Table 23.1
Cancer of the Prostate (Invasive)

Trends in SEER Incidence and U.S. Mortality Using the Joinpoint Regression Program,
1975-2011 With up to Five Joinpoints, 1992-2011 With up to Three Joinpoints,
All Ages by Race/Ethnicity

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The APC is the Average Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups – Census P25-1130). The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

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

** Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose–Monterey, Rural Georgia, and the Alaska Native Registry).

The APC and AAPC are calculated using Joinpoint Regression Program Version 4.1.0, April 2014, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint/).

Cancer of the Prostate (Invasive)


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* 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).
Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).
Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).
The APC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.
API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic
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 New Hampshire and Oklahoma.
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\(^a\) and U.S. Mortality\(^b\) Using the Joinpoint Regression Program, 1975-2011 With up to Five Joinpoints, 1992-2011 With up to Three Joinpoints, Ages 65+ by Race/Ethnicity

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<td>1996-11</td>
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<td>AI/AN(^ef)</td>
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</table>

\(^a\) 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.
\(^e\) The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups – Census P25-1130).
\(^\text{AAPC}^d\) Jointpoint Regression Program Version 4.1.0, April 2014, National Cancer Institute. (http://surveillance.cancer.gov/Joinpoint/).
\(^\text{AAPC}^d\) Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
\(^\text{AAPC}^d\) Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose–Monterey, Rural Georgia, and the Alaska Native Registry).
\(^\text{AAPC}^d\) The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.
\(^\text{AAPC}^d\) The APC is significantly different from zero (p<.05).
Table 23.4
Cancer of the Prostate (Invasive)

Delay-adjusted SEER Incidence Rates by Year, Race and Age

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<th>Black Males</th>
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Additional information on the model used to delay-adjust SEER Incidence rates can be found at [http://surveillance.cancer.gov/delay/](http://surveillance.cancer.gov/delay/).

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 Rates by Year, Race and Age

<table>
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<th>Black Males</th>
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*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 Rates by Year, Race and Age

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* 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.
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<thead>
<tr>
<th>Age-Adjusted Rates, 2007-2011</th>
<th>SEER Incidence&lt;sup&gt;a&lt;/sup&gt;</th>
<th>U.S. Mortality&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age at Diagnosis/Death:</td>
<td>All Races</td>
<td>White</td>
</tr>
<tr>
<td>All ages</td>
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<td>139.9</td>
</tr>
<tr>
<td>Under 65</td>
<td>57.9</td>
<td>54.2</td>
</tr>
<tr>
<td>65 and over</td>
<td>769.1</td>
<td>732.2</td>
</tr>
<tr>
<td>All ages (IARC world std)&lt;sup&gt;c&lt;/sup&gt;</td>
<td>102.3</td>
<td>97.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Age-Specific Rates, 2007-2011</th>
<th>SEER Incidence&lt;sup&gt;a&lt;/sup&gt;</th>
<th>U.S. Mortality&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
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<td>Age at Diagnosis/Death:</td>
<td>All Races</td>
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</tr>
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<td>41.0</td>
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<tr>
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<td>134.7</td>
</tr>
<tr>
<td>15-19</td>
<td>321.6</td>
<td>303.5</td>
</tr>
<tr>
<td>20-24</td>
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<td>800.8</td>
</tr>
<tr>
<td>30-34</td>
<td>895.0</td>
<td>859.0</td>
</tr>
<tr>
<td>35-39</td>
<td>806.4</td>
<td>763.2</td>
</tr>
<tr>
<td>40-44</td>
<td>603.9</td>
<td>564.3</td>
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<td>460.1</td>
</tr>
<tr>
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<td>460.1</td>
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</tr>
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</tr>
<tr>
<td>75-79</td>
<td>490.6</td>
<td>460.1</td>
</tr>
<tr>
<td>80-84</td>
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</tr>
<tr>
<td>85+</td>
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<td>460.1</td>
</tr>
</tbody>
</table>

<sup>a</sup> 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.

<sup>b</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), unless noted.

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

<sup>d</sup> Statistic not shown. Rate based on less than 16 cases for the time interval.
### Table 23.8

Cancer of the Prostate (Invasive)

5-Year Relative and Period Survival (Percent) by Race, Diagnosis Year, Stage and Age

<table>
<thead>
<tr>
<th>All Races, Males</th>
<th>White Males</th>
<th>Black Males</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5-Year Relative Survival (Percent)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stage at diagnosis:</strong></td>
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<td></td>
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<tr>
<td><strong>Unstaged</strong></td>
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<td>-</td>
</tr>
<tr>
<td><strong>Regional</strong></td>
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<tr>
<td><strong>Localized</strong></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>All Stages</strong></td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

| **5-Year Period Survival (Percent)** |
| **2010** | 98.8 | 99.1 | 98.6 | 99.1 | 99.3 | 98.9 | 97.1 | 98.3 | 95.6 |

#### Stage Distribution (% 2004–2010)

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<th>All Stages</th>
<th>Number of cases</th>
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<tr>
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</tr>
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<td>100%</td>
<td>908</td>
<td></td>
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<tr>
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<td>707</td>
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</tr>
<tr>
<td>100%</td>
<td>535</td>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
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<td>273</td>
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</tr>
<tr>
<td>100%</td>
<td>84</td>
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</tr>
<tr>
<td>100%</td>
<td>74</td>
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<td>100%</td>
<td>59</td>
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<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>100%</td>
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</tr>
<tr>
<td>100%</td>
<td>12</td>
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<td>100%</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>100%</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>100%</td>
<td>7</td>
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</tr>
<tr>
<td>100%</td>
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<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>100%</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**

- Based on End Results data from a series of hospital registries and one population-based registry.
- SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).
- Based on follow-up of patients into 2011.
- 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 2011.
- Stage at diagnosis is classified using SEER Summary Stage 2000. Stage distribution percentages may not sum to 100 due to rounding.
- The difference between 1975–1977 and 2004–2010 is statistically significant (p<.05).
- The standard error is in between 5 and 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 Relative Survival (Percent)
By Year of Diagnosis

All Races, Males

<table>
<thead>
<tr>
<th>Year of Diagnosis</th>
<th>Survival Time</th>
</tr>
</thead>
</table>
| 1980-1984         | 84.5, 87.4, 91.0, 97.3, 97.6, 98.0, 98.8, 98.9, 99.6, 99.5, 99.9, 99.8, 99.7, 99.8, 99.8, 99.8, 99.5 | 2-year
| 1985-1989         | 78.3, 81.5, 86.9, 96.0, 96.9, 97.4, 98.4, 98.5, 99.6, 99.2, 99.9, 99.8, 99.5, 99.7, 99.6, 99.8, 99.8 | 3-year
| 1990-1994         | 73.2, 76.4, 83.5, 94.9, 96.3, 96.8, 97.9, 98.2, 99.3, 99.9, 99.8, 99.5, 99.7, 99.6, 99.6, 99.7 | 4-year
| 2000-2004         | 65.2, 68.5, 77.9, 92.7, 95.4, 96.0, 97.3, 98.1, 99.3, 98.7, 99.9, 99.8, 99.3, 99.7, 99.6 | 6-year
| 2005-2009         | 61.8, 65.0, 75.4, 91.6, 95.0, 95.5, 97.3, 97.8, 99.2, 98.7, 99.9, 99.8, 99.2, 99.7 | 7-year
| 2010              | 58.5, 61.9, 73.3, 90.6, 94.7, 95.1, 97.2, 97.8, 99.0, 98.5, 99.9, 99.8, 99.2, 99.7 | 8-year
| 2011              | 55.8, 59.7, 71.4, 89.5, 94.4, 94.6, 96.8, 97.3, 98.8, 98.5, 99.9, 99.8 | 9-year
| 2012              | 53.2, 57.8, 69.6, 88.5, 93.7, 94.5, 96.8, 96.9, 98.4, 98.5, 99.9 | 10-year
| 2013              | 50.6, 55.5, 67.8, 87.6, 93.0, 94.2, 96.6, 96.5, 98.2, 97.6 | 11-year
| 2014              | 48.4, 53.5, 66.0, 86.7, 92.1, 93.8, 96.3, 95.8, 97.7 | 12-year
| 2015              | 46.5, 51.7, 64.4, 86.1, 91.2, 93.2, 95.5, 95.5 | 13-year
| 2016              | 44.8, 50.1, 63.0, 85.2, 90.2, 92.9, 94.9 | 14-year
| 2017              | 43.6, 48.7, 61.5, 84.3, 89.4, 92.2 | 15-year
| 2018              | 41.9, 46.9, 60.0, 83.4, 88.9 | 16-year
| 2019              | 40.1, 45.8, 59.3, 82.5 | 17-year
| 2020              | 38.8, 44.4, 58.2 | 18-year
| 2021              | 38.0, 43.0, 57.7 | 19-year
| 2022              | 37.0, 41.5, 56.7 | 20-year
| 2023              | 35.4, 40.6, 55.8 | 21-year
| 2024              | 34.0, 39.3, 54.4 | 22-year
| 2025              | 33.1, 38.0 | 23-year
| 2026              | 32.3, 37.0 | 24-year
| 2027              | 30.8, 35.5 | 25-year
| 2028              | 30.2, 34.2 | 26-year
| 2029              | 29.4, 33.9 | 27-year
| 2030              | 28.6 | 28-year
| 2031              | 27.9 | 29-year
| 2032              | 26.4 | 30-year

* 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, 2009-2011 By Race/Ethnicity

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Current Age</th>
<th>+10 yrs</th>
<th>+20 yrs</th>
<th>+30 yrs</th>
<th>Ever</th>
</tr>
</thead>
<tbody>
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<td>0.00</td>
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</tr>
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<td>0.01</td>
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</tr>
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<td>8.04</td>
<td>15.69</td>
</tr>
<tr>
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<td>7.98</td>
<td>13.47</td>
<td>15.91</td>
</tr>
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<td>12.34</td>
<td>14.57</td>
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<td>–</td>
<td>10.86</td>
</tr>
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<td>80</td>
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<td>–</td>
<td>–</td>
<td>5.18</td>
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</table>

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Current Age</th>
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<th>+20 yrs</th>
<th>+30 yrs</th>
<th>Ever</th>
</tr>
</thead>
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<td>10.09</td>
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<td>80</td>
<td>3.95</td>
<td>–</td>
<td>–</td>
<td>4.72</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Current Age</th>
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<th>+20 yrs</th>
<th>+30 yrs</th>
<th>Ever</th>
</tr>
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<tbody>
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</table>

<table>
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<td>6.23</td>
<td>20.90</td>
</tr>
<tr>
<td></td>
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<td>6.20</td>
<td>11.60</td>
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</tr>
<tr>
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<td>70</td>
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<td>10.01</td>
<td>–</td>
<td>14.03</td>
</tr>
<tr>
<td></td>
<td>80</td>
<td>4.45</td>
<td>–</td>
<td>–</td>
<td>5.68</td>
</tr>
</tbody>
</table>

- A percent of 0.00 represents a value that is below 0.005.
- Statistic could not be calculated.

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 SP/JSM/LA, Kentucky, Louisiana, New Jersey, and Georgia excluding ATL/RG). Mortality data are from the NCHS public use data file for the total US.

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

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.
### Table 23.11

Cancer of the Prostate (Invasive)

SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends

By Race/Ethnicity

<table>
<thead>
<tr>
<th>SEER Incidence</th>
<th>SEER 18 Areas</th>
<th>SEER 13 Areas</th>
<th>SEER 9 Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate 2007-2011</td>
<td>Trend 2002-2011</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>Rate per 100,000 persons</td>
<td>Males</td>
<td>Males</td>
<td>Males</td>
</tr>
</tbody>
</table>

**RACE/ETHNICITY**

| All Races | 147.8 | -2.5* | -2.4* |
| White | 139.9 | -2.7* | -2.7* |
| White Hispanic | 120.3 | -3.4* | - |
| White Non-Hispanic | 143.3 | -2.5* | - |
| Black | 223.9 | -2.0* | -2.6* |
| Asian/Pacific Islander | 79.3 | -3.6* | - |
| Amer Ind/Alaska Nat | 71.5 | -1.9* | - |
| Hispanic | 121.8 | -3.4* | - |

**U.S. Mortality**

| Rate 2007-2011 | Trend 2002-2011 | AAPC (%) |
| Rate per 100,000 persons | Males | Males |

| All Races | 22.3 | -3.3* |
| White | 20.6 | -3.3* |
| White Hispanic | 19.1 | -2.3* |
| White Non-Hispanic | 20.7 | -3.3* |
| Black | 48.9 | -3.6* |
| Asian/Pacific Islander | 10.0 | -3.4* |
| Amer Ind/Alaska Nat | | | |
| Total U.S. | 16.8 | -2.5* |
| CHSDA Counties | 21.2 | -1.5* |
| Non-CHSDA Counties | 11.5 | -3.7* |
| Hispanic | 18.5 | -2.6* |

The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 4.1.0, April 2014, National Cancer Institute.

Note:
- Trend based on less than 10 cases for at least one year within the time interval.
- 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.
- The 2002-2011 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 1992-2011.
- The 2002-2011 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2011.
- The 2002-2011 mortality AAPCs are based on a Joinpoint analysis using years of death 1992-2011.
- The APC is significantly different from zero (p<.05).
## Table 23.12

Cancer of the Prostate (Invasive)

Age-Adjusted SEER Incidence Rates*

By Registry, Race and Age

<table>
<thead>
<tr>
<th>SEER Incidence Rates*, 2007-2011</th>
<th>All Races</th>
<th>Whites</th>
<th>Blacks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Ages</td>
<td>Ages &lt;65</td>
<td>Ages 65+</td>
</tr>
<tr>
<td>California</td>
<td>136.40</td>
<td>50.66</td>
<td>729.08</td>
</tr>
<tr>
<td>Greater Bay Area</td>
<td>147.16</td>
<td>56.58</td>
<td>733.23</td>
</tr>
<tr>
<td>San Francisco-Oakland</td>
<td>142.91</td>
<td>55.68</td>
<td>745.95</td>
</tr>
<tr>
<td>San Jose-Monterey</td>
<td>155.45</td>
<td>58.34</td>
<td>826.78</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>130.63</td>
<td>48.30</td>
<td>699.74</td>
</tr>
<tr>
<td>Greater California</td>
<td>135.19</td>
<td>49.58</td>
<td>726.96</td>
</tr>
<tr>
<td>Connecticut</td>
<td>152.39</td>
<td>65.23</td>
<td>754.81</td>
</tr>
<tr>
<td>Detroit</td>
<td>190.97</td>
<td>78.18</td>
<td>970.61</td>
</tr>
<tr>
<td>Georgia</td>
<td>160.98</td>
<td>67.42</td>
<td>807.68</td>
</tr>
<tr>
<td>Atlanta</td>
<td>183.28</td>
<td>77.79</td>
<td>912.48</td>
</tr>
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<td>155.13</td>
<td>63.39</td>
<td>789.28</td>
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<td>62.49</td>
<td>770.73</td>
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<tr>
<td>Hawaii</td>
<td>113.95</td>
<td>35.04</td>
<td>659.36</td>
</tr>
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<td>Iowa</td>
<td>133.32</td>
<td>52.06</td>
<td>695.02</td>
</tr>
<tr>
<td>Kentucky</td>
<td>128.80</td>
<td>51.29</td>
<td>664.60</td>
</tr>
<tr>
<td>Louisiana</td>
<td>168.89</td>
<td>68.46</td>
<td>863.09</td>
</tr>
<tr>
<td>New Jersey</td>
<td>166.12</td>
<td>68.89</td>
<td>838.19</td>
</tr>
<tr>
<td>New Mexico</td>
<td>124.38</td>
<td>46.85</td>
<td>660.29</td>
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<tr>
<td>Seattle-Puget Sound</td>
<td>154.59</td>
<td>58.62</td>
<td>817.96</td>
</tr>
<tr>
<td>Utah</td>
<td>170.60</td>
<td>64.35</td>
<td>905.09</td>
</tr>
</tbody>
</table>

| 9 SEER Areas*                     | 154.18    | 61.34   | 795.89  | 148.67    | 58.37    | 772.83   | 238.23    | 108.46   | 1135.24  |
| 11 SEER Areas*                    | 149.14    | 58.34   | 776.80  | 144.24    | 55.96    | 754.47   | 227.10    | 106.10   | 1063.53  |
| 13 SEER Areas*                    | 149.00    | 58.28   | 776.09  | 144.19    | 55.94    | 754.23   | 226.83    | 105.87   | 1062.93  |
| 18 SEER Areas*                    | 147.77    | 57.88   | 769.13  | 139.93    | 54.24    | 732.20   | 223.87    | 101.18   | 1071.93  |

---

*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)

<table>
<thead>
<tr>
<th>SEER Death Rates*, 2007-2011</th>
<th>All Ages</th>
<th>Ages &lt;65</th>
<th>Ages 65+</th>
<th>All Ages</th>
<th>Ages &lt;65</th>
<th>Ages 65+</th>
<th>All Ages</th>
<th>Ages &lt;65</th>
<th>Ages 65+</th>
</tr>
</thead>
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<tr>
<td>California</td>
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<td>1.67</td>
<td>161.56</td>
<td>22.27</td>
<td>1.63</td>
<td>164.92</td>
<td>48.26</td>
<td>4.86</td>
<td>348.25</td>
</tr>
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<td>19.57</td>
<td>1.58</td>
<td>143.93</td>
<td>21.12</td>
<td>1.56</td>
<td>156.35</td>
<td>45.48</td>
<td>5.79</td>
<td>319.80</td>
</tr>
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<td>21.48</td>
<td>1.46</td>
<td>159.87</td>
<td>47.32</td>
<td>6.35</td>
<td>330.48</td>
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<td>132.43</td>
<td>20.47</td>
<td>1.74</td>
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<td>-</td>
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<td>1.54</td>
<td>160.70</td>
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<td>379.22</td>
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<td>45.19</td>
<td>4.49</td>
<td>326.47</td>
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<td>-</td>
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<td>157.70</td>
<td>45.09</td>
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<td>144.40</td>
<td>46.81</td>
<td>4.83</td>
<td>336.96</td>
</tr>
<tr>
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<td>22.81</td>
<td>1.64</td>
<td>169.15</td>
<td>50.39</td>
<td>3.97</td>
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<td>186.32</td>
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<tr>
<td>9 SEER Areasb</td>
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<td>1.69</td>
<td>162.55</td>
<td>21.43</td>
<td>1.48</td>
<td>159.35</td>
<td>44.68</td>
<td>4.49</td>
<td>322.50</td>
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<td>1.68</td>
<td>161.04</td>
<td>21.42</td>
<td>1.50</td>
<td>159.08</td>
<td>46.48</td>
<td>4.51</td>
<td>336.54</td>
</tr>
<tr>
<td>13 SEER Areasb</td>
<td>21.87</td>
<td>1.68</td>
<td>161.45</td>
<td>21.44</td>
<td>1.50</td>
<td>159.28</td>
<td>46.89</td>
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<tr>
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<td>164.73</td>
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<td>1.54</td>
<td>158.11</td>
<td>48.18</td>
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<tr>
<td>Total U.S.</td>
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<td>164.86</td>
<td>20.61</td>
<td>1.47</td>
<td>152.97</td>
<td>48.93</td>
<td>4.41</td>
<td>356.66</td>
</tr>
</tbody>
</table>

* US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

b Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.

The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.

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 23.14
Cancer of the Prostate (Invasive)
Age-Adjusted Cancer Death* Rates By State, All Races, 2007-2011

Males

<table>
<thead>
<tr>
<th>State</th>
<th>Rate</th>
<th>SE</th>
<th>Rank</th>
<th>PD</th>
</tr>
</thead>
<tbody>
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<td>TOTAL U.S.</td>
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<td>0.66</td>
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<td></td>
</tr>
<tr>
<td>High Five States</td>
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<td></td>
<td></td>
</tr>
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<td>D.C.</td>
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<td>1.93</td>
<td>(01)</td>
<td>68.21</td>
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<td>(02)</td>
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<td>(03)</td>
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<td>(05)</td>
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<td>Low Five States</td>
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<td></td>
</tr>
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<td>(47)</td>
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<td>0.57</td>
<td>(48)</td>
<td>-8.58</td>
</tr>
<tr>
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<td>(49)</td>
<td>-10.18</td>
</tr>
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<td>19.52</td>
<td>0.19</td>
<td>(50)</td>
<td>-12.66</td>
</tr>
<tr>
<td>Hawaii</td>
<td>15.56</td>
<td>0.68</td>
<td>(51)</td>
<td>-30.36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>State</th>
<th>Rate</th>
<th>SE</th>
<th>Rank</th>
<th>PD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama</td>
<td>28.17</td>
<td>0.56</td>
<td>(03)</td>
<td>26.07</td>
</tr>
<tr>
<td>Arizona</td>
<td>20.07</td>
<td>0.38</td>
<td>(49)</td>
<td>-10.18</td>
</tr>
<tr>
<td>Arkansas</td>
<td>24.31</td>
<td>0.63</td>
<td>(12)</td>
<td>8.78</td>
</tr>
<tr>
<td>California</td>
<td>21.88</td>
<td>0.18</td>
<td>(35)</td>
<td>-2.09</td>
</tr>
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<td>(24)</td>
<td>2.17</td>
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<tr>
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<td>0.51</td>
<td>(37)</td>
<td>-3.97</td>
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<td>(17)</td>
<td>5.43</td>
</tr>
<tr>
<td>D.C.</td>
<td>37.59</td>
<td>1.93</td>
<td>(01)</td>
<td>68.21</td>
</tr>
<tr>
<td>Florida</td>
<td>19.52</td>
<td>0.19</td>
<td>(50)</td>
<td>-12.66</td>
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<tr>
<td>Georgia</td>
<td>25.97</td>
<td>0.44</td>
<td>(05)</td>
<td>16.20</td>
</tr>
<tr>
<td>Hawaii</td>
<td>15.56</td>
<td>0.68</td>
<td>(51)</td>
<td>-30.36</td>
</tr>
<tr>
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<td>0.92</td>
<td>(06)</td>
<td>15.35</td>
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<td>0.31</td>
<td>(20)</td>
<td>4.32</td>
</tr>
<tr>
<td>Indiana</td>
<td>22.71</td>
<td>0.42</td>
<td>(26)</td>
<td>1.64</td>
</tr>
<tr>
<td>Iowa</td>
<td>21.66</td>
<td>0.54</td>
<td>(36)</td>
<td>-3.08</td>
</tr>
<tr>
<td>Kansas</td>
<td>20.43</td>
<td>0.57</td>
<td>(48)</td>
<td>-8.58</td>
</tr>
<tr>
<td>Kentucky</td>
<td>22.33</td>
<td>0.53</td>
<td>(31)</td>
<td>0.08</td>
</tr>
<tr>
<td>Louisiana</td>
<td>25.06</td>
<td>0.56</td>
<td>(07)</td>
<td>12.13</td>
</tr>
<tr>
<td>Maine</td>
<td>22.05</td>
<td>0.83</td>
<td>(33)</td>
<td>-1.32</td>
</tr>
<tr>
<td>Maryland</td>
<td>23.74</td>
<td>0.47</td>
<td>(16)</td>
<td>6.23</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>21.40</td>
<td>0.38</td>
<td>(39)</td>
<td>-4.25</td>
</tr>
<tr>
<td>Michigan</td>
<td>21.11</td>
<td>0.32</td>
<td>(44)</td>
<td>-5.53</td>
</tr>
<tr>
<td>Minnesota</td>
<td>23.44</td>
<td>0.46</td>
<td>(18)</td>
<td>4.89</td>
</tr>
<tr>
<td>Mississippi</td>
<td>29.57</td>
<td>0.76</td>
<td>(02)</td>
<td>32.32</td>
</tr>
<tr>
<td>Missouri</td>
<td>20.69</td>
<td>0.40</td>
<td>(46)</td>
<td>-12.66</td>
</tr>
</tbody>
</table>

*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).

b 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, 2011

By Race/Ethnicity and Years Since Diagnosis

<table>
<thead>
<tr>
<th>Years Since Diagnosis</th>
<th>0 to &lt;5</th>
<th>5 to &lt;10</th>
<th>10 to &lt;15</th>
<th>15 to &lt;20</th>
<th>20 to &lt;25</th>
<th>25 to &lt;30</th>
<th>0 to &lt;19(^a)</th>
<th>0 to &lt;36(^a)</th>
<th>&gt;=36(^a)</th>
<th>Complete(^b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Race</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Races(^b)</td>
<td>1,047,674</td>
<td>793,365</td>
<td>518,837</td>
<td>274,354</td>
<td>57,736</td>
<td>11,316</td>
<td>2,655,003</td>
<td>2,706,583</td>
<td>1,238</td>
<td>2,707,821</td>
</tr>
<tr>
<td>White(^b)</td>
<td>842,834</td>
<td>661,840</td>
<td>439,478</td>
<td>239,979</td>
<td>52,556</td>
<td>10,463</td>
<td>2,203,073</td>
<td>2,250,165</td>
<td>1,432</td>
<td>2,251,597</td>
</tr>
<tr>
<td>Black(^b)</td>
<td>147,861</td>
<td>103,144</td>
<td>63,749</td>
<td>28,209</td>
<td>4,112</td>
<td>753</td>
<td>344,435</td>
<td>348,058</td>
<td>120</td>
<td>348,178</td>
</tr>
<tr>
<td>Asian/Pacific Islander(^c)</td>
<td>20,777</td>
<td>14,755</td>
<td>7,797</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>46,251</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Hispanic(^d)</td>
<td>58,787</td>
<td>42,509</td>
<td>23,815</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>134,478</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

Estimated prevalence percent\(^a\) on January 1, 2011, of the SEER\(^c\) population diagnosed in the previous 19 years

By Age at Prevalence and Race/Ethnicity

<table>
<thead>
<tr>
<th>Age at Prevalence</th>
<th>All Ages</th>
<th>0-9</th>
<th>10-19</th>
<th>20-29</th>
<th>30-39</th>
<th>40-49</th>
<th>50-59</th>
<th>60-69</th>
<th>70-79</th>
<th>80+</th>
<th>All Ages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Race</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Races(^e)</td>
<td>1.4779%</td>
<td>-</td>
<td>-</td>
<td>0.0003%</td>
<td>0.0012%</td>
<td>0.0848%</td>
<td>1.0293%</td>
<td>4.9999%</td>
<td>11.8211%</td>
<td>14.5189%</td>
<td>1.6885%</td>
</tr>
<tr>
<td>White(^e)</td>
<td>1.5645%</td>
<td>-</td>
<td>-</td>
<td>0.0004%</td>
<td>0.0010%</td>
<td>0.0728%</td>
<td>0.9891%</td>
<td>4.9616%</td>
<td>11.9421%</td>
<td>14.3476%</td>
<td>1.6793%</td>
</tr>
<tr>
<td>Black(^e)</td>
<td>1.6401%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.0034%</td>
<td>0.2242%</td>
<td>1.9728%</td>
<td>8.4530%</td>
<td>17.5682%</td>
<td>20.0518%</td>
<td>2.6097%</td>
</tr>
<tr>
<td>Asian/Pacific Islander(^e)</td>
<td>0.7034%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.0224%</td>
<td>0.3432%</td>
<td>2.0078%</td>
<td>5.8919%</td>
<td>9.7833%</td>
<td>0.8715%</td>
</tr>
<tr>
<td>Hispanic(^d)</td>
<td>0.5263%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.0006%</td>
<td>0.0396%</td>
<td>0.6144%</td>
<td>3.3964%</td>
<td>9.4474%</td>
<td>12.7016%</td>
<td>1.3237%</td>
</tr>
</tbody>
</table>

\(^a\) US 2011 cancer prevalence counts are based on 2011 cancer prevalence proportions from the SEER registries and 1/1/2011 US population estimates based on the average of 2010 and 2011 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.

\(^b\) 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.

\(^c\) Maximum limited-duration prevalence: 36 years for 1975-2011 SEER 9 data; 19 years for 1992-2011 SEER 11 data

\(^d\) Percentages are age-adjusted to the 2000 US Standard Population (19 age groups – Census P25-1130) by 5-year age groups.

\(^e\) Cases diagnosed more than 36 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (b) Complete prevalence is obtained by summing 0 to <36 and >=36. (i) Age-specific completeness index was approximated using empirical data from historical Connecticut tumor registry.

\(^f\) Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.

\(^g\) Not available.
SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates\textsuperscript{a}
Cancer of the Prostate, by Race

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 4.1.0, April 2014, 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, SEER Delay Adjusted Incidence and US Death Rates
Cancer of the Prostate, by Age and Race

White Ages <65
Black Ages <65
White Ages 65+
Black Ages 65+

SEER Incidence APCs
Delay Adj, 2002-11 = -0.9
Observed, 2002-11 = -1.2*

US Mortality APC
2000-11 = -1.2*

SEER Incidence APCs
Delay Adj, 2001-11 = -0.7
Observed, 2001-11 = -1.0*

US Mortality APC
2006-11 = -1.5

SEER Incidence APCs
Delay Adj, 2000-11 = -2.9*
Observed, 2000-11 = -3.2*

US Mortality APC
1998-11 = -3.4*

SEER Incidence APCs
Delay Adj, 1995-11 = -2.5*
Observed, 1995-11 = -2.7*

US Mortality APC
2001-11 = -4.0*

---

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 4.1.0, April 2014, 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\textsuperscript{a}
Cancer of the Prostate
Joinpoint Analyses for Whites and Blacks from 1975-2011
and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2011

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. 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 4.1.0, April 2014, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2011 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 1992-2011 allow a maximum of 3 joinpoints. API = Asian/Pacific Islander. AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties. 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 New Hampshire and Oklahoma.
Cancer of the Prostate
Delay-Adjusted SEER Incidence & US Mortality
1975-2011

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 4.1.0, April 2014,
National Cancer Institute.
Delay-Adjusted Incidence Rates for Cancer of the Prostate and Cancer of the Lung and Bronchus
All Races, Males
1975-2011

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 4.1.0, April 2014, National Cancer Institute.
SEER Observed Incidence and SEER Delay Adjusted Incidence Rates

SEER 9 Areas Compared to SEER 13 Areas
Cancer of the Prostate, by Race

All Races

White

Black

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 4.1.0, April 2014, 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
Probability of surviving the next 5 years given the cohort
has already survived 0, 1, or 3 years
1998-2010 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 1998-2010.
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.