |
| All ages(IARC world std) ^b | 11.7 | 14.2 | 9.7 | 11.3 | 13.8 | 9.3 | 16.5 | 20.0 | 14.1 |
| <u>AGE-SPECIFIC RATES, 1997-2001</u> | | | | | | | | | |
| <u>AGE AT DEATH:</u> | | | | | | | | | |
| <1 | - | - | - | - | - | - | - | - | - |
| 1-4 | - | - | - | - | - | - | - | - | - |
| 5-9 | - | - | - | - | - | - | - | - | - |
| 10-14 | - | - | - | - | - | - | - | - | - |
| 15-19 | 0.1 | 0.1 | - | 0.1 | 0.1 | - | - | - | - |
| 20-24 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | - | - |
| 25-29 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.7 | 0.5 |
| 30-34 | 1.0 | 1.1 | 0.9 | 0.9 | 1.0 | 0.8 | 1.5 | 1.8 | 1.3 |
| 35-39 | 2.0 | 2.1 | 1.8 | 1.8 | 1.9 | 1.6 | 3.4 | 3.6 | 3.1 |
| 40-44 | 3.9 | 4.2 | 3.6 | 3.6 | 3.8 | 3.3 | 6.3 | 6.9 | 5.7 |
| 45-49 | 8.1 | 8.9 | 7.2 | 7.4 | 8.3 | 6.6 | 13.8 | 15.4 | 12.5 |
| 50-54 | 14.6 | 17.0 | 12.4 | 13.7 | 16.1 | 11.4 | 23.9 | 27.8 | 20.7 |
| 55-59 | 25.6 | 30.8 | 20.7 | 24.3 | 29.2 | 19.6 | 40.7 | 50.9 | 32.4 |
| 60-64 | 42.3 | 51.8 | 33.6 | 40.7 | 50.1 | 32.0 | 63.7 | 77.3 | 53.0 |
| 65-69 | 64.2 | 80.4 | 50.4 | 62.5 | 78.7 | 48.5 | 88.8 | 109.7 | 73.3 |
| 70-74 | 92.7 | 115.8 | 74.6 | 90.5 | 113.7 | 72.0 | 129.7 | 159.4 | 110.1 |
| 75-79 | 126.9 | 159.1 | 104.6 | 124.9 | 157.0 | 102.4 | 167.4 | 208.6 | 142.6 |
| 80-84 | 175.5 | 215.1 | 152.3 | 173.2 | 212.7 | 149.8 | 223.2 | 276.1 | 196.9 |
| 85+ | 268.9 | 313.9 | 250.7 | 268.0 | 313.5 | 249.7 | 304.5 | 357.5 | 284.5 |

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

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

Table VI-7
COLON AND RECTUM 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 ^a | - | - | - | - | - | - | - | - | - |
| 1970-1973 ^a | - | - | - | - | - | - | - | - | - |
| 1974-1976 ^b | 49.8 | 48.8 | 50.7 | 50.1 | 49.1 | 50.9 | 45.1 | 42.0 | 47.8 |
| 1977-1979 ^b | 52.0 | 50.8 | 53.1 | 52.3 | 51.3 | 53.3 | 45.8 | 43.8 | 47.4 |
| 1980-1982 ^b | 54.4 | 53.9 | 54.9 | 54.9 | 54.5 | 55.2 | 46.7 | 43.8 | 49.2 |
| 1983-1985 ^b | 56.9 | 56.9 | 57.0 | 57.7 | 57.7 | 57.7 | 48.2 | 47.0 | 49.1 |
| 1986-1988 ^b | 60.2 | 60.5 | 60.0 | 60.8 | 61.3 | 60.4 | 52.7 | 51.1 | 54.0 |
| 1989-1991 ^b | 61.8 | 62.0 | 61.7 | 62.4 | 62.6 | 62.1 | 54.1 | 54.5 | 53.7 |
| 1992-1994 ^b | 61.8 | 61.7 | 61.9 | 62.8 | 62.7 | 62.8 | 52.1 | 50.8 | 53.2 |
| 1995-2000 ^b | 63.4 ^c | 63.7 ^c | 63.1 ^c | 64.1 ^c | 64.3 ^c | 63.8 ^c | 54.6 ^c | 55.5 ^c | 54.0 ^c |
| 1995-2000 ^b | | | | | | | | | |
| ALL STAGES | 63.4 | 63.7 | 63.1 | 64.1 | 64.3 | 63.8 | 54.6 | 55.5 | 54.0 |
| LOCALIZED | 89.9 | 90.9 | 89.0 | 90.4 | 91.3 | 89.4 | 82.7 | 83.8 | 82.1 |
| REGIONAL | 67.3 | 66.9 | 67.7 | 68.0 | 67.6 | 68.4 | 60.9 | 61.4 | 60.5 |
| DISTANT | 9.6 | 9.4 | 9.9 | 9.7 | 9.4 | 9.9 | 9.1 | 10.1 | 8.3 |
| UNSTAGED | 35.2 | 39.8 | 30.9 | 35.3 | 39.8 | 31.1 | 36.4 | 42.4 ^d | 30.2 ^d |

STAGE DISTRIBUTION (%) 1995-2000^b

| | | | | | | | | | |
|-----------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| ALL STAGES | | | | | | | | | |
| Number of cases | 63,334 | 31,787 | 31,547 | 52,500 | 26,401 | 26,099 | 5,794 | 2,644 | 3,150 |
| Percent | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| LOCALIZED | 39 | 39 | 38 | 39 | 40 | 38 | 35 | 35 | 35 |
| REGIONAL | 38 | 37 | 38 | 38 | 37 | 38 | 35 | 34 | 35 |
| DISTANT | 19 | 19 | 19 | 19 | 19 | 18 | 24 | 25 | 24 |
| UNSTAGED | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 7 | 6 |

5-YR RELATIVE SURVIVAL RATES, 1995-2000^b

| | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|
| AGE AT DIAGNOSIS: | | | | | | | | | |
| <45 | 61.9 | 62.1 | 61.7 | 63.5 | 62.5 | 64.8 | 55.4 | 60.9 | 49.6 |
| 45-54 | 65.5 | 64.9 | 66.2 | 66.4 | 65.3 | 67.8 | 61.7 | 62.5 | 60.9 |
| 55-64 | 65.4 | 65.2 | 65.6 | 65.8 | 66.0 | 65.5 | 57.4 | 55.7 | 59.6 |
| 65-74 | 65.2 | 64.7 | 65.7 | 65.7 | 65.0 | 66.5 | 56.5 | 56.0 | 57.0 |
| 75+ | 59.9 | 61.4 | 59.1 | 61.0 | 62.7 | 59.9 | 43.6 | 43.1 | 43.9 |
| Under 65 | 64.8 | 64.6 | 65.2 | 65.6 | 65.3 | 66.1 | 58.5 | 58.9 | 58.1 |
| 65 and over | 62.7 | 63.4 | 62.1 | 63.4 | 64.1 | 62.9 | 50.9 | 51.2 | 50.8 |

- ^a Rates are based on End Results data from a series of hospital registries and one population-based registry.
- ^b Rates are from the SEER 9 areas. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients into 2001.
- ^c The difference in rates between 1974-1976 and 1995-2000 is statistically significant (p<.05).
- ^d The standard error of the survival rate is between 5 and 10 percentage points.
- ^e The standard error of the survival rate is greater than 10 percentage points.
- Statistic could not be calculated.

Table VI-8
COLON 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 ^a | - | - | - | 43 | 42 | 44 | 34 | 32 | 35 |
| 1970-1973 ^a | - | - | - | 49 | 47 | 50 | 37 | 36 | 38 |
| 1974-1976 ^b | 50.4 | 49.5 | 51.1 | 50.6 | 49.8 | 51.3 | 46.2 | 44.9 | 47.3 |
| 1977-1979 ^b | 52.9 | 51.8 | 53.9 | 53.1 | 52.0 | 53.9 | 48.2 | 45.9 | 50.0 |
| 1980-1982 ^b | 55.4 | 55.6 | 55.2 | 55.6 | 55.9 | 55.4 | 49.4 | 46.9 | 51.4 |
| 1983-1985 ^b | 57.7 | 58.1 | 57.4 | 58.5 | 59.0 | 58.0 | 49.5 | 48.3 | 50.3 |
| 1986-1988 ^b | 60.9 | 61.7 | 60.2 | 61.6 | 62.5 | 60.7 | 53.1 | 52.8 | 53.4 |
| 1989-1991 ^b | 62.6 | 63.1 | 62.1 | 63.2 | 63.8 | 62.6 | 53.9 | 53.8 | 54.1 |
| 1992-1994 ^b | 62.1 | 62.4 | 61.8 | 63.1 | 63.5 | 62.7 | 51.9 | 50.6 | 52.9 |
| 1995-2000 ^b | 63.0 ^c | 63.9 ^c | 62.2 ^c | 63.8 ^c | 64.7 ^c | 63.0 ^c | 54.4 ^c | 56.3 ^c | 53.0 ^c |
| 1995-2000 ^b | | | | | | | | | |
| ALL STAGES | 63.0 | 63.9 | 62.2 | 63.8 | 64.7 | 63.0 | 54.4 | 56.3 | 53.0 |
| LOCALIZED | 91.1 | 92.9 | 89.5 | 91.7 | 93.4 | 90.0 | 83.8 | 87.0 | 81.7 |
| REGIONAL | 69.0 | 69.6 | 68.5 | 69.7 | 70.4 | 69.1 | 62.7 | 63.6 | 62.1 |
| DISTANT | 10.1 | 9.9 | 10.3 | 10.1 | 9.9 | 10.3 | 9.5 | 10.9 | 8.5 |
| UNSTAGED | 29.9 | 35.3 | 25.4 | 30.6 | 35.8 | 26.5 | 28.1 | 34.4 ^d | 22.4 ^d |
| <u>STAGE DISTRIBUTION (%) 1995-2000^b</u> | | | | | | | | | |
| ALL STAGES | | | | | | | | | |
| Number of cases | 45,015 | 21,435 | 23,580 | 37,298 | 17,828 | 19,470 | 4,373 | 1,905 | 2,468 |
| Percent | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| LOCALIZED | 36 | 37 | 35 | 37 | 38 | 36 | 33 | 33 | 33 |
| REGIONAL | 39 | 38 | 40 | 39 | 38 | 40 | 36 | 36 | 37 |
| DISTANT | 21 | 21 | 20 | 20 | 21 | 20 | 25 | 26 | 25 |
| UNSTAGED | 4 | 4 | 5 | 4 | 4 | 5 | 6 | 6 | 5 |
| <u>5-YR RELATIVE SURVIVAL RATES, 1995-2000^b</u> | | | | | | | | | |
| AGE AT DIAGNOSIS: | | | | | | | | | |
| <45 | 61.6 | 63.5 | 59.3 | 63.4 | 63.2 | 63.7 | 56.3 | 65.6 | 48.2 ^d |
| 45-54 | 63.0 | 63.4 | 62.5 | 63.5 | 63.3 | 63.6 | 60.5 | 60.5 | 60.4 |
| 55-64 | 64.7 | 65.1 | 64.2 | 65.5 | 66.4 | 64.4 | 55.6 | 55.5 | 56.2 |
| 65-74 | 64.7 | 64.9 | 64.5 | 65.4 | 65.5 | 65.3 | 57.8 | 58.3 | 57.4 |
| 75+ | 60.8 | 62.7 | 59.7 | 61.8 | 63.8 | 60.7 | 43.8 | 44.9 | 43.4 |
| Under 65 | 63.7 | 64.4 | 63.0 | 64.6 | 65.1 | 64.0 | 57.6 | 59.2 | 56.2 |
| 65 and over | 62.8 | 64.1 | 61.9 | 63.6 | 64.9 | 62.7 | 51.7 | 53.2 | 50.9 |

^a Rates are based on End Results data from a series of hospital registries and one population-based registry.

^b Rates are from the SEER 9 areas. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients into 2001.

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

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

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

- Statistic could not be calculated.

Table VI-9
RECTUM 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 ^a | - | - | - | 38 | 36 | 41 | 27 | 28 | 27 |
| 1970-1973 ^a | - | - | - | 45 | 43 | 48 | 30 | 20 | 40 |
| 1974-1976 ^b | 48.5 | 47.6 | 49.6 | 48.9 | 48.0 | 49.9 | 42.0 | 34.7 | 49.3 |
| 1977-1979 ^b | 49.9 | 48.9 | 51.0 | 50.6 | 49.8 | 51.6 | 39.0 | 38.5 | 39.4 |
| 1980-1982 ^b | 52.2 | 50.6 | 54.1 | 53.1 | 51.7 | 54.7 | 38.3 | 36.4 | 40.6 |
| 1983-1985 ^b | 55.1 | 54.4 | 55.9 | 55.9 | 55.2 | 56.8 | 44.1 | 43.1 | 44.9 |
| 1986-1988 ^b | 58.5 | 58.0 | 59.3 | 59.2 | 58.9 | 59.5 | 51.3 | 46.7 | 56.0 |
| 1989-1991 ^b | 60.1 | 59.8 | 60.5 | 60.5 | 60.3 | 60.8 | 54.5 | 56.4 | 52.6 |
| 1992-1994 ^b | 61.1 | 60.1 | 62.3 | 62.0 | 61.1 | 63.2 | 52.7 | 51.3 | 54.1 |
| 1995-2000 ^b | 64.3 ^c | 63.2 ^c | 65.6 ^c | 64.6 ^c | 63.6 ^c | 65.9 ^c | 55.2 ^c | 53.5 ^c | 57.2 ^c |
| 1995-2000 ^b | | | | | | | | | |
| ALL STAGES | 64.3 | 63.2 | 65.6 | 64.6 | 63.6 | 65.9 | 55.2 | 53.5 | 57.2 |
| LOCALIZED | 87.7 | 87.6 | 87.9 | 87.8 | 87.7 | 88.0 | 80.0 | 77.7 | 83.1 |
| REGIONAL | 62.7 | 61.1 | 64.9 | 63.4 | 61.7 | 65.8 | 54.1 | 54.4 ^d | 53.8 ^d |
| DISTANT | 8.2 | 8.0 | 8.6 | 8.3 | 8.2 | 8.7 | 8.4 | 8.7 | 8.0 |
| UNSTAGED | 43.3 | 45.5 | 40.6 | 42.3 | 44.8 | 39.4 | 51.8 ^d | 55.2 ^d | 47.3 ^e |
| <u>STAGE DISTRIBUTION (%) 1995-2000^b</u> | | | | | | | | | |
| ALL STAGES | | | | | | | | | |
| Number of cases | 18,319 | 10,352 | 7,967 | 15,202 | 8,573 | 6,629 | 1,421 | 739 | 682 |
| Percent | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| LOCALIZED | 44 | 44 | 45 | 44 | 44 | 45 | 41 | 39 | 42 |
| REGIONAL | 34 | 35 | 34 | 35 | 35 | 34 | 30 | 30 | 30 |
| DISTANT | 15 | 16 | 15 | 15 | 15 | 14 | 20 | 22 | 18 |
| UNSTAGED | 6 | 6 | 7 | 6 | 6 | 7 | 9 | 9 | 9 |
| <u>5-YR RELATIVE SURVIVAL RATES, 1995-2000^b</u> | | | | | | | | | |
| AGE AT DIAGNOSIS: | | | | | | | | | |
| <45 | 62.4 | 59.9 | 65.3 | 63.6 | 61.4 | 66.2 | 53.6 ^d | 52.4 ^d | 52.9 ^d |
| 45-54 | 69.2 | 66.8 | 73.1 | 70.8 | 68.0 | 75.2 | 62.2 | 63.8 ^d | 59.5 ^d |
| 55-64 | 66.6 | 65.2 | 68.8 | 66.4 | 65.2 | 68.1 | 62.3 | 56.2 ^d | 70.5 ^d |
| 65-74 | 66.4 | 64.3 | 69.5 | 66.4 | 63.9 | 70.0 | 52.0 | 48.7 ^d | 55.2 ^d |
| 75+ | 57.1 | 58.0 | 56.6 | 58.1 | 59.5 | 57.2 | 43.2 | 36.9 ^d | 46.3 ^d |
| Under 65 | 66.8 | 64.9 | 69.6 | 67.3 | 65.5 | 70.0 | 60.5 | 58.4 | 63.7 |
| 65 and over | 62.4 | 61.9 | 62.9 | 62.8 | 62.2 | 63.4 | 48.1 | 44.6 ^d | 50.7 |

^a Rates are based on End Results data from a series of hospital registries and one population-based registry.
^b Rates are from the SEER 9 areas. They are based on data from population-based registries in Connecticut, New Mexico, Utah, Iowa, Hawaii, Atlanta, Detroit, Seattle-Puget Sound and San Francisco-Oakland. Rates are based on follow-up of patients into 2001.
^c The difference in rates between 1974-1976 and 1995-2000 is statistically significant (p<.05).
^d The standard error of the survival rate is between 5 and 10 percentage points.
^e The standard error of the survival rate is greater than 10 percentage points.
- Statistic could not be calculated.

Table VI-10
COLON AND RECTUM CANCER (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Males and Females

Year of Diagnosis

| | 1975- 1979 | 1980- 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|--|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Relative Survival Rates (SEER ^b) | | | | | | | | | | | | | | | | | | |
| 1-year | 74.8 | 78.1 | 80.1 | 81.3 | 80.9 | 80.3 | 81.3 | 81.9 | 82.5 | 81.7 | 80.9 | 81.7 | 80.2 | 82.1 | 81.1 | 82.8 | 83.0 | 82.5 |
| 2-year | 63.8 | 67.9 | 71.0 | 72.0 | 71.9 | 71.8 | 72.3 | 73.4 | 73.9 | 73.4 | 72.8 | 73.1 | 72.2 | 74.3 | 73.4 | 75.6 | 75.5 | |
| 3-year | 57.6 | 61.6 | 65.1 | 66.5 | 66.3 | 66.4 | 67.6 | 68.4 | 68.4 | 67.9 | 67.8 | 68.3 | 66.7 | 69.7 | 68.5 | 70.5 | | |
| 4-year | 53.8 | 57.6 | 61.4 | 62.8 | 62.3 | 62.8 | 63.7 | 64.2 | 64.9 | 64.4 | 64.0 | 64.4 | 63.1 | 66.2 | 65.7 | | | |
| 5-year | 51.3 | 55.0 | 59.1 | 60.4 | 60.0 | 60.3 | 60.9 | 61.9 | 62.7 | 62.4 | 61.4 | 61.6 | 61.0 | 64.0 | | | | |
| 6-year | 49.6 | 53.1 | 57.3 | 58.3 | 58.3 | 58.8 | 59.6 | 60.6 | 60.8 | 60.9 | 60.0 | 60.1 | 58.7 | | | | | |
| 7-year | 48.6 | 51.7 | 56.0 | 56.8 | 56.6 | 57.4 | 58.2 | 59.2 | 59.4 | 59.4 | 58.4 | 58.8 | | | | | | |
| 8-year | 47.7 | 50.7 | 55.2 | 55.7 | 55.9 | 56.5 | 57.1 | 57.9 | 58.3 | 58.0 | 57.5 | | | | | | | |
| 9-year | 47.2 | 50.0 | 54.2 | 55.0 | 55.2 | 55.8 | 56.3 | 57.3 | 57.3 | 57.4 | | | | | | | | |
| 10-year | 46.6 | 49.4 | 53.6 | 54.7 | 54.6 | 55.1 | 55.6 | 56.9 | 56.8 | | | | | | | | | |
| 11-year | 46.1 | 48.9 | 53.2 | 54.5 | 54.6 | 54.5 | 55.0 | 56.5 | | | | | | | | | | |
| 12-year | 45.7 | 48.5 | 53.0 | 54.5 | 54.1 | 53.8 | 54.8 | | | | | | | | | | | |
| 13-year | 45.4 | 48.3 | 52.8 | 54.0 | 53.0 | 53.1 | | | | | | | | | | | | |
| 14-year | 45.0 | 47.9 | 52.5 | 53.5 | 53.0 | | | | | | | | | | | | | |
| 15-year | 44.7 | 47.8 | 51.7 | 53.5 | | | | | | | | | | | | | | |
| 16-year | 44.4 | 47.4 | 51.6 | | | | | | | | | | | | | | | |
| 17-year | 44.2 | 47.1 | | | | | | | | | | | | | | | | |
| 18-year | 43.8 | | | | | | | | | | | | | | | | | |
| 19-year | 43.8 | | | | | | | | | | | | | | | | | |
| 20-year | 43.8 | | | | | | | | | | | | | | | | | |

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

Table VI-11
COLON AND RECTUM CANCER (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Males

Year of Diagnosis

| | 1975- 1979 | 1980- 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|--|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Relative Survival Rates (SEER ^b) | | | | | | | | | | | | | | | | | | |
| 1-year | 74.8 | 79.0 | 81.3 | 82.4 | 81.8 | 81.1 | 82.0 | 83.0 | 83.3 | 82.8 | 81.7 | 82.8 | 81.7 | 83.5 | 82.2 | 83.1 | 84.2 | 84.4 |
| 2-year | 63.8 | 68.3 | 72.3 | 73.1 | 73.0 | 73.3 | 73.3 | 74.3 | 74.9 | 74.2 | 73.4 | 74.1 | 73.5 | 76.1 | 74.8 | 75.9 | 76.4 | |
| 3-year | 57.0 | 61.7 | 66.5 | 67.3 | 67.1 | 67.4 | 68.4 | 69.6 | 69.1 | 68.5 | 68.4 | 69.5 | 67.9 | 71.0 | 69.7 | 70.2 | | |
| 4-year | 52.9 | 57.4 | 62.3 | 63.5 | 62.6 | 62.7 | 64.2 | 65.0 | 65.1 | 64.6 | 64.2 | 64.7 | 64.2 | 66.9 | 67.1 | | | |
| 5-year | 50.3 | 54.5 | 59.5 | 60.8 | 60.1 | 60.5 | 61.4 | 62.2 | 62.5 | 62.2 | 61.3 | 61.5 | 61.3 | 64.4 | | | | |
| 6-year | 48.2 | 52.4 | 57.7 | 58.4 | 58.7 | 58.7 | 59.9 | 60.7 | 60.0 | 60.9 | 60.1 | 60.0 | 58.7 | | | | | |
| 7-year | 47.1 | 50.8 | 55.9 | 57.1 | 56.9 | 57.3 | 58.6 | 58.9 | 58.3 | 59.6 | 58.7 | 58.9 | | | | | | |
| 8-year | 46.1 | 49.7 | 55.3 | 56.2 | 56.1 | 56.4 | 57.9 | 57.7 | 57.3 | 58.1 | 58.0 | | | | | | | |
| 9-year | 45.5 | 48.9 | 54.3 | 55.4 | 55.4 | 55.6 | 56.9 | 57.6 | 56.7 | 57.4 | | | | | | | | |
| 10-year | 44.8 | 48.3 | 53.7 | 55.4 | 55.0 | 55.2 | 56.1 | 57.4 | 56.2 | | | | | | | | | |
| 11-year | 44.4 | 47.6 | 53.5 | 55.3 | 54.9 | 55.2 | 55.4 | 57.2 | | | | | | | | | | |
| 12-year | 43.8 | 47.3 | 53.3 | 55.2 | 54.2 | 54.7 | 55.3 | | | | | | | | | | | |
| 13-year | 43.4 | 47.3 | 53.0 | 54.8 | 53.7 | 54.3 | | | | | | | | | | | | |
| 14-year | 42.8 | 46.8 | 52.8 | 54.6 | 53.7 | | | | | | | | | | | | | |
| 15-year | 42.7 | 46.8 | 52.4 | 54.1 | | | | | | | | | | | | | | |
| 16-year | 42.4 | 46.8 | 52.4 | | | | | | | | | | | | | | | |
| 17-year | 42.1 | 46.6 | | | | | | | | | | | | | | | | |
| 18-year | 42.0 | | | | | | | | | | | | | | | | | |
| 19-year | 42.0 | | | | | | | | | | | | | | | | | |
| 20-year | 42.0 | | | | | | | | | | | | | | | | | |

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

Table VI-12
COLON AND RECTUM CANCER (Invasive)

SURVIVAL RATES^a

By Year of Diagnosis

All Races, Females

Year of Diagnosis

| | 1975- 1979 | 1980- 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|--|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Relative Survival Rates (SEER ^b) | | | | | | | | | | | | | | | | | | |
| 1-year | 74.8 | 77.2 | 78.9 | 80.1 | 79.9 | 79.4 | 80.5 | 80.6 | 81.7 | 80.7 | 80.2 | 80.6 | 78.7 | 80.6 | 80.1 | 82.5 | 81.8 | 80.7 |
| 2-year | 63.8 | 67.5 | 69.6 | 70.8 | 70.7 | 70.2 | 71.4 | 72.5 | 73.0 | 72.5 | 72.2 | 72.1 | 70.9 | 72.6 | 71.9 | 75.4 | 74.5 | |
| 3-year | 58.1 | 61.4 | 63.7 | 65.7 | 65.4 | 65.4 | 66.9 | 67.2 | 67.6 | 67.2 | 67.2 | 67.2 | 65.7 | 68.3 | 67.3 | 70.8 | | |
| 4-year | 54.6 | 57.8 | 60.6 | 62.1 | 62.1 | 63.0 | 63.2 | 63.4 | 64.7 | 64.2 | 63.9 | 64.0 | 62.0 | 65.5 | 64.3 | | | |
| 5-year | 52.3 | 55.4 | 58.6 | 59.9 | 59.8 | 60.2 | 60.5 | 61.7 | 62.9 | 62.5 | 61.5 | 61.7 | 60.8 | 63.7 | | | | |
| 6-year | 50.9 | 53.7 | 57.0 | 58.3 | 57.9 | 58.9 | 59.3 | 60.5 | 61.6 | 61.0 | 59.9 | 60.2 | 58.7 | | | | | |
| 7-year | 49.9 | 52.4 | 56.1 | 56.6 | 56.3 | 57.6 | 57.8 | 59.4 | 60.6 | 59.2 | 58.2 | 58.7 | | | | | | |
| 8-year | 49.2 | 51.6 | 55.1 | 55.2 | 55.8 | 56.6 | 56.4 | 58.1 | 59.4 | 58.0 | 57.0 | | | | | | | |
| 9-year | 48.7 | 51.0 | 54.2 | 54.7 | 55.0 | 56.0 | 55.8 | 57.0 | 58.0 | 57.4 | | | | | | | | |
| 10-year | 48.2 | 50.4 | 53.5 | 54.1 | 54.2 | 55.0 | 55.2 | 56.4 | 57.4 | | | | | | | | | |
| 11-year | 47.7 | 49.9 | 53.0 | 53.8 | 54.2 | 53.6 | 54.7 | 55.8 | | | | | | | | | | |
| 12-year | 47.4 | 49.6 | 52.8 | 53.8 | 54.0 | 53.0 | 54.3 | | | | | | | | | | | |
| 13-year | 47.2 | 49.3 | 52.5 | 53.3 | 52.3 | 51.8 | | | | | | | | | | | | |
| 14-year | 46.8 | 48.9 | 52.2 | 52.5 | 52.1 | | | | | | | | | | | | | |
| 15-year | 46.3 | 48.6 | 51.0 | 52.5 | | | | | | | | | | | | | | |
| 16-year | 46.0 | 47.7 | 50.4 | | | | | | | | | | | | | | | |
| 17-year | 45.8 | 47.5 | | | | | | | | | | | | | | | | |
| 18-year | 45.3 | | | | | | | | | | | | | | | | | |
| 19-year | 45.3 | | | | | | | | | | | | | | | | | |
| 20-year | 45.2 | | | | | | | | | | | | | | | | | |

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

Table VI-13
COLON AND RECTUM 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 (12 SEER Areas) With Cancer and
 Lifetime Risk (Percent) of Dying (Total U.S.) From Cancer

1999-2001

All Races

| Current Age | Males | | | | Females | | | |
|-------------|---------|---------|---------|------------|---------|---------|---------|------------|
| | +10 yrs | +20 yrs | +30 yrs | Eventually | +10 yrs | +20 yrs | +30 yrs | Eventually |
| 0 | 0.00 | 0.00 | 0.01 | 5.90 | 0.00 | 0.00 | 0.01 | 5.54 |
| 10 | 0.00 | 0.01 | 0.07 | 5.98 | 0.00 | 0.01 | 0.06 | 5.60 |
| 20 | 0.01 | 0.07 | 0.27 | 6.02 | 0.01 | 0.06 | 0.25 | 5.62 |
| 30 | 0.06 | 0.26 | 0.94 | 6.08 | 0.05 | 0.24 | 0.73 | 5.63 |
| 40 | 0.21 | 0.90 | 2.40 | 6.12 | 0.19 | 0.69 | 1.80 | 5.63 |
| 50 | 0.71 | 2.27 | 4.37 | 6.13 | 0.51 | 1.65 | 3.41 | 5.56 |
| 60 | 1.69 | 3.96 | 5.53 | 5.86 | 1.20 | 3.04 | 4.78 | 5.30 |

Lifetime Risk of Being Diagnosed = 5.90%
 Lifetime Risk of Dying = 2.39%

Lifetime Risk of Being Diagnosed = 5.54%
 Lifetime Risk of Dying = 2.27%

Whites

| Current Age | Males | | | | Females | | | |
|-------------|---------|---------|---------|------------|---------|---------|---------|------------|
| | +10 yrs | +20 yrs | +30 yrs | Eventually | +10 yrs | +20 yrs | +30 yrs | Eventually |
| 0 | 0.00 | 0.00 | 0.01 | 5.95 | 0.00 | 0.00 | 0.01 | 5.52 |
| 10 | 0.00 | 0.01 | 0.07 | 6.02 | 0.00 | 0.01 | 0.06 | 5.57 |
| 20 | 0.01 | 0.07 | 0.26 | 6.05 | 0.01 | 0.06 | 0.23 | 5.58 |
| 30 | 0.05 | 0.25 | 0.92 | 6.11 | 0.05 | 0.22 | 0.69 | 5.60 |
| 40 | 0.20 | 0.88 | 2.39 | 6.15 | 0.17 | 0.65 | 1.75 | 5.59 |
| 50 | 0.70 | 2.26 | 4.39 | 6.15 | 0.49 | 1.61 | 3.38 | 5.52 |
| 60 | 1.68 | 3.97 | 5.54 | 5.87 | 1.18 | 3.03 | 4.77 | 5.27 |

Lifetime Risk of Being Diagnosed = 5.95%
 Lifetime Risk of Dying = 2.39%

Lifetime Risk of Being Diagnosed = 5.52%
 Lifetime Risk of Dying = 2.24%

Blacks

| Current Age | Males | | | | Females | | | |
|-------------|---------|---------|---------|------------|---------|---------|---------|------------|
| | +10 yrs | +20 yrs | +30 yrs | Eventually | +10 yrs | +20 yrs | +30 yrs | Eventually |
| 0 | 0.00 | 0.00 | 0.01 | 4.92 | 0.00 | 0.00 | 0.02 | 5.39 |
| 10 | 0.00 | 0.01 | 0.07 | 5.05 | 0.00 | 0.02 | 0.09 | 5.51 |
| 20 | 0.01 | 0.07 | 0.32 | 5.10 | 0.02 | 0.09 | 0.33 | 5.53 |
| 30 | 0.06 | 0.32 | 1.12 | 5.23 | 0.07 | 0.31 | 1.01 | 5.56 |
| 40 | 0.27 | 1.10 | 2.58 | 5.34 | 0.25 | 0.96 | 2.29 | 5.58 |
| 50 | 0.89 | 2.49 | 4.29 | 5.46 | 0.74 | 2.13 | 3.85 | 5.57 |
| 60 | 1.87 | 3.97 | 5.15 | 5.34 | 1.52 | 3.41 | 4.88 | 5.30 |

Lifetime Risk of Being Diagnosed = 4.92%
 Lifetime Risk of Dying = 2.44%

Lifetime Risk of Being Diagnosed = 5.39%
 Lifetime Risk of Dying = 2.56%

Table VI-14
COLON AND RECTUM CANCER (Invasive)

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

By Race/Ethnicity and Sex

Incidence^a

| RACE/ETHNICITY | Rate 1997-2001 | | | Trend 1992-2001 | | |
|---------------------------------|--------------------------|-------|---------|-------------------|-------------------|---------|
| | Rate per 100,000 persons | | | APC (%) | | |
| | Total | Males | Females | Total | Males | Females |
| All Races | 53.7 | 63.4 | 46.4 | -0.8 ^d | -1.1 ^d | -0.5 |
| White | 53.3 | 63.1 | 45.9 | -0.8 ^d | -1.2 ^d | -0.6 |
| White Hispanic ^b | 40.7 | 51.0 | 33.1 | 0.1 | 0.3 | -0.2 |
| White Non-Hispanic ^b | 54.4 | 63.8 | 47.2 | -0.7 ^d | -1.1 ^d | -0.5 |
| Black | 63.0 | 72.9 | 56.5 | -0.3 | -0.6 | 0.0 |
| Asian/Pacific Islander | 46.3 | 56.3 | 38.6 | -0.6 ^d | -0.7 ^d | -0.4 |
| Amer Ind/Alaska Nat | 35.2 | 38.3 | 32.7 | -1.9 | -2.8 | -0.9 |
| Hispanic ^b | 39.7 | 49.6 | 32.5 | 0.3 | 0.5 | -0.1 |

Mortality^c

| RACE/ETHNICITY | Rate 1997-2001 | | | Trend 1992-2001 | | |
|---------------------------------|--------------------------|-------|---------|-------------------|-------------------|-------------------|
| | Rate per 100,000 persons | | | APC (%) | | |
| | Total | Males | Females | Total | Males | Females |
| All Races | 20.8 | 25.3 | 17.7 | -1.8 ^d | -2.1 ^d | -1.7 ^d |
| White | 20.3 | 24.8 | 17.1 | -1.9 ^d | -2.2 ^d | -1.8 ^d |
| White Hispanic ^b | 14.6 | 18.4 | 11.8 | -0.1 | -0.2 | 0.2 |
| White Non-Hispanic ^b | 20.4 | 24.8 | 17.2 | -1.8 ^d | -2.1 ^d | -1.7 ^d |
| Black | 28.3 | 34.3 | 24.5 | -0.7 ^d | -0.8 ^d | -0.7 ^d |
| Asian/Pacific Islander | 13.0 | 15.8 | 10.8 | -2.0 ^d | -1.8 ^d | -2.1 ^d |
| Amer Ind/Alaska Nat | 13.9 | 17.1 | 11.7 | 0.6 | 2.5 | -0.8 |
| Hispanic ^b | 14.3 | 18.0 | 11.6 | 0.0 | -0.1 | 0.2 |

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

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

^a Incidence data are from the 12 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, and Alaska Native Registry).

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

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

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

Table VI-15
COLON CANCER (Invasive) and RECTUM CANCER (Invasive)

AGE-ADJUSTED SEER INCIDENCE

By Race/Ethnicity and Sex

Colon Incidence^a

| RACE/ETHNICITY | Rate 1997-2001 Rate per 100,000 persons | | | Trend 1992-2001 APC (%) | | |
|---------------------------------|--|-------|---------|----------------------------|-------------------|-------------------|
| | Total | Males | Females | Total | Males | Females |
| | All Races | 38.8 | 44.3 | 34.8 | -0.9 ^d | -1.3 ^d |
| White | 38.6 | 44.2 | 34.4 | -0.9 ^d | -1.4 ^d | -0.6 ^d |
| White Hispanic ^b | 28.3 | 34.4 | 23.8 | 0.4 | 0.9 | -0.2 |
| White Non-Hispanic ^b | 39.6 | 44.9 | 35.6 | -0.8 ^d | -1.3 ^d | -0.5 |
| Black | 48.7 | 55.2 | 44.6 | -0.3 | -0.5 | -0.2 |
| Asian/Pacific Islander | 31.3 | 36.2 | 27.6 | -0.6 | -0.8 | -0.2 |
| Amer Ind/Alaska Nat | 24.9 | 25.3 | 24.7 | -2.9 | -5.1 | -0.8 |
| Hispanic ^b | 27.7 | 33.5 | 23.5 | 0.6 | 1.0 | 0.1 |

Rectum Incidence^a

| RACE/ETHNICITY | Rate 1997-2001 Rate per 100,000 persons | | | Trend 1992-2001 APC (%) | | |
|---------------------------------|--|-------|---------|----------------------------|-------|---------|
| | Total | Males | Females | Total | Males | Females |
| | All Races | 14.8 | 19.1 | 11.6 | -0.5 | -0.7 |
| White | 14.8 | 18.9 | 11.5 | -0.5 | -0.7 | -0.6 |
| White Hispanic ^b | 12.4 | 16.6 | 9.3 | -0.5 | -0.8 | -0.4 |
| White Non-Hispanic ^b | 14.8 | 18.8 | 11.6 | -0.5 | -0.6 | -0.6 |
| Black | 14.3 | 17.7 | 11.9 | -0.3 | -0.8 | 0.4 |
| Asian/Pacific Islander | 15.0 | 20.1 | 11.0 | -0.6 | -0.4 | -0.7 |
| Amer Ind/Alaska Nat | 10.2 | 13.0 | 8.0 | 0.5 | 1.7 | - |
| Hispanic ^b | 12.1 | 16.1 | 9.0 | -0.4 | -0.6 | -0.4 |

- The APC is the Annual Percent Change over the time interval.
- Statistic not shown. Rate based on less than 25 cases for the time interval. Trend based on less than 10 cases for at least one year within the time interval.
- ^a Incidence data are from the 12 SEER areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, and Alaska Native Registry).
- ^b Hispanic and Non-Hispanic are not mutually exclusive from Whites, Blacks, Asian Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics do not include cases from Detroit, Hawaii and Alaska Native Registry. For mortality, information is included for all states except Connecticut, Maine, Maryland, Oklahoma, New York, New Hampshire, North Dakota and Vermont.
- ^c Mortality data are analyzed from a public use file provided by the National Center for Health Statistics (NCHS).
- ^d The APC is significantly different from zero (p<.05).

Table VI-16
COLON AND RECTUM CANCER (Invasive)

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

| | All Races | | | Whites | | | Blacks | | |
|--|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
| | Total | Males | Females | Total | Males | Females | Total | Males | Females |
| <u>SEER INCIDENCE RATES^a, 1997-2001</u> | | | | | | | | | |
| REGISTRY | | | | | | | | | |
| 12 registries | 53.7 | 63.4 | 46.4 | 53.3 | 63.1 | 45.9 | 63.0 | 72.9 | 56.5 |
| 11 registries | 53.6 | 63.3 | 46.3 | 53.3 | 63.1 | 45.9 | 63.0 | 72.9 | 56.5 |
| 9 registries | 54.6 | 64.6 | 47.1 | 54.4 | 64.4 | 46.8 | 62.7 | 73.1 | 56.1 |
| San Francisco-Oakland | 51.3 | 60.5 | 44.4 | 51.8 | 61.4 | 44.3 | 54.2 | 61.7 | 49.2 |
| Connecticut | 60.0 | 70.9 | 52.3 | 59.7 | 70.9 | 51.7 | 61.7 | 64.6 | 60.1 |
| Metropolitan Detroit | 59.3 | 71.1 | 51.0 | 57.2 | 69.2 | 48.6 | 68.3 | 80.4 | 60.5 |
| Hawaii | 53.9 | 66.8 | 42.9 | 51.7 | 63.5 | 40.4 | - | - | - |
| Iowa | 63.6 | 75.6 | 54.6 | 63.6 | 75.5 | 54.7 | 64.0 | 82.5 | 51.6 |
| New Mexico | 42.4 | 50.5 | 35.8 | 43.4 | 51.4 | 36.9 | 47.6 | 68.3 | - |
| Seattle-Puget Sound | 51.7 | 60.8 | 44.8 | 52.1 | 61.3 | 45.0 | 59.3 | 65.3 | 53.8 |
| Utah | 42.0 | 48.4 | 36.8 | 42.2 | 48.5 | 37.1 | - | - | - |
| Metropolitan Atlanta | 50.6 | 59.7 | 44.2 | 47.5 | 56.1 | 40.9 | 61.8 | 75.5 | 54.3 |
| San Jose-Monterey | 48.1 | 57.0 | 41.0 | 49.8 | 59.5 | 42.2 | 52.4 | 59.6 | 43.6 |
| Los Angeles | 51.5 | 60.4 | 44.8 | 50.6 | 59.4 | 43.8 | 64.2 | 73.1 | 58.1 |
| <u>SEER DEATH RATES^b, 1997-2001</u> | | | | | | | | | |
| REGISTRY | | | | | | | | | |
| 12 registries | 19.1 | 23.1 | 16.3 | 18.9 | 23.0 | 16.0 | 26.6 | 32.1 | 23.3 |
| 11 registries | 19.1 | 23.1 | 16.3 | 19.0 | 23.0 | 16.0 | 26.6 | 32.1 | 23.3 |
| 9 registries | 19.5 | 23.6 | 16.6 | 19.4 | 23.4 | 16.4 | 26.2 | 31.6 | 23.0 |
| San Francisco-Oakland | 18.6 | 22.5 | 15.7 | 19.0 | 23.0 | 16.0 | 24.9 | 31.4 | 21.1 |
| Connecticut | 20.4 | 24.7 | 17.5 | 20.2 | 24.6 | 17.3 | 24.2 | 27.4 | 22.1 |
| Metropolitan Detroit | 21.7 | 26.7 | 18.4 | 20.5 | 25.7 | 16.9 | 27.3 | 32.1 | 24.4 |
| Hawaii | 15.9 | 20.1 | 12.3 | 15.6 | 18.2 | 12.7 | - | - | - |
| Iowa | 22.2 | 27.3 | 18.7 | 22.2 | 27.2 | 18.7 | 31.1 | 48.8 | - |
| New Mexico | 17.8 | 20.9 | 15.1 | 18.0 | 21.1 | 15.4 | 28.9 | - | - |
| Seattle-Puget Sound | 18.2 | 21.9 | 15.4 | 18.3 | 22.0 | 15.5 | 25.4 | 26.2 | 23.9 |
| Utah | 16.2 | 18.6 | 14.4 | 16.1 | 18.4 | 14.3 | - | - | - |
| Metropolitan Atlanta | 18.9 | 21.9 | 16.8 | 16.7 | 19.2 | 14.8 | 26.4 | 32.4 | 23.2 |
| San Jose-Monterey | 16.9 | 21.0 | 13.8 | 17.6 | 22.0 | 14.2 | 31.5 | 34.2 | 28.6 |
| Los Angeles | 18.4 | 22.2 | 15.6 | 17.9 | 21.7 | 15.1 | 27.4 | 33.4 | 23.8 |

Note: San Jose-Monterey and Los Angeles are new SEER areas as of 1992 and their data are only used in tables where indicated.

^a SEER 9 areas. Incidence rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.

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

- Statistic could not be calculated or populations are inadequate.

Table VI-17
COLON AND RECTUM CANCER (Invasive)

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

Males and Females

| State | Rate | SE | Rank | PD |
|----------------------|--------------------|------|------|-------|
| TOTAL U.S. | 20.8 | 0.04 | | |
| High Five States | | | | |
| District of Columbia | 26.4 ^{bc} | 0.97 | (01) | 26.9 |
| Louisiana | 23.7 ^{bc} | 0.34 | (02) | 13.9 |
| West Virginia | 23.5 ^{bc} | 0.47 | (03) | 13.0 |
| Pennsylvania | 23.4 ^{bc} | 0.18 | (04) | 12.5 |
| Maryland | 23.3 ^{bc} | 0.31 | (05) | 12.0 |
| Low Five States | | | | |
| New Mexico | 17.8 ^{bc} | 0.47 | (47) | -14.4 |
| Idaho | 17.7 ^{bc} | 0.55 | (48) | -14.9 |
| Arizona | 17.4 ^{bc} | 0.27 | (49) | -16.3 |
| Utah | 16.2 ^{bc} | 0.47 | (50) | -22.1 |
| Hawaii | 15.9 ^{bc} | 0.51 | (51) | -23.6 |

Males

| State | Rate | SE | Rank | PD |
|----------------------|--------------------|------|------|-------|
| TOTAL U.S. | 173.2 | 0.18 | | |
| High Five States | | | | |
| District of Columbia | 31.8 ^{bc} | 1.76 | (01) | 25.7 |
| Louisiana | 30.4 ^{bc} | 0.63 | (02) | 20.2 |
| Pennsylvania | 28.6 ^{bc} | 0.32 | (03) | 13.0 |
| Illinois | 28.6 ^{bc} | 0.35 | (04) | 13.0 |
| Kentucky | 28.5 ^{bc} | 0.62 | (05) | 12.6 |
| Low Five States | | | | |
| California | 21.6 ^{bc} | 0.19 | (47) | -14.6 |
| New Mexico | 20.9 ^{bc} | 0.78 | (48) | -17.4 |
| Arizona | 20.9 ^{bc} | 0.45 | (49) | -17.4 |
| Hawaii | 20.1 ^{bc} | 0.85 | (50) | -20.6 |
| Utah | 18.6 ^{bc} | 0.78 | (51) | -26.5 |

Females

| State | Rate | SE | Rank | PD |
|----------------------|--------------------|------|------|-------|
| TOTAL U.S. | 125.9 | 0.13 | | |
| High Five States | | | | |
| District of Columbia | 23.0 ^{bc} | 1.16 | (01) | 29.9 |
| West Virginia | 20.4 ^{bc} | 0.57 | (02) | 15.3 |
| Maine | 20.0 ^b | 0.69 | (03) | 13.0 |
| Maryland | 20.0 ^{bc} | 0.37 | (04) | 13.0 |
| Pennsylvania | 19.9 ^{bc} | 0.21 | (05) | 12.4 |
| Low Five States | | | | |
| Montana | 14.9 ^{bc} | 0.74 | (47) | -15.8 |
| Arizona | 14.6 ^{bc} | 0.32 | (48) | -17.5 |
| Idaho | 14.5 ^{bc} | 0.67 | (49) | -18.1 |
| Utah | 14.4 ^{bc} | 0.58 | (50) | -18.6 |
| Hawaii | 12.3 ^{bc} | 0.61 | (51) | -30.5 |

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

- ^a NCHS public use data file. Rates are per 100,000 and are age-adjusted to the 2000 U.S. standard population by 5-year age groups.
- ^b Absolute percent difference between state rate and total U.S. rate is 10% or more.
- ^c Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
- SE Standard error of the rate.
- PD Percent difference between state rate and total U.S. rate.

Table VI-18
COLON AND RECTUM CANCER (Invasive)

Estimated United States Cancer Prevalence Counts^a on January 1, 2001
By Race/Ethnicity, Sex and Years Since Diagnosis

| Years Since Diagnosis | 0 to <5 | 5 to <10 | 10 to <15 | 15 to <20 | 20 to <25 | 0 to <11 ^e | 0 to <26 ^e | >=26 ^g | Complete ^h |
|-------------------------------------|---------|----------|-----------|-----------|-----------|-----------------------|-----------------------|-------------------|-----------------------|
| Race/Sex | | | | | | | | | |
| All Races ^b | 403,032 | 232,979 | 164,231 | 102,328 | 58,789 | 674,705 | 968,947 | 67,744 | 1,036,691 |
| Males | 201,690 | 114,621 | 81,118 | 46,565 | 24,428 | 335,541 | 471,439 | 25,149 | 496,588 |
| Females | 201,342 | 118,358 | 83,113 | 55,763 | 34,361 | 339,164 | 497,508 | 42,595 | 540,103 |
| White ^b | 349,697 | 205,229 | 146,168 | 92,231 | 52,753 | 589,287 | 853,052 | 60,764 | 913,816 |
| Males | 176,447 | 101,593 | 72,947 | 42,127 | 22,009 | 295,196 | 417,930 | 22,763 | 440,693 |
| Females | 173,250 | 103,636 | 73,221 | 50,104 | 30,744 | 294,091 | 435,122 | 38,001 | 473,123 |
| Black ^b | 37,684 | 19,814 | 13,069 | 7,334 | 4,247 | 60,609 | 82,571 | 4,634 | 87,205 |
| Males | 16,812 | 8,878 | 5,536 | 2,967 | 1,549 | 27,105 | 35,883 | 1,595 | 37,478 |
| Females | 20,872 | 10,936 | 7,533 | 4,367 | 2,698 | 33,504 | 46,688 | 3,039 | 49,727 |
| Asian/Pacific Islander ^c | 10,944 | 5,603 | + | + | + | 17,347 | + | + | + |
| Males | 5,817 | 2,889 | + | + | + | 9,134 | + | + | + |
| Females | 5,127 | 2,714 | + | + | + | 8,213 | + | + | + |
| Hispanic ^d | 17,254 | 8,553 | + | + | + | 27,040 | + | + | + |
| Males | 9,468 | 4,468 | + | + | + | 14,498 | + | + | + |
| Females | 7,786 | 4,085 | + | + | + | 12,542 | + | + | + |

Estimated prevalence percent^a on January 1, 2001, of the SEER 11 population diagnosed in the previous 10 years
By Age at Prevalence, Race/Ethnicity and Sex

| Age at Prevalence | Age Specific (Crude) | | | | | | | | | | Age-Adjusted ^f |
|-------------------------------------|----------------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------------------------|
| | All Ages | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80+ | All Ages |
| Race/Sex | | | | | | | | | | | |
| All Races ^c | 0.1983% | - | 0.0003% | 0.0028% | 0.0182% | 0.0694% | 0.2390% | 0.6733% | 1.2444% | 1.7269% | 0.2207% |
| Males | 0.2017% | - | 0.0002% | 0.0025% | 0.0189% | 0.0736% | 0.2703% | 0.8184% | 1.5065% | 1.9713% | 0.2600% |
| Females | 0.1949% | - | 0.0004% | 0.0030% | 0.0175% | 0.0652% | 0.2093% | 0.5448% | 1.0479% | 1.5972% | 0.1907% |
| White ^c | 0.2108% | - | 0.0003% | 0.0026% | 0.0177% | 0.0658% | 0.2310% | 0.6712% | 1.2573% | 1.7548% | 0.2205% |
| Males | 0.2133% | - | 0.0003% | 0.0025% | 0.0184% | 0.0689% | 0.2664% | 0.8171% | 1.5281% | 1.9968% | 0.2607% |
| Females | 0.2082% | - | 0.0003% | 0.0028% | 0.0168% | 0.0626% | 0.1964% | 0.5387% | 1.0521% | 1.6286% | 0.1893% |
| Black ^c | 0.1516% | - | - | 0.0031% | 0.0187% | 0.0846% | 0.3031% | 0.7724% | 1.2697% | 1.4860% | 0.2318% |
| Males | 0.1455% | - | - | 0.0024% | 0.0174% | 0.0919% | 0.3275% | 0.8823% | 1.3820% | 1.6996% | 0.2583% |
| Females | 0.1572% | - | - | 0.0037% | 0.0197% | 0.0783% | 0.2826% | 0.6854% | 1.1957% | 1.3878% | 0.2145% |
| Asian/Pacific Islander ^c | 0.1681% | - | - | 0.0032% | 0.0203% | 0.0771% | 0.2327% | 0.6063% | 1.1037% | 1.5983% | 0.2051% |
| Males | 0.1832% | - | - | 0.0025% | 0.0218% | 0.0871% | 0.2440% | 0.7607% | 1.3966% | 1.8898% | 0.2466% |
| Females | 0.1540% | - | - | 0.0039% | 0.0190% | 0.0682% | 0.2228% | 0.4802% | 0.8839% | 1.3957% | 0.1734% |
| Hispanic ^d | 0.0681% | - | 0.0004% | 0.0024% | 0.0138% | 0.0491% | 0.1772% | 0.4749% | 0.9084% | 1.1848% | 0.1586% |
| Males | 0.0708% | - | - | 0.0029% | 0.0145% | 0.0500% | 0.2020% | 0.6171% | 1.2114% | 1.3476% | 0.1964% |
| Females | 0.0653% | - | - | 0.0019% | 0.0129% | 0.0482% | 0.1545% | 0.3582% | 0.6925% | 1.0968% | 0.1311% |

^a US 2001 cancer prevalence counts are based on 2001 cancer prevalence proportions from the SEER registries and 1/1/2001 US population estimates based on the average of 2000 and 2001 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.

^{b c d} Statistics based on b) SEER 9 Areas c) SEER 11 Areas d) SEER 11 Areas excluding Hawaii and Detroit.

^e Maximum limited-duration prevalence: 26 years for 1975-2001 SEER 9 data; 11 years for 1990-2001 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

^f Percentages are age-adjusted to the 2000 US standard population by 5-year age groups.

^{g h} (g) Cases diagnosed 26 years or more ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (h) Complete prevalence is obtained by summing 0 to <26 and >=26.

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

+ Not available.

SEER Incidence, Delay Adjusted Incidence and US Death Rates+ Colon and Rectum Cancer, by Race and Sex

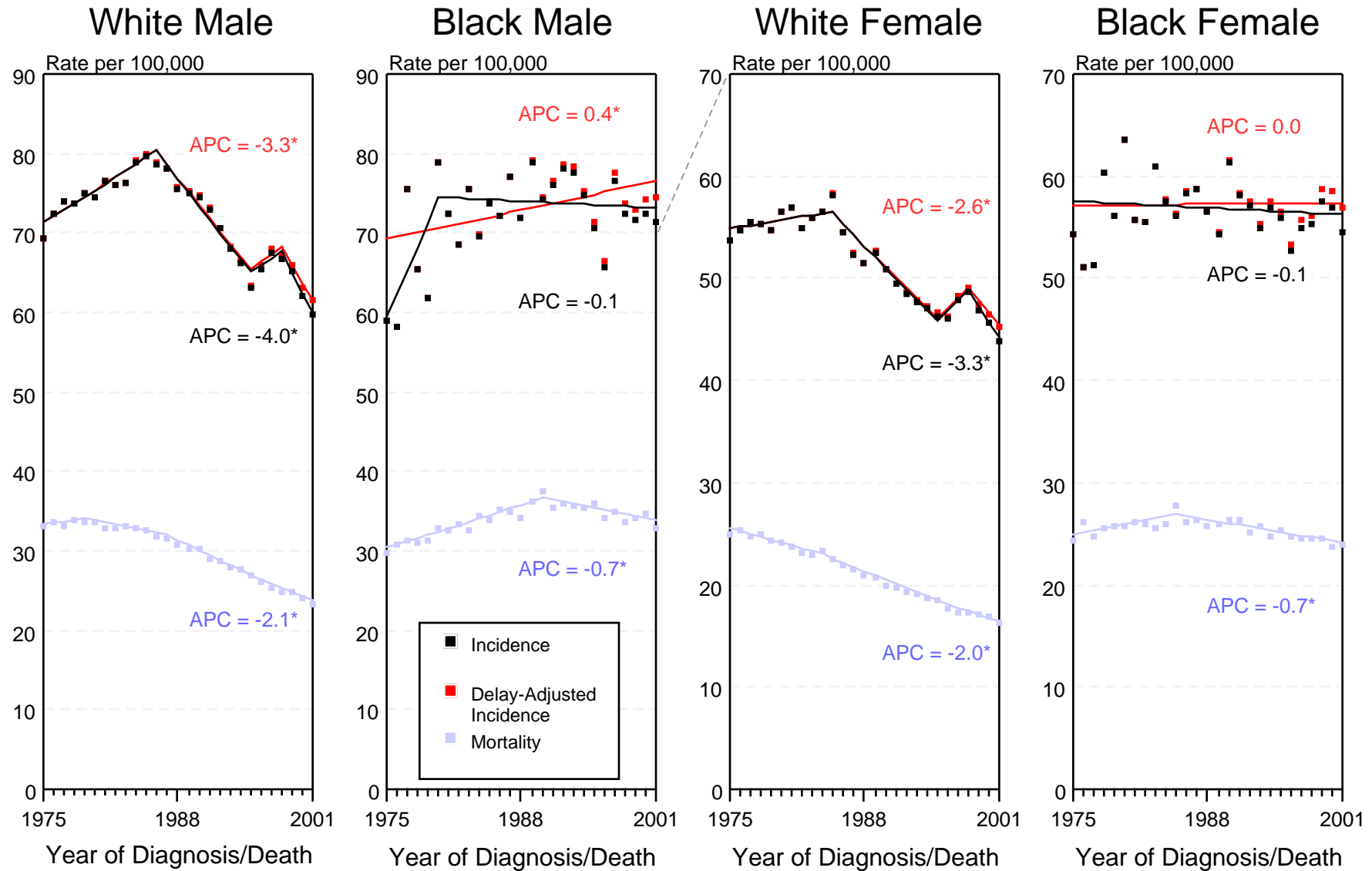


Figure VI-1

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

The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

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