Table 25.1
Cancer of the Testis (Invasive)

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\(^a\) 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 21 areas (SEER 9 areas, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/BS, Idaho, New York and Massachusetts).

\(^c\) 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.

\(^g\) Data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

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

Joinpoint regression line analysis could not be performed on data series.
Table 25.2
Cancer of the Testis (Invasive)

Trends in SEER Incidence and U.S. Mortality Using the Joinpoint Regression Program, 1975-2016 With up to Five Joinpoints, 2000-2016 With up to Three Joinpoints, Ages <50 by Race/Ethnicity

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<td><strong>U.S. Cancer Mortality</strong>, 2000-2016</td>
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<sup>a</sup> Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

<sup>b</sup> Trends are from the SEER 21 areas (SEER 9 areas, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding LF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

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

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

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

<sup>f</sup> Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

<sup>g</sup> Data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

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

<sup>i</sup> Joinpoint regression line analysis could not be performed on data series.
Table 25.3
Cancer of the Testis (Invasive)

Trends in SEER Incidence\(^ab\) and U.S. Mortality\(^c\) Using the Joinpoint Regression Program,
1975-2016 With up to Five Joinpoints, 2000-2016 With up to Three Joinpoints,
Ages 50+ by Race/Ethnicity

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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).

\(^a\) 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 21 areas (SEER 9 areas, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

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\(^\ast\) Data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

\(^\ast\) The APC/AAPC is significantly different from zero (p < 0.05).

- Joinpoint regression line analysis could not be performed on data series.
### Table 25.4
Cancer of the Testis (Invasive)

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

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<td>9.34 2.63</td>
<td>9.34 2.63</td>
<td>1.78 1.50</td>
</tr>
</tbody>
</table>

Reference: 
Cancer Incidence Rates Adjusted for Reporting Delay.

Individual rates for diagnosis years 1975-1979 available in web browser version of Cancer Statistics Review.

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 25.5
Cancer of the Testis (Invasive)
Age-adjusted SEER Incidence Rates by Year, Race and Age

<table>
<thead>
<tr>
<th>Year of Diagnosis:</th>
<th>All Races, Males</th>
<th>White Males</th>
<th>Black Males</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All &lt;50 50+</td>
<td>All &lt;50 50+</td>
<td>All &lt;50 50+</td>
</tr>
<tr>
<td>1975-2016</td>
<td>5.30 6.50 2.16</td>
<td>6.18 7.62 2.40</td>
<td>1.27 1.46 0.79</td>
</tr>
<tr>
<td>1975-1979</td>
<td>3.79 4.46 2.04</td>
<td>4.22 4.98 2.25</td>
<td>0.93 1.12 -</td>
</tr>
<tr>
<td>1980</td>
<td>4.34 5.27 1.89</td>
<td>4.88 5.94 2.11</td>
<td>- - -</td>
</tr>
<tr>
<td>1981</td>
<td>4.23 5.13 1.85</td>
<td>4.77 5.79 2.07</td>
<td>- - -</td>
</tr>
<tr>
<td>1982</td>
<td>4.40 5.23 2.25</td>
<td>5.01 5.99 2.44</td>
<td>- - -</td>
</tr>
<tr>
<td>1983</td>
<td>4.60 5.50 2.24</td>
<td>5.23 6.29 2.43</td>
<td>- - -</td>
</tr>
<tr>
<td>1984</td>
<td>4.40 5.36 1.86</td>
<td>5.05 6.19 2.08</td>
<td>- - -</td>
</tr>
<tr>
<td>1985</td>
<td>4.47 5.47 1.83</td>
<td>5.13 6.31 2.05</td>
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</tr>
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<td>5.56 6.76 2.39</td>
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<td>5.05 6.27 1.86</td>
<td>5.72 7.16 1.94</td>
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</tr>
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<td>1988</td>
<td>4.63 5.84 1.46</td>
<td>5.44 6.87 1.72</td>
<td>- - -</td>
</tr>
<tr>
<td>1989</td>
<td>5.48 6.71 2.24</td>
<td>6.31 7.77 2.46</td>
<td>- - -</td>
</tr>
<tr>
<td>1990</td>
<td>5.09 6.27 2.02</td>
<td>5.99 7.40 2.30</td>
<td>- - -</td>
</tr>
<tr>
<td>1991</td>
<td>5.10 6.24 2.12</td>
<td>5.75 7.07 2.31</td>
<td>- - -</td>
</tr>
<tr>
<td>1992</td>
<td>5.15 6.44 1.76</td>
<td>6.09 7.66 1.97</td>
<td>- - -</td>
</tr>
<tr>
<td>1993</td>
<td>5.07 6.37 1.65</td>
<td>5.99 7.54 1.93</td>
<td>- - -</td>
</tr>
<tr>
<td>1994</td>
<td>5.49 6.77 2.12</td>
<td>6.30 7.83 2.30</td>
<td>1.23 1.54 -</td>
</tr>
<tr>
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<td>4.55 5.57 1.88</td>
<td>5.23 6.42 2.11</td>
<td>1.46 1.87 -</td>
</tr>
<tr>
<td>1996</td>
<td>5.25 6.60 1.73</td>
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</tr>
<tr>
<td>1997</td>
<td>5.41 6.54 2.46</td>
<td>6.36 7.77 2.68</td>
<td>1.27 - -</td>
</tr>
<tr>
<td>1998</td>
<td>5.60 7.12 1.62</td>
<td>6.58 8.41 1.79</td>
<td>1.57 2.05 -</td>
</tr>
<tr>
<td>1999</td>
<td>5.45 6.84 1.81</td>
<td>6.34 7.99 2.02</td>
<td>1.71 2.02 -</td>
</tr>
<tr>
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<td>6.74 8.42 2.37</td>
<td>1.52 1.86 -</td>
</tr>
<tr>
<td>2001</td>
<td>5.54 6.87 2.04</td>
<td>6.54 8.17 2.27</td>
<td>1.79 1.99 -</td>
</tr>
<tr>
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<td>6.94 8.69 2.34</td>
<td>1.39 1.80 -</td>
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<tr>
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<td>6.49 8.21 1.98</td>
<td>1.14 - -</td>
</tr>
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<td>5.98 7.39 2.27</td>
<td>7.36 9.17 2.62</td>
<td>1.16 - -</td>
</tr>
<tr>
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<td>1.02 1.32 -</td>
</tr>
<tr>
<td>2006</td>
<td>5.66 7.02 2.10</td>
<td>6.77 8.43 2.42</td>
<td>1.68 1.71 -</td>
</tr>
<tr>
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<td>6.03 7.45 2.32</td>
<td>7.21 8.96 2.64</td>
<td>1.48 1.56 -</td>
</tr>
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<td>6.10 7.38 2.73</td>
<td>7.40 9.07 3.02</td>
<td>1.45 1.74 -</td>
</tr>
<tr>
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<td>1.70 1.71 -</td>
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<td>6.90 8.45 2.84</td>
<td>1.70 1.93 -</td>
</tr>
<tr>
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<td>7.20 9.08 2.28</td>
<td>1.48 1.97 -</td>
</tr>
<tr>
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<td>5.99 7.29 2.57</td>
<td>7.31 8.99 2.92</td>
<td>1.33 1.48 -</td>
</tr>
<tr>
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<td>6.10 7.51 2.42</td>
<td>7.47 9.23 2.85</td>
<td>1.67 2.01 -</td>
</tr>
<tr>
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<td>7.49 9.06 3.38</td>
<td>1.91 2.16 -</td>
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<td>5.84 7.09 2.58</td>
<td>7.01 8.58 2.90</td>
<td>1.37 1.64 -</td>
</tr>
<tr>
<td>2016</td>
<td>6.17 7.64 2.31</td>
<td>7.36 9.18 2.59</td>
<td>1.74 1.85 -</td>
</tr>
</tbody>
</table>

- Individual rates for diagnosis years 1975-1979 available in web browser version of Cancer Statistics Review.
- SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
- Rates based on less than 16 cases for the time interval.
- Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
- Statistic not shown.
Table 25.6  
Cancer of the Testis (Invasive)  
Age-adjusted U.S. Death Rates by Year, Race and Age  

<table>
<thead>
<tr>
<th>Year of Death:</th>
<th>All Races, Males</th>
<th>White Males</th>
<th>Black Males</th>
</tr>
</thead>
<tbody>
<tr>
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<td>All &lt;50 50+</td>
<td>All &lt;50 50+</td>
<td>All &lt;50 50+</td>
</tr>
<tr>
<td>1975-2016</td>
<td>0.32 0.31 0.32</td>
<td>0.35 0.35 0.34</td>
<td>0.16 0.14 0.23</td>
</tr>
<tr>
<td>1975-1979</td>
<td>0.63 0.63 0.63</td>
<td>0.68 0.70 0.65</td>
<td>0.27 0.21 0.44</td>
</tr>
<tr>
<td>1980</td>
<td>0.45 0.44 0.47</td>
<td>0.49 0.49 0.50</td>
<td>0.18 - -</td>
</tr>
<tr>
<td>1981</td>
<td>0.37 0.38 0.36</td>
<td>0.40 0.41 0.36</td>
<td>0.23 - -</td>
</tr>
<tr>
<td>1982</td>
<td>0.40 0.39 0.42</td>
<td>0.43 0.43 0.44</td>
<td>0.19 - -</td>
</tr>
<tr>
<td>1983</td>
<td>0.39 0.37 0.44</td>
<td>0.41 0.40 0.44</td>
<td>0.23 0.18 -</td>
</tr>
<tr>
<td>1984</td>
<td>0.35 0.33 0.39</td>
<td>0.37 0.36 0.34</td>
<td>0.19 - -</td>
</tr>
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<td>0.17 - -</td>
</tr>
<tr>
<td>1987</td>
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<td>0.37 0.38 0.33</td>
<td>0.19 0.15 -</td>
</tr>
<tr>
<td>1988</td>
<td>0.32 0.29 0.40</td>
<td>0.35 0.32 0.42</td>
<td>0.16 - -</td>
</tr>
<tr>
<td>1989</td>
<td>0.32 0.31 0.33</td>
<td>0.34 0.34 0.33</td>
<td>0.23 0.19 -</td>
</tr>
<tr>
<td>1990</td>
<td>0.27 0.30 0.21</td>
<td>0.30 0.33 0.22</td>
<td>- - -</td>
</tr>
<tr>
<td>1991</td>
<td>0.29 0.29 0.28</td>
<td>0.31 0.32 0.29</td>
<td>0.15 - -</td>
</tr>
<tr>
<td>1992</td>
<td>0.28 0.28 0.30</td>
<td>0.31 0.31 0.32</td>
<td>0.14 0.15 -</td>
</tr>
<tr>
<td>1993</td>
<td>0.30 0.29 0.30</td>
<td>0.33 0.33 0.32</td>
<td>0.17 0.14 -</td>
</tr>
<tr>
<td>1994</td>
<td>0.27 0.28 0.23</td>
<td>0.29 0.31 0.24</td>
<td>0.14 0.14 -</td>
</tr>
<tr>
<td>1995</td>
<td>0.24 0.24 0.23</td>
<td>0.26 0.27 0.25</td>
<td>- - -</td>
</tr>
<tr>
<td>1996</td>
<td>0.26 0.26 0.27</td>
<td>0.29 0.29 0.29</td>
<td>0.12 - -</td>
</tr>
<tr>
<td>1997</td>
<td>0.24 0.24 0.25</td>
<td>0.26 0.26 0.27</td>
<td>0.16 0.18 -</td>
</tr>
<tr>
<td>1998</td>
<td>0.28 0.27 0.29</td>
<td>0.30 0.30 0.30</td>
<td>0.20 0.13 -</td>
</tr>
<tr>
<td>1999</td>
<td>0.28 0.28 0.26</td>
<td>0.31 0.32 0.28</td>
<td>0.14 0.14 -</td>
</tr>
<tr>
<td>2000</td>
<td>0.25 0.25 0.23</td>
<td>0.27 0.28 0.24</td>
<td>0.16 0.16 -</td>
</tr>
<tr>
<td>2001</td>
<td>0.24 0.24 0.25</td>
<td>0.26 0.27 0.25</td>
<td>0.16 - -</td>
</tr>
<tr>
<td>2002</td>
<td>0.28 0.27 0.33</td>
<td>0.31 0.30 0.34</td>
<td>0.17 0.16 -</td>
</tr>
<tr>
<td>2003</td>
<td>0.25 0.24 0.28</td>
<td>0.26 0.27 0.29</td>
<td>0.18 0.12 -</td>
</tr>
<tr>
<td>2004</td>
<td>0.25 0.25 0.25</td>
<td>0.28 0.28 0.27</td>
<td>0.15 0.15 -</td>
</tr>
<tr>
<td>2005</td>
<td>0.25 0.24 0.28</td>
<td>0.27 0.26 0.29</td>
<td>0.19 0.18 -</td>
</tr>
<tr>
<td>2006</td>
<td>0.25 0.24 0.27</td>
<td>0.27 0.26 0.30</td>
<td>0.13 0.15 -</td>
</tr>
<tr>
<td>2007</td>
<td>0.22 0.22 0.24</td>
<td>0.25 0.25 0.25</td>
<td>0.12 - -</td>
</tr>
<tr>
<td>2008</td>
<td>0.24 0.23 0.29</td>
<td>0.26 0.25 0.31</td>
<td>0.14 0.12 -</td>
</tr>
<tr>
<td>2009</td>
<td>0.25 0.23 0.30</td>
<td>0.29 0.27 0.34</td>
<td>- - -</td>
</tr>
<tr>
<td>2010</td>
<td>0.26 0.26 0.27</td>
<td>0.30 0.31 0.29</td>
<td>0.14 - -</td>
</tr>
<tr>
<td>2011</td>
<td>0.25 0.23 0.31</td>
<td>0.29 0.27 0.34</td>
<td>0.12 - -</td>
</tr>
<tr>
<td>2012</td>
<td>0.25 0.25 0.26</td>
<td>0.28 0.28 0.28</td>
<td>0.15 0.13 -</td>
</tr>
<tr>
<td>2013</td>
<td>0.24 0.23 0.28</td>
<td>0.28 0.27 0.31</td>
<td>- - -</td>
</tr>
<tr>
<td>2014</td>
<td>0.26 0.25 0.30</td>
<td>0.29 0.28 0.32</td>
<td>0.15 0.11 -</td>
</tr>
<tr>
<td>2015</td>
<td>0.23 0.21 0.29</td>
<td>0.27 0.25 0.32</td>
<td>0.12 - -</td>
</tr>
<tr>
<td>2016</td>
<td>0.27 0.25 0.32</td>
<td>0.31 0.29 0.34</td>
<td>0.13 - -</td>
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</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).
Statistic not shown. Rate based on less than 16 cases for the time interval.
### Table 25.7
Cancer of the Testis (Invasive)

#### SEER Incidence\(^a\) and U.S. Death\(^b\) Rates, Age-Adjusted and Age-Specific Rates, by Race

<table>
<thead>
<tr>
<th>Age Group</th>
<th>SEER Incidence(^a)</th>
<th>U.S. Mortality(^b)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>All Races</td>
<td>White</td>
</tr>
<tr>
<td>All ages</td>
<td>5.9</td>
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</tr>
<tr>
<td>Under 65</td>
<td>6.5</td>
<td>7.8</td>
</tr>
<tr>
<td>65 and over</td>
<td>1.1</td>
<td>1.3</td>
</tr>
<tr>
<td>All ages (WHO world std)(^c)</td>
<td>5.9</td>
<td>7.1</td>
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</tbody>
</table>

#### Age-Adjusted Rates, 2012-2016

**Age at Diagnosis/Death:**

<table>
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<th>Age Group</th>
<th>SEER Incidence(^a)</th>
<th>U.S. Mortality(^b)</th>
</tr>
</thead>
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<td>0.6</td>
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</tr>
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<td>1-4</td>
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</tr>
<tr>
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<td>–</td>
</tr>
<tr>
<td>10-14</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>15-19</td>
<td>3.8</td>
<td>4.7</td>
</tr>
<tr>
<td>20-24</td>
<td>10.4</td>
<td>12.8</td>
</tr>
<tr>
<td>25-29</td>
<td>14.9</td>
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<td>30-34</td>
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<td>35-39</td>
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<td>14.5</td>
</tr>
<tr>
<td>40-44</td>
<td>8.5</td>
<td>10.1</td>
</tr>
<tr>
<td>45-49</td>
<td>6.5</td>
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</tr>
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<td>5.4</td>
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<td>55-59</td>
<td>3.1</td>
<td>3.5</td>
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<td>2.6</td>
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<tr>
<td>65-69</td>
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<td>1.7</td>
</tr>
<tr>
<td>70-74</td>
<td>1.1</td>
<td>1.2</td>
</tr>
<tr>
<td>75-79</td>
<td>0.9</td>
<td>1.1</td>
</tr>
<tr>
<td>80-84</td>
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<td>85+</td>
<td>0.9</td>
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</table>

#### Age-Specific Rates, 2012-2016

**Age at Diagnosis/Death:**

<table>
<thead>
<tr>
<th>Age Group</th>
<th>SEER Incidence(^a)</th>
<th>U.S. Mortality(^b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
<td>0.6</td>
<td>–</td>
</tr>
<tr>
<td>1-4</td>
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<td>0.3</td>
</tr>
<tr>
<td>5-9</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>10-14</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>15-19</td>
<td>3.8</td>
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<tr>
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<td>12.8</td>
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<tr>
<td>25-29</td>
<td>14.9</td>
<td>18.1</td>
</tr>
<tr>
<td>30-34</td>
<td>14.9</td>
<td>17.9</td>
</tr>
<tr>
<td>35-39</td>
<td>12.1</td>
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<tr>
<td>40-44</td>
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<td>10.1</td>
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<td>2.6</td>
</tr>
<tr>
<td>65-69</td>
<td>1.5</td>
<td>1.7</td>
</tr>
<tr>
<td>70-74</td>
<td>1.1</td>
<td>1.2</td>
</tr>
<tr>
<td>75-79</td>
<td>0.9</td>
<td>1.1</td>
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<tr>
<td>80-84</td>
<td>1.0</td>
<td>1.1</td>
</tr>
<tr>
<td>85+</td>
<td>0.9</td>
<td>1.0</td>
</tr>
</tbody>
</table>

\(^a\) SEER 21 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 world (WHO 2000-2025) standard million.

Statistic not shown. Rate based on less than 16 cases for the time interval.
<table>
<thead>
<tr>
<th>Year of Diagnosis</th>
<th>All Races, Males</th>
<th>White Males</th>
<th>Black Males</th>
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### Five-Year Period Survival (Percent)<sup>cd</sup>

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<th>Stage Distribution (%) 2009-2015&lt;sup&gt;ef&lt;/sup&gt;</th>
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<td>Regional</td>
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### Five-Year Relative Survival (Percent), 2009-2015<sup>e</sup>

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### Stage<sup>f</sup>:

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<sup>a</sup> Based on End Results data from a series of hospital registries and one population-based registry.

<sup>b</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).

<sup>c</sup> 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/KG). Expected survival rates are derived from life tables by socio-economic status, geography and race developed by the SEER program.

<sup>d</sup> Based on follow-up of patients into 2016.

<sup>e</sup> Period survival provides a 2015 estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three year calendar blocks (2010-2012: 0-1 year survival), (2009-2011: 1-2 year survival), (2008-2010: 2-3 year survival), (2007-2009: 3-4 year survival), (2006-2008: 4-5 years survival).

<sup>f</sup> Stage at diagnosis is classified using SEER Summary Stage 2000. Stage distribution percentages may not sum to 100 due to rounding.

<sup>g</sup> The difference between 1975-1977 and 2009-2015 is statistically significant (p<.05).

<sup>h</sup> The standard error is greater than 10 percentage points.

<sup>i</sup> Statistic could not be calculated due to fewer than 25 cases during the time period.
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### Table 25.10
Cancer of the Testis (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, 2014-2016 By Race/Ethnicity

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### Notes
- Underlying incidence and mortality data for American Indian/Alaska Native are based on the PRCDA (Purchased/Referred Care Delivery Areas) counties.
- Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.
- a Underlying incidence and mortality data for American Indian/Alaska Native are based on the PRCDA (Purchased/Referred Care Delivery Areas) 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.
- Statistic could not be calculated.
- A percent of 0.00 represents a value that is below 0.005.
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<th>Race/Ethnicity</th>
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<th>Trend 2007-2016 AAPC (%)</th>
<th>SEER 9 Areas Rate 2007-2016 AAPC (%)</th>
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The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 4.7, February 2019, 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. 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). The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawai, Iowa, New Mexico, Seattle, Utah, and Atlanta. The SEER 21 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/FG, Idaho, New York and Massachusetts. The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 2000-2016. The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2016. 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. Incidence data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties. US Mortality Files, National Center for Health Statistics, CDC. The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016. The APC is significantly different from zero (p<.05).
Table 25.12
Cancer of the Testis (Invasive)

Age-Adjusted SEER Incidence Rates*  
By Registry, Race and Age

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* 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 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 SEER 21 areas comprise the SEER 18 areas plus Idaho, New York and Massachusetts.

Statistic not shown. Rate based on less than 16 cases for the time interval.
Table 25.13
Cancer of the Testis (Invasive)

Age-Adjusted SEER Death Rates*
By Registry, Race and Age

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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SEER 13 Areas</td>
<td>0.23</td>
<td>0.23</td>
<td>0.25</td>
<td>0.27</td>
<td>0.26</td>
<td>0.30</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SEER 18 Areas</td>
<td>0.28</td>
<td>0.27</td>
<td>0.30</td>
<td>0.32</td>
<td>0.31</td>
<td>0.35</td>
<td>0.35</td>
<td>0.35</td>
<td>0.14</td>
<td>0.12</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SEER 21 Areas</td>
<td>0.25</td>
<td>0.24</td>
<td>0.29</td>
<td>0.30</td>
<td>0.29</td>
<td>0.33</td>
<td>0.33</td>
<td>0.33</td>
<td>0.12</td>
<td>0.10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total U.S.</td>
<td>0.25</td>
<td>0.24</td>
<td>0.29</td>
<td>0.29</td>
<td>0.27</td>
<td>0.31</td>
<td>0.13</td>
<td>0.10</td>
<td>0.20</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</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 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 SEER 21 areas comprise the SEER 18 areas plus Idaho, New York and Massachusetts.
- Statistic not shown. Rate based on less than 16 cases for the time interval.
### Table 25.14
Cancer of the Testis (Invasive)

#### Age-Adjusted Cancer Death Rates By State, All Races, 2012-2016

**Males**

<table>
<thead>
<tr>
<th>State</th>
<th>Rate</th>
<th>SE</th>
<th>Rank(CI)</th>
<th>PD</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL U.S.</td>
<td>0.25</td>
<td>0.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>High Five States</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Mexico</td>
<td>0.41</td>
<td>0.09</td>
<td>01(01,29)</td>
<td>63.38</td>
</tr>
<tr>
<td>Arizona</td>
<td>0.39</td>
<td>0.05</td>
<td>02(01,14)</td>
<td>56.52</td>
</tr>
<tr>
<td>West Virginia</td>
<td>0.38</td>
<td>0.09</td>
<td>03(01,33)</td>
<td>50.41</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>0.36</td>
<td>0.06</td>
<td>04(01,27)</td>
<td>41.04</td>
</tr>
<tr>
<td>Iowa</td>
<td>0.33</td>
<td>0.07</td>
<td>05(01,31)</td>
<td>31.13</td>
</tr>
<tr>
<td><strong>Low Five States</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New York</td>
<td>0.19</td>
<td>0.02</td>
<td>30(15,34)</td>
<td>-24.87</td>
</tr>
<tr>
<td>Minnesota</td>
<td>0.18</td>
<td>0.04</td>
<td>31(09,34)</td>
<td>-28.37</td>
</tr>
<tr>
<td>Virginia</td>
<td>0.17</td>
<td>0.03</td>
<td>32(14,34)</td>
<td>-32.28</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>0.16</td>
<td>0.03</td>
<td>33(13,34)</td>
<td>-34.73</td>
</tr>
<tr>
<td>Oregon</td>
<td>0.16</td>
<td>0.04</td>
<td>34(10,34)</td>
<td>-36.60</td>
</tr>
</tbody>
</table>

#### Rates Per 100,000

![Age-Adjusted Death Rates Per 100,000 Quintile Interval](image)

- **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<=0.0002).
- **c** Absolute percent difference between state rate and total U.S. rate is 15% or more.
- **d** Rank of state level death rate and the 95% confidence intervals (low, high) for the rank.
- **SE** Standard error of the rate.
- **PD** Percent difference between state rate and total U.S. rate.
- **Suppressed** Statistic not shown. Rate based on less than 16 cases for the time interval.
Table 25.15  
Cancer of the Testis (Invasive)  

**Estimated United States Cancer Prevalence Counts** on January 1, 2016  
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;24</th>
<th>0 to &lt;24</th>
<th>&gt;=24</th>
<th>Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Race</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Races</td>
<td>44,309</td>
<td>41,137</td>
<td>38,167</td>
<td>35,138</td>
<td>25,040</td>
<td>183,792</td>
<td>79,346</td>
<td>263,137</td>
</tr>
<tr>
<td>White</td>
<td>40,170</td>
<td>37,762</td>
<td>35,963</td>
<td>33,087</td>
<td>23,810</td>
<td>170,792</td>
<td>75,409</td>
<td>249,218</td>
</tr>
<tr>
<td>Black</td>
<td>1,451</td>
<td>1,289</td>
<td>951</td>
<td>900</td>
<td>575</td>
<td>5,167</td>
<td>1,874</td>
<td>7,041</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>1,222</td>
<td>877</td>
<td>668</td>
<td>567</td>
<td>393</td>
<td>3,727</td>
<td></td>
<td>+</td>
</tr>
<tr>
<td>Hispanic</td>
<td>7,880</td>
<td>6,596</td>
<td>4,732</td>
<td>3,512</td>
<td>2,007</td>
<td>24,726</td>
<td></td>
<td>+</td>
</tr>
</tbody>
</table>

**Estimated prevalence percent** on January 1, 2016, of the SEER population diagnosed in the previous 24 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><strong>Race</strong></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</td>
<td>0.1159</td>
<td>0.0025</td>
<td>0.0068</td>
<td>0.0745</td>
<td>0.1997</td>
<td>0.2470</td>
<td>0.2202</td>
<td>0.1153</td>
<td>0.0479</td>
<td>0.0227</td>
<td>0.1165</td>
</tr>
<tr>
<td>White</td>
<td>0.1367</td>
<td>0.0024</td>
<td>0.0080</td>
<td>0.0906</td>
<td>0.2380</td>
<td>0.2918</td>
<td>0.2535</td>
<td>0.1292</td>
<td>0.0529</td>
<td>0.0249</td>
<td>0.1367</td>
</tr>
<tr>
<td>Black</td>
<td>0.0239</td>
<td>0.0029</td>
<td>0.0021</td>
<td>0.0108</td>
<td>0.0389</td>
<td>0.0516</td>
<td>0.0553</td>
<td>0.0343</td>
<td>0.0082</td>
<td>0.0027</td>
<td>0.0253</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>0.0382</td>
<td>0.0031</td>
<td>0.0048</td>
<td>0.0337</td>
<td>0.0636</td>
<td>0.0692</td>
<td>0.0634</td>
<td>0.0392</td>
<td>0.0115</td>
<td>0.0061</td>
<td>0.0366</td>
</tr>
<tr>
<td>Hispanic</td>
<td>0.0857</td>
<td>0.0026</td>
<td>0.0108</td>
<td>0.0898</td>
<td>0.1855</td>
<td>0.1726</td>
<td>0.1286</td>
<td>0.0561</td>
<td>0.0312</td>
<td>0.0080</td>
<td>0.0890</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Note</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>US 2016 cancer prevalence counts are based on 2016 cancer prevalence proportions from the SEER 13 Areas (excluding the Alaska Native Registry) and 1/1/2016 US population estimates based on the average of 2015 and 2016 population estimates from the US Bureau of the Census.</td>
</tr>
<tr>
<td>b</td>
<td>Prevalence was calculated using the first invasive tumor for each cancer site diagnosed during the previous 24 years.</td>
</tr>
<tr>
<td>c</td>
<td>Percentages are age-adjusted to the 2000 US Standard Population (19 age groups - Census P25-1130) by 5-year age groups.</td>
</tr>
<tr>
<td>d</td>
<td>Cases diagnosed more than 24 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000).</td>
</tr>
<tr>
<td>e</td>
<td>Complete prevalence is obtained by summing 0 to &lt;24 and &gt;=24.</td>
</tr>
<tr>
<td>+</td>
<td>Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.</td>
</tr>
<tr>
<td>-</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Figure 25.1

SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates
Cancer of the Testis, 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 4.7, February 2019, 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 25.2

SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates\textsuperscript{a} Cancer of the Testis, by Age and Race

Regression line cannot be calculated for Black Male Age 50+ Incidence and Delay-adjusted Incidence due to years with zero count.

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 4.7, February 2019, 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 Testis
Joinpoint Analyses for Whites and Blacks from 1975-2016
and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

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 21 areas (SEER 9 areas, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

\textsuperscript{a} 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 4.7, February 2019, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2016 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 2000-2016 allow a maximum of 3 joinpoints.

\textsuperscript{b} API = Asian/Pacific Islander.

\textsuperscript{c} AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

\textsuperscript{d} Joinpoint could not fit a regression line for American Indian/Alaska Native Mortality due to insufficient data.

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.
Figure 25.4

Cancer of the Testis
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
2000-2015 by stage at diagnosis

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).
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.