## Table 1.23
Age-Adjusted SEER Incidence Rates and Trends for the Top 15 Cancer Sites\(^a\) by Race/Ethnicity

### All Races

<table>
<thead>
<tr>
<th>Cancer Site</th>
<th>Rate(^b) 2012-2016</th>
<th>Rate(^b) 2007-2016</th>
<th>APC(^c) 2012-2016</th>
<th>APC(^c) 2007-2016</th>
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</thead>
<tbody>
<tr>
<td>All Sites</td>
<td>442.0</td>
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<tr>
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<tr>
<td>Lung and Bronchus</td>
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<tr>
<td>Prostate(^f)</td>
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<tr>
<td>Colon and Rectum</td>
<td>38.6</td>
<td>-2.6*</td>
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<td>Melanoma of the Skin</td>
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<td>1.2*</td>
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<tr>
<td>Urinary Bladder</td>
<td>20.1</td>
<td>-1.5*</td>
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<td>-0.7*</td>
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<td>Kidney and Renal Pelvis</td>
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<td>0.3</td>
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<td>2.0*</td>
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<td>Corpus and Uterus, NOS(^f)</td>
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### Asian/Pacific Islander

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<th>Rate(^b) 2007-2016</th>
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<th>APC(^c) 2007-2016</th>
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### American Indian/Alaska Native\(^d\)

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<th>Rate(^b) 2007-2016</th>
<th>APC(^c) 2012-2016</th>
<th>APC(^c) 2007-2016</th>
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### Hispanic\(^*\)

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<th>Rate(^b) 2007-2016</th>
<th>APC(^c) 2012-2016</th>
<th>APC(^c) 2007-2016</th>
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<td>-2.5*</td>
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<tr>
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<tr>
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<td>2.4*</td>
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<tr>
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<td>Urinary Bladder</td>
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<td>-0.1</td>
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<tr>
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<td>-1.8*</td>
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<td>Oral Cavity and Pharynx</td>
<td>6.9</td>
<td>-1.1*</td>
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### Notes:
- Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.
- Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups – Census P25-1130).
- The APC is the Annual Percent Change over the time interval.
- Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups – Census P25-1130).
- Rates for American Indian/Alaska Native are based on the Purchased/Referral Care Delivery Area (PRCDA) counties.
- Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.
- The rates for sex-specific cancer sites are calculated using the population for both sexes combined.
- IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.
- Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.
- The APC is significantly different from zero (p<.05).
- 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.
Table 1.24
Age-Adjusted SEER Incidence Rates and Trends for the Top 15 Cancer Sites\(^a\) by Race/Ethnicity

<table>
<thead>
<tr>
<th>Males</th>
<th>Rate(^b) 2012-2016</th>
<th>Rate(^b) 2007-2016</th>
<th>APC(^c) 2012-2016</th>
<th>APC(^c) 2007-2016</th>
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<tr>
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<td>63.5</td>
<td>-3.0*</td>
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<td>-2.8*</td>
<td>43.8</td>
<td>-2.9*</td>
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<td>-1.7*</td>
<td>38.5</td>
<td>-1.7*</td>
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<td>33.9</td>
<td>1.2*</td>
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<tr>
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<td>25.0</td>
<td>-0.8*</td>
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<td>22.0</td>
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<td>17.9</td>
<td>0.9*</td>
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<td>1.4*</td>
<td>12.2</td>
<td>1.9*</td>
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<td>-1.4*</td>
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<td>-0.9*</td>
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<table>
<thead>
<tr>
<th>Asian/Pacific Islander</th>
<th>Rate(^b) 2012-2016</th>
<th>Rate(^b) 2007-2016</th>
<th>APC(^c) 2012-2016</th>
<th>APC(^c) 2007-2016</th>
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<td>-6.3*</td>
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<table>
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<th>Rate(^b) 2007-2016</th>
<th>APC(^c) 2012-2016</th>
<th>APC(^c) 2007-2016</th>
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<table>
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<th>Rate(^b) 2007-2016</th>
<th>APC(^c) 2012-2016</th>
<th>APC(^c) 2007-2016</th>
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<td>35.2</td>
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<td>-3.6*</td>
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<td>20.3</td>
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<td>Liver &amp; IBD(^f)</td>
<td>20.3</td>
<td>0.3</td>
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<td>Pancreas</td>
<td>13.0</td>
<td>-3.0*</td>
<td>-</td>
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<td>Leukemia</td>
<td>12.0</td>
<td>-0.1</td>
<td>-</td>
<td></td>
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<tr>
<td>Oral Cavity and Pharynx</td>
<td>10.1</td>
<td>-1.3</td>
<td>-</td>
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</tr>
<tr>
<td>Myeloma</td>
<td>8.2</td>
<td>0.4</td>
<td>-</td>
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</tr>
<tr>
<td>Brain and ONS(^f)</td>
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<td>-</td>
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<td>Thyroid</td>
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<tr>
<td>Testis</td>
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<td>1.8*</td>
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</table>

Source: SEER 21 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, Georgia excluding ATL/RC, Idaho, New York and Massachusetts).

- Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.
- Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
- The APC is the Annual Percent Change over the time interval.
- Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
- Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.
- Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.
- Incidence data for Hispanics are based on NHIS and exclude cases from the Alaska Native Registry.
- The APC is significantly different from zero (p<.05).
- 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.
### Table 1.25
Age-Adjusted SEER Incidence Rates and Trends for the Top 15 Cancer Sites\(^a\) by Race/Ethnicity

#### Females

<table>
<thead>
<tr>
<th></th>
<th>Rate(^b)</th>
<th>APC(^c)</th>
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<tbody>
<tr>
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</tr>
<tr>
<td><strong>All Races</strong></td>
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<td></td>
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<tr>
<td>All Sites</td>
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<tr>
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<tr>
<td>Colon and Rectum</td>
<td>33.9</td>
<td>-2.3*</td>
</tr>
<tr>
<td>Corpus and Uterus, NOS</td>
<td>27.5</td>
<td>1.1*</td>
</tr>
<tr>
<td>Thyroid</td>
<td>23.3</td>
<td>2.0*</td>
</tr>
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<td>Melanoma of the Skin</td>
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<td>1.1*</td>
</tr>
<tr>
<td>Non-Hodgkin Lymphoma</td>
<td>16.2</td>
<td>-0.8*</td>
</tr>
<tr>
<td>Pancreas</td>
<td>11.5</td>
<td>0.4</td>
</tr>
<tr>
<td>Ovary(^g)</td>
<td>11.4</td>
<td>-2.0*</td>
</tr>
<tr>
<td>Kidney and Renal Pelvis</td>
<td>10.9</td>
<td>0.1</td>
</tr>
<tr>
<td>Leukemia</td>
<td>10.9</td>
<td>-0.1</td>
</tr>
<tr>
<td>Urinary Bladder</td>
<td>8.7</td>
<td>-1.6*</td>
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<tr>
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<td>-1.1*</td>
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<tr>
<td>Oral Cavity and Pharynx</td>
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<td>5.6</td>
<td>0.9*</td>
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<td><strong>Asian/Pacific Islander</strong></td>
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<tr>
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<tr>
<td>Ovary(^g)</td>
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<td>9.1</td>
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<tr>
<td>Liver &amp; IBD(^f)</td>
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#### American Indian/Alaska Native\(^d\)

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<td>1.3</td>
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<td>Urinary Bladder</td>
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<td>-1.2</td>
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<table>
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<tr>
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<td>1.1*</td>
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<tr>
<td>Liver &amp; IBD(^f)</td>
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<td>1.8*</td>
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### Source
SEER 21 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/IA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

*Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.

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

\(^b\)The APC is the Annual Percent Change over the time interval.

\(^c\)Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

\(^e\)Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

\(^f\)Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

\(^g\)IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

\(^h\)Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

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

\(^j\)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.
### Table 1.26
Age-Adjusted U.S. Death Rates and Trends for the Top 15 Cancer Sites* by Race/Ethnicity
Both Sexes

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<td>Rate$^b$ 2012-2016</td>
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<td>18.9</td>
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<td>11.4</td>
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<td>16.4</td>
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<td>Pancreas</td>
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<td>7.8</td>
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<td>6.8</td>
<td>8.4</td>
</tr>
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<tr>
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<td>3.6</td>
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<td>3.1</td>
<td>3.5</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Asian/Pacific Islander</td>
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<td>5.1</td>
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<td>4.8</td>
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<td>4.1</td>
<td>4.7</td>
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<td>2.8</td>
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<td>Kidney and Renal Pelvis</td>
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<td>3.1</td>
<td>2.8</td>
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<td>Urinary Bladder</td>
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<td>1.7</td>
<td>2.4</td>
<td>2.1</td>
</tr>
</tbody>
</table>

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

- Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.
- Rates are per 100,000 and age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
- The APC is the Annual Percent Change over the time interval. Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
- Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.
- Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.
- The rates for sex-specific cancer sites are calculated using the population for both sexes combined.
- IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.
- The APC is significantly different from zero ($p<0.05$).
- 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.
## Table 1.27
Age-Adjusted U.S. Death Rates and Trends for the Top 15 Cancer Sites* by Race/Ethnicity

### Males

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<td>-0.8*</td>
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<td>Brain and ONSf</td>
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<tr>
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<td>13.8</td>
<td>-0.9*</td>
</tr>
<tr>
<td>Colon and Rectum</td>
<td>11.6</td>
<td>-2.4*</td>
</tr>
<tr>
<td>Pancreas</td>
<td>8.2</td>
<td>-0.4</td>
</tr>
<tr>
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<td>-3.7*</td>
</tr>
<tr>
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<td>-1.3*</td>
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<td>1.3</td>
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</tr>
<tr>
<td>Esophageus</td>
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<tr>
<td>Brain and ONSf</td>
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<td>Myeloma</td>
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### White

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</tr>
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<td>Leukemia</td>
<td>9.1</td>
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<td>Liver &amp; IBDf</td>
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<td>Brain and ONSf</td>
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<td>Stomach</td>
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</tr>
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<td>Oral Cavity and Pharynx</td>
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<td>Liver &amp; IBDf</td>
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<td>Stomach</td>
<td>8.2</td>
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<tr>
<td>Myeloma</td>
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<td>7.2</td>
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<tr>
<td>Kidney and Renal Pelvis</td>
<td>5.5</td>
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<tr>
<td>Urinary Bladder</td>
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<td>Non-Hodgkin Lymphoma</td>
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<td>Oral Cavity and Pharynx</td>
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### American Indian/Alaska Native

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<tr>
<td>Colon and Rectum</td>
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<td>Pancreas</td>
<td>9.9</td>
</tr>
<tr>
<td>Kidney and Renal Pelvis</td>
<td>8.1</td>
</tr>
<tr>
<td>Stomach</td>
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</tr>
<tr>
<td>Non-Hodgkin Lymphoma</td>
<td>6.2</td>
</tr>
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<td>Esophageus</td>
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<tr>
<td>Kidney and Renal Pelvis</td>
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<tr>
<td>Oral Cavity and Pharynx</td>
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</tr>
<tr>
<td>Myeloma</td>
<td>3.4</td>
</tr>
<tr>
<td>Brain and ONSf</td>
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<td>Larynx</td>
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### Hispanic

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<tr>
<td>Urinary Bladder</td>
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<td>Esophageus</td>
<td>3.7</td>
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<tr>
<td>Brain and ONSf</td>
<td>3.5</td>
</tr>
<tr>
<td>Myeloma</td>
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<tr>
<td>Oral Cavity and Pharynx</td>
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</tr>
<tr>
<td>Larynx</td>
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Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

a Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.

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

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

d Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

e Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

f Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

g IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

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

i 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.
### Table 1.28
Age-Adjusted U.S. Death Rates and Trends for the Top 15 Cancer Sites by Race/Ethnicity

#### Females

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
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<th>Black</th>
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<td>Rate&lt;sup&gt;b&lt;/sup&gt; 2012-2016</td>
<td>Rate&lt;sup&gt;b&lt;/sup&gt; 2012-2016</td>
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<td>Rate&lt;sup&gt;c&lt;/sup&gt; 2007-2016</td>
<td>Rate&lt;sup&gt;c&lt;/sup&gt; 2007-2016</td>
<td>Rate&lt;sup&gt;c&lt;/sup&gt; 2007-2016</td>
</tr>
<tr>
<td><strong>All Sites</strong></td>
<td>137.7 -1.4&lt;sup&gt;*&lt;/sup&gt;</td>
<td>138.3 -1.3&lt;sup&gt;*&lt;/sup&gt;</td>
<td>156.0 -1.6&lt;sup&gt;*&lt;/sup&gt;</td>
</tr>
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<td>35.6 -2.2&lt;sup&gt;*&lt;/sup&gt;</td>
<td>32.4 -2.5&lt;sup&gt;*&lt;/sup&gt;</td>
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<td>20.1 -1.5&lt;sup&gt;*&lt;/sup&gt;</td>
<td>28.1 -1.6&lt;sup&gt;*&lt;/sup&gt;</td>
</tr>
<tr>
<td>Colon and Rectum</td>
<td>11.9 -2.4&lt;sup&gt;*&lt;/sup&gt;</td>
<td>11.7 -2.2&lt;sup&gt;*&lt;/sup&gt;</td>
<td>19.5 -3.1&lt;sup&gt;*&lt;/sup&gt;</td>
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<td>Pancreas</td>
<td>9.6 0.1</td>
<td>9.4 0.1</td>
<td>12.2 -0.5&lt;sup&gt;*&lt;/sup&gt;</td>
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<tr>
<td>Ovary</td>
<td>7.0 -2.3&lt;sup&gt;*&lt;/sup&gt;</td>
<td>7.3 -2.3&lt;sup&gt;*&lt;/sup&gt;</td>
<td>8.5 2.2&lt;sup&gt;*&lt;/sup&gt;</td>
</tr>
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<td>4.9 -1.5&lt;sup&gt;*&lt;/sup&gt;</td>
<td>5.1 -1.3&lt;sup&gt;*&lt;/sup&gt;</td>
<td>6.1 -1.6&lt;sup&gt;*&lt;/sup&gt;</td>
</tr>
<tr>
<td>Corpus and Uterus, NOS</td>
<td>4.7 2.0&lt;sup&gt;*&lt;/sup&gt;</td>
<td>4.5 -2.6&lt;sup&gt;*&lt;/sup&gt;</td>
<td>5.4 -0.9</td>
</tr>
<tr>
<td>Non-Hodgkin Lymphoma</td>
<td>4.4 -2.6&lt;sup&gt;*&lt;/sup&gt;</td>
<td>4.4 1.8&lt;sup&gt;*&lt;/sup&gt;</td>
<td>4.7 2.6&lt;sup&gt;*&lt;/sup&gt;</td>
</tr>
<tr>
<td>Liver &amp; IBD&lt;sup&gt;f&lt;/sup&gt;</td>
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<td>3.9 0.6&lt;sup&gt;*&lt;/sup&gt;</td>
<td>4.4 -1.6&lt;sup&gt;*&lt;/sup&gt;</td>
</tr>
<tr>
<td>Brain and ONS&lt;sup&gt;f&lt;/sup&gt;</td>
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<td>3.8 -3.6&lt;sup&gt;*&lt;/sup&gt;</td>
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<td>Myeloma</td>
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<td>2.4 -0.5</td>
<td>3.3 -1.3&lt;sup&gt;*&lt;/sup&gt;</td>
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<td>Kidney and Renal Pelvis</td>
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<td>Stomach</td>
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<td>2.5 -2.5&lt;sup&gt;*&lt;/sup&gt;</td>
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<th>American Indian/Alaska Native&lt;sup&gt;d&lt;/sup&gt;</th>
<th>Hispanic&lt;sup&gt;e&lt;/sup&gt;</th>
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<td>Rate&lt;sup&gt;b&lt;/sup&gt; 2012-2016</td>
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<td>Rate&lt;sup&gt;c&lt;/sup&gt; 2007-2016</td>
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<tr>
<td>Breast</td>
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<td>13.1 -1.6&lt;sup&gt;*&lt;/sup&gt;</td>
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<td>Colon and Rectum</td>
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Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

Top 15 cancer sites selected based on 2012-2016 age-adjusted rates for the race/ethnic group.

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

Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

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

IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

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

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.
# SEER Cancer Incidence and US Death Rates, 2012-2016

By Cancer Site and Race/Ethnicity

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<th>Cancer Site</th>
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<td>13.8</td>
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</tbody>
</table>

Source: SEER 21 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, Georgia excluding ATL/ATL, Idaho, New York and Massachusetts) and US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

- 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.
Figure 1.13

SEER Incidence 2007-2016
Males by Race/Ethnicity

Prostate
Lung and Bronchus
Colon and Rectum

Rate per 100,000

Source: SEER 21 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, Georgia excluding ATL/RG), Idaho, New York and Massachusetts.
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.

Incidence rates for American Indian/Alaska Native (AI/AN) 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.
Figure 1.14

SEER Incidence 2007-2016
Females by Race/Ethnicity

Breast
Lung and Bronchus
Colon and Rectum

Rate per 100,000
Rate per 100,000
Rate per 100,000

Year of Diagnosis
Year of Diagnosis
Year of Diagnosis

Source: SEER 21 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, Georgia excluding ATL/RG), Idaho, New York and Massachusetts.
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.

Incidence rates for American Indian/Alaska Native (AI/AN) are based on the CHSDA(Contract Health Service Delivery Area) counties.
Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.
US Mortality 2007-2016
Males by Race/Ethnicity

Prostate
Lung and Bronchus
Colon and Rectum

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

a Mortality rates for American Indian/Alaska Native (AI/AN) 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.
US Mortality 2007-2016
Females by Race/Ethnicity

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
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.
a Mortality rates for American Indian/Alaska Native (AI/AN) 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.
### SEER Incidence

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Rate 2012-2016 per 100,000 persons</th>
<th>Trend 2007-2016 AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEER 21 Areas</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Races</td>
<td>442.0</td>
<td>-1.1*</td>
</tr>
<tr>
<td>White</td>
<td>451.7</td>
<td>-1.1*</td>
</tr>
<tr>
<td>White Hispanic</td>
<td>351.4</td>
<td>-0.0</td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>470.1</td>
<td>-0.1</td>
</tr>
<tr>
<td>Black</td>
<td>442.9</td>
<td>-0.2</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>297.9</td>
<td>-0.6</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>307.6</td>
<td>-0.9</td>
</tr>
<tr>
<td>Hispanic</td>
<td>345.8</td>
<td>-0.8</td>
</tr>
</tbody>
</table>

| **SEER 9 Areas** | | |
| All Races | 442.0 | -1.1* |
| White | 451.7 | -1.1* |
| White Hispanic | 351.4 | -0.0 |
| White Non-Hispanic | 470.1 | -0.1 |
| Black | 442.9 | -0.2 |
| Asian/Pacific Islander | 297.9 | -0.6 |
| Amer Ind/Alaska Nat | 307.6 | -0.9 |
| Hispanic | 345.8 | -0.8 |

### U.S. Mortality

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Rate 2012-2016 per 100,000 persons</th>
<th>Trend 2007-2016 AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U.S. Mortality</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Races</td>
<td>161.0</td>
<td>-1.5*</td>
</tr>
<tr>
<td>White</td>
<td>161.5</td>
<td>-1.4*</td>
</tr>
<tr>
<td>White Hispanic</td>
<td>120.0</td>
<td>-1.1*</td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>165.4</td>
<td>-1.4*</td>
</tr>
<tr>
<td>Black</td>
<td>185.6</td>
<td>-2.1*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>100.0</td>
<td>-1.3*</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total U.S.</td>
<td>108.8</td>
<td>-1.7*</td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>146.7</td>
<td>-0.9*</td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>65.8</td>
<td>-2.5*</td>
</tr>
<tr>
<td>Hispanic</td>
<td>113.5</td>
<td>-1.3*</td>
</tr>
</tbody>
</table>

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.


The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/RG, 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).
SEER Incidence and US Death Rates<sup>a</sup>
All Cancer Sites, Both Sexes
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).
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 1992-2016 allow a maximum of 4 joinpoints.

API = Asian/Pacific Islander.
AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.

<sup>a</sup> Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines are calculated using the Joinpoint Regression Program Version 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 1992-2016 allow a maximum of 4 joinpoints.

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

<sup>c</sup> AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

<sup>d</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.
### Table 3.15
Cancer of the Brain And Other Nervous System (Invasive)

#### SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>SEER Incidence</th>
<th>SEER 21 Areas(^b)</th>
<th>SEER 21 Areas(^b)</th>
<th>SEER 9 Areas(^b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016(^c)</td>
<td>AAPC (%)</td>
<td>Trend 2007-2016(^d)</td>
</tr>
<tr>
<td>Rate per 100,000 persons</td>
<td>Total Males Females</td>
<td>Total Males Females</td>
<td>Total Males Females</td>
</tr>
</tbody>
</table>

#### Race/Ethnicity

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Males</th>
<th>Females</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Races</td>
<td>6.4</td>
<td>7.5</td>
<td>5.4</td>
</tr>
<tr>
<td>White</td>
<td>7.0</td>
<td>8.3</td>
<td>6.0</td>
</tr>
<tr>
<td>White Hispanic(^c)</td>
<td>5.3</td>
<td>6.1</td>
<td>4.6</td>
</tr>
<tr>
<td>White Non-Hispanic(^c)</td>
<td>7.5</td>
<td>8.9</td>
<td>6.4</td>
</tr>
<tr>
<td>Black</td>
<td>3.9</td>
<td>4.7</td>
<td>3.3</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>3.8</td>
<td>4.3</td>
<td>3.3</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat(^c)</td>
<td>3.0</td>
<td>3.7</td>
<td>2.4</td>
</tr>
<tr>
<td>Hispanic(^c)</td>
<td>5.0</td>
<td>5.8</td>
<td>4.4</td>
</tr>
<tr>
<td>Hispanic(^c)</td>
<td>3.0</td>
<td>3.5</td>
<td>2.6</td>
</tr>
<tr>
<td>Hispanic(^c)</td>
<td>3.2</td>
<td>3.7</td>
<td>2.7</td>
</tr>
<tr>
<td>Hispanic(^c)</td>
<td>5.0</td>
<td>5.8</td>
<td>4.4</td>
</tr>
<tr>
<td>Hispanic(^c)</td>
<td>3.0</td>
<td>3.5</td>
<td>2.6</td>
</tr>
</tbody>
</table>

#### U.S. Mortality

<table>
<thead>
<tr>
<th></th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016(^h)</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate per 100,000 persons</td>
<td>Total Males Females</td>
<td>Total Males Females</td>
<td>Total Males Females</td>
</tr>
<tr>
<td>All Races</td>
<td>4.4</td>
<td>5.4</td>
<td>3.6</td>
</tr>
<tr>
<td>White</td>
<td>4.8</td>
<td>5.8</td>
<td>3.9</td>
</tr>
<tr>
<td>White Hispanic(^c)</td>
<td>3.2</td>
<td>3.7</td>
<td>2.7</td>
</tr>
<tr>
<td>White Non-Hispanic(^c)</td>
<td>5.0</td>
<td>6.1</td>
<td>4.1</td>
</tr>
<tr>
<td>Black</td>
<td>2.6</td>
<td>3.2</td>
<td>2.1</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>2.2</td>
<td>2.6</td>
<td>1.9</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat(^c)</td>
<td>1.9</td>
<td>2.3</td>
<td>1.6</td>
</tr>
<tr>
<td>Total U.S.</td>
<td>1.9</td>
<td>2.3</td>
<td>1.6</td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>2.4</td>
<td>2.8</td>
<td>2.1</td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>1.4</td>
<td>1.7</td>
<td>1.0</td>
</tr>
<tr>
<td>Hispanic(^c)</td>
<td>3.0</td>
<td>3.5</td>
<td>2.6</td>
</tr>
</tbody>
</table>

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.

- The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.
- The APC is significantly different from zero (p<.05).
Figure 3.2

SEER Incidence and US Death Rates<sup>a</sup>
Cancer of the Brain and Other Nervous System, Both Sexes
Joinpoint Analyses for Whites and Blacks from 1975-2016
and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

Incidence

Mortality

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).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

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

<sup>b</sup> 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.

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

<sup>d</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.
<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence 2012-2016 Rate per 100,000 persons</th>
<th>Trend 2007-2016 AAPC (%)</th>
<th>SEER 9 Areas 2007-2016 Rate per 100,000 persons</th>
<th>Trend 2007-2016 AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Races</td>
<td>127.5 0.2*</td>
<td>0.3*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>130.5 0.1</td>
<td>0.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Hispanic</td>
<td>99.6 0.2*</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>136.6 0.2</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>124.0 0.6*</td>
<td>0.3*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>100.1 0.9*</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>79.5 0.1</td>
<td>-</td>
<td></td>
<td></td>
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<tr>
<td>Hispanic</td>
<td>97.2 0.4*</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. Mortality</th>
<th>Rate 2012-2016 Rate per 100,000 persons</th>
<th>Trend 2007-2016 AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Races</td>
<td>20.6 -1.6*</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>20.1 -1.6*</td>
<td>-1.0*</td>
</tr>
<tr>
<td>White Hispanic</td>
<td>15.0 -1.0*</td>
<td>-1.2*</td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>20.6 -1.6*</td>
<td>-1.6*</td>
</tr>
<tr>
<td>Black</td>
<td>28.1 -1.5*</td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>11.2 -0.9*</td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat Total U.S.</td>
<td>11.4 -0.4</td>
<td></td>
</tr>
<tr>
<td>PRCDA Counties</td>
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<td></td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>8.1 0.9</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>14.2 -1.1*</td>
<td></td>
</tr>
</tbody>
</table>

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, Hawaii, 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).
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.


b The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/RG, Idaho, New York and Massachusetts.

c The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 2000-2016.

d The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2016.

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

f Incidence data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

* The APC is significantly different from zero (p < .05).
Figure 4.4

SEER Incidence and US Death Rates<sup>a</sup>
Cancer of the Female Breast
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).

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.

API = Asian/Pacific Islander.

AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.

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![Incidence and Mortality Rates Graph](https://example.com/inm_rate_graph.png)
Table 5.11
Cancer of the Cervix Uteri (Invasive)
SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends
By Race/Ethnicity

<table>
<thead>
<tr>
<th>SEER Incidence</th>
<th>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
<th>SEER 9 Areas&lt;sup&gt;c&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016&lt;sup&gt;c&lt;/sup&gt;</td>
<td>AAPC (%)&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>Females</td>
<td>Females</td>
<td>Females</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>All Races</th>
<th>White</th>
<th>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</th>
<th>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</th>
<th>Black</th>
<th>Asian/Pacific Islander</th>
<th>Amer Ind/Alaska Nat&lt;sup&gt;f&lt;/sup&gt;</th>
<th>Hispanic&lt;sup&gt;e&lt;/sup&gt;</th>
<th>U.S. Mortality&lt;sup&gt;g&lt;/sup&gt;</th>
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<tbody>
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<td>7.2</td>
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<td>8.7</td>
<td>6.4</td>
<td>7.9</td>
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</tr>
<tr>
<td>Trend 2007-2016&lt;sup&gt;c&lt;/sup&gt;</td>
<td>-1.0</td>
<td>-0.6</td>
<td>-2.2*</td>
<td>-0.6*</td>
<td>-2.9*</td>
<td>-2.3*</td>
<td>0.5</td>
<td>-1.9*</td>
<td>-0.7*</td>
</tr>
<tr>
<td>AAPC (%)</td>
<td>-0.4</td>
<td>-0.1</td>
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<td>2.1</td>
<td>3.5</td>
<td>1.7</td>
<td>1.8</td>
<td>2.8</td>
<td>0.8</td>
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</tr>
<tr>
<td>Trend 2007-2016&lt;sup&gt;h&lt;/sup&gt;</td>
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<td>-1.2</td>
<td>-0.1</td>
<td>-2.7*</td>
<td>-2.7*</td>
<td>-3.2*</td>
<td>-2.7*</td>
<td>-4.1</td>
<td>-1.4*</td>
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</table>

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.
- The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/PG, 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).
Figure 5.3

SEER Incidence and US Death Rates\textsuperscript{a}

Cancer of the Cervix Uteri

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).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

\textsuperscript{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 4.7, 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} 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.
### Table 6.21
Cancer of the Colon and Rectum (Invasive)

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

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence</th>
<th>SEER Mortality</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Males Females</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>All Races</td>
<td>38.6 44.2 33.9</td>
<td>-2.5* -2.6* -2.4*</td>
</tr>
<tr>
<td>White</td>
<td>38.1 43.4 33.6</td>
<td>-2.5* -2.7* -2.2*</td>
</tr>
<tr>
<td>White Hispanic</td>
<td>34.6 41.2 29.4</td>
<td>-2.4* -2.7* -1.8*</td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>38.8 44.1 34.3</td>
<td>-2.3* -2.6* -2.2*</td>
</tr>
<tr>
<td>Black</td>
<td>44.6 52.4 39.1</td>
<td>-3.1* -2.8* -3.2*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>31.8 37.9 26.9</td>
<td>-2.4* -2.4* -3.4*</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>39.3 41.2 37.9</td>
<td>-0.7 0.9 -0.4</td>
</tr>
<tr>
<td>Hispanic</td>
<td>33.7 40.0 28.8</td>
<td>-2.0* -2.5* -1.8*</td>
</tr>
<tr>
<td>U.S. Mortality</td>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016</td>
</tr>
<tr>
<td>Race/Ethnicity</td>
<td>Total Males Females</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>All Races</td>
<td>14.2 16.9 11.9</td>
<td>-2.3* -2.3* -2.3*</td>
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<tr>
<td>White</td>
<td>13.8 16.5 11.7</td>
<td>-2.2* -2.3* -2.2*</td>
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<tr>
<td>White Hispanic</td>
<td>11.9 15.3 9.3</td>
<td>-1.6* -1.5* -2.0*</td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>14.0 16.6 11.9</td>
<td>-2.2* -2.3* -2.1*</td>
</tr>
<tr>
<td>Black</td>
<td>18.9 23.8 15.5</td>
<td>-2.9* -2.7* -3.2*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>9.8 11.6 8.4</td>
<td>-2.0* -2.2* -1.8*</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>Total U.S.</td>
<td>11.1 13.3 9.4</td>
</tr>
<tr>
<td></td>
<td>PRCDA Counties</td>
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<td></td>
<td>Non-PRCDDA Counties</td>
<td>6.0 7.1 5.2</td>
</tr>
<tr>
<td>Hispanic</td>
<td>11.2 14.4 8.8</td>
<td>-1.8* -1.7* -2.2*</td>
</tr>
</tbody>
</table>

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. Rate based on rates 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, Hawaii, 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/RG, 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).
### Cancer of the Colon (Invasive) and Cancer of the Rectum (Invasive)

#### SEER Incidence

**Age-Adjusted Rates and Trends**

*By Race/Ethnicity and Sex*

<table>
<thead>
<tr>
<th>Cancer of the Colon</th>
<th>SEER Incidence</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016</th>
<th>AAPC (%)</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Races</td>
<td>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</td>
<td>Rate per 100,000 persons</td>
<td>Trend 2007-2016</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Total Males</td>
<td>Females</td>
<td>Total Males</td>
<td>Females</td>
<td>Total Males</td>
</tr>
<tr>
<td>All Races</td>
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<td>29.9</td>
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<td>-3.1*</td>
</tr>
<tr>
<td>White</td>
<td>26.8</td>
<td>29.4</td>
<td>24.6</td>
<td>-2.8*</td>
<td>-3.1*</td>
</tr>
<tr>
<td>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>23.8</td>
<td>27.2</td>
<td>21.3</td>
<td>-2.6*</td>
<td>-3.2*</td>
</tr>
<tr>
<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
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<td>-3.0*</td>
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<tr>
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<td>-3.4*</td>
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<td>-2.8*</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat&lt;sup&gt;f&lt;/sup&gt;</td>
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<td>27.4</td>
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<td>-0.9</td>
</tr>
<tr>
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<td>26.4</td>
<td>20.8</td>
<td>-2.5*</td>
<td>-3.0*</td>
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</table>

<table>
<thead>
<tr>
<th>Cancer of the Rectum</th>
<th>SEER Incidence</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016</th>
<th>AAPC (%)</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Races</td>
<td>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</td>
<td>Rate per 100,000 persons</td>
<td>Trend 2007-2016</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Total Males</td>
<td>Females</td>
<td>Total Males</td>
<td>Females</td>
<td>Total Males</td>
</tr>
<tr>
<td>All Races</td>
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<td>14.3</td>
<td>9.1</td>
<td>-1.7*</td>
<td>-1.8*</td>
</tr>
<tr>
<td>White</td>
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<td>14.0</td>
<td>8.9</td>
<td>-1.8*</td>
<td>-2.0*</td>
</tr>
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<td>10.8</td>
<td>14.0</td>
<td>8.1</td>
<td>-1.5*</td>
<td>-1.8*</td>
</tr>
<tr>
<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>11.5</td>
<td>14.2</td>
<td>9.1</td>
<td>-1.8*</td>
<td>-1.9*</td>
</tr>
<tr>
<td>Black</td>
<td>11.8</td>
<td>14.9</td>
<td>9.5</td>
<td>-2.1*</td>
<td>-1.1*</td>
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<td>8.3</td>
<td>-1.9*</td>
<td>-1.8*</td>
</tr>
<tr>
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<td>0.0</td>
<td>-1.0</td>
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<td>13.6</td>
<td>8.0</td>
<td>-1.2*</td>
<td>-1.4*</td>
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</tbody>
</table>

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. Statistical 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.
- The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/RG, 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.
- The APC is significantly different from zero (p<.05).
Figure 6.2
SEER Incidence and US Death Rates\textsuperscript{a}
Cancer of the Colon and Rectum, Both Sexes
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).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

\textsuperscript{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 4.7, 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} 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.
Table 7.11
Cancer of the Corpus And Uterus, NOS (Invasive)
SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends
By Race/Ethnicity

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Females</td>
<td>Females</td>
<td>Females</td>
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<tr>
<td>Race/Ethnicity</td>
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<tr>
<td>All Races</td>
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<td>White Hispanic</td>
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<tr>
<td>White Non-Hispanic</td>
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<td>Black</td>
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<td>2.3*</td>
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<td>Asian/Pacific Islander</td>
<td>20.8</td>
<td>2.1*</td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>19.7</td>
<td>1.1*</td>
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</tr>
<tr>
<td>Hispanic</td>
<td>24.1</td>
<td>2.2*</td>
<td></td>
</tr>
</tbody>
</table>

U.S. Mortality

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Females</td>
<td>Females</td>
</tr>
<tr>
<td>All Races</td>
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<td>1.9*</td>
</tr>
<tr>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Hispanic</td>
<td>4.1</td>
<td>2.7*</td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>4.4</td>
<td>1.6*</td>
</tr>
<tr>
<td>Black</td>
<td>8.5</td>
<td>2.2*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
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<td>2.3*</td>
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<tr>
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<tr>
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<tr>
<td>Non-PRCDA Counties</td>
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</tr>
<tr>
<td>Hispanic</td>
<td>3.9</td>
<td>1.8*</td>
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</tbody>
</table>

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.  
The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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).
SEER Incidence and US Death Rates\textsuperscript{a}
Cancer of the Corpus and Uterus, NOS
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).
Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.
\textsuperscript{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 4.7, 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 (PRCPDA) counties.
\textsuperscript{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.
Table 8.15
Cancer of the Esophagus (Invasive)

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

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt; Rate 2012-2016 Rate per 100,000 persons</th>
<th>Trend 2007-2016&lt;sup&gt;c&lt;/sup&gt; AAPC (%)</th>
<th>SEER 9 Areas&lt;sup&gt;b&lt;/sup&gt; Rate 2012-2016 Rate per 100,000 persons</th>
<th>Trend 2007-2016&lt;sup&gt;d&lt;/sup&gt; AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Males Females</td>
<td>AAPC (%)</td>
<td>Total Males Females</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>All Races</td>
<td>4.3 7.3 1.8 -1.4* -1.8* -1.6* -1.2* -1.2* -1.3*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>4.6 7.9 1.8 -1.1* -1.5* -1.0* -0.6* -0.7* -0.1*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>2.9 5.1 1.2 -1.7* -2.0* -1.7* - - -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>4.8 8.3 1.9 -0.9* -1.2* -0.8* - - -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>3.9 6.4 2.1 -4.4* -4.5* -4.4* -4.4* -4.6* -3.3*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>2.1 3.6 0.9 -1.6* -1.2* -2.8* - - -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat&lt;sup&gt;f&lt;/sup&gt;</td>
<td>3.6 5.9 1.7 -1.3 -2.2 0.8 - - -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>2.8 4.9 1.1 -1.8* -2.1* -1.6* - - -</td>
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<td></td>
<td></td>
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<tr>
<td>U.S. Mortality&lt;sup&gt;g&lt;/sup&gt;</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rate 2012-2016 Rate per 100,000 persons</td>
<td>Trend 2007-2016&lt;sup&gt;h&lt;/sup&gt; AAPC (%)</td>
<td>Total Males Females</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Total Males Females</td>
<td>AAPC (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Races</td>
<td>4.0 7.1 1.5 -1.0* -1.1* -1.6*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>4.2 7.5 1.5 -0.5* -0.6* -1.0*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>2.1 3.9 0.8 -1.3* -1.2* -2.4*</td>
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</tr>
<tr>
<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>4.5 7.9 1.5 -0.3* -0.4* -0.8*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>3.3 5.6 1.7 -4.7* -4.9* -4.5*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>1.6 2.7 0.7 -1.4* -1.2* -2.2*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total U.S.</td>
<td>2.6 4.6 1.0 -1.6* -1.3 -3.0*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>3.5 6.2 1.4 -0.9 -0.8 -1.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>1.5 2.8 0.5 -2.5 -1.8 -7.5*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>2.0 3.7 0.7 -1.4* -1.3* -2.4*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 2000-2016.

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 1975-2016.

The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2016.

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).
Joinpoint Analyses for Whites and Blacks from 1975-2016 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

SEER Incidence and US Death Rates
Cancer of the Esophagus, Both Sexes
Joinpoint Analyses for Whites and Blacks from 1975-2016 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

Figure 8.2

Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 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).

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 4.7, 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.

b API = Asian/Pacific Islander.

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


The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/RG, 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 9.15
Hodgkin Lymphoma
SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Total Males</td>
<td>Females</td>
<td>Total Males</td>
<td>Females</td>
</tr>
<tr>
<td><strong>All Races</strong></td>
<td>2.7</td>
<td>3.0</td>
<td>2.3</td>
<td>-1.7*</td>
</tr>
<tr>
<td><strong>White</strong></td>
<td>2.8</td>
<td>3.1</td>
<td>2.5</td>
<td>-1.9*</td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>2.8</td>
<td>2.2</td>
<td>-1.5*</td>
</tr>
<tr>
<td></td>
<td>3.0</td>
<td>3.4</td>
<td>2.7</td>
<td>-1.7*</td>
</tr>
<tr>
<td><strong>Black</strong></td>
<td>2.7</td>
<td>3.1</td>
<td>2.3</td>
<td>-0.9</td>
</tr>
<tr>
<td><strong>Asian/Pacific Islander</strong></td>
<td>1.3</td>
<td>1.5</td>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td><strong>Amer Ind/Alaska Nat</strong></td>
<td>1.4</td>
<td>1.5</td>
<td>1.2</td>
<td>3.0*</td>
</tr>
<tr>
<td><strong>Hispanic</strong></td>
<td>2.4</td>
<td>2.7</td>
<td>2.1</td>
<td>-0.5</td>
</tr>
<tr>
<td><strong>U.S. Mortality</strong></td>
<td>0.3</td>
<td>0.4</td>
<td>0.2</td>
<td>-4.0*</td>
</tr>
<tr>
<td></td>
<td>0.3</td>
<td>0.4</td>
<td>0.3</td>
<td>-3.1*</td>
</tr>
<tr>
<td></td>
<td>0.4</td>
<td>0.5</td>
<td>0.3</td>
<td>-1.2*</td>
</tr>
<tr>
<td></td>
<td>0.3</td>
<td>0.4</td>
<td>0.2</td>
<td>-3.4*</td>
</tr>
<tr>
<td><strong>Black</strong></td>
<td>0.3</td>
<td>0.4</td>
<td>0.2</td>
<td>-2.7*</td>
</tr>
<tr>
<td><strong>Asian/Pacific Islander</strong></td>
<td>0.1</td>
<td>0.2</td>
<td>0.1</td>
<td>-3.1*</td>
</tr>
<tr>
<td><strong>Amer Ind/Alaska Nat</strong></td>
<td>0.1</td>
<td>-</td>
<td>-</td>
<td>-4.4</td>
</tr>
<tr>
<td>Total U.S.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-4.4</td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Hispanic</strong></td>
<td>0.4</td>
<td>0.5</td>
<td>0.3</td>
<td>-1.3*</td>
</tr>
</tbody>
</table>
Figure 9.2
SEER Incidence and US Death Rates\textsuperscript{a}
Hodgkin Lymphoma, Both Sexes
Joinpoint Analyses for Whites and Blacks from 1975-2016
and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

Incidence

\begin{center}
\begin{tabular}{ccc}
Year of Diagnosis & Incidence Rate per 100,000 & Mortality Rate per 100,000 \\
1975 & 0.5 & 0.1 \\
1980 & 0.5 & 0.1 \\
1985 & 0.5 & 0.1 \\
1990 & 0.5 & 0.1 \\
1995 & 0.5 & 0.1 \\
2000 & 0.5 & 0.1 \\
2005 & 0.5 & 0.1 \\
2010 & 0.5 & 0.1 \\
2015 & 0.5 & 0.1 \\
2016 & 0.5 & 0.1 \\
\end{tabular}
\end{center}

\textbf{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).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

\textsuperscript{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 4.7, 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 2000-2015 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 Incidence due to insufficient data.

\textsuperscript{e} 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.
### Table 10.13
Kaposi Sarcoma
SEER Incidence
Age-Adjusted Rates and Trends\(^a\)
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Rate per 100,000 persons</th>
<th>Trend 2007-2016 (^b)</th>
<th>AAPC (%)</th>
<th>Trend 2007-2016 (^d)</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Races</td>
<td>0.5</td>
<td>-2.9*</td>
<td>-3.1*</td>
<td>-2.1*</td>
<td>-3.2*</td>
</tr>
<tr>
<td>White</td>
<td>0.4</td>
<td>-3.5*</td>
<td>-3.5*</td>
<td>-3.0*</td>
<td>-4.1*</td>
</tr>
<tr>
<td>White Hispanic(^e)</td>
<td>0.7</td>
<td>-4.6*</td>
<td>-4.1*</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>White Non-Hispanic(^e)</td>
<td>0.3</td>
<td>-3.6*</td>
<td>-3.8*</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Black</td>
<td>1.1</td>
<td>-2.5*</td>
<td>-3.7*</td>
<td>-1.2*</td>
<td>-1.4*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>0.2</td>
<td>-1.5</td>
<td>-0.3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat(^f)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Hispanic(^e)</td>
<td>0.7</td>
<td>-4.1*</td>
<td>-3.3*</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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.


The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/CRG, 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.

* The APC is significantly different from zero (p<.05).
### Table 11.15
Cancer of the Kidney and Renal Pelvis (Invasive)

SEER Incidence and U.S. Mortality Age-Adjusted Rates and Trends\(^a\)
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>SEER Incidence</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate per 100,000 persons</td>
<td>Total Males Females</td>
<td>Total Males Females</td>
<td>Total Males Females</td>
</tr>
<tr>
<td>All Races</td>
<td>16.1 22.1 10.9</td>
<td>0.3 0.3 0.1</td>
<td>0.3 0.2 -0.2</td>
</tr>
<tr>
<td>White</td>
<td>16.6 22.8 11.3</td>
<td>0.3 0.3 0.0</td>
<td>0.2 0.5 -0.3</td>
</tr>
<tr>
<td>White Hispanic(^c)</td>
<td>16.3 21.6 12.0</td>
<td>0.8* 0.7 0.8</td>
<td>- - -</td>
</tr>
<tr>
<td>White Non-Hispanic(^c)</td>
<td>16.7 23.1 11.1</td>
<td>0.2 0.3 0.0</td>
<td>- - -</td>
</tr>
<tr>
<td>Black</td>
<td>17.4 24.3 12.1</td>
<td>0.8* 0.7* 0.7</td>
<td>0.6 -0.1 0.3</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>8.4 12.0 5.5</td>
<td>0.1 0.4 -0.2</td>
<td>- - -</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat(^c)</td>
<td>16.8 21.2 13.1</td>
<td>-1.5 -1.7 0.3</td>
<td>- - -</td>
</tr>
<tr>
<td>Hispanic(^c)</td>
<td>15.7 20.8 11.6</td>
<td>1.1* 0.8* 1.9*</td>
<td>- - -</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. Mortality(^b)</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate per 100,000 persons</td>
<td>Total Males Females</td>
<td>Total Males Females</td>
<td></td>
</tr>
<tr>
<td>All Races</td>
<td>3.8 5.5 2.3</td>
<td>-0.9* -0.8* -1.4*</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>3.9 5.7 2.4</td>
<td>-0.8* -0.7* -1.3*</td>
<td></td>
</tr>
<tr>
<td>White Hispanic(^c)</td>
<td>3.7 5.3 2.4</td>
<td>-0.3 -0.5 -0.3</td>
<td></td>
</tr>
<tr>
<td>White Non-Hispanic(^c)</td>
<td>3.9 5.7 2.4</td>
<td>-0.8* -0.7* -1.3*</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>3.6 5.5 2.3</td>
<td>-1.1* -1.0* -1.5*</td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>1.8 2.7 1.1</td>
<td>-0.2 0.2 -0.9</td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>Total U.S.</td>
<td>3.8 5.3 2.6</td>
<td>-1.8* -2.0* -1.5</td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>5.7 8.1 3.8</td>
<td>-1.1 -1.0 -1.2</td>
<td></td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>1.7 2.3 1.3</td>
<td>-2.4* -2.6 -1.1</td>
<td></td>
</tr>
<tr>
<td>Hispanic(^c)</td>
<td>3.5 5.0 2.3</td>
<td>-0.5* -0.7* -0.5</td>
<td></td>
</tr>
</tbody>
</table>

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. 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, Hawaii, 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/RG, 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).
SEER Incidence and US Death Rates\textsuperscript{a}
Cancer of the Kidney and Renal Pelvis, Both Sexes
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).
Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.
\textsuperscript{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 4.7, 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} 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.
## Table 12.15
Cancer of the Larynx (Invasive)

### SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>Rate 2012-2016 Rate per 100,000 persons</th>
<th>Trend 2007-2016 Trend per 100,000 persons</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total Males Females</td>
<td>Total Males Females</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td><strong>SEER Incidence</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Races</td>
<td>3.0 5.2 1.1 &lt;=2.8* &lt;=2.9* &lt;=2.3*</td>
<td>&lt;=2.4* &lt;=2.5* &lt;=2.6*</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>3.0 5.2 1.2 &lt;=2.7* &lt;=2.9* &lt;=2.2*</td>
<td>&lt;=2.3* &lt;=2.4* &lt;=2.4*</td>
<td></td>
</tr>
<tr>
<td>White Hispanic</td>
<td>2.2 4.3 0.6 &lt;=3.0* &lt;=3.0* &lt;=3.5*</td>
<td>&lt;=2.5* &lt;=3.5* &lt;=3.5*</td>
<td></td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>3.2 5.4 1.3 &lt;=2.5* &lt;=2.7* &lt;=1.9*</td>
<td>&lt;=2.5* &lt;=2.7* &lt;=2.7*</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>4.0 7.6 1.5 &lt;=2.9* &lt;=3.1* &lt;=2.2*</td>
<td>&lt;=2.9* &lt;=2.7* &lt;=3.0*</td>
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</tr>
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<td>1.0 2.0 0.2 &lt;=3.1* &lt;=3.4* &lt;=1.9</td>
<td>&lt;=2.9* &lt;=2.7* &lt;=3.0*</td>
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</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
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<td>0.5 1.3 -</td>
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</tr>
<tr>
<td>Hispanic</td>
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<td>&lt;=2.9* &lt;=2.9* &lt;=3.3*</td>
<td></td>
</tr>
<tr>
<td><strong>U.S. Mortality</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rate 2012-2016 Rate per 100,000 persons</td>
<td>Trend 2007-2016 Trend per 100,000 persons</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Total Males Females</td>
<td>Total Males Females</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>All Races</td>
<td>1.0 1.8 0.4 &lt;=2.3* &lt;=2.3* &lt;=2.3*</td>
<td>&lt;=2.3* &lt;=2.3* &lt;=2.3*</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>1.0 1.7 0.4 &lt;=1.9* &lt;=2.2* &lt;=2.0*</td>
<td>&lt;=2.3* &lt;=2.3* &lt;=2.3*</td>
<td></td>
</tr>
<tr>
<td>White Hispanic</td>
<td>0.7 1.5 0.1 &lt;=2.5* &lt;=2.5* &lt;=3.7*</td>
<td>&lt;=2.5* &lt;=2.5* &lt;=3.7*</td>
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<tr>
<td>White Non-Hispanic</td>
<td>1.0 1.7 0.4 &lt;=1.8* &lt;=2.1* &lt;=1.8*</td>
<td>&lt;=2.5* &lt;=2.5* &lt;=2.5*</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>1.6 3.1 0.5 &lt;=3.7* &lt;=3.8* &lt;=3.5*</td>
<td>&lt;=3.7* &lt;=3.7* &lt;=3.7*</td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>0.3 0.7 0.1</td>
<td>&lt;=2.0* &lt;=2.0* &lt;=2.0*</td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total U.S.</td>
<td>0.7 1.4 0.2 &lt;=2.4* &lt;=2.4* &lt;=4.7*</td>
<td>&lt;=2.4* &lt;=2.4* &lt;=4.7*</td>
<td></td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>0.8 1.6 -</td>
<td>&lt;=2.3* &lt;=2.3* &lt;=2.3*</td>
<td></td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>0.6 1.1 -</td>
<td>&lt;=2.8* &lt;=2.8* &lt;=2.8*</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>0.7 1.5 0.1 &lt;=2.5* &lt;=2.5* &lt;=3.7*</td>
<td>&lt;=2.5* &lt;=2.5* &lt;=3.7*</td>
<td></td>
</tr>
</tbody>
</table>

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.

Trends 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 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/RC, Idaho, New York, and Massachusetts.

The SEER 21 areas are San Francisco, Detroit, Iowa, New Mexico, Seattle, Utah, and Atlanta.

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

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).
Joinpoint Analyses for Whites and Blacks from 1975-2016 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

Figure 12.2

SEER Incidence and US Death Rates
Cancer of the Larynx, Both Sexes
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).

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.

API = Asian/Pacific Islander.
AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.

Incidence vs. Mortality Rates per 100,000 from 1975 to 2016

Year of Diagnosis vs. Year of Death

0 1 2 3 4 5 6 7 8 9 10

Rate per 100,000

White
Black
API
AI/AN
Hispanic

0 1 2 3 4 5 6 7 8 9 10

Rate per 100,000


Year of Diagnosis


Year of Death

SEER Cancer Statistics Review 1975-2016 National Cancer Institute
# Leukemia

## SEER Incidence and U.S. Mortality

### Age-Adjusted Rates and Trends

#### By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence</th>
<th>SEER 21 Areas&lt;sup&gt;a&lt;/sup&gt;</th>
<th>SEER 9 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016&lt;sup&gt;c&lt;/sup&gt;</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>Total</td>
<td>Males</td>
</tr>
<tr>
<td>All Races</td>
<td>14.1 18.1 10.9</td>
<td>-0.4 -0.2 -0.6</td>
<td>-0.3 0.2* 0.3*</td>
</tr>
<tr>
<td>White</td>
<td>14.9 19.1 11.5</td>
<td>-0.5 -0.5 -0.7</td>
<td>0.4* 0.3* 0.5*</td>
</tr>
<tr>
<td>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>11.2 13.4 9.4</td>
<td>0.1 -0.2 0.3</td>
<td>- - -</td>
</tr>
<tr>
<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>15.3 19.7 11.6</td>
<td>-0.5 -0.5 -0.8</td>
<td>- - -</td>
</tr>
<tr>
<td>Black</td>
<td>10.9 13.9 8.9</td>
<td>0.6 0.2 0.7</td>
<td>0.1 0.1 0.2</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>7.8 9.7 6.3</td>
<td>0.1 0.0 0.2</td>
<td>- - -</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat&lt;sup&gt;c&lt;/sup&gt;</td>
<td>8.6 11.0 6.6</td>
<td>0.8 2.1 -0.1</td>
<td>- - -</td>
</tr>
<tr>
<td>Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>10.8 13.0 9.1</td>
<td>0.2 0.0 0.3</td>
<td>- - -</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. Mortality&lt;sup&gt;f&lt;/sup&gt;</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016&lt;sup&gt;h&lt;/sup&gt;</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Race/Ethnicity</td>
<td>Rate per 100,000 persons</td>
<td>Total</td>
<td>Males</td>
</tr>
<tr>
<td>All Races</td>
<td>6.5 8.8 4.9</td>
<td>-1.6* -1.7* -1.3*</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>6.8 9.1 5.1</td>
<td>-1.4* -1.6* -1.2*</td>
<td></td>
</tr>
<tr>
<td>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>5.0 6.3 4.1</td>
<td>-0.7* -0.8* -0.6*</td>
<td></td>
</tr>
<tr>
<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>6.9 9.3 5.1</td>
<td>-1.4* -1.5* -1.2*</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>5.5 7.2 4.4</td>
<td>-1.5* -1.7* -1.5*</td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>3.6 4.7 2.8</td>
<td>-1.8* -0.7* -2.3*</td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat&lt;sup&gt;c&lt;/sup&gt;</td>
<td>Total U.S.</td>
<td>3.1 4.2 2.3</td>
<td>-2.2* -0.9* -3.6*</td>
</tr>
<tr>
<td></td>
<td>PRCDA Counties</td>
<td>4.1 5.4 3.0</td>
<td>-1.6* -0.5* -2.8*</td>
</tr>
<tr>
<td></td>
<td>Non-PRCDA Counties</td>
<td>2.0 2.8 1.5</td>
<td>-3.1* -1.3* -5.0*</td>
</tr>
<tr>
<td>Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>4.7 6.0 3.8</td>
<td>-0.8* -0.9* -0.7*</td>
<td></td>
</tr>
</tbody>
</table>

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.<br> 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).<br> The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta.<br> 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/RG, Idaho, New York and Massachusetts.<br> The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 2000-2016.<br> The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2016.<br> 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.<br> Incidence data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.<br> US Mortality Files, National Center for Health Statistics, CDC.<br> The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.<br> The APC is significantly different from zero (p<.05).
Figure 13.3

SEER Incidence and US Death Rates\textsuperscript{a}
Leukemia, Both Sexes
Joinpoint Analyses for Whites and Blacks from 1975-2016
and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

Incidence

Mortality

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).
Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.
\textsuperscript{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 4.7, 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} 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.
Table 14.15
Cancer of the Liver and Intrahepatic Bile Duct (Invasive)

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

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence</th>
<th>SEER 21 Areas</th>
<th>SEER 21 Areas</th>
<th>SEER 9 Areas</th>
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<tr>
<td></td>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016</td>
<td>AAPC (%)</td>
<td>Trend 2007-2016</td>
</tr>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Males Females</td>
<td></td>
<td></td>
<td>Total Males Females</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------</td>
<td>---------------</td>
<td>---------------</td>
<td>----------------</td>
</tr>
<tr>
<td>All Races</td>
<td>8.8 13.6 4.7</td>
<td>1.5* 1.7* 1.9*</td>
<td>2.1* 1.8* 2.7*</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>8.0 12.2 4.3</td>
<td>1.8* 1.6* 2.3</td>
<td>2.6* 2.2* 3.7*</td>
<td></td>
</tr>
<tr>
<td>White Hispanic</td>
<td>14.1 21.1 8.1</td>
<td>0.1 0.4 0.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>7.0 10.8 3.7</td>
<td>2.3* 1.8* 3.0*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>10.8 17.8 5.4</td>
<td>1.6* 1.4* 1.8</td>
<td>1.5 1.0 2.9*</td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>13.0 19.9 7.4</td>
<td>-2.4* -2.3* -1.1*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>13.6 19.3 8.5</td>
<td>2.7* 3.0* 2.0*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>13.6 20.3 7.9</td>
<td>0.5 0.6 0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. Mortality</td>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016</td>
<td>AAPC (%)</td>
<td></td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------</td>
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<td>----------------</td>
</tr>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
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<td></td>
<td>Total Males Females</td>
</tr>
<tr>
<td>------------------------------</td>
<td>----------------</td>
<td>---------------</td>
<td>---------------</td>
<td>----------------</td>
</tr>
<tr>
<td>All Races</td>
<td>6.5 9.6 3.9</td>
<td>2.4* 2.0* 2.5*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>6.1 8.9 3.7</td>
<td>2.5* 2.4* 2.6*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Hispanic</td>
<td>9.8 14.1 6.3</td>
<td>1.5* 1.6* 1.3*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>5.7 8.3 3.4</td>
<td>2.5* 2.4* 2.2*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>8.4 13.2 4.7</td>
<td>1.7* 1.5* 1.8*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>9.3 13.8 5.8</td>
<td>-1.1* -0.9* -1.3*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>Total U.S.</td>
<td>7.4 9.9 5.1</td>
<td>1.2* 1.4* 0.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PRCDA Counties</td>
<td>10.6 14.4 7.4</td>
<td>1.8* 2.3* 1.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Non-PRCDA Counties</td>
<td>3.7 5.1 2.4</td>
<td>0.8 0.7 0.7</td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>9.3 13.3 6.0</td>
<td>1.4* 1.4* 1.3*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.


The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/RG, Idaho, New York and Massachusetts.

The SEER 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).
Joinpoint Analyses for Whites and Blacks from 1975-2016
and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

Figure 14.2
SEER Incidence and US Death Rates
Cancer of the Liver and Intrahepatic Bile Duct, Both Sexes
Joinpoint Analyses for Whites and Blacks from 1975-2016
and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

Incidence
Mortality

Rate per 100,000
Rate per 100,000

20
15
10
5
0
20
15
10
5
0


Year of Diagnosis
Year of Death

White
Black
API
AI/AN
Hispanic

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).
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 4.7, 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.
b API = Asian/Pacific Islander.
c AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.
### SEER Incidence

<table>
<thead>
<tr>
<th>SEER Incidence</th>
<th>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
<th>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
<th>SEER 9 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate 2012-2016</td>
<td>Rate per 100,000 persons</td>
<td>Trend 2007-2016&lt;sup&gt;c&lt;/sup&gt;</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>Rate 2012-2016</td>
<td>Total</td>
<td>Males</td>
<td>Females</td>
</tr>
</tbody>
</table>

### Race/Ethnicity

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>All Races</th>
<th>White</th>
<th>White Hispanic&lt;sup&gt;c&lt;/sup&gt;</th>
<th>White Non-Hispanic&lt;sup&gt;c&lt;/sup&gt;</th>
<th>Black</th>
<th>Asian/Pacific Islander</th>
<th>Amer Ind/Alaska Nat&lt;sup&gt;c&lt;/sup&gt;</th>
<th>Hispanic&lt;sup&gt;c&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate 2012-2016</td>
<td>54.9</td>
<td>60.9</td>
<td>56.7</td>
<td>29.8</td>
<td>60.9</td>
<td>36.0</td>
<td>37.8</td>
<td>29.1</td>
</tr>
<tr>
<td>Rate per 100,000 persons</td>
<td>48.9</td>
<td>56.0</td>
<td>51.8</td>
<td>25.4</td>
<td>56.0</td>
<td>28.2</td>
<td>33.9</td>
<td>24.8</td>
</tr>
<tr>
<td>AAPC (%)</td>
<td>-2.2*</td>
<td>-2.0*</td>
<td>-2.2*</td>
<td>-2.5*</td>
<td>-2.0*</td>
<td>-1.0*</td>
<td>-1.7*</td>
<td>-2.3*</td>
</tr>
<tr>
<td>Trend 2007-2016</td>
<td>-2.9*</td>
<td>-2.7*</td>
<td>-2.9*</td>
<td>-3.6*</td>
<td>-2.7*</td>
<td>-1.7*</td>
<td>-2.2*</td>
<td>-3.4*</td>
</tr>
<tr>
<td>AAPC (%)</td>
<td>-1.7*</td>
<td>-1.4*</td>
<td>-1.6*</td>
<td>-1.3*</td>
<td>-1.4*</td>
<td>-0.6</td>
<td>-1.1</td>
<td>-1.1*</td>
</tr>
</tbody>
</table>

### U.S. Mortality<sup>g</sup>

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>All Races</th>
<th>White</th>
<th>White Hispanic&lt;sup&gt;c&lt;/sup&gt;</th>
<th>White Non-Hispanic&lt;sup&gt;c&lt;/sup&gt;</th>
<th>Black</th>
<th>Asian/Pacific Islander</th>
<th>Amer Ind/Alaska Nat&lt;sup&gt;c&lt;/sup&gt;</th>
<th>Hispanic&lt;sup&gt;c&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate 2012-2016</td>
<td>41.9</td>
<td>42.7</td>
<td>19.2</td>
<td>45.0</td>
<td>44.3</td>
<td>36.0</td>
<td>37.8</td>
<td>29.1</td>
</tr>
<tr>
<td>Rate per 100,000 persons</td>
<td>51.6</td>
<td>51.7</td>
<td>26.6</td>
<td>54.1</td>
<td>62.1</td>
<td>46.3</td>
<td>43.3</td>
<td>35.2</td>
</tr>
<tr>
<td>AAPC (%)</td>
<td>-3.0*</td>
<td>-2.9*</td>
<td>-2.2*</td>
<td>-2.7*</td>
<td>-3.5*</td>
<td>-1.0*</td>
<td>-1.7*</td>
<td>-2.3*</td>
</tr>
<tr>
<td>Trend 2007-2016</td>
<td>-3.6*</td>
<td>-3.5*</td>
<td>-3.0*</td>
<td>-3.4*</td>
<td>-4.1*</td>
<td>-1.7*</td>
<td>-2.2*</td>
<td>-3.4*</td>
</tr>
<tr>
<td>AAPC (%)</td>
<td>-2.5*</td>
<td>-2.4*</td>
<td>-1.4*</td>
<td>-2.2*</td>
<td>-2.7*</td>
<td>-1.1</td>
<td>-1.1*</td>
<td>-1.1*</td>
</tr>
</tbody>
</table>

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. 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, Hawaii, 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/RG, Idaho, New York and Massachusetts. The SEER 21 areas 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 2007-2016. 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).
SEER Incidence and US Death Rates\textsuperscript{a}
Cancer of the Lung and Bronchus, Both Sexes
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). Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

\textsuperscript{a} Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

\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} 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.
### Table 16.15
Melanoma of the Skin (Invasive)

SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends*  
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>SEER Incidence</th>
<th>SEER 21 Areasb</th>
<th>SEER 21 Areasb</th>
<th>SEER 9 Areasb</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>Race/Ethnicity</td>
<td>Total Males</td>
<td>Females</td>
<td>Total Males</td>
</tr>
<tr>
<td>All Races</td>
<td>22.2</td>
<td>28.8</td>
<td>17.5</td>
</tr>
<tr>
<td>White</td>
<td>26.6</td>
<td>33.9</td>
<td>21.3</td>
</tr>
<tr>
<td>White Hispanicc</td>
<td>4.9</td>
<td>5.2</td>
<td>4.9</td>
</tr>
<tr>
<td>White Non-Hispanicd</td>
<td>31.2</td>
<td>39.1</td>
<td>25.4</td>
</tr>
<tr>
<td>Black</td>
<td>1.0</td>
<td>1.1</td>
<td>0.9</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>1.4</td>
<td>1.6</td>
<td>1.2</td>
</tr>
<tr>
<td>Amer Ind/Alaska Natf</td>
<td>5.5</td>
<td>5.8</td>
<td>5.3</td>
</tr>
<tr>
<td>Hispanicg</td>
<td>4.7</td>
<td>5.0</td>
<td>4.7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. Mortalityg</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016h</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Race/Ethnicity</td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
<td></td>
</tr>
<tr>
<td>All Races</td>
<td>Total Males</td>
<td>Females</td>
<td>Total Males</td>
</tr>
<tr>
<td>White</td>
<td>2.9</td>
<td>4.3</td>
<td>1.8</td>
</tr>
<tr>
<td>White Hispanicc</td>
<td>0.8</td>
<td>1.0</td>
<td>0.6</td>
</tr>
<tr>
<td>White Non-Hispanicd</td>
<td>3.2</td>
<td>4.7</td>
<td>2.0</td>
</tr>
<tr>
<td>Black</td>
<td>0.4</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>0.3</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>Total U.S.</td>
<td>0.5</td>
<td>0.7</td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>0.7</td>
<td>1.0</td>
<td>0.5</td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>0.3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Hispanicg</td>
<td>0.7</td>
<td>0.9</td>
<td>0.5</td>
</tr>
</tbody>
</table>

* 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.
* The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/RG, 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).
SEER Incidence and US Death Rates\textsuperscript{a}
Melanoma of the Skin, Both Sexes
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). Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

\textsuperscript{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 4.7, 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 (PRCPDA) counties.

\textsuperscript{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.
**Table 17.11**  
Mesothelioma  
SEER Incidence  
Age-Adjusted Rates and Trends\(^a\)  
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER 21 Areas(^b)</th>
<th>SEER 21 Areas(^b)</th>
<th>SEER 9 Areas(^b)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016(^c)</td>
<td>Trend 2007-2016(^d)</td>
</tr>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>Total</td>
<td>0.9 1.6 0.4</td>
<td>-1.6*</td>
<td>-1.1*</td>
</tr>
<tr>
<td>Males</td>
<td>1.0 1.8 0.5</td>
<td>-1.4*</td>
<td>-0.8*</td>
</tr>
<tr>
<td>Females</td>
<td>0.8 1.3 0.4</td>
<td>-2.6*</td>
<td>-1.8</td>
</tr>
<tr>
<td>All Races</td>
<td>1.1 1.8 0.5</td>
<td>-1.2*</td>
<td>0.0</td>
</tr>
<tr>
<td>Black</td>
<td>0.4 0.8 0.2</td>
<td>-1.7</td>
<td>-3.9*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>0.3 0.6 0.1</td>
<td>-0.4</td>
<td>-0.1</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat(^f)</td>
<td>0.5 - -</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Hispanic(^e)</td>
<td>0.8 1.3 0.4</td>
<td>-2.4*</td>
<td>-1.5</td>
</tr>
</tbody>
</table>

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.
- The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/rg, 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.
- The APC is significantly different from zero (p<.05).
Table 18.15
Myeloma
SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends\(^a\)
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence</th>
<th>U.S. Mortality(^g)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SEER 21 Areas(^b)</td>
<td>SEER 9 Areas(^b)</td>
</tr>
<tr>
<td></td>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016(^c)</td>
</tr>
<tr>
<td>All Races</td>
<td>Rate per 100,000 persons</td>
<td>Total Males Females</td>
</tr>
<tr>
<td>White</td>
<td>6.3 8.1 4.9</td>
<td>1.0 0.7 0.9*</td>
</tr>
<tr>
<td>White Hispanic</td>
<td>6.6 8.2 5.5</td>
<td>0.2 0.0 0.2</td>
</tr>
<tr>
<td>Black</td>
<td>13.7 16.3 11.9</td>
<td>0.4 0.2 1.2*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>5.4 6.0 5.0</td>
<td>-0.2 1.3 -1.4</td>
</tr>
<tr>
<td>Hispanic</td>
<td>6.7 8.2 5.5</td>
<td>0.4 0.5 0.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>U.S. Mortality(^g)</th>
<th>Race per 100,000 persons</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016(^h)</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Races</td>
<td>3.3 4.2 2.7</td>
<td>-0.6 -0.9* -0.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>3.1 4.0 2.4</td>
<td>-0.6 -0.8* -0.7*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Hispanic</td>
<td>2.9 3.6 2.4</td>
<td>-0.8* -0.6 -1.2*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>6.2 7.4 5.4</td>
<td>-0.5 -1.1* -0.7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>1.6 2.0 1.2</td>
<td>-0.5 0.3 -1.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>2.1 2.4 1.9</td>
<td>-2.9* -2.7* -3.2*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>3.1 3.4 2.8</td>
<td>-1.8 -1.9* -1.6</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hispanic</td>
<td>2.8 3.4 2.3</td>
<td>-1.0* -0.7 -1.4*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.


The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/RG, Idaho, New York and Massachusetts.

The SEER 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).
Figure 18.2

SEER Incidence and US Death Rates\(^a\)
Myeloma, Both Sexes
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).

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 4.7, 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.

\(^b\) API = Asian/Pacific Islander.

\(^c\) AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.
### Table 19.19
Non-Hodgkin Lymphoma
SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends*  
By Race/Ethnicity and Sex

#### SEER Incidence

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<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER 21 Areasb</th>
<th>SEER 21 Areasb</th>
<th>SEER 9 Areasb</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Total Males</td>
<td>Females</td>
<td>Total Males</td>
</tr>
<tr>
<td>All Races</td>
<td>19.6</td>
<td>23.9</td>
<td>16.2</td>
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<tr>
<td>White</td>
<td>20.6</td>
<td>25.0</td>
<td>17.0</td>
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<tr>
<td>White Hispanicc</td>
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<td>21.2</td>
<td>16.1</td>
</tr>
<tr>
<td>White Non-Hispanicd</td>
<td>21.0</td>
<td>25.6</td>
<td>17.2</td>
</tr>
<tr>
<td>Black</td>
<td>14.7</td>
<td>17.7</td>
<td>12.4</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>13.4</td>
<td>16.4</td>
<td>11.0</td>
</tr>
<tr>
<td>Amer Ind/Alaska Natf</td>
<td>11.3</td>
<td>12.0</td>
<td>10.6</td>
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<tr>
<td>Hispanicf</td>
<td>17.9</td>
<td>20.7</td>
<td>15.7</td>
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</table>

#### U.S. Mortalityg

<table>
<thead>
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<th>Rate 2012-2016</th>
<th>Trend 2007-2016h</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Males</td>
<td>Females</td>
<td>Total Males</td>
</tr>
<tr>
<td>All Races</td>
<td>5.6</td>
<td>7.3</td>
<td>4.4</td>
</tr>
<tr>
<td>White</td>
<td>5.9</td>
<td>7.6</td>
<td>4.5</td>
</tr>
<tr>
<td>White Hispanicc</td>
<td>5.1</td>
<td>6.5</td>
<td>4.0</td>
</tr>
<tr>
<td>White Non-Hispanicd</td>
<td>5.9</td>
<td>7.6</td>
<td>4.6</td>
</tr>
<tr>
<td>Black</td>
<td>4.1</td>
<td>5.2</td>
<td>3.3</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>3.9</td>
<td>4.9</td>
<td>3.1</td>
</tr>
<tr>
<td>Amer Ind/Alaska Natf</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Total U.S.</td>
<td>3.1</td>
<td>4.0</td>
<td>2.4</td>
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<td>PRCDA Counties</td>
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<td>5.8</td>
<td>3.3</td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>1.7</td>
<td>2.1</td>
<td>1.4</td>
</tr>
<tr>
<td>Hispanicf</td>
<td>4.8</td>
<td>6.1</td>
<td>3.8</td>
</tr>
</tbody>
</table>

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. Rates 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 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/RG, Idaho, New York and Massachusetts. The 2007-2016 AAPCs are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 2000-2016. The 2007-2016 AAPCs 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).
SEER Incidence and US Death Rates\textsuperscript{a}
Non-Hodgkin Lymphoma, Both Sexes
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).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.
\textsuperscript{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 4.7, 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} 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.
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, Hawaii, 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/RG, 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.

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 20.19
Cancer of the Oral Cavity and Pharynx (Invasive)
SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence</th>
<th>SEER 21 Areas</th>
<th>SEER 9 Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
<td>Total Males</td>
<td>Females</td>
<td>Males</td>
</tr>
<tr>
<td>All Races</td>
<td>11.3</td>
<td>17.0</td>
<td>6.4</td>
</tr>
<tr>
<td>White</td>
<td>11.9</td>
<td>17.9</td>
<td>6.6</td>
</tr>
<tr>
<td>White Hispanic</td>
<td>7.0</td>
<td>10.3</td>
<td>4.3</td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>12.8</td>
<td>19.3</td>
<td>7.0</td>
</tr>
<tr>
<td>Black</td>
<td>8.6</td>
<td>13.4</td>
<td>5.0</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>8.4</td>
<td>11.8</td>
<td>5.6</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>8.3</td>
<td>11.8</td>
<td>5.3</td>
</tr>
<tr>
<td>Hispanic</td>
<td>6.9</td>
<td>10.1</td>
<td>4.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. Mortality</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td></td>
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<td>Males</td>
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<td>White</td>
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<td>3.8</td>
<td>1.3</td>
</tr>
<tr>
<td>White Hispanic</td>
<td>1.6</td>
<td>2.6</td>
<td>0.9</td>
</tr>
<tr>
<td>White Non-Hispanic</td>
<td>2.6</td>
<td>4.0</td>
<td>1.4</td>
</tr>
<tr>
<td>Black</td>
<td>2.7</td>
<td>4.7</td>
<td>1.3</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>2.0</td>
<td>3.1</td>
<td>1.2</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
<td>1.5</td>
<td>2.4</td>
<td>0.7</td>
</tr>
<tr>
<td>Total U.S.</td>
<td>2.2</td>
<td>3.7</td>
<td>1.0</td>
</tr>
<tr>
<td>PRCDA Counties</td>
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<td>1.1</td>
<td>0.5</td>
</tr>
<tr>
<td>Hispanic</td>
<td>1.5</td>
<td>2.4</td>
<td>0.8</td>
</tr>
</tbody>
</table>
Joinpoint Analyses for Whites and Blacks from 1975-2016 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

Figure 20.2

SEER Incidence and US Death Rates
Cancer of the Oral Cavity and Pharynx, Both Sexes
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).

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.

API = Asian/Pacific Islander.
AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.
Joinpoint Analyses for Whites and Blacks from 1975-2016 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 2000-2016

SEER Incidence Rates<br>Cancer of the Oral Cavity and Pharyngeal for Selected Subsites, Both Sexes

Figure 20.3

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).

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. Regression lines could not be calculated for data series that had at least one diagnosis year with a 0 case count.

API = Asian/Pacific Islander.
AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.
Table 21.11
Cancer of the Ovary (Invasive)
SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>SEER Incidence</th>
<th>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
<th>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
<th>SEER 9 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016&lt;sup&gt;c&lt;/sup&gt;</td>
<td>Trend 2007-2016&lt;sup&gt;d&lt;/sup&gt;</td>
</tr>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
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<td>Females</td>
<td>Females</td>
<td>Females</td>
<td></td>
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<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>All Races</th>
<th>White</th>
<th>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</th>
<th>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</th>
<th>Black</th>
<th>Asian/Pacific Islander</th>
<th>Amer Ind/Alaska Nat&lt;sup&gt;f&lt;/sup&gt;</th>
<th>Hispanic&lt;sup&gt;e&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate per 100,000 persons</td>
<td>11.4</td>
<td>11.9</td>
<td>10.8</td>
<td>12.1</td>
<td>9.2</td>
<td>9.4</td>
<td>8.1</td>
<td>10.3</td>
</tr>
<tr>
<td>AAPC (%)</td>
<td>-1.7*</td>
<td>-1.8*</td>
<td>-1.1*</td>
<td>-1.9*</td>
<td>-0.9*</td>
<td>-0.6*</td>
<td>-3.4*</td>
<td>-1.1*</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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</table>

<table>
<thead>
<tr>
<th>U.S. Mortality&lt;sup&gt;g&lt;/sup&gt;</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016&lt;sup&gt;h&lt;/sup&gt;</th>
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</thead>
<tbody>
<tr>
<td>Rate per 100,000 persons</td>
<td>Females</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>Females</td>
<td>Females</td>
<td></td>
</tr>
<tr>
<td>All Races</td>
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<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
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<td>-1.6*</td>
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<td>-1.6</td>
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<td>Total U.S.</td>
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<tr>
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<td>Non-PRCDA Counties</td>
<td>5.2</td>
<td>-1.5*</td>
</tr>
<tr>
<td>Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>5.2</td>
<td>-1.5*</td>
</tr>
</tbody>
</table>

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.
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, Hawaii, 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/PG, 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).
SEER Incidence and US Death Rates\textsuperscript{a}  
Cancer of the Ovary  
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). Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

\textsuperscript{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 4.7, 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} 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.
Table 22.15
Cancer of the Pancreas (Invasive)

SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends\(^a\)
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence</th>
<th>U.S. Mortality(^f)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SEER 21 Areas(^b)</td>
<td>SEER 21 Areas(^b)</td>
</tr>
<tr>
<td></td>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016(^c)</td>
</tr>
<tr>
<td></td>
<td>Rate per 100,000 persons</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>All Races</td>
<td>12.9 14.6 11.5</td>
<td>0.4 0.4* 0.7*</td>
</tr>
<tr>
<td>White</td>
<td>13.0 14.8 11.4</td>
<td>0.5* 0.4 0.8*</td>
</tr>
<tr>
<td>White Hispanic(^c)</td>
<td>11.7 12.5 11.0</td>
<td>0.3 0.3 0.3*</td>
</tr>
<tr>
<td>White Non-Hispanic(^c)</td>
<td>13.2 15.1 11.5</td>
<td>0.6* 0.5 0.8*</td>
</tr>
<tr>
<td>Black</td>
<td>15.2 16.7 14.0</td>
<td>0.2 0.3 0.1</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>9.8 10.8 9.1</td>
<td>0.4* 0.4 0.5</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat(^e)</td>
<td>9.5 11.4 8.0</td>
<td>-0.2 1.8 -2.2*</td>
</tr>
<tr>
<td>Hispanic(^e)</td>
<td>11.3 12.0 10.7</td>
<td>0.3* 0.4 0.3</td>
</tr>
<tr>
<td>U.S. Mortality(^f)</td>
<td>11.0 12.6 9.6</td>
<td>0.3* 0.3* 0.2*</td>
</tr>
<tr>
<td>White</td>
<td>10.9 12.6 9.4</td>
<td>0.4* 0.4* 0.3*</td>
</tr>
<tr>
<td>White Hispanic(^c)</td>
<td>9.0 10.0 8.1</td>
<td>0.2 0.2 0.1</td>
</tr>
<tr>
<td>White Non-Hispanic(^c)</td>
<td>11.1 12.9 9.5</td>
<td>0.4* 0.4* 0.4*</td>
</tr>
<tr>
<td>Black</td>
<td>13.3 14.8 12.2</td>
<td>-0.3* -0.3* -0.3*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>7.6 8.2 7.1</td>
<td>0.2 0.1 0.2</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat(^e)</td>
<td>6.7 7.2 6.3</td>
<td>0.2 0.2 0.0</td>
</tr>
<tr>
<td>U.S.</td>
<td>8.9 9.9 8.0</td>
<td>0.8 -0.7 0.2</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat(^e)</td>
<td>4.3 4.3 4.3</td>
<td>-0.5 -1.2 0.2</td>
</tr>
<tr>
<td>Hispanic(^e)</td>
<td>8.5 9.4 7.7</td>
<td>0.0 0.1 0.0</td>
</tr>
</tbody>
</table>

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.
- The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/RG, Idaho, New York and Massachusetts.
- The SEER 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 2 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).
SEER Incidence and US Death Rates

Cancer of the Pancreas, Both Sexes

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).

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.

API = Asian/Pacific Islander.

AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.
### Table 23.11
Cancer of the Prostate (Invasive)
SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trendsa
By Race/Ethnicity

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence SEER 21 Areasb Rate 2012-2016 Rate per 100,000 persons Males Trend 2007-2016c AAPC (%) Males</th>
<th>SEER 21 Areasb Rate 2012-2016 Rate per 100,000 persons Males Trend 2007-2016c AAPC (%) Males</th>
<th>SEER 9 Areasb Trend 2007-2016d AAPC (%) Males</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Races</td>
<td>109.5 -5.2*</td>
<td>-4.9*</td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>101.9 -5.7*</td>
<td>-5.8*</td>
<td></td>
</tr>
<tr>
<td>White Hispanicc</td>
<td>86.8 -7.0*</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>White Non-Hispanicc</td>
<td>104.5 -5.5*</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>176.7 -4.0*</td>
<td>-4.5*</td>
<td></td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>55.6 -6.3*</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Natf</td>
<td>55.4 -6.4*</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Hispanicc</td>
<td>93.4 -6.0*</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

#### U.S. Mortalityg

| Race/Ethnicity | Rate 2012-2016 Rate per 100,000 persons Males Trend 2007-2016h AAPC (%) Males |
|----------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|
| All Races      | 19.2 -2.4*                                                                              | -2.7*                                                                                     |
| White          | 18.0 -2.2*                                                                              | -2.7*                                                                                     |
| White Hispanicc | 16.5 -2.7*                                                                              | -2.7*                                                                                     |
| White Non-Hispanicc | 18.1 -2.1*                           | -                                                                                        |
| Black          | 38.9 -4.0*                                                                              | -                                                                                        |
| Asian/Pacific Islander | 8.6 -2.5*                          | -                                                                                         |
| Amer Ind/Alaska Nat | 14.2 -2.7*                          | -2.7*                                                                                     |

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.


The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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).
Figure 23.3

SEER Incidence and US Death Rates\textsuperscript{a}
Cancer of the Prostate
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).
Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

\textsuperscript{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 4.7, 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} 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.
### SEER Incidence

<table>
<thead>
<tr>
<th>SEER Incidence</th>
<th>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
<th>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
<th>SEER 9 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate 2012-2016</td>
<td>Trend 2007-2016&lt;sup&gt;c&lt;/sup&gt;</td>
<td>AAPC (%)</td>
<td>AAPC (%)</td>
</tr>
<tr>
<td>Rate per 100,000 persons</td>
<td>Total</td>
<td>Males</td>
<td>Females</td>
</tr>
<tr>
<td>All Races</td>
<td>7.4</td>
<td>10.0</td>
<td>5.3</td>
</tr>
<tr>
<td>White</td>
<td>6.6</td>
<td>8.9</td>
<td>4.6</td>
</tr>
<tr>
<td>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>10.8</td>
<td>13.4</td>
<td>8.8</td>
</tr>
<tr>
<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>5.8</td>
<td>8.2</td>
<td>3.8</td>
</tr>
<tr>
<td>Black</td>
<td>10.3</td>
<td>14.1</td>
<td>7.7</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>10.9</td>
<td>14.3</td>
<td>8.2</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat&lt;sup&gt;f&lt;/sup&gt;</td>
<td>8.7</td>
<td>11.5</td>
<td>6.4</td>
</tr>
<tr>
<td>Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>10.4</td>
<td>13.0</td>
<td>8.5</td>
</tr>
</tbody>
</table>

### U.S. Mortality<sup>g</sup>

<table>
<thead>
<tr>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016&lt;sup&gt;h&lt;/sup&gt;</th>
<th>AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate per 100,000 persons</td>
<td>Total</td>
<td>Males</td>
</tr>
<tr>
<td>All Races</td>
<td>3.1</td>
<td>4.2</td>
</tr>
<tr>
<td>White</td>
<td>2.7</td>
<td>3.7</td>
</tr>
<tr>
<td>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>5.4</td>
<td>6.9</td>
</tr>
<tr>
<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>2.4</td>
<td>3.3</td>
</tr>
<tr>
<td>Black</td>
<td>5.5</td>
<td>8.2</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>5.3</td>
<td>6.8</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat&lt;sup&gt;f&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total U.S.</td>
<td>3.4</td>
<td>4.6</td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>5.0</td>
<td>6.9</td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>1.6</td>
<td>2.0</td>
</tr>
<tr>
<td>Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>5.1</td>
<td>6.5</td>
</tr>
</tbody>
</table>

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.


The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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/RG, 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.

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).
SEER Incidence and US Death Rates
Cancer of the Stomach, Both Sexes
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).
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.

API = Asian/Pacific Islander.
AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.
Table 25.11
Cancer of the Testis (Invasive)
SEER Incidence and U.S. Mortality
Age-Adjusted Rates and Trends\(^a\)
By Race/Ethnicity

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence Rate 2012-2016</th>
<th>SEER 21 Areas(^b) Trend 2007-2016 (^c)</th>
<th>SEER 9 Areas(^b) Trend 2007-2016 (^d)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rate per 100,000 persons Males</td>
<td>AAPC (%) Males</td>
<td>AAPC (%) Males</td>
</tr>
<tr>
<td>All Races</td>
<td>5.9</td>
<td>0.7*</td>
<td>0.8*</td>
</tr>
<tr>
<td>White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White Hispanic(^e)</td>
<td>5.5</td>
<td>2.7*</td>
<td></td>
</tr>
<tr>
<td>White Non-Hispanic(^e)</td>
<td>7.5</td>
<td>0.5*</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td>1.6</td>
<td>2.3*</td>
<td>2.0*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>2.2</td>
<td>2.0*</td>
<td></td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat(^f)</td>
<td>5.2</td>
<td>2.1*</td>
<td></td>
</tr>
<tr>
<td>Hispanic(^e)</td>
<td>5.2</td>
<td>2.6*</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. Mortality(^g)</th>
<th>Rate 2012-2016</th>
<th>Trend 2007-2016 (^h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Race/Ethnicity</td>
<td>Rate per 100,000 persons Males</td>
<td>AAPC (%) Males</td>
</tr>
<tr>
<td>All Races</td>
<td>0.3</td>
<td>0.0</td>
</tr>
<tr>
<td>White</td>
<td>0.3</td>
<td>0.4</td>
</tr>
<tr>
<td>White Hispanic(^e)</td>
<td>0.3</td>
<td>1.2</td>
</tr>
<tr>
<td>White Non-Hispanic(^e)</td>
<td>0.3</td>
<td>0.1</td>
</tr>
<tr>
<td>Black</td>
<td>0.1</td>
<td>-2.4*</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
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<td>-1.1</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat</td>
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<td></td>
</tr>
<tr>
<td>Total U.S.</td>
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<td></td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>Hispanic(^e)</td>
<td>0.3</td>
<td>0.9</td>
</tr>
</tbody>
</table>

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.

\(^a\) Statistic not shown. Rate based on less than 16 cases for the time interval.

\(^b\) Trend based on less than 10 cases for at least one year within the time interval.

\(^c\) The SEER 21 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta.

\(^d\) The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta.

\(^e\) 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/PG, Idaho, New York and Massachusetts.

\(^f\) The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta.

\(^g\) The 2007-2016 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over the time interval. The AAPC is significantly different from zero (p<.05).

\(^h\) The 2007-2016 mortality AAPCs are based on a Joinpoint analysis using years of death 2000-2016.
Figure 25.3

SEER Incidence and US Death Rates\(^a\)
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).

\(^{a}\) 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.

\(^{b}\) API = Asian/Pacific Islander.
\(^{c}\) AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.
\(^{d}\) Joinpoint could not fit a regression line for American Indian/Alaska Native Mortality due to insufficient data.
\(^{e}\) 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.
Table 26.15
Cancer of the Thyroid (Invasive)

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

<table>
<thead>
<tr>
<th>SEER Incidence</th>
<th>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
<th>SEER 21 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
<th>SEER 9 Areas&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate&lt;sup&gt;c&lt;/sup&gt; 2012-2016</td>
<td>Trend 2007-2016&lt;sup&gt;c&lt;/sup&gt;</td>
<td>AAPC (%)</td>
<td>Trend 2007-2016&lt;sup&gt;d&lt;/sup&gt;</td>
</tr>
<tr>
<td>Rate per 100,000 persons</td>
<td>Total</td>
<td>Males</td>
<td>Females</td>
</tr>
<tr>
<td>Race/Ethnicity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Races</td>
<td>15.8</td>
<td>8.0</td>
<td>23.3</td>
</tr>
<tr>
<td>White</td>
<td>16.5</td>
<td>8.6</td>
<td>24.5</td>
</tr>
<tr>
<td>White Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>14.3</td>
<td>5.9</td>
<td>22.5</td>
</tr>
<tr>
<td>White Non-Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>17.4</td>
<td>9.3</td>
<td>25.4</td>
</tr>
<tr>
<td>Black</td>
<td>9.6</td>
<td>4.0</td>
<td>14.3</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>15.6</td>
<td>7.7</td>
<td>22.6</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat&lt;sup&gt;c&lt;/sup&gt;</td>
<td>9.3</td>
<td>4.1</td>
<td>14.2</td>
</tr>
<tr>
<td>Hispanic&lt;sup&gt;e&lt;/sup&gt;</td>
<td>13.9</td>
<td>5.7</td>
<td>21.9</td>
</tr>
</tbody>
</table>

| U.S. Mortality<sup>g</sup> | Rate<sup>h</sup> 2012-2016 | Trend 2007-2016<sup>h</sup> | AAPC (%) |
|---------------------------|---------------------------|---------------------------|
| Rate per 100,000 persons | Total | Males | Females | Total | Males | Females |
| Race/Ethnicity | | | | | | | |
| All Races | 0.5 | 0.5 | 0.5 | 0.6* | 1.1* | 0.3 |
| White | 0.5 | 0.5 | 0.5 | 0.7* | 1.1* | 0.3 |
| White Hispanic<sup>e</sup> | 0.7 | 0.6 | 0.7 | 0.9* | 0.9 | 1.0* |
| White Non-Hispanic<sup>e</sup> | 0.5 | 0.5 | 0.4 | 0.6* | 1.1* | 0.1 |
| Black | 0.5 | 0.4 | 0.6 | 0.4 | 0.9 | 0.2 |
| Asian/Pacific Islander | 0.6 | 0.5 | 0.6 | -0.2 | 1.4 | -0.9 |
| Amer Ind/Alaska Nat | | | | | | |
| Total U.S. | 0.4 | 0.4 | 0.4 | 0.9 | - | -1.1 |
| PRCDA Counties | 0.4 | 0.5 | 0.4 | -1.1 | - | -3.5 |
| Non-PRCDA Counties | 0.3 | - | - | - | - | - |
| Hispanic<sup>e</sup> | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 |

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.
- The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, 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).
**SEER Incidence and US Death Rates**

Cancer of the Thyroid, Both Sexes

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).

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.

API = Asian/Pacific Islander.

AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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.
Table 27.15  
Cancer of the Urinary Bladder  
SEER Incidence (Invasive and In Situ) and U.S. Mortality Age-Adjusted Rates and Trends\textsuperscript{a} 
By Race/Ethnicity and Sex

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>SEER Incidence Rate per 100,000 persons</th>
<th>Trend 2007-2016 AAPC (%)</th>
<th>SEER 9 Areas Trend 2007-2016 AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Males</td>
<td>Females</td>
</tr>
<tr>
<td>All Races</td>
<td>20.1</td>
<td>35.2</td>
<td>8.7</td>
</tr>
<tr>
<td>White</td>
<td>22.2</td>
<td>38.5</td>
<td>9.5</td>
</tr>
<tr>
<td>White Hispanic\textsuperscript{c}</td>
<td>11.4</td>
<td>20.0</td>
<td>5.2</td>
</tr>
<tr>
<td>White Non-Hispanic\textsuperscript{c}</td>
<td>23.8</td>
<td>41.2</td>
<td>10.2</td>
</tr>
<tr>
<td>Black</td>
<td>11.8</td>
<td>19.7</td>
<td>6.6</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>8.8</td>
<td>15.5</td>
<td>3.8</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat\textsuperscript{d}</td>
<td>8.9</td>
<td>14.9</td>
<td>4.5</td>
</tr>
<tr>
<td>Hispanic\textsuperscript{e}</td>
<td>11.1</td>
<td>19.5</td>
<td>5.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>U.S. Mortality\textsuperscript{g}</th>
<th>Rate per 100,000 persons</th>
<th>Trend 2007-2016 AAPC (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Race/Ethnicity</td>
<td>Total</td>
<td>Males</td>
</tr>
<tr>
<td>All Races</td>
<td>4.4</td>
<td>7.6</td>
</tr>
<tr>
<td>White</td>
<td>4.6</td>
<td>8.0</td>
</tr>
<tr>
<td>White Hispanic\textsuperscript{h}</td>
<td>2.4</td>
<td>4.1</td>
</tr>
<tr>
<td>White Non-Hispanic\textsuperscript{h}</td>
<td>4.8</td>
<td>8.4</td>
</tr>
<tr>
<td>Black</td>
<td>3.5</td>
<td>5.4</td>
</tr>
<tr>
<td>Asian/Pacific Islander</td>
<td>1.7</td>
<td>2.9</td>
</tr>
<tr>
<td>Amer Ind/Alaska Nat\textsuperscript{e}</td>
<td>1.9</td>
<td>3.0</td>
</tr>
<tr>
<td>Total U.S.</td>
<td>2.4</td>
<td>3.9</td>
</tr>
<tr>
<td>PRCDA Counties</td>
<td>1.2</td>
<td>2.0</td>
</tr>
<tr>
<td>Non-PRCDA Counties</td>
<td>2.3</td>
<td>3.8</td>
</tr>
</tbody>
</table>

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, Hawaii, 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/FRG, 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).
SEER Incidence and US Death Rates\textsuperscript{a}
Cancer of the Urinary Bladder, Both Sexes
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).
Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.
\textsuperscript{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 4.7, 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} 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.
SEER Incidence and US Death Rates\textsuperscript{a}

All Cancer Sites, Ages <20, Both Sexes

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).

Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

\textsuperscript{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 4.7, 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} Al/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) counties.

\textsuperscript{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.
Figure 29.2

Childhood Cancer: SEER Incidence Rates 2012-2016 by ICCC Group and Race/Ethnicity (includes myelodysplastic syndromes and Group III benign brain) Both Sexes, Under 20 Years of Age

Source: SEER 21 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, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).
Incidence rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Rate for Group III (Brain/CNS) includes benign brain tumors.
Incidence rates for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.
Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Race/Ethnicity

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>I - Leukemia</th>
<th>II - Lymphoma</th>
<th>III - Brain/CNS (^a)</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>52.4</td>
<td>27.4</td>
<td>61.1</td>
<td>84.9</td>
</tr>
<tr>
<td>Black</td>
<td>31.0</td>
<td>43.2</td>
<td>24.0</td>
<td>61.1</td>
</tr>
<tr>
<td>American Indian/Alaska Native (^b)</td>
<td>36.2</td>
<td>13.2</td>
<td>35.7</td>
<td>43.7</td>
</tr>
<tr>
<td>Asian or Pacific Islander</td>
<td>46.7</td>
<td>21.8</td>
<td>36.3</td>
<td>65.8</td>
</tr>
<tr>
<td>Hispanic (^c)</td>
<td>60.6</td>
<td>20.9</td>
<td>39.6</td>
<td>73.2</td>
</tr>
</tbody>
</table>

SEER Cancer Statistics Review 1975-2016
National Cancer Institute
Childhood Cancer
5-Year Observed Survival (%)
by ICCC Group\(^a\) and Race/Ethnicity
Both Sexes, Under 20 Years of Age, 2009-2015

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).
Excludes myelodysplastic syndromes (MDS) and benign brain tumors.
\(^a\) American Indian/Alaska Native. Survival 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. Survival data for Hispanics are based on NHIA and excludes cases from the Alaska Native Registry.

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SEER Cancer Statistics Review 1975-2016
National Cancer Institute