

Table 6.1  
Cancer of the Colon and Rectum (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program,  
1975-2006 With up to Four Joinpoints, 1992-2006 With up to Two Joinpoints,  
Both Sexes by Race/Ethnicity

|  | Joinpoint Trend 1 |       | Joinpoint Trend 2 |       | Joinpoint Trend 3 |       | Joinpoint Trend 4 |       | Joinpoint Trend 5 |       | AAPC <sup>d</sup> |           |
|--|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-----------|
|  | Years             | APC   | Years             | APC   | Years             | APC   | Years             | APC   | Years             | APC   | 1997-2006         | 2002-2006 |
| <u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2006</u>  |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1975-1985         | 0.8*  | 1985-1995         | -1.8* | 1995-1998         | 1.6   | 1998-2006         | -2.5* |                   |       | -2.1*             | -2.5*     |
| White  | 1975-1985         | 0.8*  | 1985-1995         | -2.0* | 1995-1998         | 1.8   | 1998-2006         | -2.7* |                   |       | -2.2*             | -2.7*     |
| Black  | 1975-1980         | 3.2*  | 1980-2002         | -0.1  | 2002-2006         | -2.7* |                   |       |                   |       | -1.3*             | -2.7*     |
| <u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2006</u> |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1992-1995         | -2.1* | 1995-1998         | 1.8   | 1998-2006         | -2.5* |                   |       |                   |       | -2.0*             | -2.5*     |
| White  | 1992-1995         | -2.2* | 1995-1998         | 1.9   | 1998-2006         | -2.7* |                   |       |                   |       | -2.2*             | -2.7*     |
| Black  | 1992-2003         | -0.1  | 2003-2006         | -3.3  |                   |       |                   |       |                   |       | -1.2*             | -2.5*     |
| <u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2006</u>        |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1975-1985         | 0.8*  | 1985-1995         | -1.8* | 1995-1998         | 1.1   | 1998-2002         | -1.9* | 2002-2006         | -3.5* | -2.3*             | -3.5*     |
| White  | 1975-1985         | 0.8*  | 1985-1995         | -2.0* | 1995-1998         | 1.8   | 1998-2006         | -2.9* |                   |       | -2.4*             | -2.9*     |
| Black  | 1975-1980         | 3.2*  | 1980-2002         | -0.2  | 2002-2006         | -3.2* |                   |       |                   |       | -1.5*             | -3.2*     |
| <u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2006</u>       |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1992-1995         | -2.2* | 1995-1998         | 1.9   | 1998-2006         | -2.7* |                   |       |                   |       | -2.2*             | -2.7*     |
| White  | 1992-1995         | -2.2* | 1995-1998         | 2.0   | 1998-2006         | -2.9* |                   |       |                   |       | -2.3*             | -2.9*     |
| White NH <sup>ef</sup>   | 1992-1995         | -2.2* | 1995-1998         | 2.0   | 1998-2006         | -2.9* |                   |       |                   |       | -2.3*             | -2.9*     |
| Black  | 1992-2003         | -0.2  | 2003-2006         | -3.9* |                   |       |                   |       |                   |       | -1.4*             | -3.0*     |
| Black NH <sup>ef</sup>   | 1992-2003         | -0.2  | 2003-2006         | -3.7* |                   |       |                   |       |                   |       | -1.4*             | -2.8*     |
| API <sup>e</sup>   | 1992-2002         | -0.3  | 2002-2006         | -3.9* |                   |       |                   |       |                   |       | -1.9*             | -3.9*     |
| AI/AN <sup>eg</sup>  | 1992-2006         | -0.1  |                   |       |                   |       |                   |       |                   |       | -0.1              | -0.1      |
| Hispanic <sup>f</sup>  | 1992-1995         | -1.5  | 1995-1998         | 3.1   | 1998-2006         | -1.7* |                   |       |                   |       | -1.1*             | -1.7*     |
| <u>U.S. Cancer Mortality<sup>c</sup>, 1975-2006</u>            |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1975-1984         | -0.5* | 1984-2001         | -1.7* | 2001-2006         | -3.4* |                   |       |                   |       | -2.7*             | -3.4*     |
| White  | 1975-1984         | -0.6* | 1984-2002         | -1.9* | 2002-2006         | -3.9* |                   |       |                   |       | -2.8*             | -3.9*     |
| Black  | 1975-1990         | 0.7*  | 1990-2001         | -0.8* | 2001-2006         | -2.8* |                   |       |                   |       | -1.9*             | -2.8*     |
| <u>U.S. Cancer Mortality<sup>c</sup>, 1992-2006</u>            |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1992-2001         | -1.8* | 2001-2006         | -3.4* |                   |       |                   |       |                   |       | -2.7*             | -3.4*     |
| White  | 1992-2002         | -1.9* | 2002-2006         | -3.9* |                   |       |                   |       |                   |       | -2.8*             | -3.9*     |
| White NH <sup>ef</sup>   | 1992-2002         | -1.8* | 2002-2006         | -3.6* |                   |       |                   |       |                   |       | -2.6*             | -3.6*     |
| Black  | 1992-2000         | -0.6* | 2000-2006         | -2.6* |                   |       |                   |       |                   |       | -1.9*             | -2.6*     |
| Black NH <sup>ef</sup>   | 1992-2001         | -0.6* | 2001-2006         | -2.6* |                   |       |                   |       |                   |       | -1.7*             | -2.6*     |
| API <sup>e</sup>   | 1992-2006         | -2.2* |                   |       |                   |       |                   |       |                   |       | -2.2*             | -2.2*     |
| AI/AN <sup>eg</sup>  | 1992-1996         | 10.3* | 1996-2006         | -2.1* |                   |       |                   |       |                   |       | -2.1*             | -2.1*     |
| Hispanic <sup>f</sup>  | 1992-2001         | 0.1   | 2001-2004         | -4.0  | 2004-2006         | 0.3   |                   |       |                   |       | -1.3              | -1.9      |

Joinpoint Regression Program Version 3.3.1, April 2008, 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 (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

<sup>b</sup> Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

<sup>c</sup> Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>d</sup> The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

<sup>e</sup> API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

<sup>f</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 are based on NHIA and exclude cases from the Alaska Native Registry.

The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, DC, ME, MD, MN, NH, NY, ND, OK and VT.

<sup>g</sup> Data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

\* The APC/AAPC is significantly different from zero ( $p < .05$ ).

- Joinpoint regression line analysis could not be performed on data series.

Table 6.2  
Cancer of the Colon and Rectum (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program,  
1975-2006 With up to Four Joinpoints, 1992-2006 With up to Two Joinpoints,  
Males by Race/Ethnicity

|  | Joinpoint Trend 1 |       | Joinpoint Trend 2 |       | Joinpoint Trend 3 |       | Joinpoint Trend 4 |       | Joinpoint Trend 5 |       | AAPC <sup>d</sup> |           |
|--|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-----------|
|  | Years             | APC   | Years             | APC   | Years             | APC   | Years             | APC   | Years             | APC   | 1997-2006         | 2002-2006 |
| <u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2006</u>  |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1975-1985         | 1.1*  | 1985-1991         | -1.2* | 1991-1995         | -3.2* | 1995-1998         | 2.1   | 1998-2006         | -3.0* | -2.5*             | -3.0*     |
| White  | 1975-1985         | 1.1*  | 1985-1991         | -1.4* | 1991-1995         | -3.3* | 1995-1998         | 2.1   | 1998-2006         | -3.2* | -2.6*             | -3.2*     |
| Black  | 1975-1989         | 1.4*  | 1989-2006         | -0.8* |                   |       |                   |       |                   |       | -0.8*             | -0.8*     |
| <u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2006</u> |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1992-1995         | -2.6* | 1995-1998         | 1.7   | 1998-2006         | -2.9* |                   |       |                   |       | -2.4*             | -2.9*     |
| White  | 1992-1995         | -2.8* | 1995-1998         | 1.8   | 1998-2006         | -3.2* |                   |       |                   |       | -2.6*             | -3.2*     |
| Black  | 1992-2004         | -0.3  | 2004-2006         | -7.5  |                   |       |                   |       |                   |       | -1.9              | -3.9      |
| <u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2006</u>        |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1975-1986         | 1.1*  | 1986-1995         | -2.1* | 1995-1998         | 1.1   | 1998-2004         | -2.6* | 2004-2006         | -5.7* | -2.9*             | -4.2*     |
| White  | 1975-1985         | 1.1*  | 1985-1991         | -1.4* | 1991-1995         | -3.3* | 1995-1998         | 2.2   | 1998-2006         | -3.3* | -2.7*             | -3.3*     |
| Black  | 1975-1980         | 4.6   | 1980-2003         | 0.0   | 2003-2006         | -6.5* |                   |       |                   |       | -2.2*             | -4.9*     |
| <u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2006</u>       |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1992-1995         | -2.7* | 1995-1998         | 1.8   | 1998-2006         | -3.1* |                   |       |                   |       | -2.6*             | -3.1*     |
| White  | 1992-1995         | -2.9* | 1995-1998         | 1.8   | 1998-2006         | -3.3* |                   |       |                   |       | -2.8*             | -3.3*     |
| White NH <sup>ef</sup>   | 1992-1995         | -3.0* | 1995-1998         | 1.8   | 1998-2006         | -3.3* |                   |       |                   |       | -2.8*             | -3.3*     |
| Black  | 1992-2004         | -0.3  | 2004-2006         | -8.3  |                   |       |                   |       |                   |       | -2.2*             | -4.4      |
| Black NH <sup>ef</sup>   | 1992-2004         | -0.3  | 2004-2006         | -8.0  |                   |       |                   |       |                   |       | -2.1              | -4.2      |
| API <sup>e</sup>   | 1992-2002         | -0.5  | 2002-2006         | -4.5* |                   |       |                   |       |                   |       | -2.3*             | -4.5*     |
| AI/AN <sup>eg</sup>  | 1992-2006         | -0.9  |                   |       |                   |       |                   |       |                   |       | -0.9              | -0.9      |
| Hispanic <sup>f</sup>  | 1992-1998         | 1.7   | 1998-2006         | -2.1* |                   |       |                   |       |                   |       | -1.7*             | -2.1*     |
| <u>U.S. Cancer Mortality<sup>c</sup>, 1975-2006</u>            |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1975-1984         | -0.1  | 1984-1990         | -1.4* | 1990-2002         | -2.0* | 2002-2006         | -3.9* |                   |       | -2.9*             | -3.9*     |
| White  | 1975-1979         | 0.5   | 1979-1987         | -0.8* | 1987-2002         | -2.1* | 2002-2006         | -4.1* |                   |       | -3.0*             | -4.1*     |
| Black  | 1975-1990         | 1.2*  | 1990-2000         | -0.7* | 2000-2006         | -2.1* |                   |       |                   |       | -1.6*             | -2.1*     |
| <u>U.S. Cancer Mortality<sup>c</sup>, 1992-2006</u>            |                   |       |                   |       |                   |       |                   |       |                   |       |                   |           |
| All Races  | 1992-2002         | -2.1* | 2002-2006         | -3.9* |                   |       |                   |       |                   |       | -2.9*             | -3.9*     |
| White  | 1992-2002         | -2.2* | 2002-2006         | -4.0* |                   |       |                   |       |                   |       | -3.0*             | -4.0*     |
| White NH <sup>ef</sup>   | 1992-2002         | -2.1* | 2002-2006         | -3.7* |                   |       |                   |       |                   |       | -2.8*             | -3.7*     |
| Black  | 1992-2006         | -1.3* |                   |       |                   |       |                   |       |                   |       | -1.3*             | -1.3*     |
| Black NH <sup>ef</sup>   | 1992-2006         | -1.1* |                   |       |                   |       |                   |       |                   |       | -1.1*             | -1.1*     |
| API <sup>e</sup>   | 1992-2006         | -2.4* |                   |       |                   |       |                   |       |                   |       | -2.4*             | -2.4*     |
| AI/AN <sup>eg</sup>  | 1992-1996         | 15.3  | 1996-2006         | -1.4  |                   |       |                   |       |                   |       | -1.4              | -1.4      |
| Hispanic <sup>f</sup>  | 1992-1998         | 1.0*  | 1998-2006         | -2.5* |                   |       |                   |       |                   |       | -2.2*             | -2.5*     |

Joinpoint Regression Program Version 3.3.1, April 2008, 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 (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

<sup>b</sup> Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

<sup>c</sup> Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>d</sup> The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

<sup>e</sup> API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

<sup>f</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 are based on NHIA and exclude cases from the Alaska Native Registry.

The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, DC, ME, MD, MN, NH, NY, ND, OK and VT.

<sup>g</sup> Data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

\* The APC/AAPC is significantly different from zero ( $p < .05$ ).

- Joinpoint regression line analysis could not be performed on data series.

Table 6.3  
Cancer of the Colon and Rectum (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program,  
1975-2006 With up to Four Joinpoints, 1992-2006 With up to Two Joinpoints,  
Females by Race/Ethnicity

|  | Joinpoint Trend 1 |       | Joinpoint Trend 2 |       | Joinpoint Trend 3 |       | Joinpoint Trend 4 |       | Joinpoint Trend 5 |     | AAPC <sup>d</sup> |           |
|--|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-----|-------------------|-----------|
|  | Years             | APC   | Years             | APC   | Years             | APC   | Years             | APC   | Years             | APC | 1997-2006         | 2002-2006 |
| <u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2006</u>  |                   |       |                   |       |                   |       |                   |       |                   |     |                   |           |
| All Races  | 1975-1985         | 0.3   | 1985-1995         | -1.8* | 1995-1998         | 1.9   | 1998-2006         | -2.2* |                   |     | -1.7*             | -2.2*     |
| White  | 1975-1985         | 0.3   | 1985-1995         | -2.0* | 1995-1998         | 2.2   | 1998-2006         | -2.4* |                   |     | -1.9*             | -2.4*     |
| Black  | 1975-2006         | -0.2  |                   |       |                   |       |                   |       |                   |     | -0.2*             | -0.2*     |
| <u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2006</u> |                   |       |                   |       |                   |       |                   |       |                   |     |                   |           |
| All Races  | 1992-1995         | -1.8  | 1995-1998         | 2.0   | 1998-2006         | -2.2* |                   |       |                   |     | -1.7*             | -2.2*     |
| White  | 1992-1995         | -1.7  | 1995-1998         | 2.0   | 1998-2006         | -2.4* |                   |       |                   |     | -1.9*             | -2.4*     |
| Black  | 1992-2000         | 0.4   | 2000-2006         | -1.5* |                   |       |                   |       |                   |     | -0.9*             | -1.5*     |
| <u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2006</u>        |                   |       |                   |       |                   |       |                   |       |                   |     |                   |           |
| All Races  | 1975-1985         | 0.3   | 1985-1995         | -1.9* | 1995-1998         | 2.0   | 1998-2006         | -2.4* |                   |     | -1.9*             | -2.4*     |
| White  | 1975-1985         | 0.3   | 1985-1995         | -2.1* | 1995-1998         | 2.2   | 1998-2006         | -2.6* |                   |     | -2.1*             | -2.6*     |
| Black  | 1975-1980         | 2.8   | 1980-2006         | -0.4* |                   |       |                   |       |                   |     | -0.4*             | -0.4*     |
| <u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2006</u>       |                   |       |                   |       |                   |       |                   |       |                   |     |                   |           |
| All Races  | 1992-1995         | -1.9* | 1995-1998         | 2.0   | 1998-2006         | -2.3* |                   |       |                   |     | -1.9*             | -2.3*     |
| White  | 1992-1995         | -1.8  | 1995-1998         | 2.0   | 1998-2006         | -2.6* |                   |       |                   |     | -2.1*             | -2.6*     |
| White NH <sup>ef</sup>   | 1992-1995         | -1.7  | 1995-1998         | 2.2   | 1998-2006         | -2.6* |                   |       |                   |     | -2.1*             | -2.6*     |
| Black  | 1992-2000         | 0.4   | 2000-2006         | -1.8* |                   |       |                   |       |                   |     | -1.1*             | -1.8*     |
| Black NH <sup>ef</sup>   | 1992-2000         | 0.3   | 2000-2006         | -1.7* |                   |       |                   |       |                   |     | -1.0*             | -1.7*     |
| API <sup>e</sup>   | 1992-2006         | -0.8* |                   |       |                   |       |                   |       |                   |     | -0.8*             | -0.8*     |
| AI/AN <sup>eg</sup>  | 1992-2006         | 0.8   |                   |       |                   |       |                   |       |                   |     | 0.8               | 0.8       |
| Hispanic <sup>f</sup>  | 1992-2006         | -0.4* |                   |       |                   |       |                   |       |                   |     | -0.4*             | -0.4*     |
| <u>U.S. Cancer Mortality<sup>c</sup>, 1975-2006</u>            |                   |       |                   |       |                   |       |                   |       |                   |     |                   |           |
| All Races  | 1975-1984         | -1.0* | 1984-2001         | -1.8* | 2001-2006         | -3.4* |                   |       |                   |     | -2.7*             | -3.4*     |
| White  | 1975-1984         | -1.2* | 1984-2001         | -2.0* | 2001-2006         | -3.3* |                   |       |                   |     | -2.7*             | -3.3*     |
| Black  | 1975-1985         | 0.7*  | 1985-2001         | -0.7* | 2001-2006         | -3.5* |                   |       |                   |     | -2.3*             | -3.5*     |
| <u>U.S. Cancer Mortality<sup>c</sup>, 1992-2006</u>            |                   |       |                   |       |                   |       |                   |       |                   |     |                   |           |
| All Races  | 1992-2001         | -1.7* | 2001-2006         | -3.5* |                   |       |                   |       |                   |     | -2.7*             | -3.5*     |
| White  | 1992-2001         | -1.8* | 2001-2006         | -3.5* |                   |       |                   |       |                   |     | -2.8*             | -3.5*     |
| White NH <sup>ef</sup>   | 1992-2001         | -1.7* | 2001-2006         | -3.3* |                   |       |                   |       |                   |     | -2.6*             | -3.3*     |
| Black  | 1992-2001         | -0.8* | 2001-2006         | -3.4* |                   |       |                   |       |                   |     | -2.3*             | -3.4*     |
| Black NH <sup>ef</sup>   | 1992-2001         | -0.7* | 2001-2006         | -3.3* |                   |       |                   |       |                   |     | -2.1*             | -3.3*     |
| API <sup>e</sup>   | 1992-2006         | -1.9* |                   |       |                   |       |                   |       |                   |     | -1.9*             | -1.9*     |
| AI/AN <sup>eg</sup>  | 1992-2006         | -1.1  |                   |       |                   |       |                   |       |                   |     | -1.1              | -1.1      |
| Hispanic <sup>f</sup>  | 1992-2001         | 0.3   | 2001-2004         | -4.5  | 2004-2006         | 2.6   |                   |       |                   |     | -0.8              | -1.0      |

Joinpoint Regression Program Version 3.3.1, April 2008, 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 (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

<sup>b</sup> Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

<sup>c</sup> Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>d</sup> The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

<sup>e</sup> API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

<sup>f</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 are based on NHIA and exclude cases from the Alaska Native Registry.

The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, DC, ME, MD, MN, NH, NY, ND, OK and VT.

<sup>g</sup> Data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

\* The APC/AAPC is significantly different from zero ( $p < .05$ ).

- Joinpoint regression line analysis could not be performed on data series.

Table 6.4  
Cancer of the Colon (Invasive) and Cancer of the Rectum (Invasive)

Trends in SEER 9 Observed Incidence<sup>a</sup> Using the Joinpoint Regression Program,  
1975-2006 With up to Four Joinpoints,  
By Race and Sex

|  |            | <u>Joinpoint Trend 1</u> |       | <u>Joinpoint Trend 2</u> |       | <u>Joinpoint Trend 3</u> |       | <u>Joinpoint Trend 4</u> |       | <u>Joinpoint Trend 5</u> |       | <u>AAPC<sup>b</sup></u> |
|--|------------|--------------------------|-------|--------------------------|-------|--------------------------|-------|--------------------------|-------|--------------------------|-------|-------------------------|
|  |            | Years                    | APC   | Years                    | APC   | Years                    | APC   | Years                    | APC   | Years                    | APC   | 2002-2006               |
| <u>SEER 9 Observed Incidence<sup>a</sup> for Cancer of the Colon, 1975-2006</u>  |            |                          |       |                          |       |                          |       |                          |       |                          |       |                         |
| All Races  | Both Sexes | 1975-1985                | 1.2*  | 1985-1995                | -1.7* | 1995-1998                | 0.6   | 1998-2002                | -1.6* | 2002-2006                | -3.8* | -3.8*                   |
| All Races  | Male       | 1975-1985                | 1.7*  | 1985-2002                | -1.5* | 2002-2006                | -4.3* |                          |       |                          |       | -4.3*                   |
| All Races  | Female     | 1975-1985                | 0.6*  | 1985-1993                | -1.8* | 1993-2001                | -0.2  | 2001-2006                | -3.2* |                          |       | -3.2*                   |
| White  | Both Sexes | 1975-1985                | 1.1*  | 1985-1995                | -1.9* | 1995-1998                | 1.0   | 1998-2002                | -2.0* | 2002-2006                | -3.7* | -3.7*                   |
| White  | Male       | 1975-1985                | 1.7*  | 1985-1991                | -1.4* | 1991-1995                | -3.1* | 1995-1998                | 1.7   | 1998-2006                | -3.3* | -3.3*                   |
| White  | Female     | 1975-1985                | 0.6*  | 1985-1993                | -2.1* | 1993-2001                | -0.2  | 2001-2006                | -3.4* |                          |       | -3.4*                   |
| Black  | Both Sexes | 1975-1991                | 0.8*  | 1991-2006                | -1.0* |                          |       |                          |       |                          |       | -1.0*                   |
| Black  | Male       | 1975-1990                | 1.5*  | 1990-2006                | -1.1* |                          |       |                          |       |                          |       | -1.1*                   |
| Black  | Female     | 1975-2006                | -0.2* |                          |       |                          |       |                          |       |                          |       | -0.2*                   |
| <u>SEER 9 Observed Incidence<sup>a</sup> for Cancer of the Rectum, 1975-2006</u> |            |                          |       |                          |       |                          |       |                          |       |                          |       |                         |
| All Races  | Both Sexes | 1975-1987                | -0.3  | 1987-1995                | -2.4* | 1995-1998                | 2.9   | 1998-2006                | -2.8* |                          |       | -2.8*                   |
| All Races  | Male       | 1975-1989                | -0.3  | 1989-1994                | -3.5* | 1994-1999                | 1.2   | 1999-2006                | -3.5* |                          |       | -3.5*                   |
| All Races  | Female     | 1975-1984                | -0.2  | 1984-1995                | -2.2* | 1995-1998                | 2.6   | 1998-2006                | -2.6* |                          |       | -2.6*                   |
| White  | Both Sexes | 1975-1985                | -0.1  | 1985-1995                | -2.3* | 1995-1998                | 2.7   | 1998-2006                | -3.1* |                          |       | -3.1*                   |
| White  | Male       | 1975-1989                | -0.3  | 1989-1994                | -4.0* | 1994-1999                | 1.2   | 1999-2006                | -3.7* |                          |       | -3.7*                   |
| White  | Female     | 1975-1984                | -0.2  | 1984-1995                | -2.3* | 1995-1998                | 2.8   | 1998-2006                | -3.0* |                          |       | -3.0*                   |
| Black  | Both Sexes | 1975-2006                | -0.2  |                          |       |                          |       |                          |       |                          |       | -0.2                    |
| Black  | Male       | 1975-2004                | 0.1   | 2004-2006                | -10.4 |                          |       |                          |       |                          |       | -5.3                    |
| Black  | Female     | 1975-2006                | -0.3  |                          |       |                          |       |                          |       |                          |       | -0.3                    |

Joinpoint Regression Program Version 3.3.1, April 2008, 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).

Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

\* The APC/AAPC is significantly different from zero ( $p < .05$ ).

- Joinpoint regression line analysis could not be performed on data series.

a  
b  
\*  
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Table 6.5  
Cancer of the Colon and Rectum (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

| Year of Diagnosis: | All Races |       |         | Whites |       |         | Blacks |       |         |
|--------------------|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
|                    | Total     | Males | Females | Total  | Males | Females | Total  | Males | Females |
| 1975               | 59.51     | 68.40 | 53.64   | 60.17  | 69.72 | 54.04   | 56.85  | 59.33 | 54.66   |
| 1976               | 61.36     | 71.74 | 54.15   | 62.15  | 72.67 | 55.03   | 55.06  | 58.53 | 51.32   |
| 1977               | 62.40     | 73.50 | 54.95   | 63.19  | 74.32 | 55.76   | 60.72  | 75.75 | 51.47   |
| 1978               | 62.04     | 72.37 | 55.25   | 62.77  | 73.89 | 55.58   | 62.16  | 65.70 | 60.64   |
| 1979               | 62.37     | 74.11 | 54.57   | 62.95  | 75.20 | 54.94   | 58.57  | 61.64 | 56.29   |
| 1980               | 63.74     | 74.53 | 56.53   | 63.94  | 74.87 | 56.82   | 70.76  | 79.68 | 64.12   |
| 1981               | 64.24     | 75.84 | 56.49   | 64.89  | 76.72 | 57.14   | 62.78  | 72.81 | 55.94   |
| 1982               | 62.78     | 75.19 | 54.50   | 63.44  | 76.27 | 55.04   | 61.25  | 68.97 | 55.92   |
| 1983               | 63.67     | 75.58 | 55.62   | 64.28  | 76.56 | 56.07   | 66.61  | 75.39 | 61.14   |
| 1984               | 64.82     | 77.68 | 56.07   | 65.83  | 79.27 | 56.73   | 62.26  | 70.26 | 57.98   |
| 1985               | 66.31     | 79.14 | 57.37   | 67.22  | 80.18 | 58.43   | 63.87  | 74.12 | 56.27   |
| 1986               | 64.18     | 77.77 | 54.72   | 64.60  | 78.92 | 54.74   | 64.52  | 72.90 | 58.61   |
| 1987               | 62.71     | 77.47 | 52.67   | 62.88  | 78.20 | 52.62   | 66.21  | 77.48 | 59.01   |
| 1988               | 61.36     | 75.17 | 51.80   | 61.52  | 75.75 | 51.70   | 63.14  | 72.41 | 56.91   |
| 1989               | 61.67     | 74.94 | 52.41   | 61.95  | 75.42 | 52.67   | 64.38  | 79.28 | 54.60   |
| 1990               | 60.69     | 74.33 | 51.29   | 60.66  | 74.73 | 51.05   | 66.63  | 74.71 | 61.58   |
| 1991               | 59.47     | 72.89 | 50.05   | 59.28  | 73.08 | 49.67   | 65.59  | 76.29 | 58.16   |
| 1992               | 57.98     | 70.41 | 49.18   | 57.83  | 70.68 | 48.71   | 65.41  | 78.35 | 57.31   |
| 1993               | 56.80     | 68.42 | 48.32   | 56.34  | 68.08 | 47.82   | 64.33  | 77.85 | 55.14   |
| 1994               | 55.60     | 66.25 | 47.69   | 55.34  | 66.30 | 47.13   | 64.47  | 75.33 | 57.98   |
| 1995               | 54.02     | 63.77 | 46.93   | 53.67  | 63.37 | 46.58   | 61.97  | 71.10 | 56.15   |
| 1996               | 54.72     | 65.47 | 46.68   | 54.73  | 65.84 | 46.41   | 58.26  | 66.62 | 52.53   |
| 1997               | 56.40     | 68.09 | 47.94   | 56.41  | 67.93 | 48.06   | 64.23  | 77.07 | 55.88   |
| 1998               | 56.71     | 66.94 | 49.27   | 56.66  | 67.15 | 49.02   | 62.68  | 73.79 | 55.77   |
| 1999               | 55.44     | 65.62 | 47.85   | 55.24  | 65.73 | 47.20   | 63.07  | 71.71 | 58.04   |
| 2000               | 54.05     | 63.56 | 46.69   | 53.70  | 62.95 | 46.45   | 64.05  | 73.68 | 57.71   |
| 2001               | 53.32     | 62.59 | 46.04   | 52.69  | 62.16 | 45.17   | 63.73  | 74.08 | 57.04   |
| 2002               | 52.71     | 60.87 | 46.31   | 51.95  | 59.73 | 45.71   | 62.10  | 72.75 | 55.38   |
| 2003               | 50.26     | 58.78 | 43.47   | 49.78  | 58.01 | 43.07   | 61.05  | 73.35 | 53.30   |
| 2004               | 49.16     | 57.75 | 42.51   | 48.35  | 57.25 | 41.34   | 60.86  | 71.89 | 53.50   |
| 2005               | 46.70     | 53.78 | 41.06   | 46.35  | 53.75 | 40.34   | 55.52  | 61.16 | 52.24   |
| 2006               | 45.45     | 51.29 | 40.69   | 44.64  | 50.58 | 39.68   | 55.41  | 61.49 | 51.37   |
| 1975-2006          | 57.38     | 67.95 | 49.71   | 57.55  | 68.33 | 49.75   | 62.26  | 71.77 | 56.05   |

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.6  
Cancer of the Colon (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

| Year of Diagnosis: | All Races |       |         | Whites |       |         | Blacks |       |         |
|--------------------|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
|                    | Total     | Males | Females | Total  | Males | Females | Total  | Males | Females |
| 1975               | 41.33     | 45.36 | 38.89   | 41.71  | 46.10 | 39.15   | 42.83  | 44.14 | 41.64   |
| 1976               | 43.06     | 47.76 | 39.96   | 43.45  | 48.19 | 40.41   | 43.11  | 43.60 | 41.95   |
| 1977               | 43.97     | 49.55 | 40.36   | 44.66  | 50.06 | 41.19   | 45.42  | 58.42 | 37.66   |
| 1978               | 43.85     | 49.13 | 40.59   | 44.11  | 49.87 | 40.61   | 47.77  | 48.81 | 47.88   |
| 1979               | 43.77     | 50.20 | 39.61   | 44.10  | 51.03 | 39.70   | 44.68  | 45.58 | 43.97   |
| 1980               | 45.56     | 50.67 | 42.33   | 45.58  | 50.88 | 42.32   | 55.12  | 58.32 | 52.74   |
| 1981               | 45.47     | 51.34 | 41.72   | 45.89  | 51.96 | 42.11   | 46.86  | 50.64 | 44.36   |
| 1982               | 45.75     | 53.45 | 40.66   | 46.07  | 54.09 | 40.84   | 48.27  | 52.48 | 45.19   |
| 1983               | 46.11     | 53.02 | 41.64   | 46.41  | 53.46 | 41.88   | 50.15  | 58.40 | 45.25   |
| 1984               | 46.51     | 54.61 | 41.31   | 47.04  | 55.57 | 41.58   | 48.56  | 54.02 | 45.83   |
| 1985               | 47.89     | 55.02 | 43.01   | 48.43  | 55.59 | 43.70   | 49.87  | 57.34 | 44.21   |
| 1986               | 46.79     | 54.36 | 41.58   | 47.07  | 55.21 | 41.51   | 49.20  | 55.04 | 45.46   |
| 1987               | 45.24     | 54.42 | 39.17   | 45.15  | 54.52 | 39.09   | 51.35  | 59.84 | 45.73   |
| 1988               | 44.30     | 52.59 | 38.66   | 44.25  | 52.85 | 38.39   | 48.93  | 54.02 | 45.61   |
| 1989               | 44.35     | 52.41 | 38.95   | 44.48  | 52.49 | 39.20   | 48.85  | 60.28 | 41.54   |
| 1990               | 44.19     | 51.96 | 38.93   | 44.06  | 51.98 | 38.76   | 52.02  | 57.69 | 48.57   |
| 1991               | 43.60     | 51.84 | 37.91   | 43.29  | 51.85 | 37.41   | 51.74  | 57.75 | 47.67   |
| 1992               | 42.28     | 49.65 | 37.20   | 42.05  | 49.77 | 36.71   | 50.79  | 60.21 | 45.17   |
| 1993               | 41.60     | 48.93 | 36.32   | 41.07  | 48.62 | 35.67   | 51.10  | 60.40 | 45.02   |
| 1994               | 40.82     | 46.93 | 36.31   | 40.61  | 47.03 | 35.79   | 50.11  | 57.03 | 46.30   |
| 1995               | 39.64     | 45.02 | 35.86   | 39.29  | 44.64 | 35.47   | 48.74  | 54.79 | 45.42   |
| 1996               | 39.34     | 45.31 | 34.88   | 39.30  | 45.75 | 34.46   | 44.45  | 48.40 | 41.84   |
| 1997               | 41.09     | 48.41 | 35.95   | 41.11  | 48.30 | 36.13   | 49.03  | 58.76 | 42.46   |
| 1998               | 41.00     | 46.76 | 37.01   | 40.92  | 47.04 | 36.60   | 47.41  | 54.38 | 43.71   |
| 1999               | 39.79     | 45.36 | 35.70   | 39.56  | 45.35 | 35.16   | 48.43  | 54.70 | 44.91   |
| 2000               | 39.30     | 44.34 | 35.44   | 38.92  | 43.82 | 35.13   | 50.85  | 57.16 | 46.89   |
| 2001               | 39.04     | 43.79 | 35.39   | 38.63  | 43.56 | 34.76   | 48.62  | 55.13 | 44.49   |
| 2002               | 38.37     | 42.86 | 34.87   | 37.68  | 41.83 | 34.37   | 48.72  | 56.09 | 44.03   |
| 2003               | 36.59     | 40.95 | 33.08   | 36.26  | 40.30 | 32.90   | 46.62  | 55.27 | 41.25   |
| 2004               | 35.80     | 40.80 | 32.05   | 35.24  | 40.54 | 31.21   | 46.39  | 53.21 | 41.91   |
| 2005               | 33.70     | 37.02 | 31.08   | 33.48  | 37.16 | 30.50   | 42.54  | 45.91 | 40.87   |
| 2006               | 32.95     | 35.93 | 30.51   | 32.42  | 35.46 | 29.87   | 42.76  | 46.52 | 40.16   |
| 1975-2006          | 41.43     | 47.32 | 37.25   | 41.46  | 47.51 | 37.18   | 48.04  | 54.25 | 44.13   |

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.7  
Cancer of the Rectum (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

| Year of Diagnosis: | All Races |       |         | Whites |       |         | Blacks |       |         |
|--------------------|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
|                    | Total     | Males | Females | Total  | Males | Females | Total  | Males | Females |
| 1975               | 18.18     | 23.04 | 14.75   | 18.45  | 23.62 | 14.89   | 14.02  | 15.19 | 13.01   |
| 1976               | 18.30     | 23.98 | 14.19   | 18.70  | 24.48 | 14.63   | 11.96  | 14.93 | 9.37    |
| 1977               | 18.43     | 23.95 | 14.59   | 18.53  | 24.26 | 14.58   | 15.30  | 17.33 | 13.81   |
| 1978               | 18.19     | 23.25 | 14.66   | 18.67  | 24.02 | 14.97   | 14.39  | 16.89 | 12.76   |
| 1979               | 18.60     | 23.91 | 14.96   | 18.85  | 24.17 | 15.24   | 13.90  | 16.06 | 12.31   |
| 1980               | 18.18     | 23.86 | 14.20   | 18.36  | 23.99 | 14.51   | 15.65  | 21.36 | 11.38   |
| 1981               | 18.77     | 24.50 | 14.77   | 19.00  | 24.76 | 15.02   | 15.92  | 22.17 | 11.59   |
| 1982               | 17.03     | 21.74 | 13.84   | 17.38  | 22.18 | 14.20   | 12.98  | 16.49 | 10.73   |
| 1983               | 17.56     | 22.55 | 13.98   | 17.87  | 23.11 | 14.19   | 16.47  | 16.99 | 15.89   |
| 1984               | 18.30     | 23.07 | 14.76   | 18.79  | 23.70 | 15.15   | 13.71  | 16.24 | 12.15   |
| 1985               | 18.42     | 24.12 | 14.36   | 18.79  | 24.59 | 14.72   | 14.00  | 16.79 | 12.06   |
| 1986               | 17.39     | 23.41 | 13.13   | 17.53  | 23.71 | 13.23   | 15.32  | 17.86 | 13.15   |
| 1987               | 17.47     | 23.05 | 13.50   | 17.73  | 23.68 | 13.53   | 14.87  | 17.64 | 13.29   |
| 1988               | 17.06     | 22.58 | 13.14   | 17.27  | 22.90 | 13.31   | 14.21  | 18.38 | 11.30   |
| 1989               | 17.32     | 22.52 | 13.45   | 17.47  | 22.93 | 13.47   | 15.52  | 19.00 | 13.05   |
| 1990               | 16.51     | 22.37 | 12.36   | 16.61  | 22.75 | 12.29   | 14.61  | 17.02 | 13.01   |
| 1991               | 15.88     | 21.05 | 12.14   | 15.99  | 21.23 | 12.26   | 13.85  | 18.55 | 10.50   |
| 1992               | 15.71     | 20.76 | 11.98   | 15.77  | 20.90 | 11.99   | 14.62  | 18.14 | 12.14   |
| 1993               | 15.20     | 19.49 | 12.00   | 15.27  | 19.46 | 12.15   | 13.23  | 17.46 | 10.12   |
| 1994               | 14.78     | 19.32 | 11.38   | 14.73  | 19.27 | 11.34   | 14.36  | 18.30 | 11.68   |
| 1995               | 14.38     | 18.76 | 11.07   | 14.38  | 18.73 | 11.11   | 13.23  | 16.31 | 10.73   |
| 1996               | 15.39     | 20.16 | 11.80   | 15.43  | 20.09 | 11.95   | 13.81  | 18.22 | 10.69   |
| 1997               | 15.31     | 19.69 | 11.98   | 15.30  | 19.64 | 11.92   | 15.19  | 18.31 | 13.42   |
| 1998               | 15.70     | 20.19 | 12.26   | 15.74  | 20.11 | 12.41   | 15.27  | 19.41 | 12.07   |
| 1999               | 15.65     | 20.26 | 12.15   | 15.68  | 20.38 | 12.04   | 14.64  | 17.01 | 13.13   |
| 2000               | 14.75     | 19.22 | 11.25   | 14.78  | 19.14 | 11.32   | 13.19  | 16.53 | 10.82   |
| 2001               | 14.27     | 18.80 | 10.66   | 14.05  | 18.60 | 10.41   | 15.11  | 18.94 | 12.55   |
| 2002               | 14.34     | 18.01 | 11.43   | 14.27  | 17.90 | 11.35   | 13.38  | 16.65 | 11.35   |
| 2003               | 13.67     | 17.83 | 10.39   | 13.51  | 17.71 | 10.17   | 14.44  | 18.09 | 12.06   |
| 2004               | 13.36     | 16.95 | 10.46   | 13.10  | 16.72 | 10.13   | 14.47  | 18.68 | 11.59   |
| 2005               | 13.00     | 16.76 | 9.98    | 12.88  | 16.60 | 9.84    | 12.98  | 15.25 | 11.37   |
| 2006               | 12.50     | 15.37 | 10.18   | 12.21  | 15.12 | 9.81    | 12.65  | 14.97 | 11.21   |
| 1975-2006          | 15.95     | 20.63 | 12.46   | 16.09  | 20.82 | 12.57   | 14.22  | 17.52 | 11.92   |

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.8  
Cancer of the Colon and Rectum (Invasive)

Age-adjusted U.S. Death<sup>a</sup> Rates by Year, Race and Sex

| Year of Death: | All Races |       |         | Whites |       |         | Blacks |       |         |
|----------------|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
|                | Total     | Males | Females | Total  | Males | Females | Total  | Males | Females |
| 1975           | 28.09     | 32.84 | 24.96   | 28.30  | 33.24 | 25.06   | 26.79  | 30.09 | 24.55   |
| 1976           | 28.58     | 33.34 | 25.44   | 28.74  | 33.76 | 25.45   | 28.23  | 31.16 | 26.26   |
| 1977           | 28.19     | 33.21 | 24.87   | 28.34  | 33.49 | 24.97   | 27.61  | 31.44 | 24.92   |
| 1978           | 28.54     | 33.75 | 25.13   | 28.70  | 34.12 | 25.17   | 27.91  | 31.20 | 25.66   |
| 1979           | 28.15     | 33.56 | 24.63   | 28.25  | 33.92 | 24.57   | 28.16  | 31.57 | 25.96   |
| 1980           | 28.05     | 33.74 | 24.35   | 28.12  | 33.99 | 24.32   | 28.81  | 33.18 | 25.89   |
| 1981           | 27.52     | 32.95 | 23.97   | 27.53  | 33.16 | 23.85   | 28.93  | 32.83 | 26.32   |
| 1982           | 27.24     | 32.96 | 23.55   | 27.21  | 33.11 | 23.42   | 29.11  | 33.71 | 26.12   |
| 1983           | 27.12     | 33.08 | 23.23   | 27.13  | 33.32 | 23.11   | 28.67  | 32.90 | 25.82   |
| 1984           | 27.35     | 33.02 | 23.61   | 27.30  | 33.12 | 23.49   | 29.58  | 34.65 | 26.22   |
| 1985           | 26.93     | 32.66 | 23.11   | 26.75  | 32.74 | 22.77   | 30.49  | 34.10 | 28.04   |
| 1986           | 26.16     | 32.05 | 22.31   | 26.00  | 32.01 | 22.07   | 29.82  | 35.36 | 26.35   |
| 1987           | 25.89     | 31.91 | 21.95   | 25.68  | 31.85 | 21.63   | 29.85  | 35.10 | 26.48   |
| 1988           | 25.28     | 31.08 | 21.46   | 25.08  | 31.04 | 21.16   | 29.18  | 34.29 | 25.88   |
| 1989           | 25.01     | 30.80 | 21.16   | 24.70  | 30.52 | 20.82   | 30.05  | 36.37 | 26.07   |
| 1990           | 24.65     | 30.77 | 20.64   | 24.25  | 30.43 | 20.18   | 30.77  | 37.64 | 26.59   |
| 1991           | 24.01     | 29.64 | 20.30   | 23.63  | 29.35 | 19.85   | 30.02  | 35.80 | 26.50   |
| 1992           | 23.62     | 29.32 | 19.85   | 23.25  | 28.99 | 19.42   | 29.47  | 36.23 | 25.43   |
| 1993           | 23.31     | 28.56 | 19.77   | 22.88  | 28.18 | 19.28   | 29.77  | 35.84 | 26.04   |
| 1994           | 22.92     | 28.28 | 19.28   | 22.50  | 27.89 | 18.84   | 29.04  | 35.66 | 24.88   |
| 1995           | 22.59     | 27.65 | 19.14   | 22.11  | 27.16 | 18.64   | 29.54  | 36.30 | 25.47   |
| 1996           | 21.86     | 26.71 | 18.51   | 21.39  | 26.29 | 17.98   | 28.59  | 34.52 | 24.86   |
| 1997           | 21.47     | 26.23 | 18.11   | 20.95  | 25.68 | 17.59   | 28.84  | 35.07 | 24.80   |
| 1998           | 21.19     | 25.62 | 18.03   | 20.68  | 25.13 | 17.48   | 28.31  | 33.90 | 24.78   |
| 1999           | 20.93     | 25.48 | 17.75   | 20.43  | 24.99 | 17.20   | 28.51  | 34.50 | 24.70   |
| 2000           | 20.65     | 25.05 | 17.48   | 20.14  | 24.43 | 17.01   | 28.14  | 34.94 | 23.87   |
| 2001           | 20.09     | 24.25 | 17.06   | 19.54  | 23.72 | 16.46   | 27.66  | 33.18 | 24.18   |
| 2002           | 19.65     | 23.83 | 16.52   | 19.13  | 23.23 | 16.03   | 26.92  | 33.37 | 22.82   |
| 2003           | 19.00     | 22.97 | 16.05   | 18.47  | 22.43 | 15.49   | 26.43  | 32.10 | 22.72   |
| 2004           | 17.93     | 21.60 | 15.17   | 17.46  | 21.09 | 14.69   | 24.80  | 30.29 | 21.19   |
| 2005           | 17.38     | 21.01 | 14.64   | 16.83  | 20.41 | 14.09   | 24.90  | 30.48 | 21.20   |
| 2006           | 17.10     | 20.51 | 14.54   | 16.60  | 19.87 | 14.08   | 24.26  | 30.84 | 20.12   |
| 1975-2006      | 23.37     | 28.23 | 20.03   | 23.12  | 28.02 | 19.73   | 28.31  | 33.70 | 24.85   |

<sup>a</sup> US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Statistic not shown. Rate based on less than 16 cases for the time interval.



Table 6.9  
Cancer of the Colon and Rectum (Invasive)

SEER Incidence<sup>a</sup> and U.S. Death<sup>b</sup> Rates, Age-Adjusted and Age-Specific Rates, by Race and Sex

|  | All Races |       |         | Whites |       |         | Blacks |       |         |
|--|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
|  | Total     | Males | Females | Total  | Males | Females | Total  | Males | Females |
| <u>SEER Incidence</u>                  |           |       |         |        |       |         |        |       |         |
| <u>Age at Diagnosis</u>                |           |       |         |        |       |         |        |       |         |
| Age-Adjusted Rates, 2002-2006          |           |       |         |        |       |         |        |       |         |
| All ages                               | 49.1      | 57.3  | 42.8    | 48.6   | 56.9  | 42.1    | 59.9   | 69.3  | 53.5    |
| Under 65                               | 18.2      | 20.8  | 15.7    | 17.5   | 20.1  | 15.0    | 24.5   | 27.3  | 22.2    |
| 65 and over                            | 263.2     | 309.5 | 229.5   | 263.9  | 310.8 | 229.4   | 304.4  | 360.0 | 270.1   |
| All ages (IARC world std) <sup>c</sup> | 30.2      | 35.3  | 26.0    | 29.7   | 34.9  | 25.3    | 38.1   | 43.7  | 33.9    |
| Age-Specific Rates, 2002-2006          |           |       |         |        |       |         |        |       |         |
| <1                                     | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 1-4                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 5-9                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 10-14                                  | 0.1       | -     | -       | 0.1    | -     | -       | -      | -     | -       |
| 15-19                                  | 0.3       | 0.2   | 0.3     | 0.3    | 0.2   | 0.3     | -      | -     | -       |
| 20-24                                  | 0.9       | 0.7   | 1.0     | 0.9    | 0.8   | 1.1     | 0.7    | -     | -       |
| 25-29                                  | 1.9       | 2.0   | 1.8     | 2.0    | 2.1   | 1.8     | 1.1    | 1.1   | 1.2     |
| 30-34                                  | 4.2       | 4.2   | 4.2     | 4.1    | 4.2   | 4.0     | 4.6    | 4.0   | 5.2     |
| 35-39                                  | 7.9       | 8.5   | 7.3     | 7.7    | 8.4   | 7.0     | 8.7    | 9.3   | 8.2     |
| 40-44                                  | 14.8      | 15.3  | 14.3    | 14.1   | 14.4  | 13.8    | 18.3   | 20.6  | 16.3    |
| 45-49                                  | 27.7      | 30.1  | 25.3    | 26.8   | 29.4  | 24.2    | 33.9   | 34.9  | 33.1    |
| 50-54                                  | 53.9      | 60.8  | 47.1    | 51.2   | 58.7  | 43.9    | 75.7   | 80.5  | 71.6    |
| 55-59                                  | 76.7      | 90.3  | 63.8    | 73.3   | 87.1  | 60.1    | 107.3  | 124.8 | 92.7    |
| 60-64                                  | 114.2     | 137.3 | 93.1    | 111.1  | 134.2 | 89.5    | 163.2  | 190.2 | 141.7   |
| 65-69                                  | 173.6     | 208.5 | 143.4   | 171.2  | 206.3 | 140.2   | 217.7  | 253.9 | 190.2   |
| 70-74                                  | 230.2     | 280.3 | 189.9   | 230.5  | 281.2 | 188.9   | 273.3  | 325.5 | 236.7   |
| 75-79                                  | 293.5     | 347.7 | 254.7   | 294.8  | 348.6 | 255.8   | 340.8  | 404.5 | 301.5   |
| 80-84                                  | 353.6     | 405.7 | 320.9   | 357.3  | 410.4 | 323.9   | 392.1  | 466.0 | 351.3   |
| 85+                                    | 371.9     | 415.6 | 351.4   | 375.8  | 421.9 | 354.5   | 395.6  | 465.6 | 366.7   |
| <u>U.S. Mortality</u>                  |           |       |         |        |       |         |        |       |         |
| <u>Age at Death</u>                    |           |       |         |        |       |         |        |       |         |
| Age-Adjusted Rates, 2002-2006          |           |       |         |        |       |         |        |       |         |
| All ages                               | 18.2      | 21.9  | 15.4    | 17.7   | 21.4  | 14.9    | 25.4   | 31.4  | 21.6    |
| Under 65                               | 5.1       | 6.1   | 4.3     | 4.8    | 5.7   | 3.9     | 8.4    | 10.0  | 7.1     |
| 65 and over                            | 108.3     | 131.6 | 92.2    | 106.6  | 129.4 | 90.4    | 143.2  | 179.2 | 121.7   |
| All ages (IARC world std) <sup>c</sup> | 10.2      | 12.4  | 8.5     | 9.9    | 12.0  | 8.1     | 14.9   | 18.4  | 12.5    |
| Age-Specific Rates, 2002-2006          |           |       |         |        |       |         |        |       |         |
| <1                                     | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 1-4                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 5-9                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 10-14                                  | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 15-19                                  | 0.1       | 0.1   | 0.0     | 0.0    | 0.1   | -       | -      | -     | -       |
| 20-24                                  | 0.2       | 0.2   | 0.2     | 0.2    | 0.2   | 0.1     | 0.2    | 0.3   | -       |
| 25-29                                  | 0.5       | 0.5   | 0.4     | 0.5    | 0.5   | 0.4     | 0.5    | 0.7   | 0.4     |
| 30-34                                  | 1.0       | 1.0   | 0.9     | 0.9    | 1.0   | 0.9     | 1.3    | 1.5   | 1.2     |
| 35-39                                  | 1.9       | 2.0   | 1.8     | 1.8    | 2.0   | 1.7     | 2.8    | 2.9   | 2.8     |
| 40-44                                  | 3.9       | 4.2   | 3.5     | 3.6    | 3.9   | 3.2     | 6.3    | 6.7   | 5.9     |
| 45-49                                  | 7.5       | 8.5   | 6.6     | 6.9    | 7.8   | 6.0     | 12.9   | 14.4  | 11.5    |
| 50-54                                  | 13.7      | 15.9  | 11.6    | 12.7   | 14.8  | 10.6    | 23.2   | 27.5  | 19.7    |
| 55-59                                  | 22.3      | 26.9  | 17.9    | 21.0   | 25.6  | 16.6    | 36.8   | 44.1  | 30.8    |
| 60-64                                  | 36.5      | 45.4  | 28.4    | 34.7   | 43.2  | 26.8    | 58.4   | 74.2  | 46.2    |
| 65-69                                  | 55.5      | 70.1  | 42.7    | 53.6   | 68.0  | 40.8    | 81.8   | 103.6 | 65.6    |
| 70-74                                  | 79.3      | 98.8  | 63.6    | 77.5   | 96.8  | 61.7    | 110.8  | 141.0 | 90.2    |
| 75-79                                  | 111.2     | 137.8 | 92.1    | 109.0  | 134.8 | 90.2    | 151.7  | 197.9 | 124.1   |
| 80-84                                  | 154.1     | 188.2 | 133.0   | 152.1  | 185.9 | 131.1   | 200.9  | 254.3 | 172.9   |
| 85+                                    | 227.0     | 258.3 | 213.0   | 226.3  | 257.8 | 212.2   | 263.9  | 305.7 | 247.4   |

<sup>a</sup> SEER 17 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> US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

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

- Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.10  
Cancer of the Colon (Invasive) and Cancer of the Rectum (Invasive)  
SEER Incidence<sup>a</sup> Rates, Age-Adjusted and Age-Specific Rates, by Race and Sex

|  | All Races |       |         | Whites |       |         | Blacks |       |         |
|--|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
|  | Total     | Males | Females | Total  | Males | Females | Total  | Males | Females |
| <u>Cancer of the Colon</u>             |           |       |         |        |       |         |        |       |         |
| <u>Age at Diagnosis</u>                |           |       |         |        |       |         |        |       |         |
| Age-Adjusted Rates, 2002-2006          |           |       |         |        |       |         |        |       |         |
| All ages                               | 35.5      | 40.0  | 32.0    | 35.1   | 39.7  | 31.5    | 46.0   | 52.3  | 41.8    |
| Under 65                               | 11.6      | 12.8  | 10.5    | 11.1   | 12.4  | 9.9     | 17.4   | 18.8  | 16.2    |
| 65 and over                            | 200.6     | 228.0 | 180.8   | 201.0  | 228.4 | 181.0   | 243.7  | 284.3 | 218.8   |
| All ages (IARC world std) <sup>b</sup> | 21.2      | 23.9  | 18.9    | 20.8   | 23.6  | 18.4    | 28.7   | 32.3  | 26.1    |
| Age-Specific Rates, 2002-2006          |           |       |         |        |       |         |        |       |         |
| <1                                     | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 1-4                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 5-9                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 10-14                                  | 0.1       | -     | -       | -      | -     | -       | -      | -     | -       |
| 15-19                                  | 0.2       | 0.2   | 0.2     | 0.2    | -     | 0.3     | -      | -     | -       |
| 20-24                                  | 0.6       | 0.5   | 0.7     | 0.6    | 0.5   | 0.7     | 0.5    | -     | -       |
| 25-29                                  | 1.2       | 1.3   | 1.1     | 1.2    | 1.3   | 1.2     | 0.7    | -     | -       |
| 30-34                                  | 2.7       | 2.6   | 2.7     | 2.6    | 2.6   | 2.6     | 3.4    | 2.6   | 4.0     |
| 35-39                                  | 4.7       | 4.8   | 4.6     | 4.5    | 4.7   | 4.3     | 5.4    | 5.6   | 5.2     |
| 40-44                                  | 9.0       | 9.2   | 8.8     | 8.6    | 8.7   | 8.5     | 11.7   | 13.4  | 10.1    |
| 45-49                                  | 16.7      | 17.4  | 16.1    | 16.0   | 16.9  | 15.2    | 22.8   | 22.8  | 22.8    |
| 50-54                                  | 33.4      | 36.4  | 30.5    | 31.5   | 35.3  | 27.8    | 52.0   | 52.5  | 51.6    |
| 55-59                                  | 49.4      | 56.2  | 43.1    | 46.9   | 54.1  | 40.0    | 78.0   | 87.3  | 70.2    |
| 60-64                                  | 77.7      | 90.2  | 66.3    | 75.1   | 87.7  | 63.4    | 122.5  | 139.6 | 108.8   |
| 65-69                                  | 123.2     | 141.9 | 107.0   | 120.8  | 139.5 | 104.4   | 168.8  | 191.6 | 151.5   |
| 70-74                                  | 170.9     | 200.5 | 147.1   | 170.7  | 200.6 | 146.2   | 216.6  | 255.1 | 189.6   |
| 75-79                                  | 223.9     | 257.2 | 200.0   | 225.0  | 257.0 | 201.7   | 270.6  | 316.5 | 242.2   |
| 80-84                                  | 280.1     | 312.1 | 260.1   | 283.2  | 315.6 | 262.9   | 315.9  | 375.1 | 283.3   |
| 85+                                    | 300.6     | 326.4 | 288.6   | 303.8  | 331.3 | 291.1   | 334.4  | 388.0 | 312.3   |
| <u>Cancer of the Rectum</u>            |           |       |         |        |       |         |        |       |         |
| <u>Age at Diagnosis</u>                |           |       |         |        |       |         |        |       |         |
| Age-Adjusted Rates, 2002-2006          |           |       |         |        |       |         |        |       |         |
| All ages                               | 13.6      | 17.2  | 10.7    | 13.5   | 17.1  | 10.6    | 13.9   | 17.0  | 11.7    |
| Under 65                               | 6.5       | 7.9   | 5.3     | 6.4    | 7.7   | 5.1     | 7.1    | 8.5   | 6.0     |
| 65 and over                            | 62.6      | 81.6  | 48.6    | 62.9   | 82.5  | 48.4    | 60.8   | 75.7  | 51.3    |
| All ages (IARC world std) <sup>b</sup> | 9.1       | 11.4  | 7.1     | 9.0    | 11.3  | 6.9     | 9.4    | 11.4  | 7.8     |
| Age-Specific Rates, 2002-2006          |           |       |         |        |       |         |        |       |         |
| <1                                     | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 1-4                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 5-9                                    | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 10-14                                  | -         | -     | -       | -      | -     | -       | -      | -     | -       |
| 15-19                                  | 0.1       | -     | -       | -      | -     | -       | -      | -     | -       |
| 20-24                                  | 0.3       | 0.2   | 0.3     | 0.3    | 0.2   | 0.4     | -      | -     | -       |
| 25-29                                  | 0.7       | 0.7   | 0.7     | 0.7    | 0.8   | 0.7     | -      | -     | -       |
| 30-34                                  | 1.5       | 1.6   | 1.4     | 1.5    | 1.6   | 1.4     | 1.3    | 1.4   | 1.1     |
| 35-39                                  | 3.2       | 3.6   | 2.8     | 3.2    | 3.7   | 2.7     | 3.3    | 3.7   | 3.0     |
| 40-44                                  | 5.8       | 6.2   | 5.5     | 5.5    | 5.7   | 5.3     | 6.7    | 7.3   | 6.2     |
| 45-49                                  | 11.0      | 12.7  | 9.2     | 10.8   | 12.4  | 9.1     | 11.1   | 12.1  | 10.3    |
| 50-54                                  | 20.5      | 24.4  | 16.6    | 19.7   | 23.4  | 16.0    | 23.7   | 28.0  | 20.0    |
| 55-59                                  | 27.2      | 34.1  | 20.7    | 26.4   | 33.0  | 20.1    | 29.3   | 37.5  | 22.5    |
| 60-64                                  | 36.5      | 47.1  | 26.8    | 36.0   | 46.6  | 26.2    | 40.7   | 50.5  | 32.8    |
| 65-69                                  | 50.4      | 66.6  | 36.4    | 50.4   | 66.9  | 35.8    | 48.9   | 62.3  | 38.7    |
| 70-74                                  | 59.3      | 79.8  | 42.8    | 59.7   | 80.6  | 42.7    | 56.7   | 70.3  | 47.1    |
| 75-79                                  | 69.6      | 90.5  | 54.7    | 69.8   | 91.6  | 54.1    | 70.2   | 87.9  | 59.3    |
| 80-84                                  | 73.5      | 93.5  | 60.9    | 74.1   | 94.9  | 61.0    | 76.2   | 90.9  | 68.1    |
| 85+                                    | 71.3      | 89.2  | 62.9    | 71.9   | 90.6  | 63.3    | 61.2   | 77.6  | 54.4    |

<sup>a</sup> SEER 17 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> Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.11  
Cancer of the Colon and Rectum (Invasive)

## Survival Rates, by Race, Sex, Diagnosis Year, Stage and Age

|  | All Races         |                   |                   | Whites            |                   |                   | Blacks            |                   |                   |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|  | Total             | Males             | Females           | Total             | Males             | Females           | Total             | Males             | Females           |
| <b>5-Year Relative Survival Rates</b>                        |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Year of Diagnosis:   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 1960-1963 <sup>a</sup>                                       | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 |
| 1970-1973 <sup>a</sup>                                       | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                 |
| 1975-1977 <sup>b</sup>                                       | 50.8              | 49.8              | 51.6              | 50.9              | 50.1              | 51.7              | 46.1              | 44.5              | 47.1              |
| 1978-1980 <sup>b</sup>                                       | 52.5              | 51.6              | 53.4              | 52.9              | 51.9              | 53.8              | 46.2              | 44.3              | 47.5              |
| 1981-1983 <sup>b</sup>                                       | 55.4              | 55.1              | 55.7              | 55.8              | 55.8              | 55.8              | 47.5              | 43.9              | 50.3              |
| 1984-1986 <sup>b</sup>                                       | 58.5              | 58.4              | 58.6              | 59.2              | 59.2              | 59.3              | 49.1              | 48.2              | 49.8              |
| 1987-1989 <sup>b</sup>                                       | 60.6              | 60.9              | 60.4              | 61.1              | 61.6              | 60.6              | 53.4              | 51.2              | 55.3              |
| 1990-1992 <sup>b</sup>                                       | 62.4              | 62.4              | 62.4              | 63.2              | 63.1              | 63.2              | 53.8              | 55.5              | 52.3              |
| 1993-1995 <sup>b</sup>                                       | 60.9              | 60.4              | 61.4              | 61.5              | 61.0              | 62.1              | 53.0              | 51.8              | 54.0              |
| 1996-1998 <sup>b</sup>                                       | 63.5              | 63.1              | 63.9              | 64.1              | 63.6              | 64.5              | 55.2              | 55.3              | 55.1              |
| 1999-2005 <sup>b</sup>                                       | 66.8 <sup>e</sup> | 67.1 <sup>e</sup> | 66.4 <sup>e</sup> | 68.0 <sup>e</sup> | 68.4 <sup>e</sup> | 67.5 <sup>e</sup> | 57.0 <sup>e</sup> | 56.5 <sup>e</sup> | 57.2 <sup>e</sup> |
| <b>5-Year Period Survival Rates<sup>cd</sup></b>             |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Year of Diagnosis:   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 1999-2005  | 66.2              | 66.3              | 66.1              | 67.0              | 67.3              | 66.7              | 57.9              | 56.9              | 58.9              |
| <b>Stage Distribution (%) 1999-2005<sup>c</sup></b>          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| All Stages   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Number of cases  | 188,224           | 95,166            | 93,058            | 153,553           | 78,231            | 75,322            | 18,972            | 8,748             | 10,224            |
| Percent  | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              |
| Localized  | 39                | 39                | 38                | 39                | 40                | 38                | 34                | 34                | 34                |
| Regional   | 37                | 37                | 38                | 37                | 37                | 38                | 35                | 36                | 35                |
| Distant  | 19                | 19                | 19                | 19                | 19                | 19                | 24                | 25                | 24                |
| Unstaged   | 5                 | 4                 | 5                 | 5                 | 4                 | 5                 | 6                 | 5                 | 6                 |
| <b>5-Year Relative Survival Rates, 1999-2005<sup>c</sup></b> |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Age at Diagnosis:  |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Ages <45   | 67.4              | 66.4              | 68.4              | 69.1              | 67.9              | 70.4              | 59.1              | 57.9              | 60.2              |
| Ages 45-54   | 68.7              | 67.7              | 69.8              | 69.8              | 68.8              | 71.1              | 58.5              | 56.8              | 60.2              |
| Ages 55-64   | 67.4              | 66.9              | 68.0              | 67.4              | 67.9              | 69.2              | 58.5              | 57.8              | 59.3              |
| Ages 65-74   | 66.6              | 66.5              | 66.7              | 67.3              | 67.1              | 67.4              | 58.1              | 57.0              | 58.8              |
| Ages 75+   | 60.4              | 60.8              | 60.1              | 61.4              | 62.0              | 61.0              | 47.4              | 45.6              | 48.4              |
| Ages <65   | 67.8              | 67.1              | 68.7              | 69.0              | 68.2              | 70.0              | 58.6              | 57.4              | 59.8              |
| Ages 65+   | 63.4              | 64.0              | 63.0              | 64.3              | 64.9              | 63.7              | 53.2              | 52.6              | 53.6              |
| Stage:   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| All Stages   | 65.2              | 65.3              | 65.0              | 66.1              | 66.3              | 65.9              | 56.1              | 55.5              | 56.7              |
| Localized  | 90.8              | 90.8              | 90.8              | 91.3              | 91.5              | 91.2              | 86.3              | 85.1              | 87.3              |
| Regional   | 69.5              | 69.6              | 69.4              | 70.1              | 70.2              | 70.0              | 63.1              | 63.4              | 62.7              |
| Distant  | 11.3              | 10.5              | 12.1              | 11.6              | 10.8              | 12.5              | 8.0               | 6.9               | 8.9               |
| Unstaged   | 38.4              | 40.8              | 36.0              | 37.3              | 39.8              | 34.7              | 36.0              | 37.1              | 35.1              |

<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).

Rates are based on follow-up of patients into 2006.

<sup>c</sup> Rates are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). California excluding SF/SJM/LA, Kentucky, Louisiana, and New Jersey contribute cases for diagnosis years 2000-2005.

The remaining 13 SEER Areas contribute cases for the entire period 1999-2005. Rates are based on follow-up of patients into 2006.

<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 year calendar blocks (2003-2005: 0-1 year survival),

(2002-2004: 1-2 year survival), (2001-2003: 2-3 year survival), (2000-2002: 3-4 year survival), (1999-2001: 4-5 years survival).

<sup>e</sup> The difference in rates between 1975-1977 and 1999-2005 is statistically significant ( $p < .05$ ).

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

<sup>g</sup> The standard error of the survival rate is greater than 10 percentage points.

- Statistic could not be calculated due to fewer than 25 cases during the time period.

Table 6.12  
Cancer of the Colon (Invasive)

Survival Rates, by Race, Sex, Diagnosis Year, Stage and Age

|  | All Races         |                   |                   | Whites            |                   |                   | Blacks            |                   |                   |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|  | Total             | Males             | Females           | Total             | Males             | Females           | Total             | Males             | Females           |
| <b>5-Year Relative Survival Rates</b>                        |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Year of Diagnosis:   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 1960-1963 <sup>a</sup>                                       | -                 | -                 | -                 | 43                | 42                | 44                | 34                | 32                | 35                |
| 1970-1973 <sup>a</sup>                                       | -                 | -                 | -                 | 49                | 47                | 50                | 37                | 36                | 38                |
| 1975-1977 <sup>b</sup>                                       | 51.5              | 50.8              | 52.0              | 51.7              | 51.0              | 52.2              | 46.4              | 45.5              | 46.8              |
| 1978-1980 <sup>b</sup>                                       | 53.5              | 52.5              | 54.3              | 53.7              | 52.6              | 54.5              | 49.6              | 48.0              | 50.6              |
| 1981-1983 <sup>b</sup>                                       | 56.5              | 57.0              | 56.0              | 56.7              | 57.5              | 56.1              | 49.7              | 45.9              | 52.4              |
| 1984-1986 <sup>b</sup>                                       | 59.1              | 59.4              | 58.7              | 59.7              | 60.1              | 59.4              | 49.9              | 49.6              | 50.1              |
| 1987-1989 <sup>b</sup>                                       | 61.3              | 61.9              | 60.7              | 61.8              | 62.6              | 61.0              | 53.3              | 51.6              | 54.5              |
| 1990-1992 <sup>b</sup>                                       | 63.2              | 63.7              | 62.7              | 64.0              | 64.4              | 63.5              | 54.3              | 55.9              | 52.9              |
| 1993-1995 <sup>b</sup>                                       | 60.8              | 60.7              | 61.0              | 61.4              | 61.2              | 61.6              | 52.4              | 51.5              | 53.0              |
| 1996-1998 <sup>b</sup>                                       | 63.1              | 63.0              | 63.1              | 63.8              | 63.7              | 63.9              | 54.7              | 55.6              | 54.0              |
| 1999-2005 <sup>b</sup>                                       | 66.1 <sup>e</sup> | 66.5 <sup>e</sup> | 65.7 <sup>e</sup> | 67.4 <sup>e</sup> | 67.9 <sup>e</sup> | 66.9 <sup>e</sup> | 55.6 <sup>e</sup> | 55.0 <sup>e</sup> | 55.9 <sup>e</sup> |
| <b>5-Year Period Survival Rates<sup>cd</sup></b>             |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Year of Diagnosis:   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 1999-2005  | 65.5              | 66.0              | 65.2              | 66.4              | 66.9              | 65.9              | 57.4              | 56.8              | 57.9              |
| <b>Stage Distribution (%) 1999-2005<sup>c</sup></b>          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| All Stages   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Number of cases  | 133,516           | 64,273            | 69,243            | 108,927           | 52,861            | 56,066            | 14,337            | 6,383             | 7,954             |
| Percent  | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              |
| Localized  | 36                | 37                | 36                | 37                | 38                | 36                | 32                | 32                | 32                |
| Regional   | 39                | 38                | 39                | 39                | 38                | 39                | 37                | 38                | 37                |
| Distant  | 20                | 20                | 20                | 20                | 20                | 20                | 26                | 26                | 26                |
| Unstaged   | 4                 | 4                 | 5                 | 4                 | 4                 | 5                 | 5                 | 4                 | 5                 |
| <b>5-Year Relative Survival Rates, 1999-2005<sup>c</sup></b> |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Age at Diagnosis:  |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Ages <45   | 66.4              | 66.9              | 65.8              | 68.3              | 67.7              | 68.9              | 58.9              | 61.6              | 56.4              |
| Ages 45-54   | 66.2              | 65.6              | 66.8              | 67.4              | 66.9              | 68.1              | 56.7              | 54.9              | 58.1              |
| Ages 55-64   | 65.9              | 65.6              | 66.3              | 67.1              | 66.7              | 67.7              | 57.1              | 57.0              | 57.0              |
| Ages 65-74   | 66.4              | 66.7              | 66.0              | 67.2              | 67.5              | 66.7              | 57.9              | 57.0              | 58.5              |
| Ages 75+   | 61.6              | 62.4              | 61.1              | 62.7              | 63.6              | 62.1              | 49.1              | 47.9              | 49.7              |
| Ages <65   | 66.0              | 65.8              | 66.3              | 67.3              | 66.8              | 68.0              | 57.2              | 57.0              | 57.4              |
| Ages 65+   | 63.9              | 64.8              | 63.1              | 64.8              | 65.7              | 64.0              | 53.8              | 53.4              | 54.0              |
| Stage:   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| All Stages   | 64.6              | 65.0              | 64.1              | 65.6              | 66.0              | 65.1              | 55.5              | 55.5              | 55.6              |
| Localized  | 91.8              | 92.2              | 91.4              | 92.4              | 92.9              | 91.9              | 87.2              | 86.5              | 87.8              |
| Regional   | 70.5              | 70.7              | 70.2              | 71.0              | 71.4              | 70.7              | 64.8              | 65.5              | 64.3              |
| Distant  | 11.1              | 10.4              | 11.7              | 11.5              | 10.8              | 12.2              | 7.7               | 6.4               | 8.8               |
| Unstaged   | 33.2              | 36.3              | 30.3              | 32.6              | 35.4              | 29.7              | 28.3              | 32.9              | 25.1              |

<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).  
Rates are based on follow-up of patients into 2006.  
<sup>c</sup> Rates are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). California excluding SF/SJM/LA, Kentucky, Louisiana, and New Jersey contribute cases for diagnosis years 2000-2005. The remaining 13 SEER Areas contribute cases for the entire period 1999-2005. Rates are based on follow-up of patients into 2006.  
<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 year calendar blocks (2003-2005: 0-1 year survival), (2002-2004: 1-2 year survival), (2001-2003: 2-3 year survival), (2000-2002: 3-4 year survival), (1999-2001: 4-5 years survival).  
<sup>e</sup> The difference in rates between 1975-1977 and 1999-2005 is statistically significant (p<.05).  
<sup>f</sup> The standard error of the survival rate is between 5 and 10 percentage points.  
<sup>g</sup> The standard error of the survival rate is greater than 10 percentage points.  
- Statistic could not be calculated due to fewer than 25 cases during the time period.

Table 6.13  
Cancer of the Rectum (Invasive)

## Survival Rates, by Race, Sex, Diagnosis Year, Stage and Age

|  | All Races         |                   |                   | Whites            |                   |                   | Blacks            |                   |                   |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|  | Total             | Males             | Females           | Total             | Males             | Females           | Total             | Males             | Females           |
| <b>5-Year Relative Survival Rates</b>                        |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Year of Diagnosis:   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 1960-1963 <sup>a</sup>                                       | -                 | -                 | -                 | 38                | 36                | 41                | 27                | 28                | 27                |
| 1970-1973 <sup>a</sup>                                       | -                 | -                 | -                 | 45                | 43                | 48                | 30                | 20                | 40                |
| 1975-1977 <sup>b</sup>                                       | 49.2              | 48.1              | 50.6              | 49.4              | 48.4              | 50.5              | 45.0              | 41.9              | 47.5              |
| 1978-1980 <sup>b</sup>                                       | 50.4              | 49.8              | 51.1              | 51.3              | 50.7              | 51.9              | 35.6              | 35.1              | 35.9              |
| 1981-1983 <sup>b</sup>                                       | 53.0              | 51.5              | 54.7              | 53.7              | 52.3              | 55.3              | 40.6              | 38.3              | 42.9              |
| 1984-1986 <sup>b</sup>                                       | 57.3              | 56.4              | 58.4              | 58.0              | 57.3              | 58.9              | 46.4              | 43.9              | 48.8              |
| 1987-1989 <sup>b</sup>                                       | 59.1              | 58.9              | 59.5              | 59.6              | 59.8              | 59.5              | 53.7              | 49.5              | 57.8              |
| 1990-1992 <sup>b</sup>                                       | 60.5              | 59.7              | 61.6              | 61.2              | 60.4              | 62.4              | 52.2              | 54.1              | 49.8              |
| 1993-1995 <sup>b</sup>                                       | 61.2              | 59.9              | 62.9              | 61.7              | 60.4              | 63.3              | 54.8              | 52.1              | 57.9              |
| 1996-1998 <sup>b</sup>                                       | 64.5              | 63.2              | 66.1              | 64.7              | 63.5              | 66.3              | 56.5              | 54.7              | 58.2              |
| 1999-2005 <sup>b</sup>                                       | 68.5 <sup>e</sup> | 68.3 <sup>e</sup> | 68.7 <sup>e</sup> | 69.4 <sup>e</sup> | 69.5 <sup>e</sup> | 69.3 <sup>e</sup> | 61.0 <sup>e</sup> | 60.2 <sup>e</sup> | 61.6 <sup>e</sup> |
| <b>5-Year Period Survival Rates<sup>cd</sup></b>             |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Year of Diagnosis:   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| 1999-2005  | 67.6              | 67.0              | 68.5              | 68.2              | 67.9              | 68.7              | 59.3              | 56.8              | 61.9              |
| <b>Stage Distribution (%) 1999-2005<sup>c</sup></b>          |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| All Stages   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Number of cases  | 54,708            | 30,893            | 23,815            | 44,626            | 25,370            | 19,256            | 4,635             | 2,365             | 2,270             |
| Percent  | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              | 100%              |
| Localized  | 44                | 44                | 45                | 44                | 44                | 45                | 42                | 40                | 44                |
| Regional   | 33                | 34                | 32                | 34                | 34                | 33                | 30                | 30                | 29                |
| Distant  | 17                | 17                | 16                | 16                | 17                | 16                | 20                | 22                | 18                |
| Unstaged   | 6                 | 5                 | 7                 | 6                 | 5                 | 6                 | 8                 | 7                 | 9                 |
| <b>5-Year Relative Survival Rates, 1999-2005<sup>c</sup></b> |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Age at Diagnosis:  |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| Ages <45   | 69.0              | 65.9              | 72.9              | 70.3              | 68.3              | 72.9              | 59.4              | 51.5              | 69.3              |
| Ages 45-54   | 72.6              | 70.7              | 75.3              | 73.4              | 71.5              | 76.2              | 62.7              | 59.9              | 65.5              |
| Ages 55-64   | 70.2              | 69.2              | 71.8              | 71.0              | 70.1              | 72.7              | 62.4              | 59.3              | 65.8              |
| Ages 65-74   | 67.2              | 66.0              | 69.0              | 67.6              | 66.3              | 69.3              | 58.6              | 56.7              | 60.2              |
| Ages 75+   | 56.2              | 56.0              | 56.4              | 57.2              | 57.3              | 57.2              | 39.3              | 35.2              | 40.9              |
| Ages <65   | 70.9              | 69.3              | 73.3              | 71.8              | 70.3              | 74.0              | 62.0              | 58.4              | 66.3              |
| Ages 65+   | 62.2              | 62.0              | 62.4              | 62.8              | 62.8              | 62.8              | 50.7              | 49.4              | 51.8              |
| Stage:   |                   |                   |                   |                   |                   |                   |                   |                   |                   |
| All Stages   | 66.6              | 65.9              | 67.5              | 67.2              | 66.7              | 67.8              | 57.9              | 55.5              | 60.4              |
| Localized  | 88.9              | 88.5              | 89.5              | 89.3              | 89.1              | 89.6              | 84.0              | 81.9              | 85.9              |
| Regional   | 67.0              | 67.1              | 66.8              | 67.8              | 67.8              | 67.8              | 56.4              | 56.8              | 55.5              |
| Distant  | 11.9              | 10.6              | 13.9              | 12.1              | 10.9              | 13.8              | 9.2               | 8.5               | 9.7               |
| Unstaged   | 46.9              | 47.1              | 46.6              | 45.3              | 45.9              | 44.2              | 48.6              | 43.4 <sup>f</sup> | 52.1              |

<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).

Rates are based on follow-up of patients into 2006.

<sup>c</sup> Rates are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). California excluding SF/SJM/LA, Kentucky, Louisiana, and New Jersey contribute cases for diagnosis years 2000-2005.

The remaining 13 SEER Areas contribute cases for the entire period 1999-2005. Rates are based on follow-up of patients into 2006.

<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 year calendar blocks (2003-2005: 0-1 year survival),

(2002-2004: 1-2 year survival), (2001-2003: 2-3 year survival), (2000-2002: 3-4 year survival), (1999-2001: 4-5 years survival).

<sup>e</sup> The difference in rates between 1975-1977 and 1999-2005 is statistically significant ( $p < .05$ ).

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

<sup>g</sup> The standard error of the survival rate is greater than 10 percentage points.

- Statistic could not be calculated due to fewer than 25 cases during the time period.

Table 6.14  
Cancer of the Colon and Rectum (Invasive)

Survival Rates<sup>a</sup>  
By Year of Diagnosis

All Races, Males and Females

Year of Diagnosis

|  | 1975-<br>1979 | 1980-<br>1984 | 1985-<br>1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|---------------|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Relative Survival Rates (SEER <sup>b</sup> ) |               |               |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1-year                                       | 74.8          | 78.1          | 80.8          | 81.9 | 82.6 | 81.8 | 80.9 | 81.7 | 80.2 | 81.9 | 81.0 | 82.6 | 82.9 | 82.6 | 83.7 | 83.9 | 83.2 | 84.3 | 84.4 |
| 2-year                                       | 63.8          | 67.9          | 71.8          | 73.5 | 74.0 | 73.4 | 72.8 | 73.1 | 72.0 | 74.0 | 73.2 | 75.4 | 75.3 | 75.2 | 76.5 | 77.7 | 76.8 | 77.8 |      |
| 3-year                                       | 57.6          | 61.6          | 66.5          | 68.5 | 68.5 | 68.0 | 67.8 | 68.1 | 66.4 | 69.2 | 68.1 | 70.3 | 70.9 | 71.1 | 72.0 | 73.1 | 72.1 |      |      |
| 4-year                                       | 53.9          | 57.6          | 62.7          | 64.4 | 65.1 | 64.4 | 63.8 | 64.1 | 62.7 | 65.7 | 65.2 | 67.4 | 67.9 | 67.9 | 69.4 | 70.2 |      |      |      |
| 5-year                                       | 51.5          | 55.0          | 60.3          | 62.2 | 62.8 | 62.2 | 61.1 | 61.2 | 60.5 | 63.5 | 62.5 | 64.5 | 65.8 | 66.1 | 67.4 |      |      |      |      |
| 6-year                                       | 49.7          | 53.1          | 58.6          | 60.8 | 60.8 | 60.6 | 59.5 | 59.6 | 58.2 | 62.1 | 60.8 | 63.0 | 64.6 | 64.4 |      |      |      |      |      |
| 7-year                                       | 48.7          | 51.7          | 57.2          | 59.1 | 59.2 | 59.0 | 57.9 | 58.2 | 56.6 | 61.2 | 59.9 | 61.9 | 63.8 |      |      |      |      |      |      |
| 8-year                                       | 47.9          | 50.7          | 56.3          | 57.7 | 58.0 | 57.5 | 56.9 | 57.3 | 56.1 | 60.6 | 59.2 | 61.5 |      |      |      |      |      |      |      |
| 9-year                                       | 47.4          | 50.0          | 55.4          | 56.9 | 56.8 | 56.7 | 56.0 | 57.0 | 55.9 | 60.0 | 58.6 |      |      |      |      |      |      |      |      |
| 10-year                                      | 46.8          | 49.4          | 54.7          | 56.4 | 56.2 | 56.0 | 55.4 | 56.0 | 55.6 | 59.5 |      |      |      |      |      |      |      |      |      |
| 11-year                                      | 46.3          | 48.9          | 54.3          | 55.9 | 56.1 | 55.3 | 54.6 | 55.8 | 55.0 |      |      |      |      |      |      |      |      |      |      |
| 12-year                                      | 45.9          | 48.6          | 53.8          | 55.5 | 55.9 | 55.3 | 54.0 | 55.3 |      |      |      |      |      |      |      |      |      |      |      |
| 13-year                                      | 45.6          | 48.4          | 53.1          | 55.1 | 55.6 | 54.8 | 53.7 |      |      |      |      |      |      |      |      |      |      |      |      |
| 14-year                                      | 45.2          | 48.0          | 52.9          | 54.7 | 55.3 | 54.4 |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15-year                                      | 44.9          | 47.8          | 52.4          | 54.4 | 55.2 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 16-year                                      | 44.7          | 47.3          | 52.2          | 54.3 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17-year                                      | 44.5          | 46.9          | 51.8          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 18-year                                      | 44.2          | 46.6          |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 19-year                                      | 44.2          | 46.2          |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20-year                                      | 44.2          | 46.0          |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

<sup>a</sup>

Survival rates are relative rates expressed as percents.

<sup>b</sup>

Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table 6.15  
Cancer of the Colon and Rectum (Invasive)

Survival Rates<sup>a</sup>  
By Year of Diagnosis

All Races, Males

Year of Diagnosis

|  | 1975-<br>1979 | 1980-<br>1984 | 1985-<br>1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|---------------|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Relative Survival Rates (SEER <sup>b</sup> ) |               |               |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1-year                                       | 74.8          | 79.0          | 81.7          | 83.1 | 83.3 | 82.9 | 81.6 | 82.8 | 81.7 | 83.1 | 81.8 | 82.6 | 83.9 | 84.3 | 85.6 | 83.8 | 83.9 | 85.3 | 85.2 |
| 2-year                                       | 63.8          | 68.3          | 73.1          | 74.4 | 75.1 | 74.3 | 73.5 | 73.9 | 73.1 | 75.4 | 74.2 | 75.2 | 75.8 | 77.0 | 78.1 | 77.4 | 77.2 | 79.1 |      |
| 3-year                                       | 57.1          | 61.7          | 67.4          | 69.7 | 69.4 | 68.7 | 68.4 | 69.0 | 67.2 | 70.1 | 68.7 | 69.4 | 71.2 | 72.8 | 73.5 | 73.0 | 72.4 |      |      |
| 4-year                                       | 53.0          | 57.4          | 63.2          | 65.2 | 65.5 | 64.6 | 63.7 | 64.0 | 63.3 | 65.7 | 65.8 | 66.1 | 68.2 | 69.8 | 70.8 | 70.0 |      |      |      |
| 5-year                                       | 50.4          | 54.5          | 60.6          | 62.4 | 62.8 | 61.9 | 60.6 | 60.4 | 60.3 | 63.0 | 62.9 | 63.3 | 65.8 | 67.3 | 68.3 |      |      |      |      |
| 6-year                                       | 48.3          | 52.4          | 58.8          | 60.8 | 60.0 | 60.2 | 59.0 | 58.6 | 57.6 | 61.6 | 61.0 | 61.5 | 64.8 | 65.2 |      |      |      |      |      |
| 7-year                                       | 47.2          | 50.8          | 57.3          | 58.6 | 58.0 | 58.6 | 57.3 | 57.2 | 56.0 | 60.5 | 60.4 | 60.4 | 63.9 |      |      |      |      |      |      |
| 8-year                                       | 46.2          | 49.7          | 56.5          | 57.1 | 56.6 | 56.7 | 56.4 | 55.7 | 55.4 | 60.3 | 59.2 | 59.5 |      |      |      |      |      |      |      |
| 9-year                                       | 45.6          | 48.9          | 55.5          | 56.6 | 55.7 | 55.7 | 55.0 | 55.2 | 55.1 | 60.1 | 58.4 |      |      |      |      |      |      |      |      |
| 10-year                                      | 44.9          | 48.2          | 54.8          | 56.1 | 55.0 | 55.1 | 54.1 | 54.1 | 54.8 | 59.4 |      |      |      |      |      |      |      |      |      |
| 11-year                                      | 44.5          | 47.7          | 54.3          | 55.7 | 55.0 | 54.4 | 52.9 | 54.1 | 54.2 |      |      |      |      |      |      |      |      |      |      |
| 12-year                                      | 43.9          | 47.3          | 53.6          | 55.3 | 55.0 | 54.4 | 52.7 | 53.6 |      |      |      |      |      |      |      |      |      |      |      |
| 13-year                                      | 43.5          | 47.2          | 52.9          | 55.0 | 54.8 | 53.9 | 51.8 |      |      |      |      |      |      |      |      |      |      |      |      |
| 14-year                                      | 43.0          | 46.6          | 52.7          | 54.6 | 54.0 | 53.3 |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15-year                                      | 42.9          | 46.5          | 52.0          | 54.4 | 53.7 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 16-year                                      | 42.5          | 46.3          | 52.0          | 54.4 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17-year                                      | 42.3          | 45.6          | 51.6          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 18-year                                      | 42.1          | 45.3          |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 19-year                                      | 42.0          | 45.0          |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20-year                                      | 42.0          | 44.7          |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

<sup>a</sup> Survival rates are relative rates expressed as percents.  
<sup>b</sup> Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table 6.16  
Cancer of the Colon and Rectum (Invasive)

Survival Rates<sup>a</sup>  
By Year of Diagnosis

All Races, Females

Year of Diagnosis

|  | 1975-<br>1979 | 1980-<br>1984 | 1985-<br>1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|---------------|---------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Relative Survival Rates (SEER <sup>b</sup> ) |               |               |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1-year                                       | 74.8          | 77.3          | 79.8          | 80.7 | 81.8 | 80.7 | 80.2 | 80.7 | 78.8 | 80.7 | 80.2 | 82.6 | 81.8 | 81.0 | 81.7 | 84.0 | 82.4 | 83.3 | 83.6 |
| 2-year                                       | 63.8          | 67.5          | 70.6          | 72.6 | 72.9 | 72.5 | 72.2 | 72.3 | 70.9 | 72.6 | 72.1 | 75.5 | 74.8 | 73.4 | 74.9 | 78.1 | 76.4 | 76.4 |      |
| 3-year                                       | 58.2          | 61.4          | 65.5          | 67.2 | 67.6 | 67.3 | 67.3 | 67.3 | 65.6 | 68.3 | 67.4 | 71.1 | 70.5 | 69.4 | 70.5 | 73.3 | 71.7 |      |      |
| 4-year                                       | 54.7          | 57.9          | 62.2          | 63.5 | 64.7 | 64.3 | 63.9 | 64.2 | 62.0 | 65.7 | 64.5 | 68.6 | 67.6 | 66.0 | 67.9 | 70.4 |      |      |      |
| 5-year                                       | 52.5          | 55.5          | 59.9          | 61.9 | 62.8 | 62.6 | 61.6 | 61.9 | 60.8 | 63.9 | 62.0 | 65.7 | 65.8 | 64.8 | 66.4 |      |      |      |      |
| 6-year                                       | 51.0          | 53.8          | 58.4          | 60.8 | 61.5 | 61.1 | 60.0 | 60.6 | 58.8 | 62.7 | 60.5 | 64.4 | 64.4 | 63.6 |      |      |      |      |      |
| 7-year                                       | 50.1          | 52.5          | 57.1          | 59.6 | 60.5 | 59.4 | 58.4 | 59.2 | 57.2 | 61.9 | 59.4 | 63.3 | 63.6 |      |      |      |      |      |      |
| 8-year                                       | 49.3          | 51.7          | 56.0          | 58.3 | 59.4 | 58.3 | 57.4 | 58.8 | 56.8 | 60.7 | 59.2 | 63.2 |      |      |      |      |      |      |      |
| 9-year                                       | 48.9          | 51.1          | 55.4          | 57.3 | 58.0 | 57.7 | 57.0 | 58.8 | 56.6 | 59.9 | 58.7 |      |      |      |      |      |      |      |      |
| 10-year                                      | 48.4          | 50.5          | 54.7          | 56.7 | 57.5 | 56.8 | 56.9 | 57.9 | 56.5 | 59.5 |      |      |      |      |      |      |      |      |      |
| 11-year                                      | 47.8          | 50.1          | 54.2          | 56.1 | 56.9 | 56.2 | 56.4 | 57.4 | 55.9 |      |      |      |      |      |      |      |      |      |      |
| 12-year                                      | 47.6          | 49.7          | 54.1          | 55.8 | 56.8 | 56.0 | 55.3 | 57.1 |      |      |      |      |      |      |      |      |      |      |      |
| 13-year                                      | 47.4          | 49.5          | 53.4          | 55.3 | 56.3 | 55.5 | 55.2 |      |      |      |      |      |      |      |      |      |      |      |      |
| 14-year                                      | 47.0          | 49.2          | 53.1          | 54.8 | 56.3 | 55.5 |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 15-year                                      | 46.7          | 48.9          | 52.7          | 54.4 | 56.3 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 16-year                                      | 46.4          | 48.2          | 52.5          | 54.1 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 17-year                                      | 46.3          | 48.0          | 52.0          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 18-year                                      | 45.8          | 47.7          |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 19-year                                      | 45.8          | 47.3          |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 20-year                                      | 45.8          | 47.2          |               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

<sup>a</sup>  
<sup>b</sup>

Survival rates are relative rates expressed as percents.  
Rates are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).



Table 6.17  
Cancer of the Colon and Rectum (Invasive)

Risk of Being Diagnosed With Cancer in 10, 20 and 30 Years,  
Lifetime Risk of Being Diagnosed with Cancer Given Alive and Cancer-Free at Current Age, and  
Lifetime Risk of Dying from Cancer Given Alive at Current Age  
Both Sexes, 2004-2006 By Race/Ethnicity

| Race/<br>Ethnicity | Current<br>Age | Risk of Being Diagnosed with Cancer |                                 |                                 |                                    |                                    |  | Risk of Dying from Cancer |  |
|--------------------|----------------|-------------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|--|---------------------------|--|
|                    |                | +10 yrs<br>Percent ( 95% C.I. )     | +20 yrs<br>Percent ( 95% C.I. ) | +30 yrs<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) |  |                           |  |
| All Races          | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.02 ( 0.02, 0.02 )             | 5.20 ( 5.16, 5.23 )                | 2.11 ( 2.10, 2.12 )                |  |                           |  |
|                    | 10             | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.02, 0.02 )             | 0.08 ( 0.08, 0.08 )             | 5.26 ( 5.23, 5.30 )                | 2.14 ( 2.13, 2.15 )                |  |                           |  |
|                    | 20             | 0.02 ( 0.01, 0.02 )                 | 0.08 ( 0.07, 0.08 )             | 0.29 ( 0.28, 0.29 )             | 5.28 ( 5.25, 5.32 )                | 2.14 ( 2.13, 2.16 )                |  |                           |  |
|                    | 30             | 0.06 ( 0.06, 0.06 )                 | 0.28 ( 0.27, 0.28 )             | 0.86 ( 0.85, 0.87 )             | 5.32 ( 5.28, 5.35 )                | 2.16 ( 2.15, 2.17 )                |  |                           |  |
|                    | 40             | 0.22 ( 0.21, 0.22 )                 | 0.81 ( 0.80, 0.82 )             | 1.96 ( 1.94, 1.98 )             | 5.32 ( 5.29, 5.36 )                | 2.18 ( 2.16, 2.19 )                |  |                           |  |
|                    | 50             | 0.61 ( 0.60, 0.62 )                 | 1.80 ( 1.78, 1.81 )             | 3.49 ( 3.46, 3.51 )             | 5.26 ( 5.22, 5.29 )                | 2.18 ( 2.17, 2.19 )                |  |                           |  |
|                    | 60             | 1.26 ( 1.25, 1.28 )                 | 3.07 ( 3.04, 3.09 )             | 4.53 ( 4.50, 4.56 )             | 4.96 ( 4.92, 4.99 )                | 2.14 ( 2.13, 2.15 )                |  |                           |  |
|                    | 70             | 2.08 ( 2.06, 2.11 )                 | 3.77 ( 3.74, 3.81 )             | - ( - , - )                     | 4.27 ( 4.23, 4.31 )                | 2.00 ( 1.99, 2.01 )                |  |                           |  |
|                    | 80             | 2.39 ( 2.36, 2.42 )                 | - ( - , - )                     | - ( - , - )                     | 3.09 ( 3.05, 3.13 )                | 1.72 ( 1.70, 1.73 )                |  |                           |  |
| White              | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.02 ( 0.02, 0.02 )             | 5.18 ( 5.14, 5.21 )                | 2.08 ( 2.07, 2.09 )                |  |                           |  |
|                    | 10             | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.02, 0.02 )             | 0.08 ( 0.08, 0.08 )             | 5.23 ( 5.19, 5.27 )                | 2.11 ( 2.09, 2.12 )                |  |                           |  |
|                    | 20             | 0.02 ( 0.01, 0.02 )                 | 0.08 ( 0.07, 0.08 )             | 0.28 ( 0.28, 0.29 )             | 5.25 ( 5.21, 5.29 )                | 2.11 ( 2.10, 2.13 )                |  |                           |  |
|                    | 30             | 0.06 ( 0.06, 0.06 )                 | 0.27 ( 0.26, 0.27 )             | 0.83 ( 0.82, 0.84 )             | 5.28 ( 5.24, 5.32 )                | 2.13 ( 2.12, 2.14 )                |  |                           |  |
|                    | 40             | 0.21 ( 0.20, 0.21 )                 | 0.78 ( 0.77, 0.79 )             | 1.91 ( 1.89, 1.93 )             | 5.28 ( 5.25, 5.32 )                | 2.14 ( 2.13, 2.15 )                |  |                           |  |
|                    | 50             | 0.59 ( 0.58, 0.59 )                 | 1.75 ( 1.73, 1.77 )             | 3.45 ( 3.42, 3.48 )             | 5.22 ( 5.18, 5.26 )                | 2.15 ( 2.13, 2.16 )                |  |                           |  |
|                    | 60             | 1.24 ( 1.22, 1.26 )                 | 3.05 ( 3.02, 3.08 )             | 4.52 ( 4.48, 4.55 )             | 4.93 ( 4.89, 4.97 )                | 2.11 ( 2.09, 2.12 )                |  |                           |  |
|                    | 70             | 2.08 ( 2.06, 2.11 )                 | 3.78 ( 3.74, 3.81 )             | - ( - , - )                     | 4.25 ( 4.21, 4.29 )                | 1.97 ( 1.96, 1.98 )                |  |                           |  |
|                    | 80             | 2.41 ( 2.37, 2.44 )                 | - ( - , - )                     | - ( - , - )                     | 3.08 ( 3.04, 3.12 )                | 1.69 ( 1.68, 1.71 )                |  |                           |  |
| Black              | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.01 ( 0.01, 0.02 )             | 5.07 ( 4.96, 5.18 )                | 2.39 ( 2.35, 2.42 )                |  |                           |  |
|                    | 10             | 0.00 ( 0.00, 0.00 )                 | 0.01 ( 0.01, 0.02 )             | 0.08 ( 0.07, 0.09 )             | 5.19 ( 5.08, 5.30 )                | 2.45 ( 2.41, 2.49 )                |  |                           |  |
|                    | 20             | 0.01 ( 0.01, 0.02 )                 | 0.08 ( 0.07, 0.09 )             | 0.33 ( 0.31, 0.35 )             | 5.22 ( 5.11, 5.33 )                | 2.46 ( 2.43, 2.50 )                |  |                           |  |
|                    | 30             | 0.07 ( 0.06, 0.08 )                 | 0.32 ( 0.31, 0.34 )             | 1.09 ( 1.05, 1.12 )             | 5.29 ( 5.18, 5.41 )                | 2.50 ( 2.46, 2.53 )                |  |                           |  |
|                    | 40             | 0.26 ( 0.25, 0.27 )                 | 1.04 ( 1.01, 1.08 )             | 2.39 ( 2.33, 2.45 )             | 5.35 ( 5.23, 5.46 )                | 2.53 ( 2.49, 2.57 )                |  |                           |  |
|                    | 50             | 0.82 ( 0.79, 0.85 )                 | 2.24 ( 2.18, 2.30 )             | 3.91 ( 3.82, 4.01 )             | 5.35 ( 5.24, 5.48 )                | 2.56 ( 2.52, 2.60 )                |  |                           |  |
|                    | 60             | 1.59 ( 1.54, 1.65 )                 | 3.47 ( 3.38, 3.57 )             | 4.72 ( 4.60, 4.84 )             | 5.09 ( 4.97, 5.22 )                | 2.55 ( 2.51, 2.59 )                |  |                           |  |
|                    | 70             | 2.36 ( 2.28, 2.45 )                 | 3.93 ( 3.81, 4.05 )             | - ( - , - )                     | 4.40 ( 4.26, 4.54 )                | 2.39 ( 2.34, 2.44 )                |  |                           |  |
|                    | 80             | 2.48 ( 2.36, 2.60 )                 | - ( - , - )                     | - ( - , - )                     | 3.22 ( 3.07, 3.38 )                | 2.09 ( 2.03, 2.15 )                |  |                           |  |

Devcan Version 6.4.0, April 2009, National Cancer Institute (<http://srab.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Mortality data are from the NCHS public use data file for the total US.

- Statistic could not be calculated.

A percent or confidence interval value of 0.00 represents a value that is below 0.005.

Table 6.17 - continued  
Cancer of the Colon and Rectum (Invasive)

Risk of Being Diagnosed With Cancer in 10, 20 and 30 Years,  
Lifetime Risk of Being Diagnosed with Cancer Given Alive and Cancer-Free at Current Age, and  
Lifetime Risk of Dying from Cancer Given Alive at Current Age  
Both Sexes, 2004-2006 By Race/Ethnicity

| Race/<br>Ethnicity                                   | Current<br>Age | Risk of Being Diagnosed with Cancer |                                 |                                 |                                    | Risk of Dying from Cancer          |  |
|--|----------------|-------------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|--|
|  |                | +10 yrs<br>Percent ( 95% C.I. )     | +20 yrs<br>Percent ( 95% C.I. ) | +30 yrs<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) |  |
| Asian/<br>Pacific<br>Islander                        | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.02 ( 0.01, 0.02 )             | 5.27 ( 5.11, 5.44 )                | 2.03 ( 1.93, 2.14 )                |  |
|  | 10             | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.01, 0.02 )             | 0.07 ( 0.07, 0.08 )             | 5.32 ( 5.16, 5.48 )                | 2.05 ( 1.94, 2.16 )                |  |
|  | 20             | 0.01 ( 0.01, 0.02 )                 | 0.07 ( 0.06, 0.08 )             | 0.28 ( 0.26, 0.30 )             | 5.33 ( 5.17, 5.50 )                | 2.05 ( 1.95, 2.17 )                |  |
|  | 30             | 0.06 ( 0.05, 0.06 )                 | 0.27 ( 0.25, 0.28 )             | 0.81 ( 0.78, 0.84 )             | 5.34 ( 5.18, 5.51 )                | 2.06 ( 1.95, 2.17 )                |  |
|  | 40             | 0.21 ( 0.20, 0.22 )                 | 0.76 ( 0.73, 0.79 )             | 1.77 ( 1.71, 1.83 )             | 5.32 ( 5.16, 5.49 )                | 2.06 ( 1.95, 2.17 )                |  |
|  | 50             | 0.55 ( 0.53, 0.58 )                 | 1.58 ( 1.53, 1.64 )             | 3.10 ( 3.01, 3.18 )             | 5.18 ( 5.02, 5.36 )                | 2.04 ( 1.93, 2.16 )                |  |
|  | 60             | 1.07 ( 1.02, 1.12 )                 | 2.64 ( 2.55, 2.72 )             | 4.13 ( 4.00, 4.25 )             | 4.81 ( 4.64, 4.98 )                | 1.99 ( 1.88, 2.11 )                |  |
|  | 70             | 1.71 ( 1.64, 1.78 )                 | 3.34 ( 3.22, 3.46 )             | - ( - , - )                     | 4.08 ( 3.91, 4.26 )                | 1.86 ( 1.75, 1.99 )                |  |
|  | 80             | 2.02 ( 1.91, 2.13 )                 | - ( - , - )                     | - ( - , - )                     | 2.94 ( 2.76, 3.14 )                | 1.64 ( 1.50, 1.78 )                |  |
| American<br>Indian/<br>Alaska<br>Native <sup>a</sup> | 0              | 0.00 ( 0.00, 0.02 )                 | 0.00 ( 0.00, 0.02 )             | 0.02 ( 0.01, 0.05 )             | 4.36 ( 3.88, 4.98 )                | 1.68 ( 1.50, 1.89 )                |  |
|  | 10             | 0.00 ( 0.00, 0.01 )                 | 0.02 ( 0.01, 0.05 )             | 0.10 ( 0.07, 0.14 )             | 4.44 ( 3.96, 5.08 )                | 1.71 ( 1.53, 1.93 )                |  |
|  | 20             | 0.02 ( 0.01, 0.05 )                 | 0.10 ( 0.07, 0.14 )             | 0.33 ( 0.27, 0.40 )             | 4.47 ( 3.99, 5.12 )                | 1.72 ( 1.54, 1.95 )                |  |
|  | 30             | 0.08 ( 0.05, 0.11 )                 | 0.31 ( 0.25, 0.38 )             | 0.83 ( 0.72, 0.95 )             | 4.52 ( 4.03, 5.18 )                | 1.75 ( 1.57, 1.98 )                |  |
|  | 40             | 0.24 ( 0.19, 0.30 )                 | 0.77 ( 0.67, 0.89 )             | 1.83 ( 1.63, 2.06 )             | 4.56 ( 4.06, 5.24 )                | 1.79 ( 1.60, 2.02 )                |  |
|  | 50             | 0.55 ( 0.46, 0.66 )                 | 1.66 ( 1.45, 1.89 )             | 3.17 ( 2.82, 3.54 )             | 4.51 ( 3.99, 5.20 )                | 1.82 ( 1.62, 2.07 )                |  |
|  | 60             | 1.19 ( 1.01, 1.40 )                 | 2.82 ( 2.47, 3.20 )             | 3.92 ( 3.46, 4.44 )             | 4.26 ( 3.72, 5.00 )                | 1.79 ( 1.57, 2.05 )                |  |
|  | 70             | 1.91 ( 1.60, 2.26 )                 | 3.21 ( 2.74, 3.75 )             | - ( - , - )                     | 3.61 ( 3.03, 4.43 )                | 1.64 ( 1.40, 1.95 )                |  |
|  | 80             | 1.81 ( 1.38, 2.34 )                 | - ( - , - )                     | - ( - , - )                     | 2.37 ( 1.74, 3.38 )                | 1.32 ( 1.03, 1.71 )                |  |
| Hispanic <sup>b</sup>                                | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.01 ( 0.01, 0.02 )             | 4.79 ( 4.65, 4.93 )                | 1.92 ( 1.87, 1.98 )                |  |
|  | 10             | 0.00 ( 0.00, 0.00 )                 | 0.01 ( 0.01, 0.02 )             | 0.06 ( 0.06, 0.07 )             | 4.84 ( 4.70, 4.98 )                | 1.95 ( 1.89, 2.01 )                |  |
|  | 20             | 0.01 ( 0.01, 0.01 )                 | 0.06 ( 0.05, 0.06 )             | 0.23 ( 0.22, 0.24 )             | 4.86 ( 4.72, 5.00 )                | 1.95 ( 1.89, 2.02 )                |  |
|  | 30             | 0.05 ( 0.04, 0.05 )                 | 0.22 ( 0.21, 0.23 )             | 0.73 ( 0.70, 0.75 )             | 4.89 ( 4.75, 5.03 )                | 1.97 ( 1.91, 2.03 )                |  |
|  | 40             | 0.17 ( 0.16, 0.18 )                 | 0.69 ( 0.66, 0.71 )             | 1.67 ( 1.63, 1.72 )             | 4.89 ( 4.75, 5.03 )                | 1.98 ( 1.92, 2.04 )                |  |
|  | 50             | 0.53 ( 0.51, 0.55 )                 | 1.54 ( 1.49, 1.58 )             | 2.99 ( 2.91, 3.06 )             | 4.83 ( 4.68, 4.97 )                | 1.98 ( 1.92, 2.04 )                |  |
|  | 60             | 1.06 ( 1.02, 1.11 )                 | 2.59 ( 2.52, 2.67 )             | 3.91 ( 3.80, 4.02 )             | 4.53 ( 4.38, 4.68 )                | 1.94 ( 1.88, 2.01 )                |  |
|  | 70             | 1.71 ( 1.65, 1.78 )                 | 3.19 ( 3.08, 3.30 )             | - ( - , - )                     | 3.89 ( 3.73, 4.05 )                | 1.82 ( 1.75, 1.89 )                |  |
|  | 80             | 1.95 ( 1.85, 2.05 )                 | - ( - , - )                     | - ( - , - )                     | 2.87 ( 2.69, 3.06 )                | 1.57 ( 1.49, 1.66 )                |  |

Devcan Version 6.4.0, April 2009, National Cancer Institute (<http://srab.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Mortality data are from the NCHS public use data file for the total US.

<sup>a</sup> Underlying incidence and mortality data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

<sup>b</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Underlying mortality data for Hispanics exclude deaths from the District of Columbia, Minnesota, New Hampshire and North Dakota.

- Statistic could not be calculated.

A percent or confidence interval value of 0.00 represents a value that is below 0.005.

Table 6.17 - continued  
Cancer of the Colon and Rectum (Invasive)

Risk of Being Diagnosed With Cancer in 10, 20 and 30 Years,  
Lifetime Risk of Being Diagnosed with Cancer Given Alive and Cancer-Free at Current Age, and  
Lifetime Risk of Dying from Cancer Given Alive at Current Age  
Males, 2004-2006 By Race/Ethnicity

| Race/<br>Ethnicity | Current<br>Age | Risk of Being Diagnosed with Cancer |                                 |                                 |                                    |                                    |  | Risk of Dying from Cancer |  |
|--------------------|----------------|-------------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|--|---------------------------|--|
|                    |                | +10 yrs<br>Percent ( 95% C.I. )     | +20 yrs<br>Percent ( 95% C.I. ) | +30 yrs<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) |  |                           |  |
| All Races          | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.02 ( 0.01, 0.02 )             | 5.39 ( 5.34, 5.44 )                | 2.19 ( 2.18, 2.21 )                |  |                           |  |
|                    | 10             | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.01, 0.02 )             | 0.08 ( 0.08, 0.08 )             | 5.46 ( 5.41, 5.51 )                | 2.23 ( 2.21, 2.24 )                |  |                           |  |
|                    | 20             | 0.01 ( 0.01, 0.02 )                 | 0.08 ( 0.07, 0.08 )             | 0.30 ( 0.30, 0.31 )             | 5.49 ( 5.44, 5.54 )                | 2.24 ( 2.22, 2.26 )                |  |                           |  |
|                    | 30             | 0.06 ( 0.06, 0.07 )                 | 0.29 ( 0.29, 0.30 )             | 0.96 ( 0.94, 0.97 )             | 5.55 ( 5.50, 5.60 )                | 2.27 ( 2.25, 2.28 )                |  |                           |  |
|                    | 40             | 0.23 ( 0.23, 0.24 )                 | 0.91 ( 0.89, 0.92 )             | 2.23 ( 2.20, 2.25 )             | 5.58 ( 5.52, 5.63 )                | 2.29 ( 2.27, 2.31 )                |  |                           |  |
|                    | 50             | 0.70 ( 0.69, 0.71 )                 | 2.07 ( 2.04, 2.09 )             | 3.93 ( 3.89, 3.97 )             | 5.54 ( 5.49, 5.60 )                | 2.31 ( 2.29, 2.33 )                |  |                           |  |
|                    | 60             | 1.48 ( 1.46, 1.51 )                 | 3.51 ( 3.46, 3.55 )             | 4.90 ( 4.85, 4.96 )             | 5.25 ( 5.20, 5.31 )                | 2.29 ( 2.27, 2.30 )                |  |                           |  |
|                    | 70             | 2.41 ( 2.38, 2.45 )                 | 4.08 ( 4.03, 4.13 )             | - ( - , - )                     | 4.50 ( 4.44, 4.56 )                | 2.13 ( 2.11, 2.15 )                |  |                           |  |
|                    | 80             | 2.55 ( 2.50, 2.60 )                 | - ( - , - )                     | - ( - , - )                     | 3.18 ( 3.12, 3.25 )                | 1.81 ( 1.79, 1.84 )                |  |                           |  |
| White              | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.02 ( 0.01, 0.02 )             | 5.40 ( 5.34, 5.45 )                | 2.17 ( 2.16, 2.19 )                |  |                           |  |
|                    | 10             | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.01, 0.02 )             | 0.08 ( 0.08, 0.09 )             | 5.46 ( 5.41, 5.52 )                | 2.20 ( 2.18, 2.22 )                |  |                           |  |
|                    | 20             | 0.01 ( 0.01, 0.02 )                 | 0.08 ( 0.08, 0.08 )             | 0.30 ( 0.29, 0.31 )             | 5.49 ( 5.43, 5.55 )                | 2.21 ( 2.20, 2.23 )                |  |                           |  |
|                    | 30             | 0.07 ( 0.06, 0.07 )                 | 0.29 ( 0.28, 0.29 )             | 0.93 ( 0.91, 0.94 )             | 5.54 ( 5.49, 5.60 )                | 2.24 ( 2.22, 2.26 )                |  |                           |  |
|                    | 40             | 0.22 ( 0.22, 0.23 )                 | 0.88 ( 0.86, 0.89 )             | 2.19 ( 2.16, 2.22 )             | 5.57 ( 5.51, 5.62 )                | 2.26 ( 2.24, 2.28 )                |  |                           |  |
|                    | 50             | 0.68 ( 0.66, 0.69 )                 | 2.03 ( 2.00, 2.06 )             | 3.92 ( 3.87, 3.96 )             | 5.53 ( 5.47, 5.59 )                | 2.28 ( 2.26, 2.30 )                |  |                           |  |
|                    | 60             | 1.46 ( 1.44, 1.49 )                 | 3.50 ( 3.46, 3.55 )             | 4.91 ( 4.85, 4.97 )             | 5.24 ( 5.18, 5.31 )                | 2.25 ( 2.23, 2.27 )                |  |                           |  |
|                    | 70             | 2.42 ( 2.38, 2.46 )                 | 4.09 ( 4.04, 4.15 )             | - ( - , - )                     | 4.49 ( 4.43, 4.56 )                | 2.09 ( 2.07, 2.11 )                |  |                           |  |
|                    | 80             | 2.56 ( 2.51, 2.62 )                 | - ( - , - )                     | - ( - , - )                     | 3.17 ( 3.11, 3.24 )                | 1.78 ( 1.76, 1.81 )                |  |                           |  |
| Black              | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.01 )             | 0.01 ( 0.01, 0.02 )             | 4.97 ( 4.81, 5.13 )                | 2.42 ( 2.37, 2.48 )                |  |                           |  |
|                    | 10             | 0.00 ( 0.00, 0.00 )                 | 0.01 ( 0.01, 0.02 )             | 0.08 ( 0.07, 0.09 )             | 5.10 ( 4.94, 5.26 )                | 2.49 ( 2.44, 2.54 )                |  |                           |  |
|                    | 20             | 0.01 ( 0.01, 0.01 )                 | 0.08 ( 0.06, 0.09 )             | 0.34 ( 0.32, 0.36 )             | 5.14 ( 4.98, 5.31 )                | 2.51 ( 2.46, 2.57 )                |  |                           |  |
|                    | 30             | 0.07 ( 0.06, 0.08 )                 | 0.34 ( 0.31, 0.36 )             | 1.15 ( 1.10, 1.20 )             | 5.26 ( 5.10, 5.43 )                | 2.56 ( 2.51, 2.62 )                |  |                           |  |
|                    | 40             | 0.28 ( 0.26, 0.30 )                 | 1.12 ( 1.07, 1.17 )             | 2.57 ( 2.48, 2.66 )             | 5.36 ( 5.19, 5.53 )                | 2.62 ( 2.56, 2.67 )                |  |                           |  |
|                    | 50             | 0.89 ( 0.85, 0.94 )                 | 2.44 ( 2.34, 2.53 )             | 4.16 ( 4.03, 4.30 )             | 5.41 ( 5.23, 5.59 )                | 2.68 ( 2.62, 2.74 )                |  |                           |  |
|                    | 60             | 1.79 ( 1.70, 1.88 )                 | 3.80 ( 3.65, 3.95 )             | 4.96 ( 4.78, 5.15 )             | 5.24 ( 5.05, 5.45 )                | 2.71 ( 2.64, 2.78 )                |  |                           |  |
|                    | 70             | 2.68 ( 2.54, 2.82 )                 | 4.24 ( 4.04, 4.44 )             | - ( - , - )                     | 4.61 ( 4.40, 4.85 )                | 2.58 ( 2.51, 2.66 )                |  |                           |  |
|                    | 80             | 2.78 ( 2.57, 2.99 )                 | - ( - , - )                     | - ( - , - )                     | 3.45 ( 3.18, 3.74 )                | 2.27 ( 2.17, 2.37 )                |  |                           |  |

Devcan Version 6.4.0, April 2009, National Cancer Institute (<http://srab.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Mortality data are from the NCHS public use data file for the total US.

- Statistic could not be calculated.

A percent or confidence interval value of 0.00 represents a value that is below 0.005.

Table 6.17 - continued  
Cancer of the Colon and Rectum (Invasive)

Risk of Being Diagnosed With Cancer in 10, 20 and 30 Years,  
Lifetime Risk of Being Diagnosed with Cancer Given Alive and Cancer-Free at Current Age, and  
Lifetime Risk of Dying from Cancer Given Alive at Current Age  
Males, 2004-2006 By Race/Ethnicity

| Race/<br>Ethnicity                                   | Current<br>Age | Risk of Being Diagnosed with Cancer |                                 |                                 |                                    | Risk of Dying from Cancer          |  |
|--|----------------|-------------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|--|
|  |                | +10 yrs<br>Percent ( 95% C.I. )     | +20 yrs<br>Percent ( 95% C.I. ) | +30 yrs<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) |  |
| Asian/<br>Pacific<br>Islander                        | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.01 )             | 0.02 ( 0.01, 0.02 )             | 5.54 ( 5.31, 5.79 )                | 2.12 ( 1.97, 2.28 )                |  |
|  | 10             | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.01, 0.02 )             | 0.07 ( 0.06, 0.08 )             | 5.59 ( 5.36, 5.84 )                | 2.14 ( 1.99, 2.30 )                |  |
|  | 20             | 0.01 ( 0.01, 0.02 )                 | 0.07 ( 0.06, 0.08 )             | 0.30 ( 0.27, 0.32 )             | 5.61 ( 5.38, 5.86 )                | 2.14 ( 1.99, 2.31 )                |  |
|  | 30             | 0.05 ( 0.05, 0.06 )                 | 0.28 ( 0.26, 0.31 )             | 0.89 ( 0.85, 0.94 )             | 5.63 ( 5.40, 5.88 )                | 2.15 ( 2.00, 2.32 )                |  |
|  | 40             | 0.23 ( 0.21, 0.25 )                 | 0.85 ( 0.80, 0.89 )             | 2.02 ( 1.93, 2.10 )             | 5.62 ( 5.39, 5.87 )                | 2.16 ( 2.01, 2.33 )                |  |
|  | 50             | 0.63 ( 0.59, 0.67 )                 | 1.82 ( 1.74, 1.91 )             | 3.52 ( 3.38, 3.66 )             | 5.50 ( 5.26, 5.75 )                | 2.15 ( 1.99, 2.32 )                |  |
|  | 60             | 1.25 ( 1.18, 1.33 )                 | 3.03 ( 2.90, 3.17 )             | 4.48 ( 4.29, 4.67 )             | 5.10 ( 4.86, 5.37 )                | 2.10 ( 1.95, 2.28 )                |  |
|  | 70             | 1.99 ( 1.87, 2.11 )                 | 3.60 ( 3.41, 3.79 )             | - ( - , - )                     | 4.30 ( 4.05, 4.57 )                | 1.94 ( 1.77, 2.13 )                |  |
|  | 80             | 2.12 ( 1.95, 2.29 )                 | - ( - , - )                     | - ( - , - )                     | 3.04 ( 2.76, 3.35 )                | 1.67 ( 1.47, 1.90 )                |  |
| American<br>Indian/<br>Alaska<br>Native <sup>a</sup> | 0              | 0.00 ( 0.00, 0.04 )                 | 0.00 ( 0.00, 0.04 )             | 0.01 ( 0.00, 0.06 )             | 3.73 ( 3.17, 4.79 )                | 1.89 ( 1.61, 2.30 )                |  |
|  | 10             | 0.00 ( 0.00, 0.02 )                 | 0.01 ( 0.00, 0.04 )             | 0.08 ( 0.04, 0.13 )             | 3.81 ( 3.24, 4.89 )                | 1.94 ( 1.65, 2.35 )                |  |
|  | 20             | 0.01 ( 0.00, 0.04 )                 | 0.08 ( 0.04, 0.14 )             | 0.30 ( 0.22, 0.40 )             | 3.85 ( 3.27, 4.94 )                | 1.96 ( 1.66, 2.38 )                |  |
|  | 30             | 0.06 ( 0.03, 0.12 )                 | 0.29 ( 0.21, 0.39 )             | 0.83 ( 0.68, 1.01 )             | 3.93 ( 3.34, 5.05 )                | 2.01 ( 1.71, 2.44 )                |  |
|  | 40             | 0.23 ( 0.16, 0.32 )                 | 0.80 ( 0.64, 0.97 )             | 1.90 ( 1.60, 2.24 )             | 4.00 ( 3.39, 5.16 )                | 2.07 ( 1.76, 2.52 )                |  |
|  | 50             | 0.59 ( 0.46, 0.75 )                 | 1.76 ( 1.46, 2.11 )             | 3.09 ( 2.61, 3.63 )             | 3.97 ( 3.34, 5.19 )                | 2.14 ( 1.80, 2.61 )                |  |
|  | 60             | 1.28 ( 1.01, 1.60 )                 | 2.74 ( 2.26, 3.30 )             | 3.62 ( 2.98, 4.38 )             | 3.72 ( 3.05, 5.04 )                | 2.12 ( 1.75, 2.64 )                |  |
|  | 70             | 1.77 ( 1.34, 2.30 )                 | 2.83 ( 2.18, 3.64 )             | - ( - , - )                     | 2.95 ( 2.26, 4.50 )                | 1.99 ( 1.56, 2.62 )                |  |
|  | 80             | 1.54 ( 0.96, 2.40 )                 | - ( - , - )                     | - ( - , - )                     | 1.72 ( 1.05, 3.84 )                | 1.72 ( 1.16, 2.63 )                |  |
| Hispanic <sup>b</sup>                                | 0              | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.01 ( 0.01, 0.02 )             | 5.21 ( 5.01, 5.44 )                | 2.09 ( 1.99, 2.19 )                |  |
|  | 10             | 0.00 ( 0.00, 0.00 )                 | 0.01 ( 0.01, 0.02 )             | 0.06 ( 0.06, 0.07 )             | 5.28 ( 5.07, 5.50 )                | 2.11 ( 2.02, 2.22 )                |  |
|  | 20             | 0.01 ( 0.01, 0.01 )                 | 0.06 ( 0.05, 0.07 )             | 0.24 ( 0.22, 0.25 )             | 5.31 ( 5.10, 5.54 )                | 2.13 ( 2.03, 2.23 )                |  |
|  | 30             | 0.05 ( 0.04, 0.06 )                 | 0.23 ( 0.21, 0.24 )             | 0.81 ( 0.77, 0.85 )             | 5.36 ( 5.15, 5.59 )                | 2.15 ( 2.05, 2.25 )                |  |
|  | 40             | 0.18 ( 0.17, 0.19 )                 | 0.77 ( 0.74, 0.81 )             | 1.97 ( 1.90, 2.05 )             | 5.38 ( 5.17, 5.62 )                | 2.17 ( 2.07, 2.27 )                |  |
|  | 50             | 0.61 ( 0.58, 0.64 )                 | 1.84 ( 1.77, 1.92 )             | 3.54 ( 3.42, 3.67 )             | 5.36 ( 5.14, 5.61 )                | 2.19 ( 2.09, 2.30 )                |  |
|  | 60             | 1.32 ( 1.26, 1.39 )                 | 3.14 ( 3.02, 3.27 )             | 4.53 ( 4.35, 4.70 )             | 5.09 ( 4.85, 5.34 )                | 2.16 ( 2.06, 2.28 )                |  |
|  | 70             | 2.10 ( 1.99, 2.21 )                 | 3.70 ( 3.53, 3.89 )             | - ( - , - )                     | 4.35 ( 4.10, 4.63 )                | 2.04 ( 1.92, 2.17 )                |  |
|  | 80             | 2.25 ( 2.08, 2.43 )                 | - ( - , - )                     | - ( - , - )                     | 3.16 ( 2.86, 3.51 )                | 1.77 ( 1.62, 1.93 )                |  |

Devcan Version 6.4.0, April 2009, National Cancer Institute (<http://srab.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Mortality data are from the NCHS public use data file for the total US.

<sup>a</sup> Underlying incidence and mortality data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

<sup>b</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Underlying mortality data for Hispanics exclude deaths from the District of Columbia, Minnesota, New Hampshire and North Dakota.

- Statistic could not be calculated.

A percent or confidence interval value of 0.00 represents a value that is below 0.005.

Table 6.17 - continued  
Cancer of the Colon and Rectum (Invasive)

Risk of Being Diagnosed With Cancer in 10, 20 and 30 Years,  
Lifetime Risk of Being Diagnosed with Cancer Given Alive and Cancer-Free at Current Age, and  
Lifetime Risk of Dying from Cancer Given Alive at Current Age  
Females, 2004-2006 By Race/Ethnicity

| Race/<br>Ethnicity | Current<br>Age      | Risk of Being Diagnosed with Cancer |                                 |                                 |                                    |                                    |  | Risk of Dying from Cancer |  |
|--------------------|---------------------|-------------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|--|---------------------------|--|
|                    |                     | +10 yrs<br>Percent ( 95% C.I. )     | +20 yrs<br>Percent ( 95% C.I. ) | +30 yrs<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) |  |                           |  |
| All Races          | 0                   | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.02 ( 0.02, 0.02 )             | 5.03 ( 4.99, 5.08 )                | 2.04 ( 2.02, 2.05 )                |  |                           |  |
|                    | 10                  | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.02, 0.02 )             | 0.08 ( 0.07, 0.08 )             | 5.09 ( 5.04, 5.14 )                | 2.06 ( 2.05, 2.08 )                |  |                           |  |
|                    | 20                  | 0.02 ( 0.01, 0.02 )                 | 0.08 ( 0.07, 0.08 )             | 0.27 ( 0.27, 0.28 )             | 5.10 ( 5.05, 5.15 )                | 2.07 ( 2.05, 2.08 )                |  |                           |  |
|                    | 30                  | 0.06 ( 0.06, 0.06 )                 | 0.26 ( 0.25, 0.27 )             | 0.77 ( 0.76, 0.78 )             | 5.11 ( 5.06, 5.16 )                | 2.08 ( 2.06, 2.09 )                |  |                           |  |
|                    | 40                  | 0.20 ( 0.20, 0.21 )                 | 0.72 ( 0.71, 0.73 )             | 1.71 ( 1.69, 1.73 )             | 5.09 ( 5.05, 5.14 )                | 2.08 ( 2.07, 2.10 )                |  |                           |  |
|                    | 50                  | 0.53 ( 0.52, 0.54 )                 | 1.54 ( 1.52, 1.56 )             | 3.08 ( 3.05, 3.12 )             | 5.00 ( 4.95, 5.05 )                | 2.07 ( 2.06, 2.09 )                |  |                           |  |
|                    | 60                  | 1.07 ( 1.05, 1.08 )                 | 2.68 ( 2.65, 2.72 )             | 4.21 ( 4.16, 4.25 )             | 4.70 ( 4.65, 4.75 )                | 2.03 ( 2.01, 2.04 )                |  |                           |  |
|                    | 70                  | 1.82 ( 1.79, 1.85 )                 | 3.53 ( 3.49, 3.57 )             | - ( - , - )                     | 4.09 ( 4.04, 4.14 )                | 1.91 ( 1.89, 1.92 )                |  |                           |  |
| 80                 | 2.29 ( 2.25, 2.33 ) | - ( - , - )                         | - ( - , - )                     | 3.03 ( 2.98, 3.08 )             | 1.67 ( 1.65, 1.68 )                |                                    |  |                           |  |
| White              | 0                   | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.02 ( 0.02, 0.02 )             | 4.98 ( 4.93, 5.03 )                | 2.00 ( 1.99, 2.02 )                |  |                           |  |
|                    | 10                  | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.02, 0.02 )             | 0.07 ( 0.07, 0.08 )             | 5.02 ( 4.97, 5.08 )                | 2.03 ( 2.01, 2.04 )                |  |                           |  |
|                    | 20                  | 0.02 ( 0.01, 0.02 )                 | 0.07 ( 0.07, 0.08 )             | 0.26 ( 0.26, 0.27 )             | 5.03 ( 4.98, 5.09 )                | 2.03 ( 2.01, 2.05 )                |  |                           |  |
|                    | 30                  | 0.06 ( 0.05, 0.06 )                 | 0.25 ( 0.24, 0.26 )             | 0.73 ( 0.72, 0.75 )             | 5.04 ( 4.99, 5.09 )                | 2.04 ( 2.02, 2.05 )                |  |                           |  |
|                    | 40                  | 0.19 ( 0.19, 0.20 )                 | 0.68 ( 0.67, 0.69 )             | 1.65 ( 1.62, 1.67 )             | 5.03 ( 4.98, 5.08 )                | 2.04 ( 2.03, 2.06 )                |  |                           |  |
|                    | 50                  | 0.50 ( 0.48, 0.51 )                 | 1.48 ( 1.46, 1.51 )             | 3.02 ( 2.98, 3.06 )             | 4.93 ( 4.88, 4.99 )                | 2.03 ( 2.02, 2.05 )                |  |                           |  |
|                    | 60                  | 1.03 ( 1.01, 1.05 )                 | 2.64 ( 2.61, 2.68 )             | 4.17 ( 4.12, 4.22 )             | 4.65 ( 4.60, 4.70 )                | 1.99 ( 1.97, 2.01 )                |  |                           |  |
|                    | 70                  | 1.81 ( 1.78, 1.84 )                 | 3.52 ( 3.48, 3.57 )             | - ( - , - )                     | 4.06 ( 4.01, 4.11 )                | 1.88 ( 1.86, 1.90 )                |  |                           |  |
| 80                 | 2.30 ( 2.26, 2.34 ) | - ( - , - )                         | - ( - , - )                     | 3.02 ( 2.97, 3.07 )             | 1.64 ( 1.62, 1.66 )                |                                    |  |                           |  |
| Black              | 0                   | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.01 )             | 0.02 ( 0.01, 0.02 )             | 5.18 ( 5.03, 5.33 )                | 2.37 ( 2.32, 2.42 )                |  |                           |  |
|                    | 10                  | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.01, 0.02 )             | 0.09 ( 0.08, 0.10 )             | 5.29 ( 5.14, 5.45 )                | 2.42 ( 2.38, 2.47 )                |  |                           |  |
|                    | 20                  | 0.01 ( 0.01, 0.02 )                 | 0.09 ( 0.07, 0.10 )             | 0.32 ( 0.30, 0.35 )             | 5.30 ( 5.15, 5.46 )                | 2.43 ( 2.38, 2.48 )                |  |                           |  |
|                    | 30                  | 0.07 ( 0.06, 0.08 )                 | 0.31 ( 0.29, 0.33 )             | 1.03 ( 0.98, 1.08 )             | 5.33 ( 5.18, 5.49 )                | 2.45 ( 2.40, 2.50 )                |  |                           |  |
|                    | 40                  | 0.24 ( 0.23, 0.26 )                 | 0.97 ( 0.93, 1.02 )             | 2.23 ( 2.15, 2.31 )             | 5.35 ( 5.19, 5.51 )                | 2.47 ( 2.42, 2.52 )                |  |                           |  |
|                    | 50                  | 0.76 ( 0.72, 0.80 )                 | 2.07 ( 1.99, 2.15 )             | 3.70 ( 3.58, 3.82 )             | 5.32 ( 5.15, 5.48 )                | 2.48 ( 2.42, 2.53 )                |  |                           |  |
|                    | 60                  | 1.43 ( 1.36, 1.50 )                 | 3.21 ( 3.09, 3.34 )             | 4.53 ( 4.38, 4.69 )             | 4.98 ( 4.81, 5.15 )                | 2.43 ( 2.37, 2.48 )                |  |                           |  |
|                    | 70                  | 2.14 ( 2.03, 2.24 )                 | 3.71 ( 3.55, 3.87 )             | - ( - , - )                     | 4.25 ( 4.07, 4.43 )                | 2.27 ( 2.21, 2.33 )                |  |                           |  |
| 80                 | 2.31 ( 2.17, 2.45 ) | - ( - , - )                         | - ( - , - )                     | 3.10 ( 2.91, 3.29 )             | 2.00 ( 1.93, 2.07 )                |                                    |  |                           |  |

Devcan Version 6.4.0, April 2009, National Cancer Institute (<http://srab.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Mortality data are from the NCHS public use data file for the total US.

- Statistic could not be calculated.

A percent or confidence interval value of 0.00 represents a value that is below 0.005.

Table 6.17 - continued  
Cancer of the Colon and Rectum (Invasive)

Risk of Being Diagnosed With Cancer in 10, 20 and 30 Years,  
Lifetime Risk of Being Diagnosed with Cancer Given Alive and Cancer-Free at Current Age, and  
Lifetime Risk of Dying from Cancer Given Alive at Current Age  
Females, 2004-2006 By Race/Ethnicity

| Race/<br>Ethnicity                                   | Current<br>Age      | Risk of Being Diagnosed with Cancer |                                 |                                 |                                    | Risk of Dying from Cancer          |  |
|--|---------------------|-------------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|--|
|  |                     | +10 yrs<br>Percent ( 95% C.I. )     | +20 yrs<br>Percent ( 95% C.I. ) | +30 yrs<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) | Eventually<br>Percent ( 95% C.I. ) |  |
| Asian/<br>Pacific<br>Islander                        | 0                   | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.01 )             | 0.02 ( 0.01, 0.02 )             | 5.03 ( 4.82, 5.27 )                | 1.96 ( 1.81, 2.12 )                |  |
|  | 10                  | 0.00 ( 0.00, 0.00 )                 | 0.02 ( 0.01, 0.02 )             | 0.08 ( 0.07, 0.09 )             | 5.07 ( 4.85, 5.31 )                | 1.97 ( 1.83, 2.13 )                |  |
|  | 20                  | 0.01 ( 0.01, 0.02 )                 | 0.07 ( 0.06, 0.09 )             | 0.26 ( 0.24, 0.29 )             | 5.08 ( 4.86, 5.32 )                | 1.97 ( 1.83, 2.14 )                |  |
|  | 30                  | 0.06 ( 0.05, 0.07 )                 | 0.25 ( 0.23, 0.27 )             | 0.73 ( 0.69, 0.77 )             | 5.08 ( 4.86, 5.32 )                | 1.98 ( 1.83, 2.14 )                |  |
|  | 40                  | 0.19 ( 0.17, 0.21 )                 | 0.67 ( 0.64, 0.71 )             | 1.55 ( 1.48, 1.62 )             | 5.04 ( 4.82, 5.28 )                | 1.97 ( 1.83, 2.13 )                |  |
|  | 50                  | 0.49 ( 0.46, 0.52 )                 | 1.38 ( 1.31, 1.45 )             | 2.74 ( 2.63, 2.86 )             | 4.91 ( 4.69, 5.15 )                | 1.95 ( 1.80, 2.11 )                |  |
|  | 60                  | 0.91 ( 0.86, 0.97 )                 | 2.32 ( 2.21, 2.43 )             | 3.84 ( 3.68, 4.00 )             | 4.55 ( 4.33, 4.80 )                | 1.89 ( 1.74, 2.06 )                |  |
|  | 70                  | 1.51 ( 1.42, 1.60 )                 | 3.13 ( 2.98, 3.29 )             | - ( - , - )                     | 3.90 ( 3.67, 4.15 )                | 1.79 ( 1.64, 1.97 )                |  |
| 80   | 1.95 ( 1.81, 2.09 ) | - ( - , - )                         | - ( - , - )                     | 2.86 ( 2.62, 3.13 )             | 1.60 ( 1.43, 1.80 )                |                                    |  |
| American<br>Indian/<br>Alaska<br>Native <sup>a</sup> | 0                   | 0.00 ( 0.00, 0.04 )                 | 0.00 ( 0.00, 0.05 )             | 0.03 ( 0.01, 0.09 )             | 4.90 ( 4.19, 5.90 )                | 1.50 ( 1.28, 1.80 )                |  |
|  | 10                  | 0.00 ( 0.00, 0.02 )                 | 0.03 ( 0.01, 0.08 )             | 0.13 ( 0.08, 0.20 )             | 4.98 ( 4.26, 5.99 )                | 1.53 ( 1.30, 1.83 )                |  |
|  | 20                  | 0.03 ( 0.01, 0.07 )                 | 0.13 ( 0.08, 0.20 )             | 0.37 ( 0.28, 0.48 )             | 5.00 ( 4.28, 6.02 )                | 1.54 ( 1.31, 1.84 )                |  |
|  | 30                  | 0.09 ( 0.05, 0.15 )                 | 0.34 ( 0.25, 0.44 )             | 0.83 ( 0.68, 1.01 )             | 5.01 ( 4.28, 6.04 )                | 1.55 ( 1.32, 1.86 )                |  |
|  | 40                  | 0.25 ( 0.18, 0.34 )                 | 0.75 ( 0.61, 0.92 )             | 1.77 ( 1.49, 2.09 )             | 5.01 ( 4.27, 6.06 )                | 1.56 ( 1.33, 1.88 )                |  |
|  | 50                  | 0.52 ( 0.40, 0.66 )                 | 1.57 ( 1.30, 1.88 )             | 3.23 ( 2.76, 3.77 )             | 4.91 ( 4.15, 5.99 )                | 1.57 ( 1.33, 1.90 )                |  |
|  | 60                  | 1.11 ( 0.87, 1.40 )                 | 2.88 ( 2.40, 3.43 )             | 4.16 ( 3.51, 4.90 )             | 4.66 ( 3.87, 5.78 )                | 1.54 ( 1.29, 1.89 )                |  |
|  | 70                  | 2.03 ( 1.60, 2.53 )                 | 3.49 ( 2.84, 4.26 )             | - ( - , - )                     | 4.07 ( 3.24, 5.30 )                | 1.42 ( 1.14, 1.80 )                |  |
| 80   | 1.97 ( 1.40, 2.71 ) | - ( - , - )                         | - ( - , - )                     | 2.74 ( 1.87, 4.24 )             | 1.10 ( 0.79, 1.58 )                |                                    |  |
| Hispanic <sup>b</sup>                                | 0                   | 0.00 ( 0.00, 0.00 )                 | 0.00 ( 0.00, 0.00 )             | 0.01 ( 0.01, 0.02 )             | 4.43 ( 4.25, 4.62 )                | 1.81 ( 1.73, 1.89 )                |  |
|  | 10                  | 0.00 ( 0.00, 0.00 )                 | 0.01 ( 0.01, 0.02 )             | 0.06 ( 0.05, 0.07 )             | 4.48 ( 4.30, 4.67 )                | 1.83 ( 1.75, 1.91 )                |  |
|  | 20                  | 0.01 ( 0.01, 0.01 )                 | 0.06 ( 0.05, 0.06 )             | 0.22 ( 0.21, 0.24 )             | 4.48 ( 4.30, 4.68 )                | 1.83 ( 1.75, 1.91 )                |  |
|  | 30                  | 0.05 ( 0.04, 0.05 )                 | 0.21 ( 0.19, 0.22 )             | 0.65 ( 0.62, 0.68 )             | 4.49 ( 4.31, 4.68 )                | 1.83 ( 1.76, 1.92 )                |  |
|  | 40                  | 0.16 ( 0.15, 0.18 )                 | 0.61 ( 0.58, 0.64 )             | 1.40 ( 1.35, 1.46 )             | 4.47 ( 4.29, 4.67 )                | 1.83 ( 1.75, 1.92 )                |  |
|  | 50                  | 0.45 ( 0.42, 0.48 )                 | 1.26 ( 1.20, 1.32 )             | 2.50 ( 2.41, 2.60 )             | 4.37 ( 4.19, 4.57 )                | 1.82 ( 1.74, 1.91 )                |  |
|  | 60                  | 0.84 ( 0.79, 0.89 )                 | 2.13 ( 2.04, 2.23 )             | 3.40 ( 3.26, 3.54 )             | 4.08 ( 3.89, 4.28 )                | 1.78 ( 1.69, 1.86 )                |  |
|  | 70                  | 1.41 ( 1.33, 1.49 )                 | 2.80 ( 2.66, 2.94 )             | - ( - , - )                     | 3.54 ( 3.35, 3.76 )                | 1.68 ( 1.59, 1.77 )                |  |
| 80   | 1.74 ( 1.62, 1.87 ) | - ( - , - )                         | - ( - , - )                     | 2.68 ( 2.46, 2.92 )             | 1.46 ( 1.36, 1.57 )                |                                    |  |

Devcan Version 6.4.0, April 2009, National Cancer Institute (<http://srab.cancer.gov/devcan/>).

Source: Incidence data are from the SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Mortality data are from the NCHS public use data file for the total US.

<sup>a</sup> Underlying incidence and mortality data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

<sup>b</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Underlying mortality data for Hispanics exclude deaths from the District of Columbia, Minnesota, New Hampshire and North Dakota.

- Statistic could not be calculated.

A percent or confidence interval value of 0.00 represents a value that is below 0.005.

Table 6.18  
Cancer of the Colon and Rectum (Invasive)

SEER Incidence and U.S. Mortality  
Age-Adjusted Rates and Trends<sup>a</sup>  
By Race/Ethnicity and Sex

| SEER Incidence                    | SEER 17 Areas <sup>b</sup> |       |         | SEER 13 Areas <sup>b</sup>   |       |         | SEER 9 Areas <sup>b</sup>    |       |         |
|-----------------------------------|----------------------------|-------|---------|------------------------------|-------|---------|------------------------------|-------|---------|
|                                   | Rate 2002-2006             |       |         | Trend 1997-2006 <sup>c</sup> |       |         | Trend 1997-2006 <sup>d</sup> |       |         |
|                                   | Rate per 100,000 persons   |       |         | AAPC (%)                     |       |         | AAPC (%)                     |       |         |
| RACE/ETHNICITY                    | Total                      | Males | Females | Total                        | Males | Females | Total                        | Males | Females |
| All Races                         | 49.1                       | 57.3  | 42.8    | -2.2*                        | -2.6* | -1.9*   | -2.3*                        | -2.9* | -1.9*   |
| White                             | 48.6                       | 56.9  | 42.1    | -2.3*                        | -2.8* | -2.1*   | -2.4*                        | -2.7* | -2.1*   |
| White Hispanic <sup>e</sup>       | 39.1                       | 47.3  | 32.7    | -1.2*                        | -2.0* | -0.5*   | -                            | -     | -       |
| White Non-Hispanic <sup>e</sup>   | 49.9                       | 58.1  | 43.3    | -2.3*                        | -2.8* | -2.1*   | -                            | -     | -       |
| Black                             | 59.9                       | 69.3  | 53.5    | -1.4*                        | -2.2* | -1.1*   | -1.5*                        | -2.2* | -0.4*   |
| Asian/Pacific Islander            | 40.0                       | 46.9  | 34.6    | -1.9*                        | -2.3* | -0.8*   | -                            | -     | -       |
| Amer Ind/Alaska Nat <sup>f</sup>  | 42.3                       | 43.1  | 41.2    | -0.1                         | -0.9  | 0.8     | -                            | -     | -       |
| Hispanic <sup>e</sup>             | 38.4                       | 46.3  | 32.2    | -1.1*                        | -1.7* | -0.4*   | -                            | -     | -       |
| <u>U.S. Mortality<sup>g</sup></u> |                            |       |         |                              |       |         |                              |       |         |
| RACE/ETHNICITY                    | Rate 2002-2006             |       |         | Trend 1997-2006 <sup>h</sup> |       |         |                              |       |         |
|                                   | Rate per 100,000 persons   |       |         | AAPC (%)                     |       |         |                              |       |         |
|                                   | Total                      | Males | Females | Total                        | Males | Females |                              |       |         |
| All Races                         | 18.2                       | 21.9  | 15.4    | -2.7*                        | -2.9* | -2.7*   |                              |       |         |
| White                             | 17.7                       | 21.4  | 14.9    | -2.8*                        | -3.0* | -2.8*   |                              |       |         |
| White Hispanic <sup>e</sup>       | 13.5                       | 16.6  | 11.1    | -1.3*                        | -2.2* | -0.9    |                              |       |         |
| White Non-Hispanic <sup>e</sup>   | 18.0                       | 21.7  | 15.1    | -2.6*                        | -2.8* | -2.6*   |                              |       |         |
| Black                             | 25.4                       | 31.4  | 21.6    | -1.9*                        | -1.3* | -2.3*   |                              |       |         |
| Asian/Pacific Islander            | 11.6                       | 13.8  | 10.0    | -2.2*                        | -2.4* | -1.9*   |                              |       |         |
| Amer Ind/Alaska Nat               |                            |       |         |                              |       |         |                              |       |         |
| Total U.S.                        | 12.4                       | 15.3  | 10.2    | -3.3*                        | -3.1* | -3.5*   |                              |       |         |
| CHSDA Counties                    | 16.4                       | 20.0  | 13.7    | -2.1*                        | -1.4  | -1.1    |                              |       |         |
| Non-CHSDA Counties                | 7.3                        | 9.4   | 5.7     | -2.7*                        | -6.9* | -3.1*   |                              |       |         |
| Hispanic <sup>e</sup>             | 13.0                       | 16.1  | 10.7    | -1.3                         | -2.2* | -0.8    |                              |       |         |

The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 3.3, April 2008, National Cancer Institute.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Trend based on less than 10 cases for at least one year within the time interval.

a 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).

b The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska Native Registry and Rural Georgia.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey.

c The 1997-2006 AAPC estimates are based on a Joinpoint analysis with up to 2 Joinpoints over diagnosis years 1992-2006.

d The 1997-2006 AAPC estimates are based on a Joinpoint analysis with up to 4 Joinpoints over diagnosis years 1975-2006.

e 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 are based on NHIA and exclude cases from the Alaska Native Registry. The 2002-2006 Hispanic and Non-Hispanic death rates exclude deaths from the District of Columbia, Minnesota, New Hampshire and North Dakota. The 1997-2006 Hispanic and Non-Hispanic mortality trends exclude deaths from Connecticut, the District of Columbia, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma and Vermont.

f Incidence data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

g US Mortality Files, National Center for Health Statistics, CDC.

h The 1997-2006 mortality AAPCs are based on a Joinpoint analysis using years of death 1992-2006.

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

Table 6.19  
Cancer of the Colon (Invasive) and Cancer of the Rectum (Invasive)

SEER Incidence  
Age-Adjusted Rates and Trends<sup>a</sup>  
By Race/Ethnicity and Sex

| Cancer of the Colon<br>SEER Incidence  | SEER 17 Areas <sup>b</sup><br>Rate 2002-2006<br>Rate per 100,000 persons |       |         | SEER 13 Areas <sup>b</sup><br>Trend 1997-2006 <sup>c</sup><br>AAPC (%) |       |         | SEER 9 Areas <sup>b</sup><br>Trend 1997-2006 <sup>d</sup><br>AAPC (%) |       |         |
|--|--|-------|---------|--|-------|---------|---|-------|---------|
|  | Total  | Males | Females | Total  | Males | Females | Total   | Males | Females |
|  | RACE/ETHNICITY   |       |         |  |       |         |   |       |         |
| All Races                              | 35.5   | 40.0  | 32.0    | -2.1*  | -2.6* | -1.8*   | -2.3*   | -2.8* | -1.9*   |
| White                                  | 35.1   | 39.7  | 31.5    | -2.3*  | -2.8* | -1.9*   | -2.4*   | -2.8* | -2.0*   |
| White Hispanic <sup>e</sup>            | 27.2   | 31.6  | 23.8    | -0.8*  | -0.5  | -0.3    | -   | -     | -       |
| White Non-Hispanic <sup>e</sup>        | 36.1   | 40.8  | 32.4    | -2.3*  | -2.8* | -1.9*   | -   | -     | -       |
| Black                                  | 46.0   | 52.3  | 41.8    | -1.5*  | -2.1* | -1.2*   | -1.0*   | -1.1* | -0.2*   |
| Asian/Pacific Islander                 | 27.0   | 30.1  | 24.6    | -2.1*  | -2.7* | -0.9*   | -   | -     | -       |
| Amer Ind/Alaska Nat <sup>f</sup>       | 31.1   | 29.7  | 32.0    | -0.1   | -1.6  | 1.3     | -   | -     | -       |
| Hispanic <sup>e</sup>                  | 26.6   | 30.8  | 23.4    | -0.8   | -1.4* | -0.2    | -   | -     | -       |
|  |  |       |         |  |       |         |   |       |         |
| Cancer of the Rectum<br>SEER Incidence | SEER 17 Areas <sup>b</sup><br>Rate 2002-2006<br>Rate per 100,000 persons |       |         | SEER 13 Areas <sup>b</sup><br>Trend 1997-2006 <sup>c</sup><br>AAPC (%) |       |         | SEER 9 Areas <sup>b</sup><br>Trend 1997-2006 <sup>d</sup><br>AAPC (%) |       |         |
|  | Total  | Males | Females | Total  | Males | Females | Total   | Males | Females |
|  | RACE/ETHNICITY   |       |         |  |       |         |   |       |         |
| All Races                              | 13.6   | 17.2  | 10.7    | -2.2*  | -2.4* | -2.1*   | -2.2*   | -2.5* | -2.0*   |
| White                                  | 13.5   | 17.1  | 10.6    | -2.5*  | -2.6* | -2.5*   | -2.5*   | -2.6* | -2.4*   |
| White Hispanic <sup>e</sup>            | 11.9   | 15.8  | 8.9     | -1.2*  | -1.5* | -1.2*   | -   | -     | -       |
| White Non-Hispanic <sup>e</sup>        | 13.8   | 17.4  | 10.8    | -2.5*  | -2.6* | -2.5*   | -   | -     | -       |
| Black                                  | 13.9   | 17.0  | 11.7    | -0.6   | -1.0* | -0.1    | -0.2  | -2.3  | -0.3    |
| Asian/Pacific Islander                 | 13.0   | 16.8  | 10.0    | -1.1*  | -1.1  | -0.9    | -   | -     | -       |
| Amer Ind/Alaska Nat <sup>f</sup>       | 11.2   | 13.4  | 9.2     | -0.4   | -     | -       | -   | -     | -       |
| Hispanic <sup>e</sup>                  | 11.7   | 15.4  | 8.8     | -1.1*  | -1.4* | -1.0*   | -   | -     | -       |

The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 3.3, April 2008, National Cancer Institute.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Trend based on less than 10 cases for at least one year within the time interval.

a 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).

b The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska Native Registry and Rural Georgia.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey.

c The 1997-2006 AAPC estimates are based on a Joinpoint analysis with up to 2 Joinpoints over diagnosis years 1992-2006.

d The 1997-2006 AAPC estimates are based on a Joinpoint analysis with up to 4 Joinpoints over diagnosis years 1975-2006.

e 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 are based on NHIA and exclude cases from the Alaska Native Registry.

f Incidence data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

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



Table 6.20  
Cancer of the Colon and Rectum (Invasive)

Age-Adjusted SEER Incidence Rates<sup>a</sup>  
By Registry, Race and Sex

|  | All Races |       |         | Whites |       |         | Blacks |       |         |
|--|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
|  | Total     | Males | Females | Total  | Males | Females | Total  | Males | Females |
| <u>SEER Incidence Rates<sup>a</sup>, 2002-2006</u> |           |       |         |        |       |         |        |       |         |
| Atlanta & Rural Georgia                            | 44.89     | 51.66 | 40.17   | 40.96  | 48.25 | 35.45   | 56.27  | 64.07 | 51.80   |
| Atlanta  | 44.48     | 50.50 | 40.35   | 40.60  | 47.18 | 35.61   | 56.14  | 63.31 | 52.33   |
| Rural Georgia                                      | 53.55     | 72.60 | 38.69   | 47.39  | 64.44 | 34.08   | 64.94  | 88.78 | 47.23   |
| California   | 44.96     | 52.20 | 39.16   | 44.70  | 52.04 | 38.76   | 56.47  | 63.63 | 51.03   |
| Greater Bay Area                                   | 44.27     | 50.62 | 39.19   | 43.96  | 50.16 | 38.97   | 53.86  | 60.92 | 48.69   |
| San Francisco-Oakland                              | 45.31     | 52.27 | 39.78   | 44.70  | 51.77 | 38.97   | 54.33  | 61.49 | 49.13   |
| San Jose-Monterey                                  | 42.08     | 47.30 | 37.89   | 42.55  | 47.23 | 38.85   | 49.11  | 58.21 | 43.52   |
| Los Angeles  | 46.04     | 53.54 | 40.21   | 44.33  | 51.59 | 38.57   | 60.34  | 68.95 | 54.32   |
| Greater California                                 | 44.72     | 52.17 | 38.66   | 45.11  | 52.83 | 38.80   | 52.70  | 58.13 | 47.88   |
| Connecticut  | 53.55     | 62.83 | 46.54   | 53.24  | 62.83 | 45.91   | 55.88  | 61.77 | 51.55   |
| Detroit  | 52.94     | 61.98 | 46.48   | 49.90  | 58.40 | 43.58   | 65.75  | 79.22 | 57.12   |
| Hawaii   | 50.71     | 61.32 | 41.54   | 50.39  | 59.94 | 41.24   | 38.44  | 53.37 | -       |
| Iowa   | 56.25     | 64.44 | 49.59   | 56.13  | 64.44 | 49.35   | 62.08  | 71.39 | 57.16   |
| Kentucky   | 57.62     | 68.03 | 49.85   | 57.00  | 67.44 | 49.12   | 69.60  | 82.27 | 61.49   |
| Louisiana  | 56.39     | 68.47 | 47.28   | 54.03  | 66.52 | 44.25   | 64.46  | 76.44 | 56.38   |
| New Jersey   | 55.44     | 65.37 | 48.01   | 55.16  | 65.35 | 47.40   | 59.93  | 70.66 | 53.26   |
| New Mexico   | 42.02     | 49.40 | 35.76   | 43.16  | 50.77 | 36.65   | 26.00  | 24.26 | 27.95   |
| Seattle-Puget Sound                                | 45.93     | 52.14 | 40.63   | 46.06  | 52.30 | 40.65   | 51.36  | 53.58 | 48.99   |
| Utah   | 39.05     | 45.30 | 33.71   | 39.44  | 45.67 | 34.12   | 37.53  | -     | -       |
| 9 SEER Areas <sup>b</sup>                          | 48.78     | 56.37 | 42.76   | 48.15  | 55.76 | 41.99   | 58.85  | 67.87 | 53.09   |
| 11 SEER Areas <sup>b</sup>                         | 47.78     | 55.22 | 41.91   | 47.04  | 54.41 | 41.10   | 59.17  | 68.04 | 53.35   |
| 13 SEER Areas <sup>b</sup>                         | 47.89     | 55.35 | 41.99   | 47.04  | 54.44 | 41.08   | 59.20  | 68.23 | 53.24   |
| 17 SEER Areas <sup>b</sup>                         | 49.14     | 57.25 | 42.75   | 48.65  | 56.87 | 42.07   | 59.87  | 69.34 | 53.50   |

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

<sup>b</sup> 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.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 6.21  
Cancer of the Colon and Rectum (Invasive)

Age-Adjusted SEER Death Rates<sup>a</sup>  
By Registry, Race and Sex

|  | All Races |       |         | Whites |       |         | Blacks |       |         |
|--|-----------|-------|---------|--------|-------|---------|--------|-------|---------|
|  | Total     | Males | Females | Total  | Males | Females | Total  | Males | Females |
| <u>SEER Death Rates<sup>a</sup>, 2002-2006</u> |           |       |         |        |       |         |        |       |         |
| Atlanta & Rural Georgia                        | 16.59     | 19.69 | 14.69   | 13.83  | 16.88 | 11.81   | 24.52  | 29.10 | 22.12   |
| Atlanta  | 16.41     | 19.31 | 14.68   | 13.71  | 16.68 | 11.79   | 24.48  | 28.43 | 22.43   |
| Rural Georgia                                  | 20.27     | 26.85 | 15.37   | 15.78  | 19.37 | 12.16   | 28.25  | 40.37 | 20.90   |
| California                                     | 16.25     | 19.22 | 13.93   | 16.23  | 19.29 | 13.80   | 24.88  | 28.33 | 22.37   |
| Greater Bay Area                               | 15.43     | 18.08 | 13.41   | 15.45  | 18.00 | 13.43   | 24.39  | 28.55 | 21.62   |
| San Francisco-Oakland                          | 16.32     | 19.40 | 13.98   | 16.08  | 19.17 | 13.63   | 24.88  | 28.34 | 22.58   |
| San Jose-Monterey                              | 13.58     | 15.41 | 12.18   | 14.27  | 15.85 | 13.04   | 20.13  | 31.57 | -       |
| Los Angeles                                    | 16.67     | 19.64 | 14.40   | 16.05  | 19.08 | 13.74   | 26.58  | 30.87 | 23.40   |
| Greater California                             | 16.36     | 19.46 | 13.90   | 16.55  | 19.78 | 13.94   | 22.81  | 25.03 | 21.22   |
| Connecticut                                    | 17.08     | 20.15 | 14.92   | 16.96  | 20.12 | 14.71   | 20.76  | 24.94 | 18.46   |
| Detroit  | 18.71     | 22.76 | 15.92   | 17.19  | 20.85 | 14.64   | 25.55  | 32.08 | 21.27   |
| Hawaii   | 15.53     | 20.06 | 11.72   | 16.42  | 19.91 | 13.25   | -      | -     | -       |
| Iowa   | 19.02     | 23.00 | 16.06   | 19.03  | 22.96 | 16.10   | 24.24  | 37.23 | 17.16   |
| Kentucky                                       | 21.45     | 26.20 | 18.21   | 21.07  | 26.03 | 17.64   | 29.45  | 30.59 | 28.92   |
| Louisiana                                      | 21.71     | 27.56 | 17.52   | 19.39  | 25.06 | 15.25   | 29.57  | 36.90 | 24.71   |
| New Jersey                                     | 20.05     | 24.12 | 17.19   | 19.91  | 24.09 | 16.93   | 25.48  | 29.91 | 22.71   |
| New Mexico                                     | 16.38     | 19.88 | 13.57   | 16.57  | 20.09 | 13.72   | 16.59  | -     | -       |
| Seattle-Puget Sound                            | 15.62     | 17.85 | 13.70   | 15.56  | 17.87 | 13.60   | 22.93  | 25.52 | 19.36   |
| Utah   | 13.41     | 15.46 | 11.74   | 13.50  | 15.56 | 11.82   | -      | -     | -       |
| 9 SEER Areas <sup>b</sup>                      | 16.85     | 20.03 | 14.46   | 16.47  | 19.57 | 14.11   | 24.27  | 29.16 | 21.14   |
| 11 SEER Areas <sup>b</sup>                     | 16.63     | 19.68 | 14.32   | 16.27  | 19.27 | 13.98   | 24.79  | 29.57 | 21.63   |
| 13 SEER Areas <sup>b</sup>                     | 16.64     | 19.70 | 14.32   | 16.24  | 19.25 | 13.95   | 24.81  | 29.69 | 21.58   |
| 17 SEER Areas <sup>b</sup>                     | 17.59     | 20.99 | 15.02   | 17.29  | 20.72 | 14.67   | 25.74  | 30.50 | 22.59   |
| Total U.S.                                     | 18.19     | 21.94 | 15.37   | 17.67  | 21.37 | 14.86   | 25.42  | 31.38 | 21.57   |

<sup>a</sup> US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

<sup>b</sup> 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.  
The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey.  
- Statistic not shown. Rate based on less than 16 cases for the time interval.

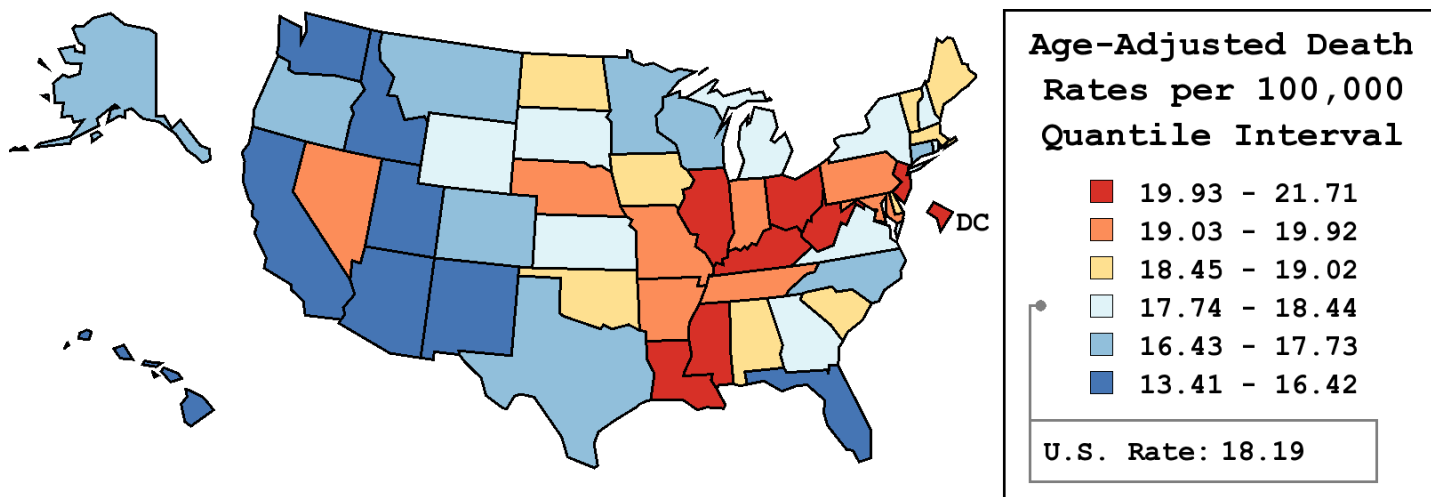
Table 6.22  
Cancer of the Colon and Rectum (Invasive)

Age-Adjusted Cancer Death<sup>a</sup> Rates By State, All Races, 2002-2006

Males and Females

| State            | Rate  | SE   | Rank | PD                  |
|------------------|-------|------|------|---------------------|
| TOTAL U.S.       | 18.19 | 0.03 |      |                     |
| High Five States |       |      |      |                     |
| Louisiana        | 21.71 | 0.32 | (01) | 19.40 <sup>c</sup>  |
| Kentucky         | 21.45 | 0.32 | (02) | 17.97 <sup>c</sup>  |
| West Virginia    | 21.43 | 0.44 | (03) | 17.87 <sup>c</sup>  |
| D.C.             | 20.90 | 0.85 | (04) | 14.95 <sup>c</sup>  |
| Mississippi      | 20.68 | 0.38 | (05) | 13.73 <sup>c</sup>  |
| Low Five States  |       |      |      |                     |
| Washington       | 16.07 | 0.23 | (47) | -11.62 <sup>c</sup> |
| Arizona          | 15.67 | 0.23 | (48) | -13.82 <sup>c</sup> |
| Hawaii           | 15.53 | 0.47 | (49) | -14.58 <sup>c</sup> |
| Idaho            | 15.35 | 0.48 | (50) | -15.60 <sup>c</sup> |
| Utah             | 13.41 | 0.39 | (51) | -26.28 <sup>c</sup> |

| State         | Rate  | SE   | Rank | PD                  | State          | Rate  | SE   | Rank | PD                  |
|---------------|-------|------|------|---------------------|----------------|-------|------|------|---------------------|
| Alabama       | 18.87 | 0.28 | (20) | 3.74                | Montana        | 16.83 | 0.57 | (41) | -7.44               |
| Alaska        | 16.73 | 1.01 | (42) | -8.01               | Nebraska       | 19.57 | 0.45 | (12) | 7.59                |
| Arizona       | 15.67 | 0.23 | (48) | -13.82 <sup>c</sup> | Nevada         | 19.60 | 0.44 | (11) | 7.78                |
| Arkansas      | 19.53 | 0.36 | (13) | 7.37                | New Hampshire  | 18.00 | 0.52 | (32) | -1.04               |
| California    | 16.25 | 0.10 | (46) | -10.62 <sup>c</sup> | New Jersey     | 20.05 | 0.21 | (08) | 10.27 <sup>c</sup>  |
| Colorado      | 16.86 | 0.30 | (40) | -7.28               | New Mexico     | 16.38 | 0.42 | (45) | -9.90               |
| Connecticut   | 17.08 | 0.30 | (38) | -6.06               | New York       | 18.37 | 0.13 | (28) | 1.03                |
| Delaware      | 18.91 | 0.66 | (18) | 4.00                | North Carolina | 17.73 | 0.21 | (35) | -2.51               |
| D.C.          | 20.90 | 0.85 | (04) | 14.95 <sup>c</sup>  | North Dakota   | 18.46 | 0.70 | (25) | 1.49                |
| Florida       | 16.42 | 0.12 | (44) | -9.70               | Ohio           | 20.06 | 0.18 | (07) | 10.33 <sup>c</sup>  |
| Georgia       | 17.94 | 0.22 | (33) | -1.36               | Oklahoma       | 18.89 | 0.32 | (19) | 3.88                |
| Hawaii        | 15.53 | 0.47 | (49) | -14.58 <sup>c</sup> | Oregon         | 16.90 | 0.30 | (39) | -7.08               |
| Idaho         | 15.35 | 0.48 | (50) | -15.60 <sup>c</sup> | Pennsylvania   | 19.84 | 0.16 | (10) | 9.12                |
| Illinois      | 20.13 | 0.18 | (06) | 10.72 <sup>c</sup>  | Rhode Island   | 18.24 | 0.54 | (30) | 0.30                |
| Indiana       | 19.92 | 0.25 | (09) | 9.54                | South Carolina | 18.66 | 0.30 | (22) | 2.64                |
| Iowa          | 19.02 | 0.33 | (17) | 4.56                | South Dakota   | 18.16 | 0.64 | (31) | -0.13               |
| Kansas        | 18.44 | 0.36 | (26) | 1.41                | Tennessee      | 19.17 | 0.25 | (16) | 5.41                |
| Kentucky      | 21.45 | 0.32 | (02) | 17.97 <sup>c</sup>  | Texas          | 17.46 | 0.14 | (36) | -4.01               |
| Louisiana     | 21.71 | 0.32 | (01) | 19.40 <sup>c</sup>  | Utah           | 13.41 | 0.39 | (51) | -26.28 <sup>c</sup> |
| Maine         | 18.73 | 0.49 | (21) | 3.01                | Vermont        | 18.57 | 0.74 | (23) | 2.11                |
| Maryland      | 19.30 | 0.27 | (14) | 6.11                | Virginia       | 18.29 | 0.23 | (29) | 0.55                |
| Massachusetts | 18.54 | 0.23 | (24) | 1.93                | Washington     | 16.07 | 0.23 | (47) | -11.62 <sup>c</sup> |
| Michigan      | 18.38 | 0.19 | (27) | 1.08                | West Virginia  | 21.43 | 0.44 | (03) | 17.87 <sup>c</sup>  |
| Minnesota     | 16.48 | 0.25 | (43) | -9.40               | Wisconsin      | 17.16 | 0.24 | (37) | -5.65               |
| Mississippi   | 20.68 | 0.38 | (05) | 13.73 <sup>c</sup>  | Wyoming        | 17.91 | 0.85 | (34) | -1.52               |
| Missouri      | 19.22 | 0.25 | (15) | 5.69                |                |       |      |      |                     |



<sup>a</sup> US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

<sup>c</sup> Absolute percent difference between state rate and total U.S. rate is 10% or more.

SE Standard error of the rate.

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

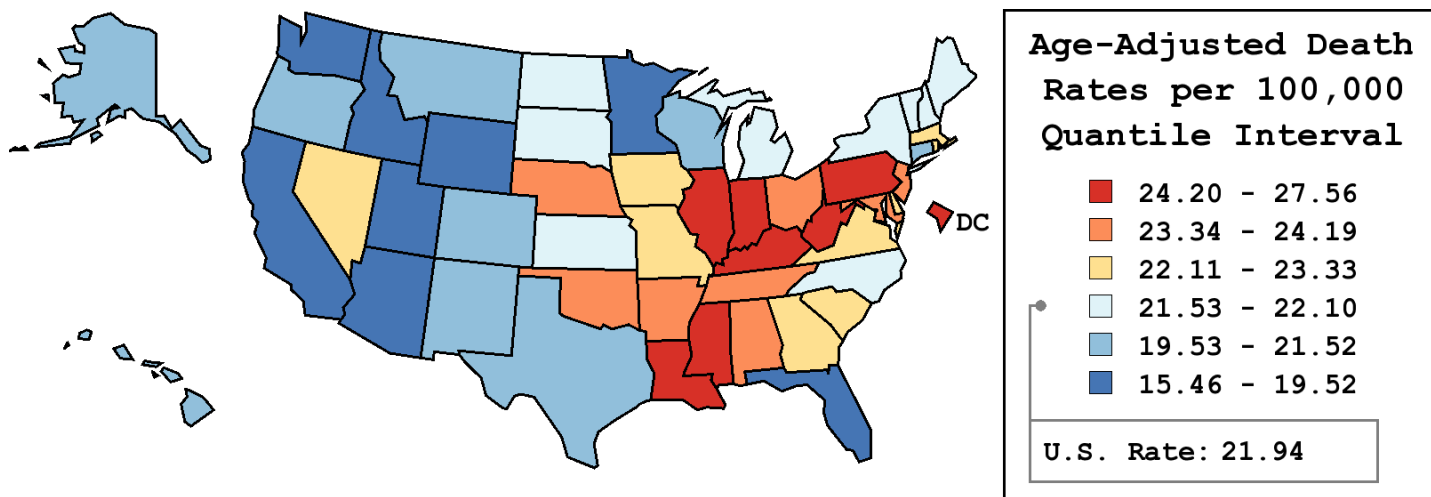
Table 6.23  
Cancer of the Colon and Rectum (Invasive)

Age-Adjusted Cancer Death<sup>a</sup> Rates By State, All Races, 2002-2006

Males

| State            | Rate  | SE   | Rank | PD                  |
|------------------|-------|------|------|---------------------|
| TOTAL U.S.       | 21.94 | 0.06 |      |                     |
| High Five States |       |      |      |                     |
| Louisiana        | 27.56 | 0.57 | (01) | 25.62 <sup>c</sup>  |
| Kentucky         | 26.20 | 0.56 | (02) | 19.38 <sup>c</sup>  |
| D.C.             | 26.16 | 1.55 | (03) | 19.21 <sup>c</sup>  |
| West Virginia    | 25.98 | 0.76 | (04) | 18.39 <sup>c</sup>  |
| Mississippi      | 25.01 | 0.66 | (05) | 13.96 <sup>c</sup>  |
| Low Five States  |       |      |      |                     |
| Arizona          | 19.03 | 0.38 | (47) | -13.28 <sup>c</sup> |
| Washington       | 18.72 | 0.39 | (48) | -14.68 <sup>c</sup> |
| Wyoming          | 18.66 | 1.32 | (49) | -14.98 <sup>c</sup> |
| Idaho            | 17.64 | 0.79 | (50) | -19.59 <sup>c</sup> |
| Utah             | 15.46 | 0.64 | (51) | -29.54 <sup>c</sup> |

| State         | Rate  | SE   | Rank | PD                  | State          | Rate  | SE   | Rank | PD                  |
|---------------|-------|------|------|---------------------|----------------|-------|------|------|---------------------|
| Alabama       | 24.19 | 0.51 | (09) | 10.25 <sup>c</sup>  | Montana        | 19.77 | 0.94 | (41) | -9.92               |
| Alaska        | 19.70 | 1.67 | (42) | -10.21 <sup>c</sup> | Nebraska       | 24.03 | 0.78 | (12) | 9.53                |
| Arizona       | 19.03 | 0.38 | (47) | -13.28 <sup>c</sup> | Nevada         | 23.11 | 0.72 | (19) | 5.31                |
| Arkansas      | 23.96 | 0.62 | (13) | 9.21                | New Hampshire  | 21.96 | 0.91 | (28) | 0.06                |
| California    | 19.22 | 0.17 | (46) | -12.39 <sup>c</sup> | New Jersey     | 24.12 | 0.36 | (11) | 9.91                |
| Colorado      | 19.80 | 0.51 | (40) | -9.75               | New Mexico     | 19.88 | 0.70 | (39) | -9.42               |
| Connecticut   | 20.15 | 0.51 | (37) | -8.18               | New York       | 22.10 | 0.23 | (26) | 0.73                |
| Delaware      | 23.22 | 1.13 | (18) | 5.84                | North Carolina | 21.61 | 0.36 | (34) | -1.50               |
| D.C.          | 26.16 | 1.55 | (03) | 19.21 <sup>c</sup>  | North Dakota   | 21.68 | 1.16 | (33) | -1.19               |
| Florida       | 19.52 | 0.20 | (44) | -11.05 <sup>c</sup> | Ohio           | 24.16 | 0.31 | (10) | 10.12 <sup>c</sup>  |
| Georgia       | 22.20 | 0.40 | (25) | 1.17                | Oklahoma       | 23.49 | 0.55 | (15) | 7.03                |
| Hawaii        | 20.06 | 0.80 | (38) | -8.57               | Oregon         | 19.55 | 0.49 | (43) | -10.92 <sup>c</sup> |
| Idaho         | 17.64 | 0.79 | (50) | -19.59 <sup>c</sup> | Pennsylvania   | 24.56 | 0.28 | (08) | 11.92 <sup>c</sup>  |
| Illinois      | 24.91 | 0.32 | (06) | 13.54 <sup>c</sup>  | Rhode Island   | 22.32 | 0.96 | (24) | 1.71                |
| Indiana       | 24.91 | 0.44 | (07) | 13.52 <sup>c</sup>  | South Carolina | 22.62 | 0.51 | (21) | 3.11                |
| Iowa          | 23.00 | 0.57 | (20) | 4.84                | South Dakota   | 21.74 | 1.07 | (32) | -0.94               |
| Kansas        | 21.95 | 0.60 | (29) | 0.05                | Tennessee      | 23.66 | 0.45 | (14) | 7.82                |
| Kentucky      | 26.20 | 0.56 | (02) | 19.38 <sup>c</sup>  | Texas          | 21.52 | 0.24 | (35) | -1.92               |
| Louisiana     | 27.56 | 0.57 | (01) | 25.62 <sup>c</sup>  | Utah           | 15.46 | 0.64 | (51) | -29.54 <sup>c</sup> |
| Maine         | 21.88 | 0.84 | (31) | -0.30               | Vermont        | 22.08 | 1.27 | (27) | 0.64                |
| Maryland      | 23.35 | 0.47 | (16) | 6.41                | Virginia       | 22.59 | 0.40 | (22) | 2.94                |
| Massachusetts | 22.33 | 0.40 | (23) | 1.76                | Washington     | 18.72 | 0.39 | (48) | -14.68 <sup>c</sup> |
| Michigan      | 21.88 | 0.32 | (30) | -0.28               | West Virginia  | 25.98 | 0.76 | (04) | 18.39 <sup>c</sup>  |
| Minnesota     | 19.27 | 0.43 | (45) | -12.18 <sup>c</sup> | Wisconsin      | 20.75 | 0.42 | (36) | -5.46               |
| Mississippi   | 25.01 | 0.66 | (05) | 13.96 <sup>c</sup>  | Wyoming        | 18.66 | 1.32 | (49) | -14.98 <sup>c</sup> |
| Missouri      | 23.33 | 0.43 | (17) | 6.32                |                |       |      |      |                     |



<sup>a</sup> US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
<sup>b</sup> Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).  
<sup>c</sup> Absolute percent difference between state rate and total U.S. rate is 10% or more.  
SE Standard error of the rate.  
PD Percent difference between state rate and total U.S. rate.

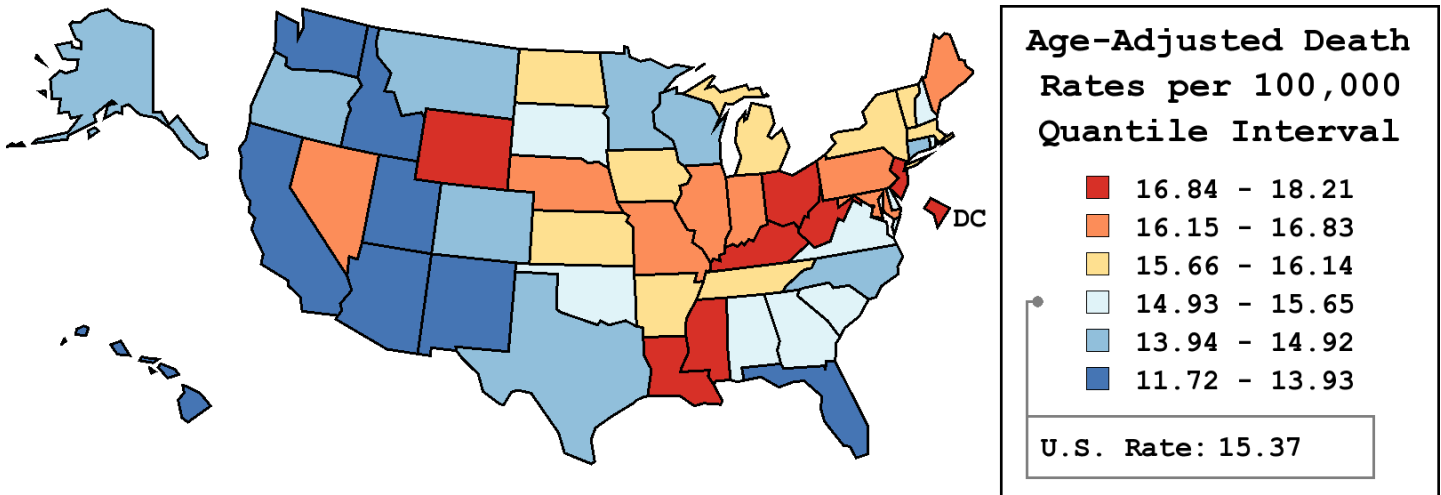
Table 6.24  
Cancer of the Colon and Rectum (Invasive)

Age-Adjusted Cancer Death<sup>a</sup> Rates By State, All Races, 2002-2006

Females

| State            | Rate  | SE   | Rank | PD                  |
|------------------|-------|------|------|---------------------|
| TOTAL U.S.       | 15.37 | 0.04 |      |                     |
| High Five States |       |      |      |                     |
| Kentucky         | 18.21 | 0.38 | (01) | 18.50 <sup>c</sup>  |
| West Virginia    | 18.07 | 0.53 | (02) | 17.61 <sup>c</sup>  |
| Louisiana        | 17.52 | 0.38 | (03) | 14.03 <sup>c</sup>  |
| Mississippi      | 17.49 | 0.46 | (04) | 13.83 <sup>c</sup>  |
| D.C.             | 17.45 | 1.01 | (05) | 13.55 <sup>c</sup>  |
| Low Five States  |       |      |      |                     |
| New Mexico       | 13.57 | 0.51 | (47) | -11.67 <sup>c</sup> |
| Idaho            | 13.44 | 0.61 | (48) | -12.57 <sup>c</sup> |
| Arizona          | 12.93 | 0.28 | (49) | -15.89 <sup>c</sup> |
| Utah             | 11.74 | 0.49 | (50) | -23.62 <sup>c</sup> |
| Hawaii           | 11.72 | 0.55 | (51) | -23.76 <sup>c</sup> |

| State         | Rate  | SE   | Rank | PD                  | State          | Rate  | SE   | Rank | PD                  |
|---------------|-------|------|------|---------------------|----------------|-------|------|------|---------------------|
| Alabama       | 15.18 | 0.33 | (30) | -1.24               | Montana        | 14.48 | 0.71 | (39) | -5.77               |
| Alaska        | 14.13 | 1.25 | (43) | -8.03               | Nebraska       | 16.31 | 0.55 | (13) | 6.11                |
| Arizona       | 12.93 | 0.28 | (49) | -15.89 <sup>c</sup> | Nevada         | 16.52 | 0.55 | (11) | 7.51                |
| Arkansas      | 16.10 | 0.43 | (18) | 4.79                | New Hampshire  | 15.14 | 0.63 | (32) | -1.48               |
| California    | 13.93 | 0.12 | (44) | -9.36               | New Jersey     | 17.19 | 0.25 | (06) | 11.85 <sup>c</sup>  |
| Colorado      | 14.54 | 0.36 | (38) | -5.40               | New Mexico     | 13.57 | 0.51 | (47) | -11.67 <sup>c</sup> |
| Connecticut   | 14.92 | 0.36 | (36) | -2.90               | New York       | 15.77 | 0.16 | (22) | 2.63                |
| Delaware      | 15.51 | 0.79 | (28) | 0.90                | North Carolina | 14.92 | 0.25 | (35) | -2.89               |
| D.C.          | 17.45 | 1.01 | (05) | 13.55 <sup>c</sup>  | North Dakota   | 16.14 | 0.87 | (17) | 5.01                |
| Florida       | 13.85 | 0.15 | (46) | -9.85               | Ohio           | 17.13 | 0.22 | (07) | 11.47 <sup>c</sup>  |
| Georgia       | 15.13 | 0.27 | (33) | -1.54               | Oklahoma       | 15.44 | 0.38 | (29) | 0.48                |
| Hawaii        | 11.72 | 0.55 | (51) | -23.76 <sup>c</sup> | Oregon         | 14.81 | 0.37 | (37) | -3.61               |
| Idaho         | 13.44 | 0.61 | (48) | -12.57 <sup>c</sup> | Pennsylvania   | 16.54 | 0.19 | (10) | 7.65                |
| Illinois      | 16.83 | 0.21 | (09) | 9.52                | Rhode Island   | 15.53 | 0.66 | (27) | 1.04                |
| Indiana       | 16.31 | 0.30 | (12) | 6.14                | South Carolina | 15.65 | 0.36 | (26) | 1.83                |
| Iowa          | 16.06 | 0.40 | (19) | 4.52                | South Dakota   | 15.13 | 0.77 | (34) | -1.54               |
| Kansas        | 15.72 | 0.43 | (24) | 2.28                | Tennessee      | 15.91 | 0.30 | (20) | 3.55                |
| Kentucky      | 18.21 | 0.38 | (01) | 18.50 <sup>c</sup>  | Texas          | 14.32 | 0.16 | (42) | -6.82               |
| Louisiana     | 17.52 | 0.38 | (03) | 14.03 <sup>c</sup>  | Utah           | 11.74 | 0.49 | (50) | -23.62 <sup>c</sup> |
| Maine         | 16.28 | 0.60 | (15) | 5.97                | Vermont        | 15.72 | 0.90 | (25) | 2.27                |
| Maryland      | 16.31 | 0.32 | (14) | 6.11                | Virginia       | 15.17 | 0.27 | (31) | -1.31               |
| Massachusetts | 15.86 | 0.27 | (21) | 3.21                | Washington     | 13.88 | 0.29 | (45) | -9.68               |
| Michigan      | 15.73 | 0.23 | (23) | 2.36                | West Virginia  | 18.07 | 0.53 | (02) | 17.61 <sup>c</sup>  |
| Minnesota     | 14.43 | 0.31 | (41) | -6.14               | Wisconsin      | 14.48 | 0.29 | (40) | -5.81               |
| Mississippi   | 17.49 | 0.46 | (04) | 13.83 <sup>c</sup>  | Wyoming        | 17.08 | 1.11 | (08) | 11.15 <sup>c</sup>  |
| Missouri      | 16.17 | 0.30 | (16) | 5.21                |                |       |      |      |                     |



<sup>a</sup> US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
<sup>b</sup> Difference between state rate and total U.S. rate is statistically significant ( $p \leq .0002$ ).  
<sup>c</sup> Absolute percent difference between state rate and total U.S. rate is 10% or more.  
SE Standard error of the rate.  
PD Percent difference between state rate and total U.S. rate.

Table 6.25  
Cancer of the Colon and Rectum (Invasive)

Estimated United States Cancer Prevalence Counts<sup>a</sup> on January 1, 2006  
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 | 25 to <30 | 0 to <16 <sup>e</sup> | 0 to <31 <sup>e</sup> | >=31 <sup>g</sup> | Complete <sup>h</sup> |
|--|------------|---------|----------|-----------|-----------|-----------|-----------|-----------------------|-----------------------|-------------------|-----------------------|
| <u>Race</u>                                | <u>Sex</u> |         |          |           |           |           |           |                       |                       |                   |                       |
| All Races <sup>b</sup>                     | Both Sexes | 410,878 | 263,947  | 164,750   | 114,290   | 67,504    | 37,785    | 866,951               | 1,063,937             | 40,165            | 1,104,102             |
|  | Males      | 207,419 | 131,746  | 80,079    | 56,122    | 30,135    | 15,092    | 432,913               | 522,508               | 14,436            | 536,944               |
|  | Females    | 203,459 | 132,201  | 84,671    | 58,168    | 37,369    | 22,693    | 434,038               | 541,429               | 25,729            | 567,158               |
| White <sup>b</sup>                         | Both Sexes | 348,874 | 230,188  | 144,309   | 100,824   | 60,586    | 33,731    | 747,384               | 922,890               | 35,761            | 958,651               |
|  | Males      | 178,455 | 115,778  | 70,634    | 50,227    | 27,060    | 13,523    | 376,890               | 457,468               | 12,995            | 470,463               |
|  | Females    | 170,419 | 114,410  | 73,675    | 50,597    | 33,526    | 20,208    | 370,494               | 465,422               | 22,766            | 488,188               |
| Black <sup>b</sup>                         | Both Sexes | 42,135  | 22,725   | 13,952    | 9,736     | 4,877     | 2,702     | 81,186                | 96,390                | 2,818             | 99,208                |
|  | Males      | 18,615  | 9,998    | 6,066     | 3,967     | 1,949     | 942       | 35,792                | 41,606                | 925               | 42,531                |
|  | Females    | 23,520  | 12,727   | 7,886     | 5,769     | 2,928     | 1,760     | 45,394                | 54,784                | 1,893             | 56,677                |
| Asian/<br>Pacific<br>Islander <sup>c</sup> | Both Sexes | 14,085  | 7,932    | 4,648     | +         | +         | +         | 27,330                | +                     | +                 | +                     |
|  | Males      | 7,267   | 4,156    | 2,376     | +         | +         | +         | 14,143                | +                     | +                 | +                     |
|  | Females    | 6,818   | 3,776    | 2,272     | +         | +         | +         | 13,187                | +                     | +                 | +                     |
| Hispanic <sup>d</sup>                      | Both Sexes | 22,853  | 11,699   | 6,712     | +         | +         | +         | 42,336                | +                     | +                 | +                     |
|  | Males      | 12,138  | 6,353    | 3,420     | +         | +         | +         | 22,391                | +                     | +                 | +                     |
|  | Females    | 10,715  | 5,346    | 3,292     | +         | +         | +         | 19,945                | +                     | +                 | +                     |

Estimated prevalence percent<sup>a</sup> on January 1, 2006, of the SEER 11 population diagnosed in the previous 16 years  
By Age at Prevalence, Race/Ethnicity and Sex

| Age at Prevalence                          |            | Age Specific (Crude) |     |         |         |         |         |         |         |         | Age-Adjusted <sup>f</sup> |          |
|--|------------|----------------------|-----|---------|---------|---------|---------|---------|---------|---------|---------------------------|----------|
|  |            | All Ages             | 0-9 | 10-19   | 20-29   | 30-39   | 40-49   | 50-59   | 60-69   | 70-79   | 80+                       | All Ages |
| <u>Race</u>                                | <u>Sex</u> |                      |     |         |         |         |         |         |         |         |                           |          |
| All Races <sup>c</sup>                     | Both Sexes | 0.2543%              | -   | 0.0003% | 0.0045% | 0.0223% | 0.0872% | 0.3008% | 0.7479% | 1.5006% | 2.1764%                   | 0.2665%  |
|  | Males      | 0.2585%              | -   | 0.0002% | 0.0042% | 0.0228% | 0.0915% | 0.3376% | 0.8840% | 1.8231% | 2.4866%                   | 0.3115%  |
|  | Females    | 0.2502%              | -   | 0.0004% | 0.0048% | 0.0218% | 0.0828% | 0.2658% | 0.6250% | 1.2517% | 2.0043%                   | 0.2318%  |
| White <sup>c</sup>                         | Both Sexes | 0.2675%              | -   | 0.0004% | 0.0048% | 0.0221% | 0.0845% | 0.2877% | 0.7362% | 1.5137% | 2.2204%                   | 0.2659%  |
|  | Males      | 0.2714%              | -   | 0.0003% | 0.0044% | 0.0227% | 0.0883% | 0.3280% | 0.8782% | 1.8385% | 2.5317%                   | 0.3118%  |
|  | Females    | 0.2636%              | -   | 0.0005% | 0.0052% | 0.0215% | 0.0806% | 0.2481% | 0.6046% | 1.2572% | 2.0496%                   | 0.2296%  |
| Black <sup>c</sup>                         | Both Sexes | 0.1990%              | -   | -       | 0.0031% | 0.0228% | 0.0971% | 0.3738% | 0.8986% | 1.5369% | 1.9071%                   | 0.2811%  |
|  | Males      | 0.1888%              | -   | -       | 0.0036% | 0.0227% | 0.1013% | 0.3968% | 0.9702% | 1.7753% | 2.0846%                   | 0.3102%  |
|  | Females    | 0.2083%              | -   | -       | 0.0026% | 0.0229% | 0.0935% | 0.3546% | 0.8428% | 1.3782% | 1.8211%                   | 0.2619%  |
| Asian/<br>Pacific<br>Islander <sup>c</sup> | Both Sexes | 0.2283%              | -   | -       | 0.0035% | 0.0218% | 0.0903% | 0.3087% | 0.6857% | 1.3575% | 1.9678%                   | 0.2479%  |
|  | Males      | 0.2425%              | -   | -       | 0.0038% | 0.0228% | 0.0975% | 0.3321% | 0.8247% | 1.6999% | 2.3356%                   | 0.2950%  |
|  | Females    | 0.2148%              | -   | -       | 0.0032% | 0.0208% | 0.0836% | 0.2880% | 0.5679% | 1.1064% | 1.7255%                   | 0.2125%  |
| Hispanic <sup>d</sup>                      | Both Sexes | 0.0948%              | -   | 0.0004% | 0.0033% | 0.0170% | 0.0651% | 0.2203% | 0.5743% | 1.0688% | 1.4087%                   | 0.1909%  |
|  | Males      | 0.0967%              | -   | -       | 0.0035% | 0.0168% | 0.0655% | 0.2493% | 0.6907% | 1.4129% | 1.5978%                   | 0.2301%  |
|  | Females    | 0.0928%              | -   | -       | 0.0032% | 0.0172% | 0.0647% | 0.1927% | 0.4756% | 0.8184% | 1.2988%                   | 0.1614%  |

<sup>a</sup> US 2006 cancer prevalence counts are based on 2006 cancer prevalence proportions from the SEER registries and 1/1/2006 US population estimates based on the average of 2005 and 2006 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) NHIA for Hispanic for SEER 11 Areas and Rural Georgia.

<sup>e</sup> Maximum limited-duration prevalence: 31 years for 1975-2006 SEER 9 data; 16 years for 1990-2006 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

<sup>f</sup> Percentages are age-adjusted to the 2000 US Standard Population (19 age groups - Census P25-1130) by 5-year age groups.

<sup>g h i</sup> (g) Cases diagnosed more than 31 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 <31 and >=31. (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.

Table 6.26

Cancer of the Colon And Rectum (Invasive)Percent Distribution and Counts by Histology among Histologically Confirmed Cases, 2002-2006  
Both Sexes by Race

| Histology <sup>a</sup>   | All Races |         | White   |         | Black  |         | Asian/Pacific<br>Islander |         | American Indian/<br>Alaska Native <sup>b</sup> |         | Hispanic <sup>c</sup> |         |
|--|-----------|---------|---------|---------|--------|---------|---------------------------|---------|--|---------|-----------------------|---------|
|  | Count     | Percent | Count   | Percent | Count  | Percent | Count                     | Percent | Count  | Percent | Count                 | Percent |
| Carcinoma  | 172,407   | 99.5%   | 140,950 | 99.5%   | 17,317 | 99.5%   | 11,977                    | 99.6%   | 761  | 99.0%   | 14,527                | 99.5%   |
| Epidermoid carcinoma <sup>d</sup><br>(8051-8131)   | 718       | 0.4%    | 605     | 0.4%    | 88     | 0.5%    | -                         | -       | -  | -       | 73                    | 0.5%    |
| Squamous cell carcinoma<br>(8070-8078,8083-8084)   | 651       | 0.4%    | 546     | 0.4%    | 83     | 0.5%    | -                         | -       | -  | -       | 64                    | 0.4%    |
| Adenocarcinoma<br>(8050,8140-8147,<br>8160-8162,8180-8221,<br>8250-8507,8520-8551,8560,<br>8570-8574,8576,8940-8941)                 | 164,141   | 94.8%   | 134,904 | 95.3%   | 16,130 | 92.7%   | 11,294                    | 93.9%   | 700  | 91.0%   | 13,602                | 93.1%   |
| Adenocarcinoma, NOS<br>(8140)  | 113,323   | 65.4%   | 92,843  | 65.6%   | 11,258 | 64.7%   | 8,110                     | 67.4%   | 527  | 68.5%   | 9,339                 | 64.0%   |
| Adenocarcinoma in<br>adenomatous polyp (8210)  | 11,108    | 6.4%    | 9,033   | 6.4%    | 955    | 5.5%    | 883                       | 7.3%    | 49   | 6.4%    | 845                   | 5.8%    |
| Adenocarcinoma in<br>villous adenoma (8261)  | 5,546     | 3.2%    | 4,589   | 3.2%    | 558    | 3.2%    | 332                       | 2.8%    | -  | -       | 548                   | 3.8%    |
| Mucinous adenocarcinoma<br>(8470-8473,8480,8482)   | 13,213    | 7.6%    | 11,196  | 7.9%    | 1,177  | 6.8%    | 735                       | 6.1%    | 51   | 6.6%    | 1,179                 | 8.1%    |
| Mucin-producing<br>adenocarcinoma (8481)   | 4,345     | 2.5%    | 3,548   | 2.5%    | 557    | 3.2%    | 212                       | 1.8%    | -  | -       | 338                   | 2.3%    |
| Signet ring<br>adenocarcinoma (8490)   | 2,047     | 1.2%    | 1,739   | 1.2%    | 156    | 0.9%    | 138                       | 1.1%    | -  | -       | 178                   | 1.2%    |
| Other adenocarcinomas <sup>e</sup>   | 14,559    | 8.4%    | 11,956  | 8.4%    | 1,469  | 8.4%    | 884                       | 7.3%    | 43   | 5.6%    | 1,175                 | 8.0%    |
| Other specific carcinomas<br>(8012-8015,8030-8046,<br>8150-8155,8170-8175,<br>8230-8249,8508,8510-8513,<br>8561-8562,8575,8580-8671) | 5,919     | 3.4%    | 4,108   | 2.9%    | 927    | 5.3%    | 575                       | 4.8%    | 50   | 6.5%    | 693                   | 4.7%    |
| Neuroendocrine carcinoid<br>(8240-8245)  | 4,986     | 2.9%    | 3,324   | 2.3%    | 843    | 4.8%    | 523                       | 4.3%    | 45   | 5.9%    | 613                   | 4.2%    |
| Other <sup>f</sup>   | 933       | 0.5%    | 784     | 0.6%    | 84     | 0.5%    | 52                        | 0.4%    | -  | -       | 80                    | 0.5%    |
| Unspecified, Carcinoma, NOS<br>(8010-8011, 8020-8022)  | 1,629     | 0.9%    | 1,333   | 0.9%    | 172    | 1.0%    | 98                        | 0.8%    | -  | -       | 159                   | 1.1%    |

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Percents may not sum to 100 due to rounding.

<sup>a</sup> Excludes Kaposi Sarcoma, mesothelioma, lymphomas, leukemias, myelomas, lymphoreticular, and immunoproliferative diseases.

<sup>b</sup> Estimates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

<sup>c</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

<sup>d</sup> Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

<sup>e</sup> Epidermoid carcinoma includes squamous, basal, and transitional cell carcinomas.

<sup>f</sup> Includes histologies 8050, 8141-8147, 8160-8162, 8180-8204, 8211-8221, 8250-8260, 8262-8264, 8270-8463, 8500-8507, 8514, 8520-8551, 8560, 8570-8574, 8576, 8940-8941.

<sup>f</sup> Includes histologies 8012-8015, 8030-8046, 8150-8155, 8170-8175, 8230-8231, 8246-8249, 8508, 8510-8513, 8561-8562, 8575, 8580-8671.

- Statistic not shown due to fewer than 16 cases during the time period.

Table 6.26 - continued

Cancer of the Colon And Rectum (Invasive)Percent Distribution and Counts by Histology among Histologically Confirmed Cases, 2002-2006  
Both Sexes by Race

| Histology <sup>a</sup>  | All Races |         | White   |         | Black  |         | Asian/Pacific Islander |         | American Indian/<br>Alaska Native <sup>b</sup> |         | Hispanic <sup>c</sup> |         |
|---|-----------|---------|---------|---------|--------|---------|------------------------|---------|--|---------|-----------------------|---------|
|   | Count     | Percent | Count   | Percent | Count  | Percent | Count                  | Percent | Count  | Percent | Count                 | Percent |
| Sarcoma and other soft tissue tumors (8680-8713,8800-8921, 8990-8991,9040-9044, 9120-9136,9150-9252, 9370-9373,9540-9582) | 94        | 0.1%    | 73      | 0.1%    | -      | -       | -                      | -       | -  | -       | -                     | -       |
| Other specific types (8720-8790,8930-8936, 8950-8983,9000-9030, 9060-9110,9260-9365, 9380-9539)                           | 216       | 0.1%    | 168     | 0.1%    | 23     | 0.1%    | 23                     | 0.2%    | -  | -       | 18                    | 0.1%    |
| Unspecified (8000-8005)   | 513       | 0.3%    | 427     | 0.3%    | 50     | 0.3%    | 22                     | 0.2%    | -  | -       | 48                    | 0.3%    |
| Total <sup>d</sup>  | 173,230   | 100.0%  | 141,618 | 100.0%  | 17,401 | 100.0%  | 12,029                 | 100.0%  | 769  | 100.0%  | 14,603                | 100.0%  |

Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey). Percents may not sum to 100 due to rounding.

<sup>a</sup> Excludes Kaposi Sarcoma, mesothelioma, lymphomas, leukemias, myelomas, lymphoreticular, and immunoproliferative diseases.

<sup>b</sup> Estimates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

<sup>c</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Underlying incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

<sup>d</sup> Total includes carcinoma cases from the previous page.

- Statistic not shown due to fewer than 16 cases during the time period.



# SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates<sup>a</sup> Cancer of the Colon and Rectum, by Race and Sex

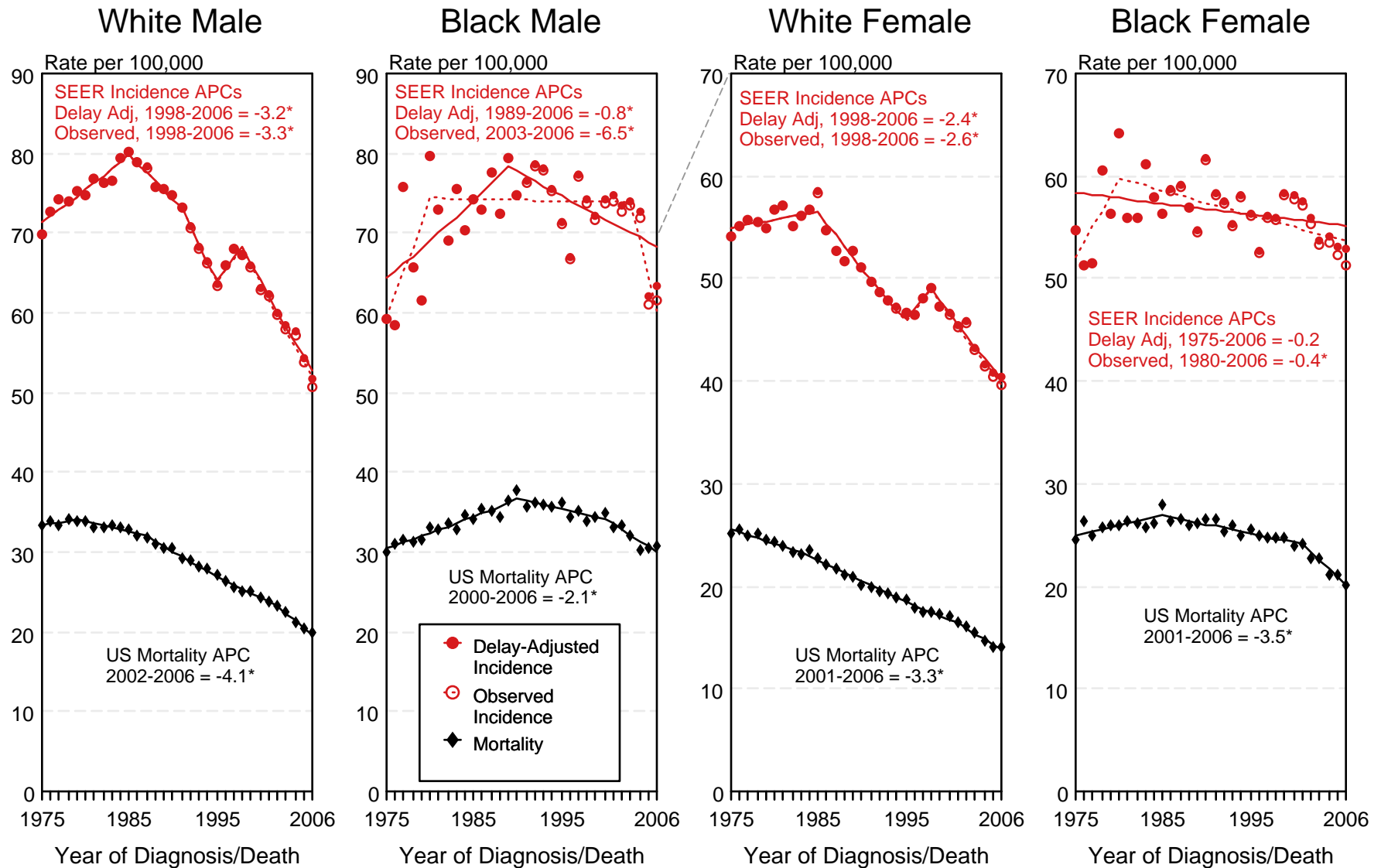


Figure 6.1

<sup>a</sup> Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC). 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 3.3.1, April 2008, 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 ( $p < 0.05$ ).

# SEER Incidence and US Death Rates<sup>a</sup> Cancer of the Colon and Rectum, Both Sexes

## Joinpoint Analyses for Whites and Blacks from 1975-2006 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2006

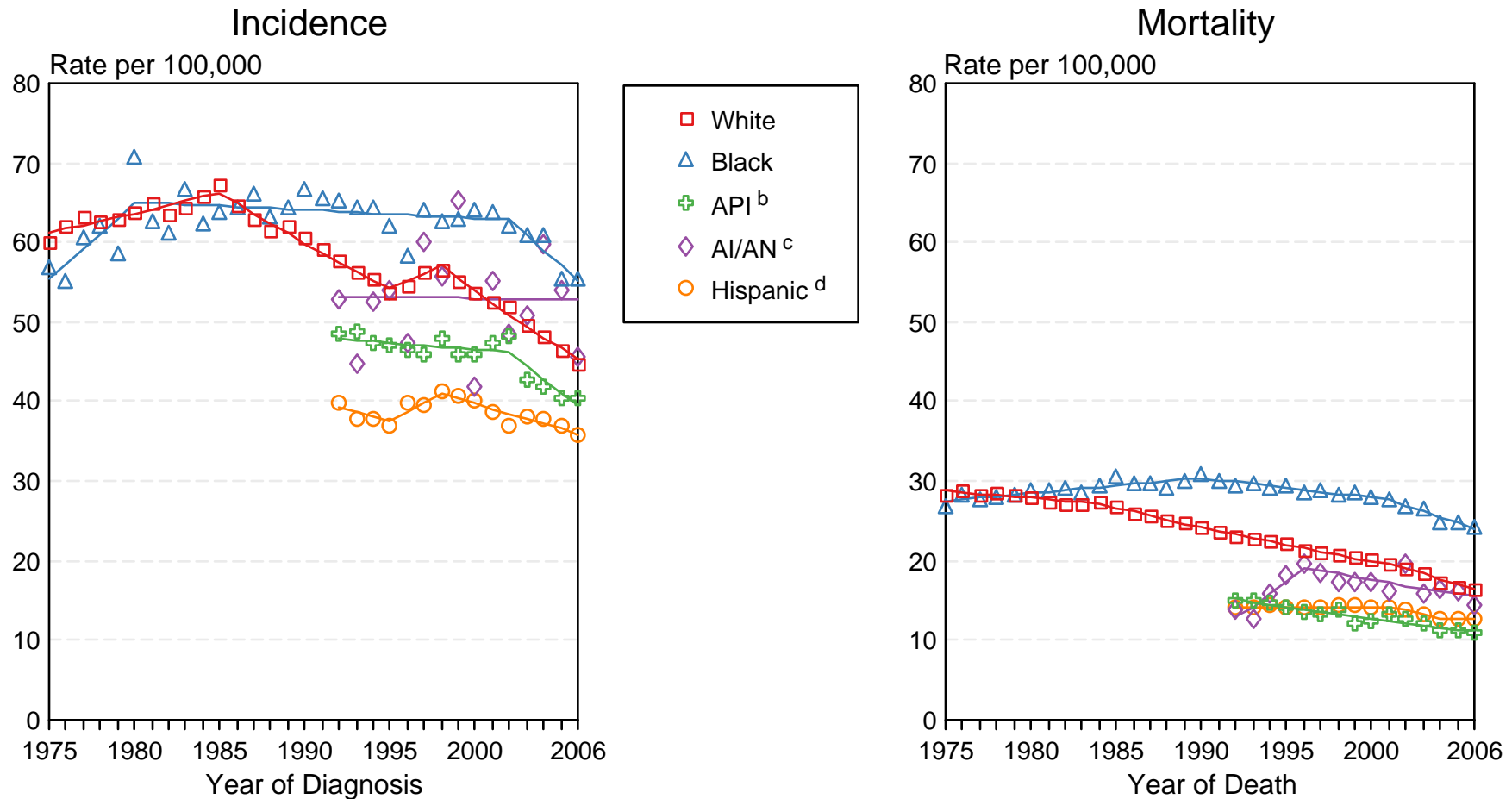


Figure 6.2

Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 13 Areas (SEER 9 Areas, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

<sup>a</sup> Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

Regression lines are calculated using the Joinpoint Regression Program Version 3.3.1, April 2008, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2006 period allow a maximum of 4 joinpoints. Analyses for other ethnic groups during the period 1992-2006 allow a maximum of 2 joinpoints.

<sup>b</sup> API = Asian/Pacific Islander.

<sup>c</sup> AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

<sup>d</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. Mortality data for Hispanics exclude cases from Connecticut, the District of Columbia, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma, and Vermont.

# SEER Observed Incidence and SEER Delay Adjusted Incidence Rates<sup>a</sup> SEER 9 Areas Compared to SEER 13 Areas Cancer of the Colon and Rectum, Male, by Race

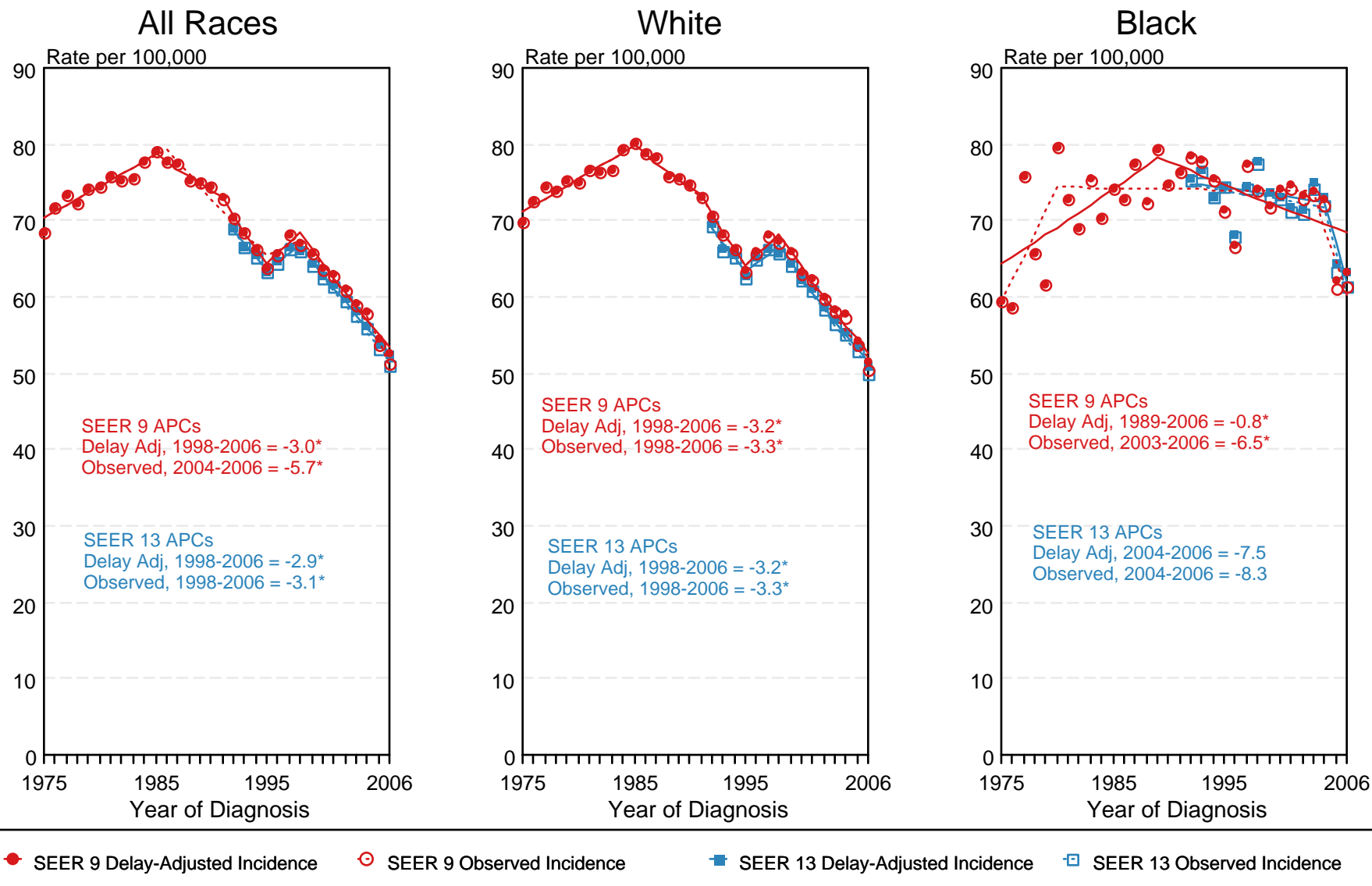


Figure 6.3

<sup>a</sup> Source: SEER 9 areas and SEER 13 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 3.3.1, April 2008, 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 ( $p < 0.05$ ).

# SEER Observed Incidence and SEER Delay Adjusted Incidence Rates<sup>a</sup> SEER 9 Areas Compared to SEER 13 Areas Cancer of the Colon and Rectum, Female, by Race

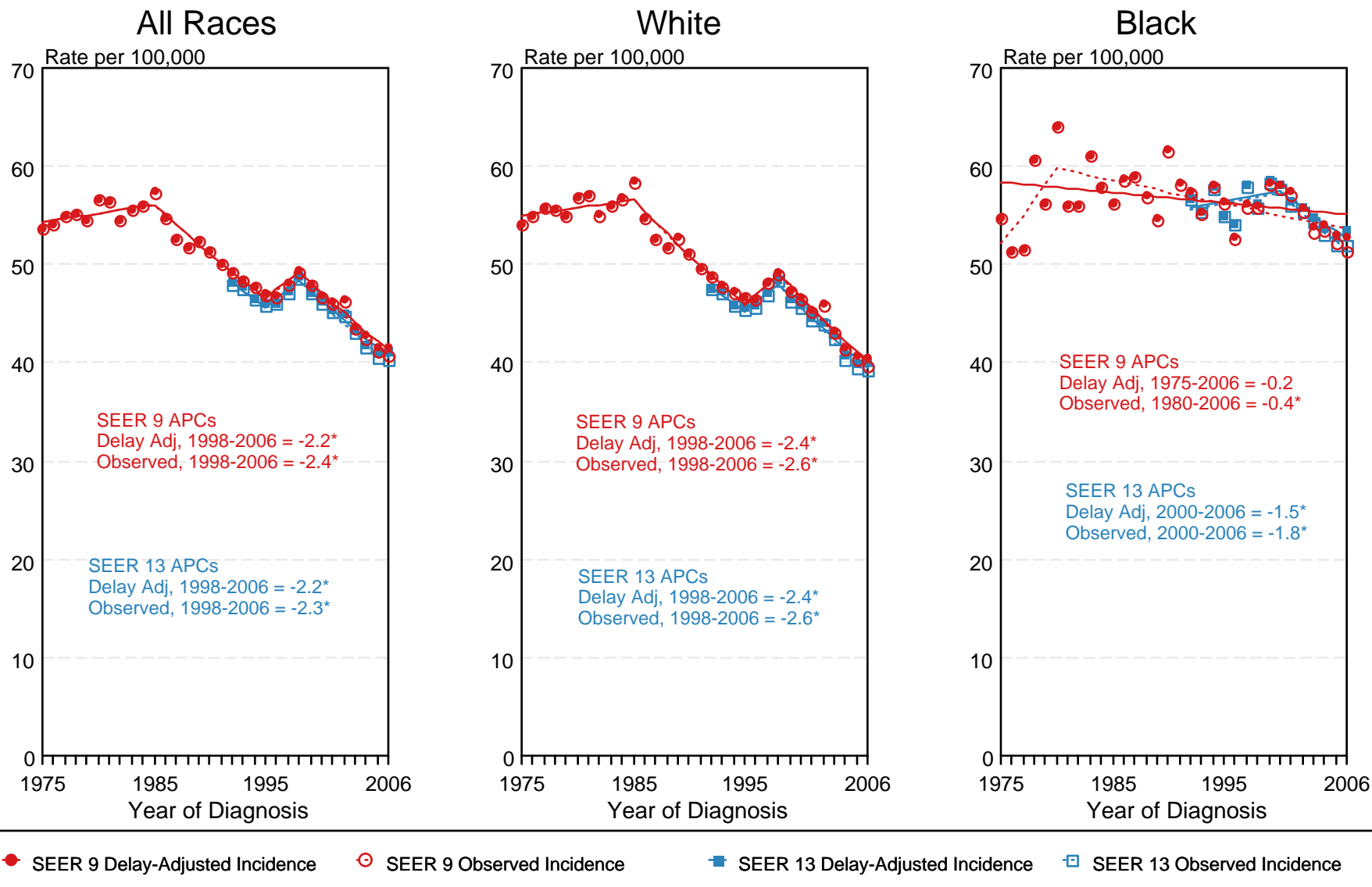


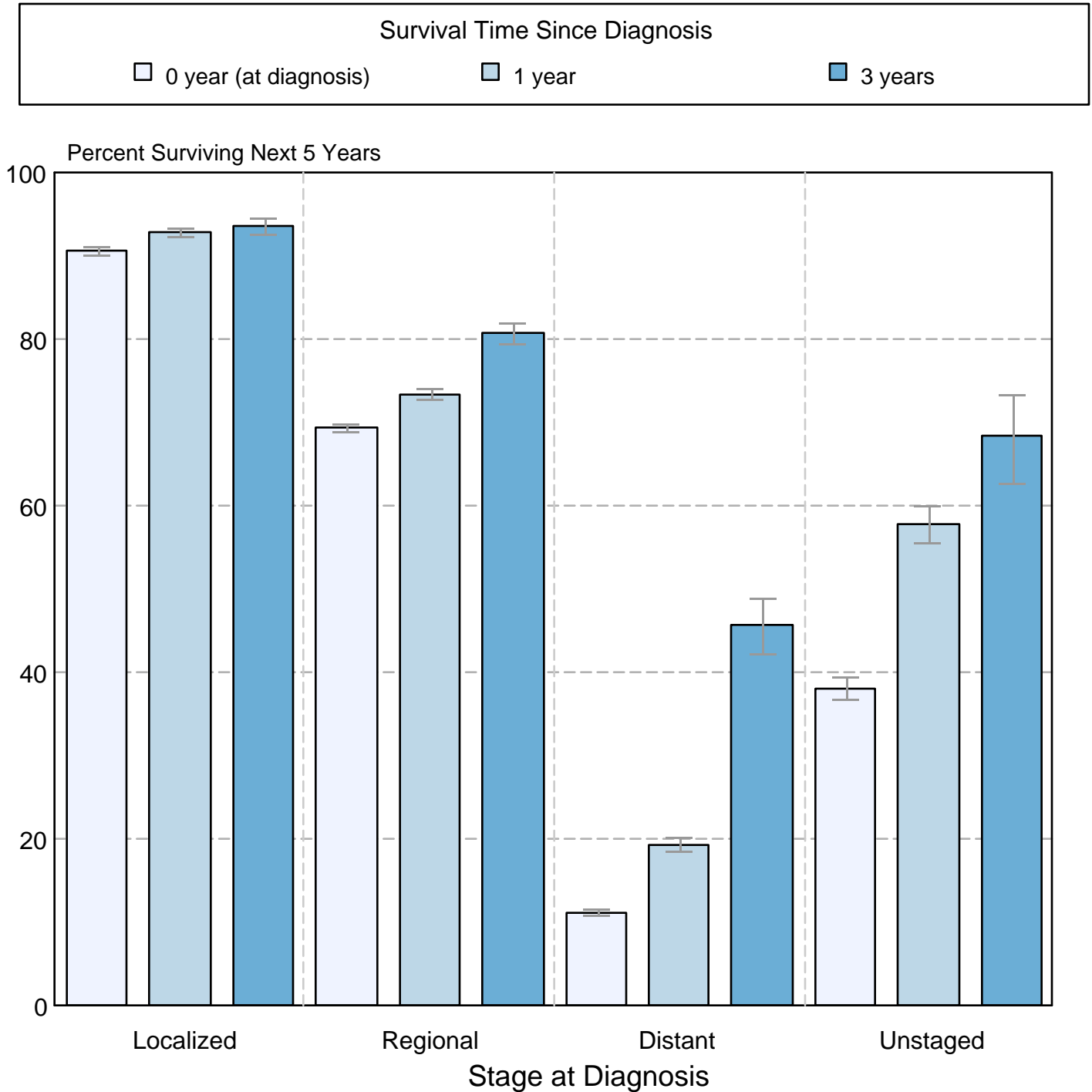
Figure 6.4

<sup>a</sup> Source: SEER 9 areas and SEER 13 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 3.3.1, April 2008, 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 ( $p < 0.05$ ).

Figure 6.5

## Cancer of the Colon and Rectum 5-Year SEER Conditional Relative Survival Rates and 95% Confidence Intervals

Probability of surviving the next 5 years given the cohort  
has already survived 0, 1, or 3 years  
1998-2005 by stage at diagnosis



Source: SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, and New Jersey). California excluding SF/SJM/LA, Kentucky, Louisiana, and New Jersey contribute cases for diagnosis years 2000-2006. The remaining 13 SEER Areas contribute cases for the entire period 1998-2005. Percent surviving is not shown if based on less than 25 cases. Confidence intervals are not shown if length of the confidence interval is greater than 5 times the standard error.