Table 23.1
Cancer of the Prostate (Invasive)

Trends in SEER Incidence[ab] and U.S. Mortality[c] Using the Joinpoint Regression Program,
1975-2010 With up to Five Joinpoints, 1992-2010 With up to Three Joinpoints,
All Ages by Race/Ethnicity

| | JP Trend 1 | | JP Trend 2 | | JP Trend 3 | | JP Trend 4 | | JP Trend 5 | | JP Trend 6 | | AAPC[d] | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | 2001-10 | 2006-10 |
| **SEER 9 Delay-Adjusted Incidence[a], 1975-2010** | | | | | | | | | | | | | | |
| All Races | 1975-88 | 2.6* | 1988-92 | 16.5* | 1992-95 | -11.7* | 1995-00 | 2.4 | 2000-10 | -1.8* | | | -1.8* | -1.8* |
| White | 1975-88 | 2.8* | 1988-92 | 16.3* | 1992-95 | -12.8* | 1995-00 | 2.9 | 2000-10 | -1.9* | | | -1.9* | -1.9* |
| Black | 1975-89 | 2.1* | 1989-92 | 19.2* | 1992-10 | -1.6* | | | | | | | -1.6* | -1.6* |
| **SEER 13 Delay-Adjusted Incidence[b], 1992-2010** | | | | | | | | | | | | | | |
| All Races | 1992-95 | -11.2* | 1995-00 | 2.2 | 2000-10 | -2.0* | | | | | | | -2.0* | -2.0* |
| White | 1992-95 | -12.2* | 1995-00 | 2.6 | 2000-10 | -2.0* | | | | | | | -2.0* | -2.0* |
| Black | 1992-10 | -1.8* | | | | | | | | | | | -1.8* | -1.8* |
| **SEER 9 Observed Incidence[a], 1975-2010** | | | | | | | | | | | | | | |
| All Races | 1975-88 | 2.6* | 1988-92 | 16.5* | 1992-95 | -11.6* | 1995-00 | 2.4 | 2000-10 | -2.0* | | | -2.0* | -2.0* |
| White | 1975-88 | 2.8* | 1988-92 | 16.3* | 1992-95 | -12.3* | 1995-01 | 2.1 | 2001-10 | -2.5* | | | -2.5* | -2.5* |
| Black | 1975-89 | 2.1* | 1989-92 | 19.3* | 1992-10 | -1.8* | | | | | | | -1.8* | -1.8* |
| **SEER 13 Observed Incidence[b], 1992-2010** | | | | | | | | | | | | | | |
| All Races | 1992-95 | -11.2* | 1995-00 | 2.2 | 2000-10 | -2.2* | | | | | | | -2.2* | -2.2* |
| White | 1992-95 | -11.7* | 1995-01 | 1.9 | 2001-10 | -2.6* | | | | | | | -2.6* | -2.6* |
| White NH[ef] | 1992-94 | -17.3* | 1994-01 | 1.0 | 2001-10 | -2.3* | | | | | | | -2.3* | -2.3* |
| Black | 1992-10 | -2.0* | | | | | | | | | | | -2.0* | -2.0* |
| Black NH[ef] | 1992-10 | -1.9* | | | | | | | | | | | -1.9* | -1.9* |
| API[e] | 1992-97 | -6.3* | 1997-00 | 5.4 | 2000-07 | -1.8* | 2007-10 | -7.3* | | | | | -3.7* | -5.9* |
| AI/AN[eg] | 1992-10 | -1.6* | | | | | | | | | | | -1.6* | -1.6* |
| Hispanic[f] | 1992-95 | -4.9 | 1995-02 | 0.9 | 2002-10 | -3.2* | | | | | | | -2.8* | -3.2* |
| **U.S. Cancer Mortality[c], 1975-2010** | | | | | | | | | | | | | | |
| All Races | 1975-87 | 0.9* | 1987-91 | 3.1* | 1991-94 | -0.8 | 1994-04 | -3.8* | 2004-10 | -3.1* | | | -3.3* | -3.1* |
| White | 1975-87 | 0.8* | 1987-91 | 3.1* | 1991-94 | -0.7 | 1994-99 | -4.3* | 1999-10 | -3.3* | | | -3.3* | -3.3* |
| Black | 1975-88 | 1.9* | 1988-93 | 3.2* | 1993-00 | -2.6* | 2000-10 | -3.7* | | | | | -3.7* | -3.7* |
| **U.S. Cancer Mortality[c], 1992-2010** | | | | | | | | | | | | | | |
| All Races | 1992-94 | -1.0 | 1994-04 | -3.8* | 2004-10 | -3.1* | | | | | | | -3.3* | -3.1* |
| White | 1992-94 | -0.7 | 1994-99 | -4.3* | 1999-10 | -3.3* | | | | | | | -3.3* | -3.3* |
| White NH[ef] | 1992-94 | -1.0 | 1994-01 | -4.1* | 2001-10 | -3.2* | | | | | | | -3.2* | -3.2* |
| Black | 1992-96 | -0.7 | 1996-10 | -3.5* | | | | | | | | | -3.5* | -3.5* |
| Black NH[ef] | 1992-96 | -0.7 | 1996-10 | -3.4* | | | | | | | | | -3.4* | -3.4* |
| API[e] | 1992-10 | -3.5* | | | | | | | | | | | -3.5* | -3.5* |
| AI/AN[eg] | 1992-10 | -1.7* | | | | | | | | | | | -1.7* | -1.7* |
| Hispanic[f] | 1992-10 | -2.5* | | | | | | | | | | | -2.5* | -2.5* |

Joinpoint Regression Program Version 4.0.3, April 2013, National Cancer Institute. (http://surveillance.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).
[a] Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
[b] Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).
[c] Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
[d] The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.
[e] API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic
[f] 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, SC, OK and VT.
[g] 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 23.2
Cancer of the Prostate (Invasive)

Trends in SEER Incidence[ab] and U.S. Mortality[c] Using the Joinpoint Regression Program,
1975-2010 With up to Five Joinpoints, 1992-2010 With up to Three Joinpoints,
Ages <65 by Race/Ethnicity

| | JP Trend 1 | | JP Trend 2 | | JP Trend 3 | | JP Trend 4 | | JP Trend 5 | | JP Trend 6 | | AAPC[d] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | 2001-10 | 2006-10 |
| **SEER 9 Delay-Adjusted Incidence[a], 1975-2010** | | | | | | | | | | | | | | |
| All Races | 1975-88 | 3.1* | 1988-92 | 23.3* | 1992-01 | 3.4* | 2001-10 | -0.2 | | | | | -0.2 | -0.2 |
| White | 1975-88 | 3.6* | 1988-92 | 22.7* | 1992-01 | 3.3* | 2001-10 | -0.3 | | | | | -0.3 | -0.3 |
| Black | 1975-89 | 2.0* | 1989-93 | 26.1* | 1993-01 | 2.7* | 2001-10 | -0.5 | | | | | -0.5 | -0.5 |
| **SEER 13 Delay-Adjusted Incidence[b], 1992-2010** | | | | | | | | | | | | | | |
| All Races | 1992-01 | 3.4* | 2001-10 | -0.6 | | | | | | | | | -0.6 | -0.6 |
| White | 1992-01 | 3.4* | 2001-10 | -0.6 | | | | | | | | | -0.6 | -0.6 |
| Black | 1992-00 | 3.8* | 2000-10 | -0.6 | | | | | | | | | -0.6 | -0.6 |
| **SEER 9 Observed Incidence[a], 1975-2010** | | | | | | | | | | | | | | |
| All Races | 1975-88 | 3.1* | 1988-92 | 23.2* | 1992-01 | 3.4* | 2001-10 | -0.4 | | | | | -0.4 | -0.4 |
| White | 1975-88 | 3.5* | 1988-92 | 23.1* | 1992-02 | 3.0* | 2002-10 | -0.9 | | | | | -0.5 | -0.9 |
| Black | 1975-89 | 2.0* | 1989-93 | 26.1* | 1993-01 | 2.7* | 2001-10 | -0.9 | | | | | -0.9 | -0.9 |
| **SEER 13 Observed Incidence[b], 1992-2010** | | | | | | | | | | | | | | |
| All Races | 1992-01 | 3.4* | 2001-10 | -0.7 | | | | | | | | | -0.7 | -0.7 |
| White | 1992-01 | 3.4* | 2001-10 | -0.9 | | | | | | | | | -0.9 | -0.9 |
| White NH[ef] | 1992-01 | 3.4* | 2001-10 | -0.8 | | | | | | | | | -0.8 | -0.8 |
| Black | 1992-00 | 3.8* | 2000-10 | -0.9 | | | | | | | | | -0.9 | -0.9 |
| Black NH[ef] | 1992-00 | 3.8* | 2000-10 | -0.8 | | | | | | | | | -0.8 | -0.8 |
| API[e] | 1992-01 | 6.3* | 2001-10 | -0.1 | | | | | | | | | -0.1 | -0.1 |
| AI/AN[eg] | 1992-10 | -0.9 | | | | | | | | | | | -0.9 | -0.9 |
| Hispanic[f] | 1992-02 | 4.5* | 2002-10 | -1.7* | | | | | | | | | -1.0* | -1.7* |
| **U.S. Cancer Mortality[c], 1975-2010** | | | | | | | | | | | | | | |
| All Races | 1975-87 | 0.5* | 1987-90 | 3.0 | 1990-96 | -3.2* | 1996-00 | -5.9* | 2000-10 | -1.3* | | | -1.3* | -1.3* |
| White | 1975-87 | 0.7* | 1987-90 | 3.0 | 1990-96 | -3.6* | 1996-00 | -6.2* | 2000-10 | -1.1* | | | -1.1* | -1.1* |
| Black | 1975-92 | 0.6* | 1992-07 | -3.2* | 2007-10 | -0.6 | | | | | | | -2.3* | -1.2 |
| **U.S. Cancer Mortality[c], 1992-2010** | | | | | | | | | | | | | | |
| All Races | 1992-01 | -4.5* | 2001-10 | -1.2* | | | | | | | | | -1.2* | -1.2* |
| White | 1992-01 | -4.7* | 2001-10 | -1.0* | | | | | | | | | -1.0* | -1.0* |
| White NH[ef] | 1992-01 | -4.8* | 2001-10 | -0.7* | | | | | | | | | -0.7* | -0.7* |
| Black | 1992-06 | -3.4* | 2006-10 | -1.0 | | | | | | | | | -2.3* | -1.0 |
| Black NH[ef] | 1992-10 | -3.0* | | | | | | | | | | | -3.0* | -3.0* |
| API[e] | 1992-10 | -0.7 | | | | | | | | | | | -0.7 | -0.7 |
| AI/AN[eg] | 1992-10 | -3.5* | | | | | | | | | | | -3.5* | -3.5* |
| Hispanic[f] | 1992-10 | -2.7* | | | | | | | | | | | -2.7* | -2.7* |

Joinpoint Regression Program Version 4.0.3, April 2013, National Cancer Institute. (http://surveillance.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).
[a] Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
[b] Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).
[c] Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
[d] The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.
[e] API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic
[f] 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, SC, OK and VT.
[g] 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 23.3
Cancer of the Prostate (Invasive)

Trends in SEER Incidence[a,b] and U.S. Mortality[c] Using the Joinpoint Regression Program,
1975-2010 With up to Five Joinpoints, 1992-2010 With up to Three Joinpoints,
Ages 65+ by Race/Ethnicity

| | JP Trend 1 | | JP Trend 2 | | JP Trend 3 | | JP Trend 4 | | JP Trend 5 | | JP Trend 6 | | AAPC[d] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | 2001-10 | 2006-10 |
| **SEER 9 Delay-Adjusted Incidence[a], 1975-2010** | | | | | | | | | | | | | | |
| All Races | 1975-88 | 2.5* | 1988-92 | 15.1* | 1992-95 | -15.0* | 1995-00 | 1.4 | 2000-10 | -2.6* | | | -2.6* | -2.6* |
| White | 1975-88 | 2.7* | 1988-92 | 15.0* | 1992-95 | -16.0* | 1995-00 | 2.0 | 2000-10 | -2.7* | | | -2.7* | -2.7* |
| Black | 1975-89 | 2.0* | 1989-92 | 19.9* | 1992-95 | -8.7* | 1995-10 | -2.3* | | | | | -2.3* | -2.3* |
| **SEER 13 Delay-Adjusted Incidence[b], 1992-2010** | | | | | | | | | | | | | | |
| All Races | 1992-95 | -14.3* | 1995-00 | 1.1 | 2000-10 | -2.7* | | | | | | | -2.7* | -2.7* |
| White | 1992-95 | -15.3* | 1995-00 | 1.7 | 2000-10 | -2.7* | | | | | | | -2.7* | -2.7* |
| Black | 1992-95 | -8.0* | 1995-10 | -2.6* | | | | | | | | | -2.6* | -2.6* |
| **SEER 9 Observed Incidence[a], 1975-2010** | | | | | | | | | | | | | | |
| All Races | 1975-88 | 2.5* | 1988-92 | 15.1* | 1992-95 | -14.9* | 1995-00 | 1.4 | 2000-10 | -2.8* | | | -2.8* | -2.8* |
| White | 1975-88 | 2.7* | 1988-92 | 14.9* | 1992-95 | -15.9* | 1995-00 | 1.9 | 2000-10 | -3.1* | | | -3.1* | -3.1* |
| Black | 1975-89 | 2.0* | 1989-92 | 19.9* | 1992-95 | -8.6 | 1995-10 | -2.6* | | | | | -2.6* | -2.6* |
| **SEER 13 Observed Incidence[b], 1992-2010** | | | | | | | | | | | | | | |
| All Races | 1992-95 | -14.2* | 1995-00 | 1.1 | 2000-10 | -2.9* | | | | | | | -2.9* | -2.9* |
| White | 1992-95 | -14.9* | 1995-01 | 1.0 | 2001-10 | -3.3* | | | | | | | -3.3* | -3.3* |
| White NH[e,f] | 1992-95 | -15.6* | 1995-00 | 1.7 | 2000-10 | -3.0* | | | | | | | -3.0* | -3.0* |
| Black | 1992-10 | -3.4* | | | | | | | | | | | -3.4* | -3.4* |
| Black NH[e,f] | 1992-95 | -7.9* | 1995-10 | -2.9* | | | | | | | | | -2.9* | -2.9* |
| API[e] | 1992-97 | -7.8* | 1997-00 | 4.3 | 2000-07 | -2.5* | 2007-10 | -8.8* | | | | | -4.7* | -7.3* |
| AI/AN[e,g] | 1992-10 | -1.9* | | | | | | | | | | | -1.9* | -1.9* |
| Hispanic[f] | 1992-95 | -6.2* | 1995-04 | -0.7 | 2004-10 | -4.6* | | | | | | | -3.3* | -4.6* |
| **U.S. Cancer Mortality[c], 1975-2010** | | | | | | | | | | | | | | |
| All Races | 1975-87 | 0.9* | 1987-90 | 3.3* | 1990-93 | 1.3 | 1993-10 | -3.6* | | | | | -3.6* | -3.6* |
| White | 1975-87 | 0.8* | 1987-91 | 3.2* | 1991-94 | -0.5 | 1994-98 | -4.4* | 1998-10 | -3.5* | | | -3.5* | -3.5* |
| Black | 1975-94 | 2.3* | 1994-01 | -2.8* | 2001-10 | -3.9* | | | | | | | -3.9* | -3.9* |
| **U.S. Cancer Mortality[c], 1992-2010** | | | | | | | | | | | | | | |
| All Races | 1992-94 | -1.2 | 1994-10 | -3.6* | | | | | | | | | -3.6* | -3.6* |
| White | 1992-94 | -0.6 | 1994-98 | -4.4* | 1998-10 | -3.5* | | | | | | | -3.5* | -3.5* |
| White NH[e,f] | 1992-94 | -1.1 | 1994-04 | -3.9* | 2004-10 | -3.2* | | | | | | | -3.4* | -3.2* |
| Black | 1992-96 | -0.4 | 1996-10 | -3.6* | | | | | | | | | -3.6* | -3.6* |
| Black NH[e,f] | 1992-96 | -0.4 | 1996-10 | -3.4* | | | | | | | | | -3.4* | -3.4* |
| API[e] | 1992-10 | -3.6* | | | | | | | | | | | -3.6* | -3.6* |
| AI/AN[e,g] | 1992-10 | -1.6* | | | | | | | | | | | -1.6* | -1.6* |
| Hispanic[f] | 1992-10 | -2.5* | | | | | | | | | | | -2.5* | -2.5* |

Joinpoint Regression Program Version 4.0.3, April 2013, National Cancer Institute. (http://surveillance.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).
[a] Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
[b] Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).
[c] Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
[d] The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.
[e] API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic
[f] 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, SC, OK and VT.
[g] 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.

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Table 23.4
Cancer of the Prostate (Invasive)

Delay-adjusted SEER Incidenceª Rates by Year, Race and Age
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| Year of Diagnosis: | All Races, Males | | | White Males | | | Black Males | | |
|---|---|---|---|---|---|---|---|---|---|
| | All | <65 | 65+ | All | <65 | 65+ | All | <65 | 65+ |
| 1975 | 94.00 | 13.67 | 649.33 | 92.18 | 13.02 | 639.37 | 141.07 | 26.76 | 931.22 |
| 1976 | 97.93 | 14.62 | 673.84 | 97.33 | 13.93 | 673.83 | 140.61 | 29.69 | 907.29 |
| 1977 | 100.49 | 15.04 | 691.09 | 98.56 | 14.35 | 680.68 | 159.16 | 29.24 | 1,057.18 |
| 1978 | 99.40 | 15.21 | 681.33 | 97.73 | 14.79 | 671.05 | 148.11 | 26.83 | 986.42 |
| 1979 | 103.44 | 14.98 | 714.91 | 102.31 | 14.68 | 708.01 | 162.31 | 26.35 | 1,102.12 |
| 1980 | 106.03 | 15.52 | 731.66 | 104.98 | 14.69 | 729.10 | 161.14 | 33.79 | 1,041.42 |
| 1981 | 108.91 | 16.85 | 745.32 | 107.92 | 15.98 | 743.44 | 161.86 | 34.55 | 1,041.86 |
| 1982 | 108.25 | 16.35 | 743.52 | 107.37 | 15.80 | 740.32 | 167.65 | 31.32 | 1,109.97 |
| 1983 | 111.63 | 17.16 | 764.68 | 110.85 | 16.60 | 762.28 | 170.92 | 34.03 | 1,117.18 |
| 1984 | 111.73 | 17.26 | 764.70 | 110.15 | 16.22 | 759.39 | 178.84 | 37.09 | 1,158.62 |
| 1985 | 115.57 | 17.91 | 790.62 | 114.72 | 17.65 | 785.73 | 170.05 | 31.42 | 1,128.31 |
| 1986 | 119.13 | 18.55 | 814.32 | 119.08 | 18.30 | 815.70 | 168.71 | 34.10 | 1,099.18 |
| 1987 | 133.82 | 21.52 | 910.11 | 134.67 | 21.12 | 919.61 | 189.48 | 35.91 | 1,251.00 |
| 1988 | 137.69 | 22.19 | 936.10 | 138.85 | 22.30 | 944.49 | 190.41 | 34.91 | 1,265.29 |
| 1989 | 145.49 | 24.18 | 984.00 | 146.30 | 24.06 | 991.29 | 192.35 | 37.32 | 1,264.02 |
| 1990 | 171.15 | 28.85 | 1,154.76 | 172.95 | 28.90 | 1,168.65 | 222.80 | 44.75 | 1,453.48 |
| 1991 | 215.00 | 38.90 | 1,432.26 | 216.71 | 39.34 | 1,442.77 | 289.21 | 57.37 | 1,891.72 |
| 1992 | 237.63 | 49.45 | 1,538.33 | 238.68 | 49.45 | 1,546.71 | 329.37 | 78.19 | 2,065.58 |
| 1993 | 209.72 | 50.52 | 1,310.18 | 204.76 | 49.07 | 1,280.96 | 345.51 | 94.44 | 2,081.03 |
| 1994 | 180.50 | 48.68 | 1,091.67 | 174.46 | 46.86 | 1,056.48 | 315.40 | 96.15 | 1,830.93 |
| 1995 | 169.50 | 50.13 | 994.58 | 164.61 | 48.24 | 969.05 | 283.92 | 99.40 | 1,559.44 |
| 1996 | 169.71 | 53.54 | 972.76 | 165.46 | 52.05 | 949.37 | 284.52 | 100.88 | 1,553.91 |
| 1997 | 173.83 | 55.34 | 992.91 | 170.37 | 54.16 | 973.73 | 287.14 | 97.85 | 1,595.53 |
| 1998 | 171.28 | 55.08 | 974.49 | 167.88 | 53.24 | 960.35 | 290.10 | 103.99 | 1,576.61 |
| 1999 | 183.83 | 60.88 | 1,033.66 | 179.82 | 59.03 | 1,014.76 | 293.64 | 112.93 | 1,542.73 |
| 2000 | 183.51 | 61.96 | 1,023.77 | 180.39 | 60.21 | 1,011.11 | 294.45 | 115.18 | 1,533.67 |
| 2001 | 185.43 | 64.78 | 1,019.41 | 183.84 | 62.92 | 1,009.69 | 277.78 | 115.44 | 1,399.97 |
| 2002 | 182.88 | 65.71 | 992.79 | 181.09 | 64.29 | 988.42 | 291.77 | 118.67 | 1,488.31 |
| 2003 | 170.28 | 62.24 | 917.07 | 167.61 | 60.20 | 910.02 | 264.20 | 117.51 | 1,278.15 |
| 2004 | 166.55 | 62.22 | 887.68 | 163.80 | 60.81 | 875.75 | 261.74 | 107.36 | 1,328.84 |
| 2005 | 157.40 | 58.25 | 842.73 | 153.80 | 55.91 | 830.47 | 253.48 | 107.71 | 1,261.03 |
| 2006 | 172.61 | 64.97 | 916.67 | 169.93 | 63.23 | 907.51 | 256.68 | 110.33 | 1,268.31 |
| 2007 | 175.67 | 67.22 | 925.26 | 172.03 | 64.65 | 914.22 | 269.71 | 120.68 | 1,299.88 |
| 2008 | 158.62 | 63.15 | 818.53 | 155.18 | 60.90 | 806.86 | 257.39 | 112.93 | 1,255.95 |
| 2009 | 155.83 | 63.13 | 796.65 | 152.54 | 60.99 | 785.35 | 248.89 | 112.67 | 1,190.50 |
| 2010 | 148.80 | 59.88 | 763.47 | 145.02 | 57.30 | 751.38 | 236.05 | 108.15 | 1,120.16 |

Additional information on the model used to delay-adjust SEER Incidence rates can be found at (http://surveillance.cancer.gov/delay/).

ª    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).
-    Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

Table 23.5
Cancer of the Prostate (Invasive)

Age-adjusted SEER Incidence[a] Rates by Year, Race and Age

| | All Races, Males | | | White Males | | | Black Males | | |
|---|---|---|---|---|---|---|---|---|---|
| | All | <65 | 65+ | All | <65 | 65+ | All | <65 | 65+ |
| Year of Diagnosis: | | | | | | | | | |
| 1975-2010 | 153.08 | 43.27 | 912.09 | 149.67 | 41.21 | 899.41 | 238.73 | 80.85 | 1,330.02 |
| 1975 | 94.00 | 13.67 | 649.33 | 92.18 | 13.02 | 639.37 | 141.07 | 26.76 | 931.22 |
| 1976 | 97.93 | 14.62 | 673.84 | 97.33 | 13.93 | 673.83 | 140.61 | 29.69 | 907.29 |
| 1977 | 100.49 | 15.04 | 691.09 | 98.56 | 14.35 | 680.68 | 159.16 | 29.24 | 1,057.18 |
| 1978 | 99.40 | 15.21 | 681.33 | 97.73 | 14.79 | 671.05 | 148.11 | 26.83 | 986.42 |
| 1979 | 103.44 | 14.98 | 714.91 | 102.31 | 14.68 | 708.01 | 162.31 | 26.35 | 1,102.12 |
| 1980 | 106.03 | 15.52 | 731.66 | 104.98 | 14.69 | 729.10 | 161.14 | 33.79 | 1,041.42 |
| 1981 | 108.91 | 16.85 | 745.32 | 107.92 | 15.98 | 743.44 | 161.86 | 34.55 | 1,041.86 |
| 1982 | 108.24 | 16.34 | 743.47 | 107.36 | 15.80 | 740.27 | 167.63 | 31.32 | 1,109.83 |
| 1983 | 111.62 | 17.15 | 764.59 | 110.83 | 16.60 | 762.17 | 170.88 | 34.02 | 1,116.88 |
| 1984 | 111.71 | 17.26 | 764.56 | 110.12 | 16.22 | 759.23 | 178.77 | 37.08 | 1,158.14 |
| 1985 | 115.54 | 17.91 | 790.43 | 114.69 | 17.65 | 785.50 | 169.96 | 31.41 | 1,127.65 |
| 1986 | 119.09 | 18.55 | 814.07 | 119.04 | 18.30 | 815.38 | 168.59 | 34.08 | 1,098.34 |
| 1987 | 133.77 | 21.51 | 909.76 | 134.61 | 21.11 | 919.16 | 189.31 | 35.88 | 1,249.80 |
| 1988 | 137.63 | 22.18 | 935.67 | 138.77 | 22.29 | 943.91 | 190.20 | 34.88 | 1,263.80 |
| 1989 | 145.41 | 24.17 | 983.46 | 146.20 | 24.04 | 990.55 | 192.09 | 37.28 | 1,262.21 |
| 1990 | 171.03 | 28.83 | 1,154.01 | 172.79 | 28.88 | 1,167.55 | 222.42 | 44.70 | 1,450.91 |
| 1991 | 214.84 | 38.87 | 1,431.18 | 216.50 | 39.31 | 1,441.30 | 288.68 | 57.30 | 1,888.08 |
| 1992 | 237.42 | 49.41 | 1,536.99 | 238.40 | 49.40 | 1,544.83 | 328.67 | 78.07 | 2,060.90 |
| 1993 | 209.51 | 50.47 | 1,308.87 | 204.48 | 49.02 | 1,279.12 | 344.66 | 94.26 | 2,075.50 |
| 1994 | 180.29 | 48.62 | 1,090.41 | 174.19 | 46.81 | 1,054.69 | 314.49 | 95.93 | 1,825.25 |
| 1995 | 169.27 | 50.07 | 993.26 | 164.31 | 48.17 | 967.11 | 282.98 | 99.13 | 1,553.80 |
| 1996 | 169.46 | 53.46 | 971.31 | 165.13 | 51.97 | 947.34 | 283.51 | 100.59 | 1,547.94 |
| 1997 | 173.54 | 55.25 | 991.23 | 169.88 | 54.03 | 970.69 | 285.69 | 97.45 | 1,586.88 |
| 1998 | 170.96 | 54.97 | 972.68 | 167.35 | 53.11 | 957.05 | 288.51 | 103.52 | 1,567.24 |
| 1999 | 183.39 | 60.74 | 1,031.20 | 179.04 | 58.83 | 1,009.99 | 291.50 | 112.24 | 1,530.58 |
| 2000 | 183.01 | 61.79 | 1,020.97 | 179.46 | 59.96 | 1,005.48 | 291.95 | 114.35 | 1,519.55 |
| 2001 | 184.84 | 64.57 | 1,016.20 | 182.71 | 62.61 | 1,012.93 | 275.02 | 114.45 | 1,384.90 |
| 2002 | 182.22 | 65.47 | 989.18 | 179.76 | 63.90 | 980.62 | 288.36 | 117.48 | 1,469.53 |
| 2003 | 169.56 | 61.98 | 913.21 | 166.14 | 59.76 | 901.43 | 260.58 | 116.11 | 1,259.22 |
| 2004 | 165.74 | 61.92 | 883.36 | 162.08 | 60.27 | 865.85 | 257.48 | 105.84 | 1,305.67 |
| 2005 | 156.50 | 57.92 | 837.96 | 151.85 | 55.31 | 819.20 | 248.61 | 105.90 | 1,235.09 |
| 2006 | 171.47 | 64.54 | 910.61 | 167.33 | 62.40 | 892.67 | 250.85 | 108.12 | 1,237.46 |
| 2007 | 174.31 | 66.70 | 918.10 | 168.84 | 63.62 | 896.17 | 262.44 | 117.77 | 1,262.41 |
| 2008 | 157.03 | 62.52 | 810.32 | 151.69 | 59.71 | 787.54 | 249.10 | 109.67 | 1,212.91 |
| 2009 | 153.66 | 62.25 | 785.55 | 148.36 | 59.52 | 762.48 | 239.30 | 108.73 | 1,141.86 |
| 2010 | 145.12 | 58.40 | 744.57 | 138.71 | 55.07 | 716.90 | 222.28 | 102.36 | 1,051.25 |

[a]    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 23.6
Cancer of the Prostate (Invasive)

Age-adjusted U.S. Death[a] Rates by Year, Race and Age

| Year of Death: | All Races, Males | | | White Males | | | Black Males | | |
|---|---|---|---|---|---|---|---|---|---|
| | All | <65 | 65+ | All | <65 | 65+ | All | <65 | 65+ |
| 1975-2010 | 31.40 | 2.34 | 232.32 | 29.06 | 2.01 | 215.99 | 65.09 | 5.96 | 473.79 |
| 1975 | 30.97 | 2.54 | 227.48 | 29.06 | 2.18 | 214.88 | 55.52 | 6.56 | 393.98 |
| 1976 | 31.78 | 2.69 | 232.91 | 29.93 | 2.31 | 220.84 | 55.60 | 6.90 | 392.19 |
| 1977 | 31.83 | 2.69 | 233.28 | 29.90 | 2.31 | 220.57 | 56.44 | 6.93 | 398.67 |
| 1978 | 32.66 | 2.61 | 240.33 | 30.62 | 2.24 | 226.79 | 58.49 | 6.76 | 416.09 |
| 1979 | 32.84 | 2.56 | 242.13 | 30.77 | 2.21 | 228.17 | 59.24 | 6.63 | 422.90 |
| 1980 | 33.05 | 2.67 | 243.08 | 30.77 | 2.33 | 227.39 | 61.99 | 6.57 | 445.03 |
| 1981 | 33.17 | 2.68 | 243.95 | 30.76 | 2.30 | 227.52 | 63.61 | 7.06 | 454.45 |
| 1982 | 33.36 | 2.68 | 245.47 | 31.09 | 2.34 | 229.85 | 62.36 | 6.62 | 447.67 |
| 1983 | 33.92 | 2.76 | 249.30 | 31.57 | 2.40 | 233.18 | 64.55 | 6.99 | 462.46 |
| 1984 | 34.06 | 2.71 | 250.77 | 31.58 | 2.37 | 233.49 | 65.93 | 6.74 | 475.13 |
| 1985 | 33.91 | 2.73 | 249.43 | 31.28 | 2.34 | 231.34 | 67.26 | 7.16 | 482.68 |
| 1986 | 34.93 | 2.80 | 256.99 | 32.46 | 2.47 | 239.72 | 67.39 | 6.63 | 487.36 |
| 1987 | 35.11 | 2.71 | 259.06 | 32.57 | 2.38 | 241.27 | 68.88 | 6.66 | 499.03 |
| 1988 | 35.88 | 2.83 | 264.40 | 33.38 | 2.47 | 247.08 | 69.57 | 6.98 | 502.28 |
| 1989 | 37.10 | 2.97 | 273.01 | 34.54 | 2.62 | 255.20 | 71.71 | 7.06 | 518.54 |
| 1990 | 38.56 | 3.02 | 284.23 | 35.67 | 2.65 | 263.98 | 77.98 | 7.43 | 565.65 |
| 1991 | 39.31 | 2.89 | 291.08 | 36.50 | 2.52 | 271.39 | 78.24 | 7.06 | 570.21 |
| 1992 | 39.22 | 2.86 | 290.58 | 36.29 | 2.44 | 270.28 | 79.84 | 7.66 | 578.73 |
| 1993 | 39.34 | 2.72 | 292.48 | 36.26 | 2.33 | 270.82 | 81.86 | 7.04 | 599.08 |
| 1994 | 38.54 | 2.67 | 286.48 | 35.64 | 2.31 | 266.04 | 79.96 | 6.76 | 585.93 |
| 1995 | 37.29 | 2.58 | 277.23 | 34.41 | 2.22 | 256.93 | 78.20 | 6.70 | 572.47 |
| 1996 | 36.00 | 2.50 | 267.61 | 33.00 | 2.13 | 246.38 | 78.84 | 6.45 | 579.20 |
| 1997 | 34.15 | 2.31 | 254.26 | 31.35 | 1.94 | 234.58 | 74.30 | 6.32 | 544.22 |
| 1998 | 32.63 | 2.27 | 242.49 | 29.89 | 1.90 | 223.36 | 72.77 | 6.28 | 532.41 |
| 1999 | 31.56 | 2.06 | 235.48 | 28.91 | 1.72 | 216.88 | 70.13 | 5.80 | 514.78 |
| 2000 | 30.39 | 1.98 | 226.82 | 27.78 | 1.66 | 208.29 | 68.90 | 5.40 | 507.82 |
| 2001 | 29.52 | 1.94 | 220.14 | 26.97 | 1.63 | 202.08 | 67.82 | 5.33 | 499.72 |
| 2002 | 28.71 | 1.92 | 213.87 | 26.36 | 1.60 | 197.48 | 64.98 | 5.26 | 477.81 |
| 2003 | 27.19 | 1.90 | 201.97 | 25.02 | 1.59 | 186.95 | 60.37 | 5.30 | 441.02 |
| 2004 | 26.19 | 1.82 | 194.64 | 24.04 | 1.55 | 179.54 | 59.00 | 4.79 | 433.72 |
| 2005 | 25.40 | 1.80 | 188.57 | 23.33 | 1.51 | 174.20 | 57.02 | 4.83 | 417.76 |
| 2006 | 24.24 | 1.84 | 179.14 | 22.34 | 1.58 | 165.81 | 53.73 | 4.57 | 393.54 |
| 2007 | 24.23 | 1.75 | 179.68 | 22.23 | 1.49 | 165.58 | 54.88 | 4.51 | 403.03 |
| 2008 | 23.01 | 1.78 | 169.73 | 21.34 | 1.52 | 158.30 | 49.11 | 4.48 | 357.62 |
| 2009 | 22.12 | 1.70 | 163.30 | 20.34 | 1.43 | 151.06 | 49.35 | 4.45 | 359.70 |
| 2010 | 21.81 | 1.78 | 160.28 | 20.10 | 1.51 | 148.57 | 48.18 | 4.40 | 350.79 |

[a]    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 23.7
Cancer of the Prostate (Invasive)

SEER Incidence[a] and U.S. Death[b] Rates, Age-Adjusted and Age-Specific Rates, by Race

| | SEER Incidence[a] | | | U.S. Mortality[b] | | |
|---|---|---|---|---|---|---|
| | All Races Males | White Males | Black Males | All Races Males | White Males | Black Males |
| **Age-Adjusted Rates, 2006-2010** | | | | | | |
| Age at Diagnosis/Death: | | | | | | |
| All ages | 152.0 | 144.9 | 228.5 | 23.0 | 21.2 | 50.9 |
| Under 65 | 58.8 | 55.5 | 101.8 | 1.8 | 1.5 | 4.5 |
| 65 and over | 796.1 | 762.5 | 1,104.3 | 170.1 | 157.6 | 372.1 |
| | | | | | | |
| All ages (IARC world std)[c] | 104.6 | 99.8 | 162.1 | 10.0 | 9.1 | 22.9 |
| | | | | | | |
| **Age-Specific Rates, 2006-2010** | | | | | | |
| Age at Diagnosis/Death: | | | | | | |
| <1 | - | - | - | - | - | - |
| 1-4 | - | - | - | - | - | - |
| 5-9 | - | - | - | - | - | - |
| 10-14 | - | - | - | - | - | - |
| 15-19 | - | - | - | - | - | - |
| 20-24 | - | - | - | - | - | - |
| 25-29 | - | - | - | - | - | - |
| 30-34 | 0.1 | - | - | - | - | - |
| 35-39 | 1.2 | 1.0 | 2.8 | 0.0 | - | - |
| 40-44 | 10.8 | 9.2 | 26.0 | 0.2 | 0.2 | 0.5 |
| 45-49 | 46.5 | 41.0 | 101.8 | 0.9 | 0.7 | 2.3 |
| 50-54 | 145.9 | 135.9 | 266.6 | 3.3 | 2.7 | 8.1 |
| 55-59 | 327.4 | 311.5 | 550.3 | 9.1 | 7.7 | 23.1 |
| 60-64 | 566.7 | 542.8 | 922.6 | 21.0 | 18.1 | 53.2 |
| 65-69 | 848.0 | 816.9 | 1,266.9 | 42.8 | 37.3 | 107.9 |
| 70-74 | 916.1 | 885.4 | 1,251.7 | 82.8 | 73.1 | 206.5 |
| 75-79 | 840.8 | 802.2 | 1,083.4 | 148.7 | 135.6 | 344.2 |
| 80-84 | 644.2 | 604.4 | 867.9 | 267.0 | 249.0 | 588.8 |
| 85+ | 532.4 | 503.0 | 751.4 | 556.3 | 529.7 | 1,094.4 |

[a]  SEER 18 areas.  Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.
[b]  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), unless noted.
[c]  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.

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                                          Table 23.8
                                Cancer of the Prostate (Invasive)

          5-Year Relative and Period Survival (Percent) by Race, Diagnosis Year, Stage and Age
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| | All Races, Males | | | White Males | | | Black Males | | |
|---|---|---|---|---|---|---|---|---|---|
| | All | <65 | 65+ | All | <65 | 65+ | All | <65 | 65+ |
| **5-Year Relative Survival (Percent)** | | | | | | | | | |
| Year of Diagnosis: | | | | | | | | | |
| 1960-1963[a] | – | – | – | 50 | – | – | 35 | – | – |
| 1970-1973[a] | – | – | – | 63 | – | – | 55 | – | – |
| 1975-1977[b] | 67.8 | 73.4 | 66.1 | 68.5 | 75.2 | 66.6 | 60.6 | 62.2 | 60.0 |
| 1978-1980[b] | 70.1 | 75.2 | 68.6 | 71.2 | 76.7 | 69.6 | 62.0 | 65.0 | 60.6 |
| 1981-1983[b] | 72.0 | 75.9 | 70.9 | 73.1 | 77.6 | 71.9 | 62.7 | 64.9 | 61.9 |
| 1984-1986[b] | 75.1 | 77.4 | 74.6 | 76.4 | 79.1 | 75.7 | 65.5 | 67.1 | 64.7 |
| 1987-1989[b] | 82.8 | 83.2 | 82.7 | 84.4 | 84.7 | 84.3 | 71.2 | 72.6 | 70.7 |
| 1990-1992[b] | 92.9 | 93.0 | 92.9 | 94.0 | 94.0 | 94.1 | 84.3 | 86.7 | 83.3 |
| 1993-1995[b] | 95.1 | 95.8 | 94.9 | 95.9 | 96.5 | 95.6 | 91.6 | 93.2 | 90.6 |
| 1996-1998[b] | 97.4 | 98.5 | 96.8 | 97.9 | 98.9 | 97.3 | 94.7 | 96.6 | 93.3 |
| 1999-2002[b] | 99.6 | 99.2 | 99.6 | 99.7 | 99.5 | 99.6 | 97.4 | 98.2 | 96.5 |
| 2003-2009[b] | 99.7[f] | 99.6[f] | 99.6[f] | 99.8[f] | 99.8[f] | 99.7[f] | 98.0[f] | 98.9[f] | 96.7[f] |
| **5-Year Period Survival (Percent)[cd]** | | | | | | | | | |
| 2009 | 99.4 | 99.1 | 99.4 | 99.7 | 99.4 | 99.6 | 96.8 | 97.8 | 95.5 |
| **Stage Distribution (%) 2003-2009[ce]** | | | | | | | | | |
| All Stages | | | | | | | | | |
| Number of cases | 360,503 | 153,032 | 207,471 | 281,240 | 116,836 | 164,404 | 50,726 | 26,635 | 24,091 |
| Percent | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| Localized | 81 | 79 | 82 | 81 | 79 | 82 | 81 | 81 | 82 |
| Regional | 12 | 16 | 8 | 12 | 17 | 9 | 10 | 14 | 7 |
| Distant | 4 | 3 | 5 | 4 | 3 | 5 | 6 | 4 | 7 |
| Unstaged | 3 | 2 | 5 | 3 | 1 | 4 | 3 | 1 | 4 |
| **5-Year Relative Survival (Percent), 2003-2009[c]** | | | | | | | | | |
| Age at Diagnosis: | | | | | | | | | |
| Ages <45 | 95.9 | – | – | 95.2 | – | – | 97.0 | – | – |
| Ages 45-54 | 98.4 | – | – | 98.5 | – | – | 97.9 | – | – |
| Ages 55-64 | 99.3 | – | – | 99.5 | – | – | 98.3 | – | – |
| Ages 65-74 | 100.0 | – | – | 100.0 | – | – | 98.0 | – | – |
| Ages 75+ | 96.8 | – | – | 97.4 | – | – | 87.6 | – | – |
| Ages <65 | 99.0 | – | – | 99.2 | – | – | 98.2 | – | – |
| Ages 65+ | 99.2 | – | – | 99.5 | – | – | 94.9 | – | – |
| Stage[e]: | | | | | | | | | |
| All Stages | 99.2 | 99.0 | 99.2 | 99.5 | 99.2 | 99.5 | 96.7 | 98.2 | 94.9 |
| Localized | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Regional | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 |
| Distant | 27.9 | 31.4 | 26.4 | 27.2 | 31.2 | 25.7 | 27.7 | 30.5 | 25.8 |
| Unstaged | 72.9 | 84.6 | 69.8 | 69.5 | 83.5 | 66.3 | 62.9 | 77.0 | 57.3 |

[a] Based on End Results data from a series of hospital registries and one population-based registry.
[b] SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).
Based on follow-up of patients into 2010.
[c] SEER 18 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, New Jersey and Georgia excluding ATL/RG).
Based on follow-up of patients into 2010.
[d] Period survival provides a 2009 estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three year calendar blocks (2007-2009: 0-1 year survival), (2006-2008: 1-2 year survival), (2005-2007: 2-3 year survival), (2004-2006: 3-4 year survival), (2003-2005: 4-5 years survival).
[e] Stage at diagnosis is classified using SEER Summary Stage 2000.
[f] The difference between 1975-1977 and 2003-2009 is statistically significant (p<.05).
[g] The standard error is between 5 and 10 percentage points.
[h] The standard error is greater than 10 percentage points.
– Statistic could not be calculated due to fewer than 25 cases during the time period.

Table 23.9
Cancer of the Prostate (Invasive)

SEER[a] Relative Survival (Percent)
By Year of Diagnosis

All Races, Males

Year of Diagnosis

| Survival Time | 1975-1979 | 1980-1984 | 1985-1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-year | 91.4 | 93.5 | 95.5 | 97.3 | 98.6 | 99.4 | 99.2 | 99.0 | 98.7 | 99.1 | 99.2 | 99.5 | 99.5 | 99.7 | 99.8 | 99.8 | 99.7 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 |
| 2-year | 84.5 | 87.3 | 91.0 | 94.4 | 97.1 | 98.2 | 97.9 | 97.8 | 97.6 | 98.0 | 98.8 | 98.9 | 99.5 | 99.5 | 99.8 | 99.8 | 99.7 | 99.8 | 99.6 | 99.8 | 99.8 | 99.7 | |
| 3-year | 78.3 | 81.5 | 86.8 | 92.0 | 95.6 | 97.5 | 96.8 | 96.6 | 96.9 | 97.4 | 98.4 | 98.5 | 99.5 | 99.2 | 99.8 | 99.8 | 99.5 | 99.7 | 99.6 | 99.8 | 99.8 | | |
| 4-year | 73.2 | 76.4 | 83.5 | 89.9 | 94.2 | 96.9 | 96.2 | 95.4 | 96.3 | 96.8 | 97.9 | 98.2 | 99.3 | 99.0 | 99.8 | 99.8 | 99.5 | 99.7 | 99.6 | 99.8 | | | |
| 5-year | 68.7 | 71.9 | 80.5 | 88.5 | 92.6 | 96.1 | 95.2 | 94.6 | 95.6 | 96.4 | 97.5 | 98.2 | 99.3 | 98.9 | 99.8 | 99.8 | 99.3 | 99.7 | 99.6 | | | | |
| 6-year | 65.2 | 68.5 | 77.9 | 87.1 | 91.3 | 94.9 | 94.4 | 93.8 | 95.3 | 96.0 | 97.2 | 98.0 | 99.3 | 98.7 | 99.8 | 99.8 | 99.3 | 99.7 | | | | | |
| 7-year | 61.8 | 65.0 | 75.4 | 85.0 | 90.5 | 93.9 | 93.4 | 92.9 | 94.9 | 95.4 | 97.2 | 97.8 | 99.2 | 98.6 | 99.8 | 99.8 | 99.3 | | | | | | |
| 8-year | 58.5 | 61.9 | 73.3 | 83.4 | 89.3 | 92.8 | 92.8 | 92.3 | 94.7 | 95.0 | 97.1 | 97.8 | 98.9 | 98.4 | 99.8 | 99.8 | | | | | | | |
| 9-year | 55.7 | 59.7 | 71.4 | 82.2 | 88.2 | 91.8 | 91.4 | 91.5 | 94.4 | 94.5 | 96.8 | 97.2 | 98.7 | 98.4 | 99.8 | | | | | | | | |
| 10-year | 53.2 | 57.8 | 69.6 | 80.5 | 87.3 | 90.8 | 90.5 | 90.9 | 93.7 | 94.4 | 96.7 | 96.8 | 98.5 | 98.4 | | | | | | | | | |
| 11-year | 50.6 | 55.5 | 67.8 | 78.8 | 86.0 | 90.3 | 89.9 | 89.9 | 92.9 | 94.2 | 96.5 | 96.6 | 98.4 | | | | | | | | | | |
| 12-year | 48.4 | 53.6 | 66.0 | 77.9 | 85.1 | 89.5 | 88.6 | 89.1 | 92.0 | 93.7 | 96.3 | 96.1 | | | | | | | | | | | |
| 13-year | 46.5 | 51.8 | 64.4 | 77.3 | 84.2 | 88.8 | 88.1 | 88.5 | 91.2 | 93.3 | 95.7 | | | | | | | | | | | | |
| 14-year | 44.8 | 50.2 | 63.0 | 76.1 | 83.8 | 88.1 | 87.4 | 87.3 | 90.4 | 93.2 | | | | | | | | | | | | | |
| 15-year | 43.6 | 48.8 | 61.4 | 75.2 | 82.7 | 87.3 | 86.2 | 87.0 | 89.9 | | | | | | | | | | | | | | |
| 16-year | 41.9 | 47.0 | 59.9 | 73.7 | 81.8 | 86.4 | 85.6 | 86.1 | | | | | | | | | | | | | | | |
| 17-year | 40.1 | 45.8 | 59.3 | 72.2 | 81.3 | 85.6 | 84.6 | | | | | | | | | | | | | | | | |
| 18-year | 38.8 | 44.4 | 58.2 | 71.6 | 80.9 | 85.1 | | | | | | | | | | | | | | | | | |
| 19-year | 38.0 | 43.0 | 57.6 | 71.2 | 80.2 | | | | | | | | | | | | | | | | | | |
| 20-year | 37.0 | 41.6 | 56.6 | 70.9 | | | | | | | | | | | | | | | | | | | |
| 21-year | 35.5 | 40.6 | 55.8 | | | | | | | | | | | | | | | | | | | | |
| 22-year | 34.1 | 39.2 | | | | | | | | | | | | | | | | | | | | | |
| 23-year | 33.2 | 38.0 | | | | | | | | | | | | | | | | | | | | | |
| 24-year | 32.5 | 37.0 | | | | | | | | | | | | | | | | | | | | | |
| 25-year | 31.1 | 35.4 | | | | | | | | | | | | | | | | | | | | | |
| 26-year | 30.5 | 34.2 | | | | | | | | | | | | | | | | | | | | | |
| 27-year | 29.9 | | | | | | | | | | | | | | | | | | | | | | |
| 28-year | 29.3 | | | | | | | | | | | | | | | | | | | | | | |
| 29-year | 28.7 | | | | | | | | | | | | | | | | | | | | | | |
| 30-year | 27.0 | | | | | | | | | | | | | | | | | | | | | | |

[a] Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table 23.10
Cancer of the Prostate (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, 2008-2010 By Race/Ethnicity

| Race/ Ethnicity | Current Age | Risk of Being Diagnosed with Cancer | | | | Risk of Dying from Cancer | Race/ Ethnicity | Current Age | Risk of Being Diagnosed with Cancer | | | | Risk of Dying from Cancer |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | +10 yrs | +20 yrs | +30 yrs | Ever | | | | +10 yrs | +20 yrs | +30 yrs | Ever | |
| All Races | 0 | 0.00 | 0.00 | 0.00 | 15.33 | 2.71 | Asian/ | 0 | 0.00 | 0.00 | 0.00 | 10.31 | 2.20 |
| | 10 | 0.00 | 0.00 | 0.01 | 15.53 | 2.75 | Pacific | 10 | 0.00 | 0.00 | 0.00 | 10.40 | 2.22 |
| | 20 | 0.00 | 0.01 | 0.34 | 15.60 | 2.76 | Islander | 20 | 0.00 | 0.00 | 0.10 | 10.43 | 2.22 |
| | 30 | 0.01 | 0.35 | 2.54 | 15.80 | 2.80 | | 30 | 0.00 | 0.10 | 0.99 | 10.48 | 2.23 |
| | 40 | 0.34 | 2.57 | 8.18 | 16.04 | 2.84 | | 40 | 0.10 | 1.00 | 4.03 | 10.56 | 2.25 |
| | 50 | 2.31 | 8.12 | 13.73 | 16.27 | 2.94 | | 50 | 0.91 | 4.00 | 7.94 | 10.63 | 2.28 |
| | 60 | 6.41 | 12.59 | 14.92 | 15.39 | 3.10 | | 60 | 3.23 | 7.36 | 9.52 | 10.19 | 2.34 |
| | 70 | 7.73 | 10.64 | – | 11.23 | 3.30 | | 70 | 4.67 | 7.11 | – | 7.86 | 2.42 |
| | 80 | 4.56 | – | – | 5.49 | 3.43 | | 80 | 3.23 | – | – | 4.23 | 2.52 |
| White | 0 | 0.00 | 0.00 | 0.00 | 14.61 | 2.53 | American | 0 | 0.00 | 0.00 | 0.00 | 7.69 | 2.28 |
| | 10 | 0.00 | 0.00 | 0.01 | 14.77 | 2.56 | Indian/ | 10 | 0.00 | 0.00 | 0.02 | 7.80 | 2.32 |
| | 20 | 0.00 | 0.01 | 0.30 | 14.84 | 2.57 | Alaska | 20 | 0.00 | 0.02 | 0.13 | 7.86 | 2.34 |
| | 30 | 0.01 | 0.30 | 2.37 | 15.01 | 2.60 | Native[a] | 30 | 0.02 | 0.13 | 0.87 | 8.03 | 2.40 |
| | 40 | 0.30 | 2.39 | 7.77 | 15.24 | 2.65 | | 40 | 0.12 | 0.88 | 3.50 | 8.26 | 2.48 |
| | 50 | 2.17 | 7.74 | 13.11 | 15.47 | 2.73 | | 50 | 0.80 | 3.55 | 6.49 | 8.55 | 2.63 |
| | 60 | 6.12 | 12.02 | 14.18 | 14.61 | 2.88 | | 60 | 3.01 | 6.23 | 8.10 | 8.48 | 2.87 |
| | 70 | 7.33 | 10.02 | – | 10.55 | 3.07 | | 70 | 3.91 | 6.18 | – | 6.64 | 3.07 |
| | 80 | 4.20 | – | – | 5.04 | 3.21 | | 80 | 3.40 | – | – | 4.09 | 3.54 |
| Black | 0 | 0.00 | 0.00 | 0.00 | 19.26 | 4.55 | Hispanic[b] | 0 | 0.00 | 0.00 | 0.00 | 14.64 | 3.14 |
| | 10 | 0.00 | 0.00 | 0.03 | 19.72 | 4.66 | | 10 | 0.00 | 0.00 | 0.01 | 14.80 | 3.18 |
| | 20 | 0.00 | 0.03 | 0.72 | 19.87 | 4.69 | | 20 | 0.00 | 0.01 | 0.18 | 14.87 | 3.19 |
| | 30 | 0.03 | 0.73 | 4.37 | 20.27 | 4.79 | | 30 | 0.01 | 0.19 | 1.64 | 15.02 | 3.22 |
| | 40 | 0.72 | 4.45 | 12.26 | 20.78 | 4.92 | | 40 | 0.18 | 1.66 | 6.36 | 15.20 | 3.26 |
| | 50 | 3.95 | 12.21 | 18.58 | 21.23 | 5.15 | | 50 | 1.51 | 6.34 | 11.99 | 15.42 | 3.34 |
| | 60 | 9.72 | 17.21 | 19.78 | 20.33 | 5.63 | | 60 | 5.19 | 11.26 | 14.06 | 14.96 | 3.49 |
| | 70 | 10.67 | 14.32 | – | 15.11 | 6.27 | | 70 | 7.23 | 10.57 | – | 11.64 | 3.68 |
| | 80 | 6.71 | – | – | 8.15 | 6.79 | | 80 | 4.82 | – | – | 6.36 | 3.81 |

Devcan 6.7.0, June 2013, National Cancer Institute (http://surveillance.cancer.gov/devcan/).
Source: Incidence data are from the SEER 18 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, New Jersey, and Georgia excluding ATL/RG). Mortality data are from the NCHS public use data file for the total US.
[a] Underlying incidence and mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.
[b] 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, North Dakota and South Carolina.
- Statistic could not be calculated.
A percent of 0.00 represents a value that is below 0.005.

Table 23.11
Cancer of the Prostate (Invasive)

SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends[a]
By Race/Ethnicity

| SEER Incidence | SEER 18 Areas[b] Rate 2006-2010 Rate per 100,000 persons | SEER 13 Areas[b] Trend 2001-2010[c] AAPC (%) | SEER 9 Areas[b] Trend 2001-2010[d] AAPC (%) |
|---|---|---|---|
| | Males | Males | Males |
| RACE/ETHNICITY | | | |
| All Races | 152.0 | -2.2* | -2.0* |
| White | 144.9 | -2.6* | -2.5* |
|   White Hispanic[e] | 124.9 | -3.0* | - |
|   White Non-Hispanic[e] | 148.2 | -2.3* | - |
| Black | 228.5 | -2.0* | -1.8* |
| Asian/Pacific Islander | 81.8 | -3.7* | - |
| Amer Ind/Alaska Nat[f] | 77.8 | -1.6* | - |
| Hispanic[e] | 125.8 | -2.8* | - |

| U.S. Mortality[g] | Rate 2006-2010 Rate per 100,000 persons | Trend 2001-2010[h] AAPC (%) |
|---|---|---|
| | Males | Males |
| RACE/ETHNICITY | | |
| All Races | 23.0 | -3.3* |
| White | 21.2 | -3.3* |
|   White Hispanic[e] | 19.8 | -2.4* |
|   White Non-Hispanic[e] | 21.3 | -3.2* |
| Black | 50.9 | -3.5* |
| Asian/Pacific Islander | 10.1 | -3.5* |
| Amer Ind/Alaska Nat | | |
|   Total U.S. | 16.9 | -2.6* |
|   CHSDA Counties | 20.7 | -1.7* |
|   Non-CHSDA Counties | 12.3 | -3.5* |
| Hispanic[e] | 19.2 | -2.5* |

    The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 4.0.3, April 2013, 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 18 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, and Georgia excluding ATL/RG.
[c]   The 2001-2010 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 1992-2010.
[d]   The 2001-2010 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2010.
[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 2006-2010 Hispanic and Non-Hispanic death rates exclude deaths from the District of Columbia, North Dakota, and South Carolina. The 2001-2010 Hispanic and Non-Hispanic mortality trends exclude deaths from Connecticut, the District of Columbia, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma, South Carolina 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 2001-2010 mortality AAPCs are based on a Joinpoint analysis using years of death 1992-2010.
*   The APC is significantly different from zero (p<.05).

Table 23.12
Cancer of the Prostate (Invasive)

Age-Adjusted SEER Incidence Rates[a]
By Registry, Race and Age

| | All Races | | | Whites | | | Blacks | | |
|---|---|---|---|---|---|---|---|---|---|
| | All Ages | Ages <65 | Ages 65+ | All Ages | Ages <65 | Ages 65+ | All Ages | Ages <65 | Ages 65+ |
| **SEER Incidence Rates[a], 2006-2010** | | | | | | | | | |
| California | 140.29 | 51.48 | 754.17 | 136.65 | 50.69 | 730.82 | 203.00 | 97.03 | 935.48 |
| Greater Bay Area | 152.49 | 57.68 | 807.85 | 162.71 | 61.98 | 859.01 | 215.22 | 98.42 | 1022.58 |
| San Francisco-Oakland | 149.68 | 57.56 | 786.39 | 156.94 | 60.40 | 824.30 | 218.43 | 98.62 | 1046.59 |
| San Jose-Monterey | 158.06 | 57.89 | 850.46 | 172.88 | 64.73 | 920.45 | 189.63 | 96.34 | 834.44 |
| Los Angeles | 134.32 | 48.76 | 725.75 | 124.39 | 45.43 | 670.19 | 206.24 | 101.13 | 932.82 |
| Greater California | 138.68 | 50.46 | 748.50 | 133.84 | 49.36 | 717.81 | 193.48 | 92.59 | 890.88 |
| Connecticut | 160.00 | 67.27 | 800.94 | 152.32 | 62.75 | 771.49 | 224.84 | 103.19 | 1065.74 |
| Detroit | 191.71 | 77.17 | 983.48 | 169.73 | 65.30 | 891.61 | 256.04 | 114.54 | 1234.20 |
| Georgia | 165.68 | 68.88 | 834.79 | 142.24 | 56.73 | 733.37 | 253.53 | 107.65 | 1261.94 |
| Atlanta | 191.08 | 81.15 | 950.98 | 163.23 | 67.33 | 826.18 | 271.98 | 116.24 | 1348.48 |
| Rural Georgia | 173.90 | 73.22 | 869.82 | 151.40 | 57.53 | 800.25 | 219.05 | 103.11 | 1020.49 |
| Greater Georgia | 155.12 | 62.88 | 792.73 | 135.12 | 52.69 | 704.96 | 242.93 | 101.39 | 1221.31 |
| Hawaii | 119.94 | 36.30 | 698.07 | 123.97 | 43.81 | 678.11 | 175.59 | 112.56 | 611.26 |
| Iowa | 137.15 | 52.89 | 719.60 | 132.53 | 50.83 | 697.32 | 184.73 | 79.26 | 913.79 |
| Kentucky | 134.58 | 52.89 | 699.26 | 129.17 | 48.20 | 688.85 | 190.76 | 91.56 | 876.46 |
| Louisiana | 169.25 | 67.25 | 874.31 | 152.25 | 58.32 | 801.56 | 229.96 | 94.96 | 1163.14 |
| New Jersey | 169.20 | 69.93 | 855.32 | 161.99 | 66.55 | 821.73 | 233.75 | 101.95 | 1144.79 |
| New Mexico | 134.06 | 50.35 | 712.65 | 135.52 | 51.74 | 714.61 | 117.64 | 66.88 | 468.47 |
| Seattle-Puget Sound | 160.89 | 59.73 | 860.14 | 161.69 | 59.72 | 866.50 | 224.92 | 102.91 | 1068.29 |
| Utah | 175.89 | 65.18 | 941.11 | 175.48 | 65.99 | 932.32 | 174.71 | 65.97 | 926.37 |
| 9 SEER Areas[b] | 159.94 | 62.74 | 831.86 | 154.64 | 59.93 | 809.27 | 244.16 | 109.01 | 1178.35 |
| 11 SEER Areas[b] | 154.27 | 59.43 | 809.85 | 149.58 | 57.26 | 787.71 | 233.05 | 106.99 | 1104.45 |
| 13 SEER Areas[b] | 154.18 | 59.40 | 809.33 | 149.59 | 57.26 | 787.78 | 232.87 | 106.94 | 1103.32 |
| 18 SEER Areas[b] | 151.97 | 58.79 | 796.08 | 144.85 | 55.50 | 762.46 | 228.48 | 101.77 | 1104.29 |

[a]     Rates are per 100,000 and are 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 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 18 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and
        Georgia excluding ATL/RG.
-       Statistic not shown.  Rate based on less than 16 cases for the time interval.

Table 23.13
Cancer of the Prostate (Invasive)

Age-Adjusted SEER Death Rates[a]
By Registry, Race and Age

| | All Races | | | Whites | | | Blacks | | |
|---|---|---|---|---|---|---|---|---|---|
| | All Ages | Ages <65 | Ages 65+ | All Ages | Ages <65 | Ages 65+ | All Ages | Ages <65 | Ages 65+ |
| SEER Death Rates[a], 2006-2010 | | | | | | | | | |
| California | 22.33 | 1.70 | 164.97 | 22.79 | 1.64 | 168.94 | 47.76 | 5.10 | 342.63 |
| Greater Bay Area | 19.81 | 1.55 | 146.09 | 21.16 | 1.53 | 156.90 | 46.30 | 5.59 | 327.66 |
| San Francisco-Oakland | 20.70 | 1.64 | 152.43 | 21.63 | 1.47 | 160.99 | 47.99 | 6.10 | 337.55 |
| San Jose-Monterey | 18.04 | 1.37 | 133.27 | 20.31 | 1.63 | 149.41 | 31.32 | – | 229.65 |
| Los Angeles | 22.41 | 1.74 | 165.29 | 22.04 | 1.52 | 163.94 | 51.02 | 5.31 | 367.02 |
| Greater California | 23.18 | 1.74 | 171.41 | 23.53 | 1.73 | 174.26 | 44.44 | 4.70 | 319.14 |
| Connecticut | 22.26 | 1.51 | 165.67 | 21.41 | 1.30 | 160.43 | 38.69 | 4.62 | 274.21 |
| Detroit | 23.16 | 2.05 | 169.08 | 18.97 | 1.47 | 139.92 | 43.37 | 4.44 | 312.51 |
| Georgia | 27.12 | 2.30 | 198.72 | 20.47 | 1.50 | 151.60 | 59.37 | 4.98 | 435.39 |
| Atlanta | 27.16 | 2.34 | 198.73 | 19.76 | 1.42 | 146.54 | 54.40 | 4.46 | 399.56 |
| Rural Georgia | 36.94 | – | 266.98 | 21.72 | – | 150.73 | 73.54 | – | 543.64 |
| Greater Georgia | 26.86 | 2.24 | 197.03 | 20.68 | 1.49 | 153.30 | 61.22 | 5.32 | 447.59 |
| Hawaii | 15.71 | 1.44 | 114.35 | 20.29 | 2.22 | 145.22 | – | – | – |
| Iowa | 22.71 | 1.49 | 169.44 | 22.39 | 1.51 | 166.71 | 67.52 | – | 524.26 |
| Kentucky | 23.87 | 1.79 | 176.50 | 22.67 | 1.63 | 168.09 | 49.32 | 4.50 | 359.15 |
| Louisiana | 26.63 | 2.37 | 194.31 | 21.09 | 1.57 | 155.99 | 48.77 | 4.74 | 353.12 |
| New Jersey | 21.57 | 1.76 | 158.46 | 19.64 | 1.50 | 145.02 | 49.17 | 4.50 | 357.97 |
| New Mexico | 24.41 | 1.44 | 183.18 | 24.68 | 1.48 | 185.06 | 27.43 | – | – |
| Seattle-Puget Sound | 23.63 | 1.72 | 175.10 | 23.55 | 1.66 | 174.85 | 53.20 | 4.88 | 387.25 |
| Utah | 25.90 | 1.45 | 194.92 | 26.16 | 1.48 | 196.79 | – | – | – |
| 9 SEER Areas[b] | 22.77 | 1.71 | 168.32 | 22.15 | 1.50 | 164.85 | 46.46 | 4.57 | 336.08 |
| 11 SEER Areas[b] | 22.42 | 1.69 | 165.67 | 22.02 | 1.51 | 163.81 | 47.47 | 4.70 | 343.16 |
| 13 SEER Areas[b] | 22.47 | 1.69 | 166.04 | 22.05 | 1.51 | 163.98 | 47.84 | 4.71 | 346.03 |
| 18 SEER Areas[b] | 23.05 | 1.79 | 170.01 | 22.00 | 1.57 | 163.24 | 49.62 | 4.76 | 359.72 |
| Total U.S. | 23.05 | 1.77 | 170.15 | 21.24 | 1.51 | 157.63 | 50.94 | 4.48 | 372.12 |

[a]    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).
[b]    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 18 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and
       Georgia excluding ATL/RG.
–      Statistic not shown.  Rate based on less than 16 cases for the time interval.

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                              Table 23.14
                      Cancer of the Prostate (Invasive)

           Age-Adjusted Cancer Death^a Rates By State, All Races, 2006-2010

                                  Males

              State                Rate      SE      Rank       PD
              TOTAL U.S.           23.05    0.06
                High Five States
                D.C.               38.77    1.97    (01)      68.23^c
                Mississippi        31.18    0.79    (02)      35.27^c
                Alabama            28.90    0.58    (03)      25.39^c
                South Carolina     27.48    0.59    (04)      19.24^c
                Georgia            27.12    0.46    (05)      17.68^c

                Low Five States
                Kansas             20.69    0.58    (47)     -10.24^c
                Rhode Island       20.57    0.91    (48)     -10.75^c
                Arizona            20.47    0.39    (49)     -11.17^c
                Florida            20.15    0.20    (50)     -12.59^c
                Hawaii             15.71    0.69    (51)     -31.85^c
```
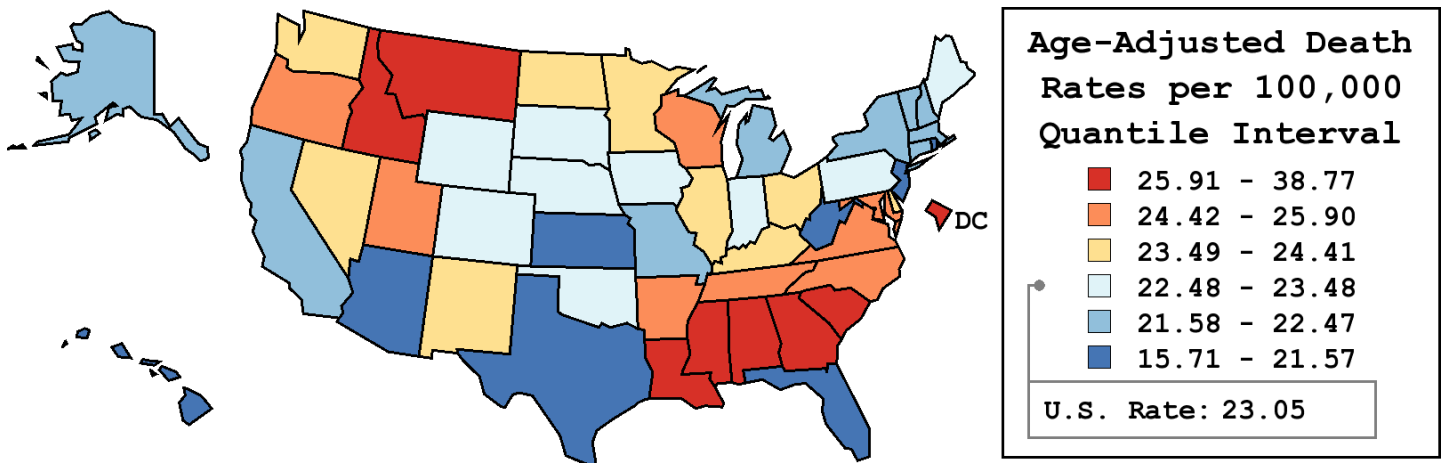
| State | Rate | SE | Rank | PD | State | Rate | SE | Rank | PD |
|-------|------|----|------|-----|-------|------|----|------|-----|
| Alabama | 28.90 | 0.58 | (03) | 25.39^c | Montana | 26.44 | 1.06 | (07) | 14.72^c |
| Alaska | 22.47 | 1.83 | (35) | -2.49 | Nebraska | 22.94 | 0.76 | (29) | -0.46 |
| Arizona | 20.47 | 0.39 | (49) | -11.17^c | Nevada | 23.91 | 0.75 | (20) | 3.77 |
| Arkansas | 25.27 | 0.65 | (11) | 9.64 | New Hampshire | 22.42 | 0.92 | (36) | -2.72 |
| California | 22.33 | 0.18 | (38) | -3.10 | New Jersey | 21.57 | 0.34 | (44) | -6.42 |
| Colorado | 22.88 | 0.54 | (31) | -0.73 | New Mexico | 24.41 | 0.78 | (17) | 5.91 |
| Connecticut | 22.26 | 0.52 | (39) | -3.41 | New York | 21.83 | 0.23 | (41) | -5.28 |
| Delaware | 23.67 | 1.14 | (24) | 2.72 | North Carolina | 25.84 | 0.40 | (10) | 12.14^c |
| D.C. | 38.77 | 1.97 | (01) | 68.23^c | North Dakota | 23.57 | 1.19 | (25) | 2.27 |
| Florida | 20.15 | 0.20 | (50) | -12.59^c | Ohio | 23.80 | 0.31 | (23) | 3.27 |
| Georgia | 27.12 | 0.46 | (05) | 17.68^c | Oklahoma | 23.48 | 0.56 | (26) | 1.87 |
| Hawaii | 15.71 | 0.69 | (51) | -31.85^c | Oregon | 24.44 | 0.54 | (16) | 6.04 |
| Idaho | 25.91 | 0.94 | (08) | 12.44^c | Pennsylvania | 22.74 | 0.27 | (33) | -1.35 |
| Illinois | 24.25 | 0.32 | (18) | 5.24 | Rhode Island | 20.57 | 0.91 | (48) | -10.75^c |
| Indiana | 23.21 | 0.43 | (28) | 0.71 | South Carolina | 27.48 | 0.59 | (04) | 19.24^c |
| Iowa | 22.71 | 0.55 | (34) | -1.44 | South Dakota | 23.43 | 1.10 | (27) | 1.65 |
| Kansas | 20.69 | 0.58 | (47) | -10.24^c | Tennessee | 25.18 | 0.47 | (12) | 9.26 |
| Kentucky | 23.87 | 0.55 | (21) | 3.58 | Texas | 21.27 | 0.24 | (45) | -7.70 |
| Louisiana | 26.63 | 0.59 | (06) | 15.53^c | Utah | 25.90 | 0.83 | (09) | 12.38^c |
| Maine | 22.94 | 0.85 | (30) | -0.47 | Vermont | 22.13 | 1.28 | (40) | -3.97 |
| Maryland | 25.00 | 0.49 | (13) | 8.48 | Virginia | 24.68 | 0.43 | (14) | 7.09 |
| Massachusetts | 22.39 | 0.40 | (37) | -2.85 | Washington | 24.19 | 0.43 | (19) | 4.96 |
| Michigan | 21.81 | 0.32 | (43) | -5.36 | West Virginia | 20.95 | 0.70 | (46) | -9.12 |
| Minnesota | 23.86 | 0.47 | (22) | 3.52 | Wisconsin | 24.47 | 0.45 | (15) | 6.18 |
| Mississippi | 31.18 | 0.79 | (02) | 35.27^c | Wyoming | 22.79 | 1.46 | (32) | -1.11 |
| Missouri | 21.83 | 0.42 | (42) | -5.30 | | | | | |



**Age-Adjusted Death Rates per 100,000 Quantile Interval**

- 25.91 - 38.77
- 24.42 - 25.90
- 23.49 - 24.41
- 22.48 - 23.48
- 21.58 - 22.47
- 15.71 - 21.57

**U.S. Rate: 23.05**

a    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).
b    Difference between state rate and total U.S. rate is statistically significant (p<=.0002).
c    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.
-     Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 23.15
Cancer of the Prostate (Invasive)

Estimated United States Cancer Prevalence Counts[a] on January 1, 2010
By Race/Ethnicity 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 <18[e] | 0 to <35[e] | >=35[g] | Complete[h] |
|---|---|---|---|---|---|---|---|---|---|---|
| **Race** | | | | | | | | | | |
| All Races[b] | 1,026,391 | 792,069 | 487,305 | 251,456 | 45,972 | 10,179 | 2,557,220 | 2,616,190 | 1,492 | 2,617,682 |
| White[b] | 829,641 | 664,092 | 414,049 | 221,725 | 41,824 | 9,368 | 2,129,506 | 2,183,280 | 1,708 | 2,184,988 |
| Black[b] | 143,372 | 101,453 | 58,873 | 24,343 | 3,334 | 704 | 328,040 | 332,272 | 143 | 332,415 |
| Asian/Pacific Islander[c] | 20,238 | 14,164 | 6,970 | + | + | + | 43,551 | + | + | + |
| Hispanic[d] | 56,919 | 40,651 | 21,777 | + | + | + | 119,346 | + | + | + |

Estimated prevalence percent[a] on January 1, 2010, of the SEER 11 population diagnosed in the previous 18 years
By Age at Prevalence and Race/Ethnicity

| Age at Prevalence | All Ages | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80+ | Age-Adjusted[f] All Ages |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Age Specific (Crude) | | | | | | | |
| **Race** | | | | | | | | | | | |
| All Races[c] | 1.3222% | – | 0.0002% | 0.0002% | 0.0013% | 0.0852% | 1.0145% | 4.8944% | 10.9028% | 11.6130% | 1.5246% |
| White[c] | 1.3915% | – | – | – | 0.0008% | 0.0746% | 0.9740% | 4.8637% | 10.9694% | 11.2939% | 1.5083% |
| Black[c] | 1.4790% | – | – | – | 0.0038% | 0.2140% | 1.9558% | 8.2407% | 16.1070% | 15.8241% | 2.3520% |
| Asian/Pacific Islander[c] | 0.6478% | – | – | – | – | 0.0213% | 0.3416% | 1.9750% | 5.6894% | 8.6466% | 0.8183% |
| Hispanic[d] | 0.4767% | – | – | – | 0.0008% | 0.0396% | 0.6030% | 3.3919% | 8.9218% | 10.5882% | 1.2170% |

[a] US 2010 cancer prevalence counts are based on 2010 cancer prevalence proportions from the SEER registries and 1/1/2010 US population estimates based on the average of 2009 and 2010 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.

[b c d] Statistics based on (b) SEER 9 Areas (c) SEER 11 Areas and Rural Georgia (d) NHIA for Hispanic for SEER 11 Areas and Rural Georgia.

[e] Maximum limited-duration prevalence: 35 years for 1975-2010 SEER 9 data; 18 years for 1992-2010 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

[f] Percentages are age-adjusted to the 2000 US Standard Population (19 age groups - Census P25-1130) by 5-year age groups.
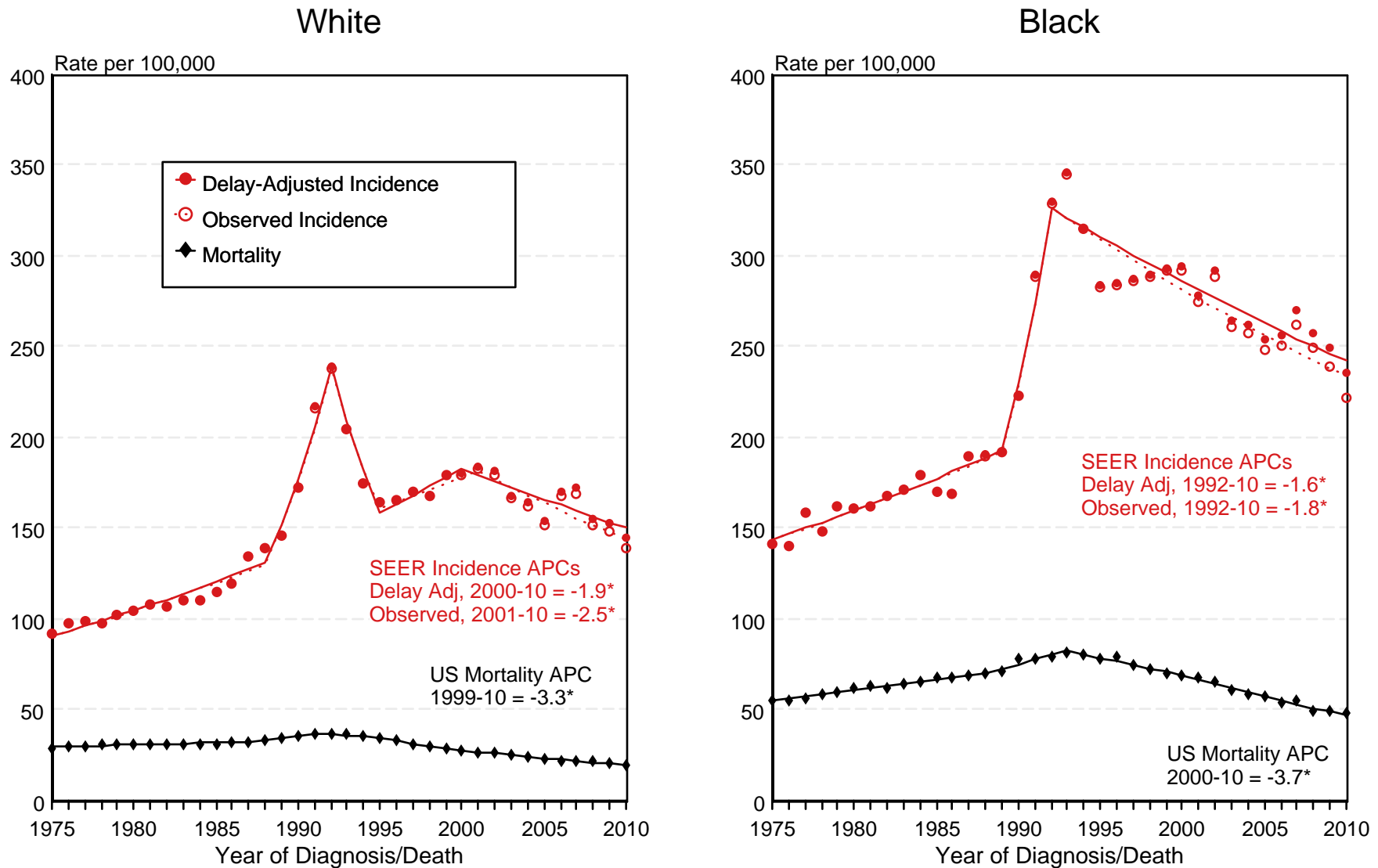
[g h i] (g) Cases diagnosed more than 35 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (h) Complete prevalence is obtained by summing 0 to <35 and >=35. (i) Age-specific completeness index was approximated using empirical data from historical Connecticut tumor registry.

– Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.
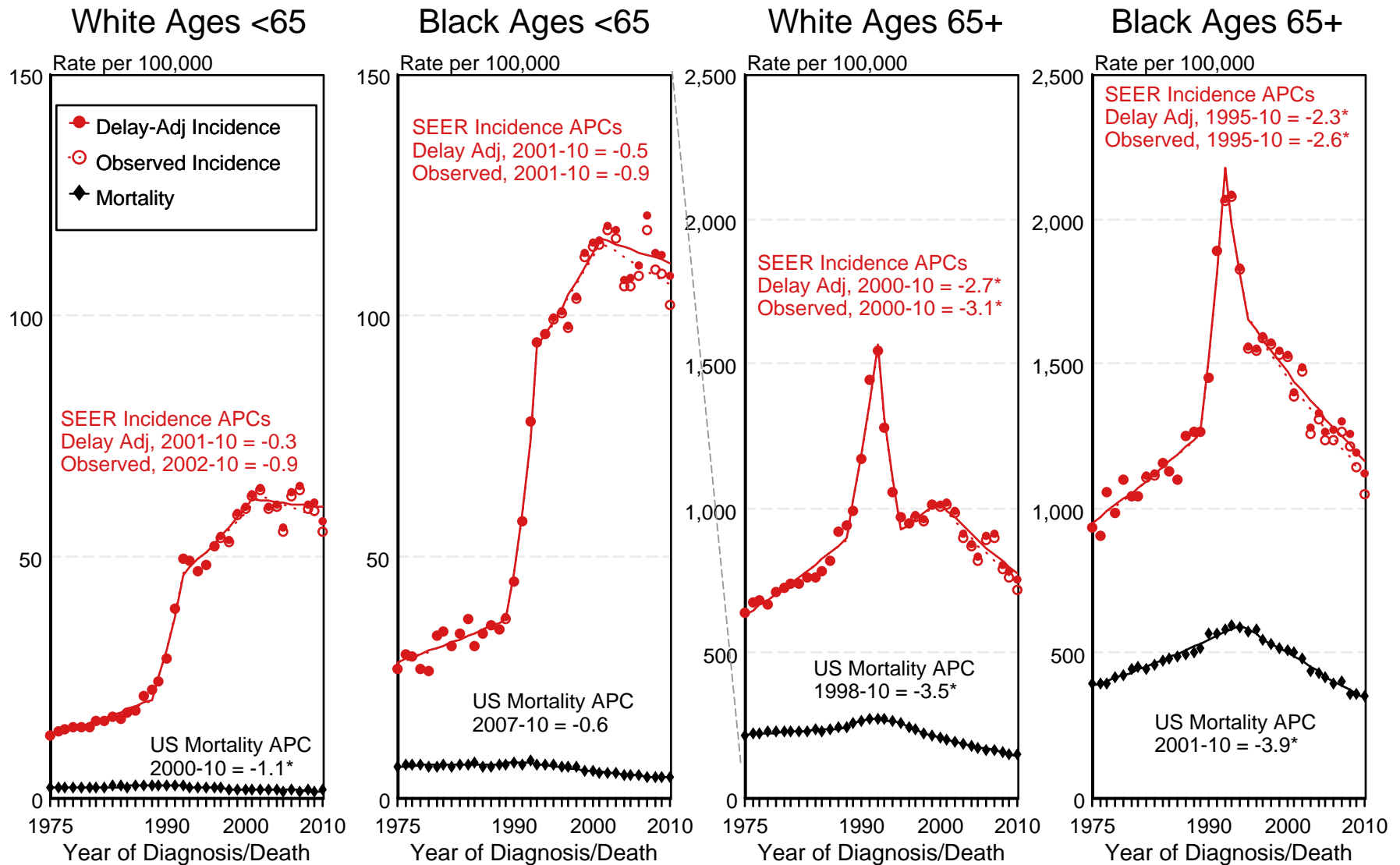
+ Not available.

Figure 23.1

SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates[a]
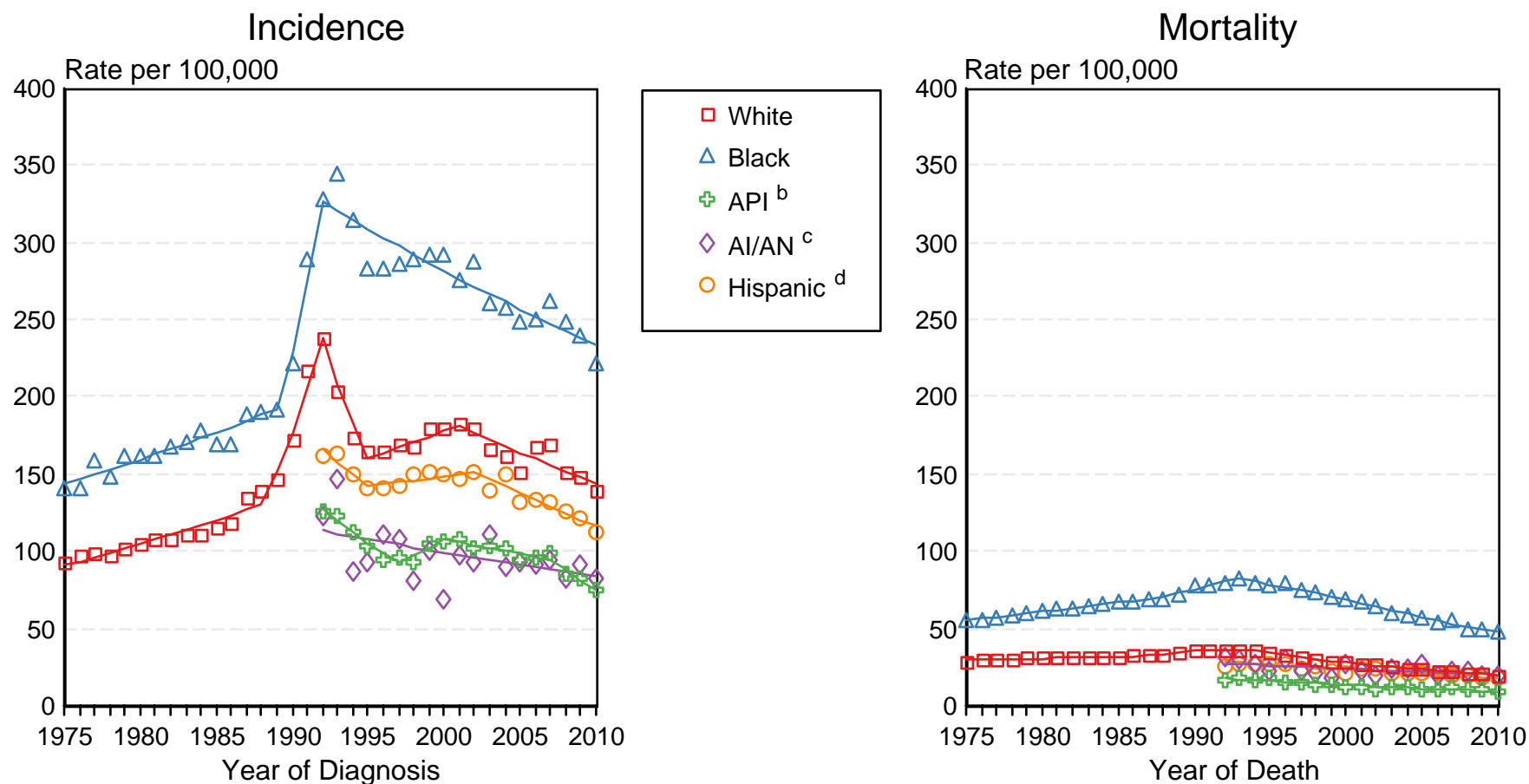Cancer of the Prostate, by Race

[a] 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 4.0.3, April 2013, 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 23.2

## SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates[a]
## Cancer of the Prostate, by Age and Race

### White Ages <65
Rate per 100,000

- ● Delay-Adj Incidence
- ◌ Observed Incidence
- ◆ Mortality

SEER Incidence APCs
Delay Adj, 2001-10 = -0.3
Observed, 2002-10 = -0.9

US Mortality APC
2000-10 = -1.1*

### Black Ages <65
Rate per 100,000

SEER Incidence APCs
Delay Adj, 2001-10 = -0.5
Observed, 2001-10 = -0.9

US Mortality APC
2007-10 = -0.6

### White Ages 65+
Rate per 100,000

SEER Incidence APCs
Delay Adj, 2000-10 = -2.7*
Observed, 2000-10 = -3.1*

US Mortality APC
1998-10 = -3.5*

### Black Ages 65+
Rate per 100,000

SEER Incidence APCs
Delay Adj, 1995-10 = -2.3*
Observed, 1995-10 = -2.6*

US Mortality APC
2001-10 = -3.9*

Year of Diagnosis/Death

[a] 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 4.0.3, April 2013, 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 23.3

# SEER Incidence and US Death Rates[a]
# Cancer of the Prostate
## Joinpoint Analyses for Whites and Blacks from 1975-2010
## and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2010



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.

[a] 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 4.0.3, April 2013, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2010 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 1992-2010 allow a maximum of 3 joinpoints.
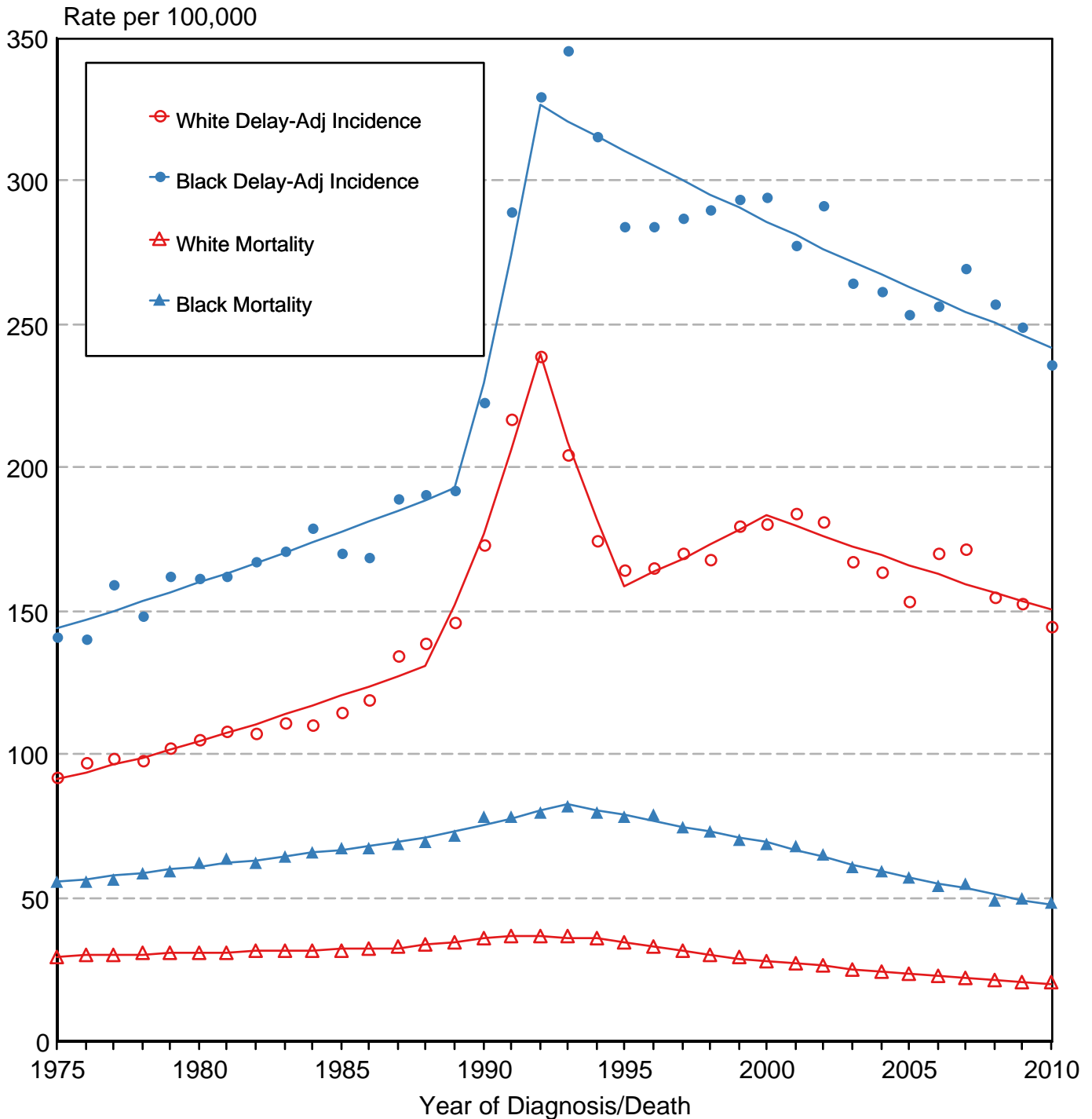
[b] API = Asian/Pacific Islander.

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

[d] 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, South Carolina, Oklahoma, and Vermont.
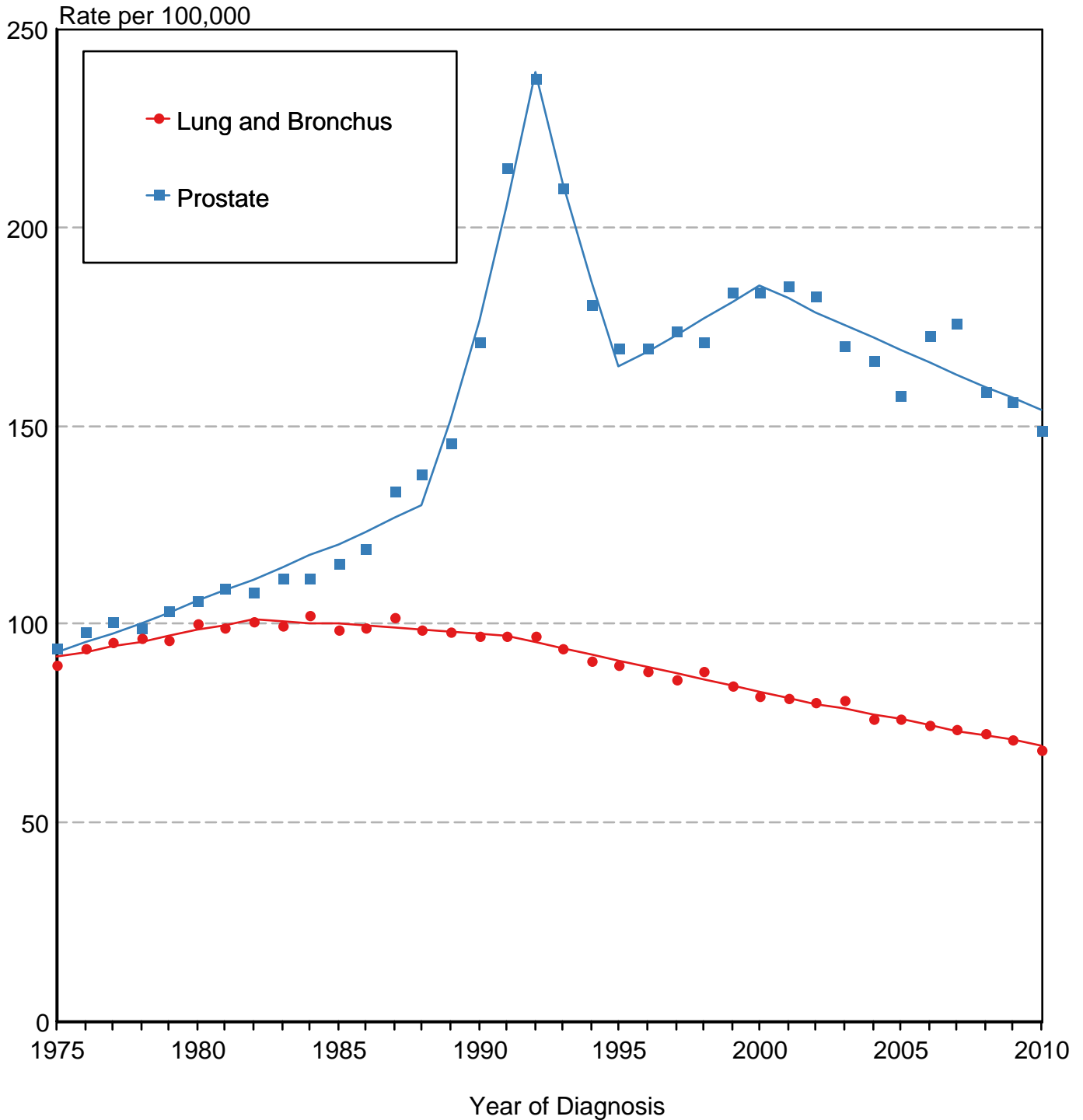
Figure 23.4

# Cancer of the Prostate
# Delay-Adjusted SEER Incidence & US Mortality
# 1975-2010

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 are calculated using the Joinpoint Regression Program Version 4.0.3, April 2013,
National Cancer Institute.

Figure 23.5

# Delay-Adjusted Incidence Rates for Cancer of the Prostate and Cancer of the Lung and Bronchus
## All Races, Males
## 1975-2010

Source: SEER 9 areas.  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 4.0.3, April 2013, National Cancer Institute.
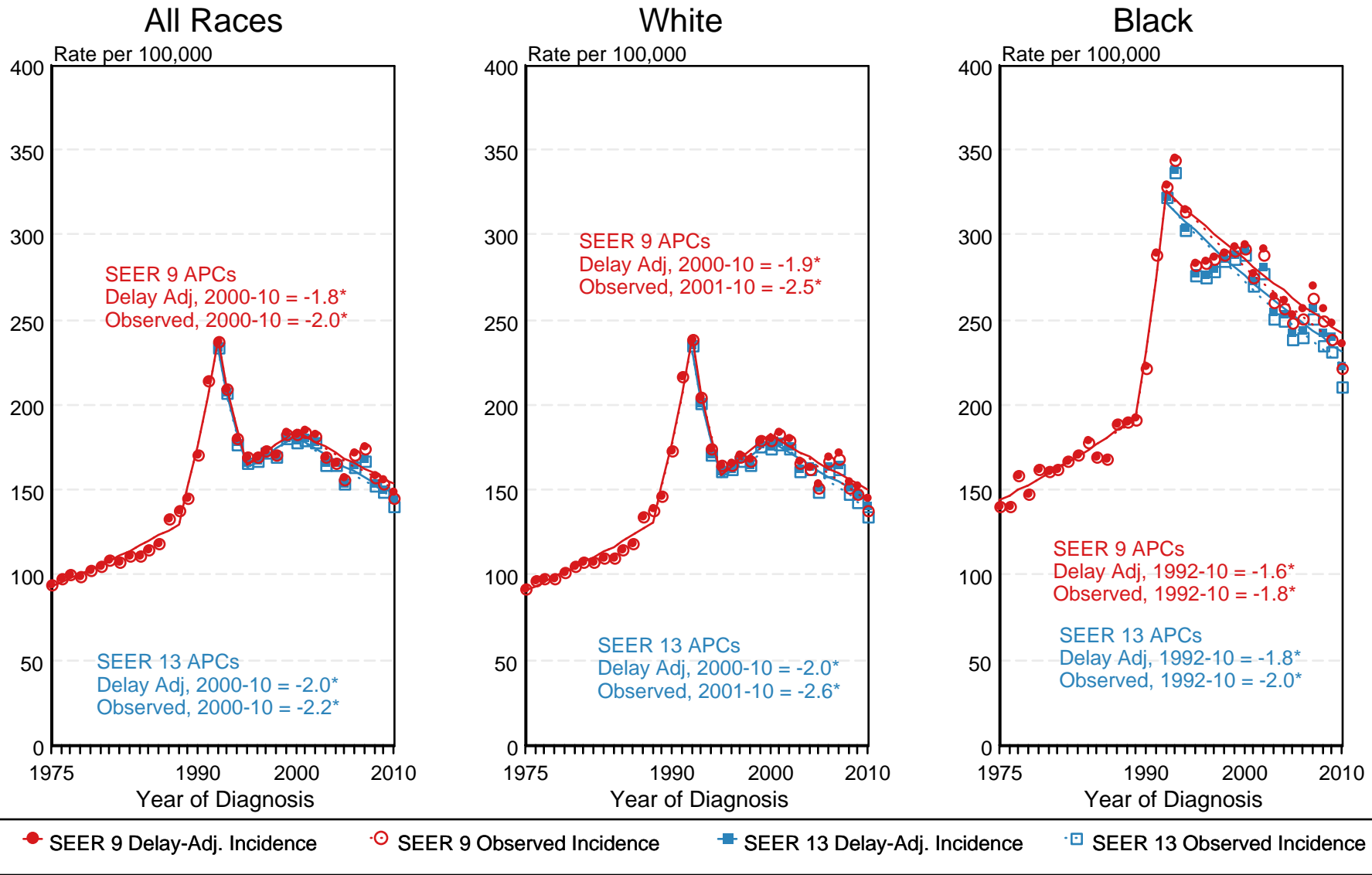
Figure 23.6

# SEER Observed Incidence and SEER Delay Adjusted Incidence Rates[a]
## SEER 9 Areas Compared to SEER 13 Areas
## Cancer of the Prostate, by Race



**All Races**

Rate per 100,000

SEER 9 APCs
Delay Adj, 2000-10 = -1.8*
Observed, 2000-10 = -2.0*

SEER 13 APCs
Delay Adj, 2000-10 = -2.0*
Observed, 2000-10 = -2.2*

Year of Diagnosis

**White**

Rate per 100,000

SEER 9 APCs
Delay Adj, 2000-10 = -1.9*
Observed, 2001-10 = -2.5*

SEER 13 APCs
Delay Adj, 2000-10 = -2.0*
Observed, 2001-10 = -2.6*

Year of Diagnosis

**Black**

Rate per 100,000

SEER 9 APCs
Delay Adj, 1992-10 = -1.6*
Observed, 1992-10 = -1.8*

SEER 13 APCs
Delay Adj, 1992-10 = -1.8*
Observed, 1992-10 = -2.0*

Year of Diagnosis

- ● SEER 9 Delay-Adj. Incidence
- ○ SEER 9 Observed Incidence
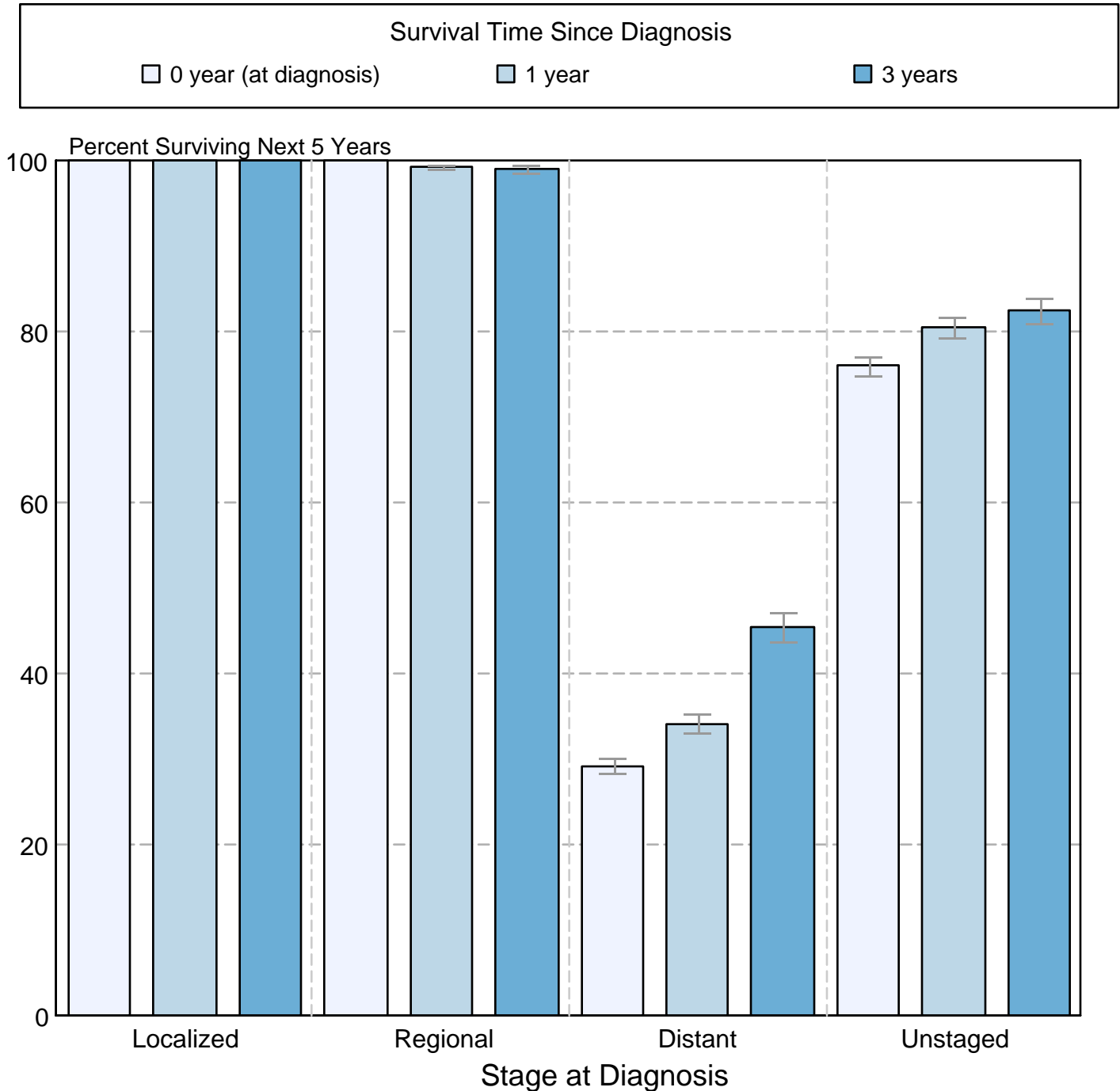- ■ SEER 13 Delay-Adj. Incidence
- □ SEER 13 Observed Incidence

a 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 4.0.3, April 2013, 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 23.7

# Cancer of the Prostate
## 5-Year SEER Conditional Relative Survival and
## 95% Confidence Intervals
Probabilty of surviving the next 5 years given the cohort
has already survived 0, 1, or 3 years
1998-2009 by stage at diagnosis

Survival Time Since Diagnosis

☐ 0 year (at diagnosis)          ☐ 1 year          ■ 3 years

Percent Surviving Next 5 Years



Stage at Diagnosis

Localized     Regional     Distant     Unstaged

Source:  SEER 18 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, New Jersey and Georgia excluding ATL/RG). California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG contribute cases for diagnosis years 2000-2009.
The remaining 13 SEER Areas contribute cases for the entire period 1998-2009.
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.