Section 28 Childhood Cancer by Site Incidence, Survival and Mortality

The site groupings used in this section correspond to those used in the rest of the Cancer Statistics Review. While these groupings are not as appropriate for children as they are for adults, they are necessary in order to be able to compare incidence to mortality. Benign brain tumors(2004+) and myelodysplastic syndromes(2001+) are not included.

Childhood cancer is better categorized by groupings based on histologic type and site rather than primary site alone (see section 29 for Childhood Cancer by the International Classification of Childhood Cancer). For the leukemias and lymphomas, the categories are similar, but for solid tumors the categories can be quite different and the different terminology confusing. For example, in this section 'soft tissue' refers to any type of tumor that arises in connective or soft tissue in contrast to 'soft tissue sarcomas' in the other section, which refers to soft tissue sarcomas in any primary site.

Rates are presented per 100,000 children in this section. In contrast in the other childhood cancer section rates are presented per million children.

 $\label{eq:table 28.1} \mbox{ Age-Adjusted SEER Cancer Incidencea and U.S. Deathb Rates, 2005-2009}$

By Primary Cancer Site

All Races, Males and Females

| | | | Ages | 0-14 | | | | | Ages | 0-19 | | |
|-----------------------|-------|----------|---------|-------|----------|---------|-------|----------|---------|-------|----------|---------|
| | | Incidenc | e | 1 | Mortalit | У | | Incidenc | :e | 1 | Mortalit | У |
| Site | Total | Males | Females |
| All Sites | | | | | | | | | | | | |
| All Races | 15.4 | 16.4 | 14.4 | 2.2 | 2.4 | 2.1 | 17.0 | 18.0 | 16.0 | 2.5 | 2.7 | 2.2 |
| Whites | 16.1 | 17.2 | 15.0 | 2.3 | 2.4 | 2.2 | 17.9 | 19.0 | 16.7 | 2.5 | 2.8 | 2.3 |
| Blacks | 12.3 | 12.9 | 11.7 | 2.2 | 2.3 | 2.1 | 12.9 | 13.4 | 12.4 | 2.5 | 2.7 | 2.2 |
| Bone & Joint | 0.7 | 0.8 | 0.7 | 0.1 | 0.1 | 0.1 | 0.9 | 1.1 | 0.8 | 0.2 | 0.2 | 0.2 |
| Brain & Other nervous | 3.2 | 3.4 | 3.1 | 0.7 | 0.7 | 0.7 | 3.0 | 3.1 | 2.8 | 0.6 | 0.7 | 0.6 |
| Hodgkin lymphoma | 0.6 | 0.8 | 0.5 | 0.0 | 0.0 | - | 1.3 | 1.3 | 1.2 | 0.0 | 0.0 | 0.0 |
| Kidney & Renal pelvis | 0.8 | 0.8 | 0.9 | 0.1 | 0.1 | 0.1 | 0.7 | 0.6 | 0.7 | 0.1 | 0.1 | 0.1 |
| Leukemia | 5.0 | 5.5 | 4.5 | 0.7 | 0.7 | 0.6 | 4.5 | 5.0 | 4.0 | 0.7 | 0.8 | 0.6 |
| Acute lymphocytic | 4.0 | 4.4 | 3.6 | 0.3 | 0.3 | 0.3 | 3.4 | 3.8 | 3.0 | 0.3 | 0.4 | 0.3 |
| Non-Hodgkin lymphoma | 0.9 | 1.2 | 0.6 | 0.1 | 0.1 | 0.0 | 1.2 | 1.5 | 0.8 | 0.1 | 0.2 | 0.1 |
| Soft tissue | 1.0 | 1.1 | 1.0 | 0.1 | 0.1 | 0.1 | 1.1 | 1.1 | 1.0 | 0.2 | 0.2 | 0.2 |

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

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).

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

⁻ Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Soft tissue

Table 28.2

Age-Adjusted SEER Cancer Incidence Rates^a, 1975-2009

By Primary Cancer Site

All Races, Males and Females

Year of Diagnosis

| Age/Site | 1975 | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <u>Ages 0-14</u> | | | | | | | | | | | | | | | | | | | | | | | |
| All Sites | | | | | | | | | | | | | | | | | | | | | | | |
| All Races | 11.5 | 12.9 | 14.5 | 14.3 | 15.2 | 13.4 | 15.0 | 14.0 | 14.1 | 14.8 | 14.1 | 15.3 | 14.5 | 15.4 | 15.7 | 15.4 | 13.0 | 15.0 | 16.4 | 14.2 | 14.3 | 15.4 | 15.5 |
| Whites | 12.1 | 13.2 | 15.6 | 14.3 | 16.2 | 13.9 | 15.3 | 14.5 | 14.9 | 15.0 | 14.7 | 16.3 | 15.7 | 16.7 | 17.0 | 16.8 | 13.8 | 15.8 | 17.3 | 14.8 | 14.9 | 15.6 | 16.0 |
| Blacks | 8.6 | 11.1 | 10.1 | 12.3 | 11.8 | 12.0 | 12.4 | 12.2 | 11.7 | 11.6 | 11.2 | 9.9 | 10.3 | 11.8 | 10.8 | 11.5 | 9.9 | 13.3 | 12.8 | 11.4 | 11.8 | 15.0 | 12.8 |
| Bone & Joint | 0.5 | 0.7 | 0.8 | 0.7 | 0.9 | 0.6 | 0.6 | 0.8 | 0.8 | 0.5 | 0.9 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 1.0 |
| Brain & Other nervous | 2.3 | 2.8 | 3.0 | 3.5 | 3.5 | 3.2 | 3.4 | 3.3 | 3.4 | 3.1 | 2.8 | 3.2 | 3.4 | 3.4 | 3.9 | 3.7 | 3.0 | 3.2 | 3.3 | 3.0 | 3.3 | 3.4 | 3.6 |
| Hodgkin lymphoma | 0.7 | 0.5 | 0.7 | 0.7 | 0.6 | 0.5 | 0.6 | 0.5 | - | 0.6 | 0.6 | 0.6 | 0.4 | 0.6 | 0.5 | 0.5 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.6 |
| Kidney & Renal pelvis | 0.7 | 0.8 | 0.9 | 0.8 | 0.9 | 0.7 | 1.0 | 1.2 | 0.6 | 1.0 | 1.0 | 1.1 | 0.7 | 1.0 | 0.9 | 0.9 | 0.7 | 0.7 | 0.9 | 0.6 | 0.7 | 1.0 | 0.8 |
| Leukemia | 3.3 | 4.0 | 4.6 | 4.4 | 4.6 | 4.1 | 4.2 | 3.6 | 4.4 | 4.6 | 4.3 | 4.8 | 4.7 | 4.6 | 4.4 | 4.8 | 4.0 | 4.9 | 5.2 | 4.5 | 4.1 | 4.7 | 4.6 |
| Acute lymphocytic | 2.2 | 3.1 | 3.5 | 3.5 | 3.6 | 3.2 | 3.1 | 2.9 | 3.6 | 3.6 | 3.5 | 3.9 | 3.6 | 3.5 | 3.5 | 4.0 | 3.2 | 3.7 | 4.0 | 3.4 | 3.5 | 3.6 | 3.7 |
| Non-Hodgkin lymphoma | 1.0 | 0.7 | 0.7 | 0.8 | 0.9 | 0.8 | 0.8 | 1.0 | 0.9 | 0.6 | 0.9 | 0.9 | 0.8 | 1.0 | 1.0 | 1.0 | 0.9 | 0.8 | 1.1 | 0.9 | 1.0 | 1.1 | 1.1 |
| Soft tissue | 0.9 | 0.9 | 0.9 | 0.7 | 1.1 | 0.8 | 0.6 | 0.9 | 1.0 | 1.1 | 1.0 | 1.1 | 0.9 | 1.0 | 1.2 | 1.0 | 0.7 | 1.0 | 1.5 | 0.9 | 1.1 | 0.9 | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Ages 0-19 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| All Sites | | | | | | | | | | | | | | | | | | | | | | | |
| All Races | | | 15.9 | | | | | | | | | | | | | | | | | | | | |
| Whites | | | 17.1 | | | | | | | | | | | | | | | | | | | | |
| Blacks | | 10.9 | | | | 12.3 | | | | | | | | | | 11.4 | | | 12.9 | | | 15.0 | |
| Bone & Joint | 0.7 | 0.9 | 1.0 | 0.8 | 1.0 | 0.9 | 0.8 | 1.0 | 0.9 | 0.7 | 1.2 | 0.8 | 0.7 | 0.8 | 0.9 | 1.0 | 0.8 | 0.7 | 0.9 | 0.9 | 0.8 | 1.0 | 1.1 |
| Brain & Other nervous | 2.1 | 2.5 | 2.7 | 3.2 | 3.1 | 3.3 | 3.0 | 2.9 | 3.0 | 3.0 | 2.6 | 2.8 | 3.0 | 3.1 | 3.4 | 3.3 | 2.9 | 2.9 | 2.9 | 2.7 | 3.0 | 3.1 | 3.2 |
| Hodgkin lymphoma | 1.5 | 1.2 | 1.4 | 1.3 | 1.4 | 1.4 | 1.3 | 1.3 | 0.9 | 1.4 | 1.3 | 1.4 | 1.1 | 1.1 | 1.1 | 1.2 | 1.0 | 1.1 | 0.9 | 1.1 | 1.4 | 1.4 | 1.3 |
| Kidney & Renal pelvis | 0.5 | 0.6 | 0.7 | 0.6 | 0.7 | 0.6 | 0.9 | 0.9 | 0.5 | 0.7 | 0.8 | 0.8 | 0.6 | 0.8 | 0.7 | 0.7 | 0.6 | 0.6 | 0.7 | 0.5 | 0.6 | 0.8 | 0.6 |
| Leukemia | 3.0 | 3.5 | 4.0 | 3.9 | 4.1 | 3.7 | 3.7 | 3.4 | 3.9 | 4.0 | 3.7 | 4.1 | 4.1 | 4.1 | 4.0 | 4.5 | 3.8 | 4.3 | 4.6 | 4.0 | 4.0 | 4.2 | 4.0 |
| Acute lymphocytic | 1.9 | 2.5 | 2.9 | 2.9 | 3.0 | 2.6 | 2.6 | 2.5 | 3.1 | 2.9 | 2.9 | 3.3 | 3.0 | 3.0 | 2.9 | 3.4 | 2.8 | 3.2 | 3.3 | 3.0 | 3.1 | 3.1 | 3.0 |
| Non-Hodgkin lymphoma | 1.0 | 0.8 | 1.0 | 1.0 | 1.1 | 1.0 | 0.9 | 1.2 | 1.1 | 1.0 | 1.1 | 1.0 | 0.9 | 1.3 | 1.1 | 1.2 | 1.3 | 1.1 | 1.3 | 1.2 | 1.2 | 1.3 | 1.4 |

 $0.8 \quad 0.9 \quad 0.9 \quad 0.8 \quad 1.1 \quad 0.7 \quad 0.7 \quad 0.7 \quad 1.1 \quad 1.1 \quad 1.0 \quad 1.1 \quad 1.0 \quad 1.2 \quad 1.1 \quad 1.0 \quad 0.8 \quad 1.0 \quad 1.5 \quad 1.0 \quad 1.1 \quad 0.9 \quad 1.0$

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

⁻ Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Age-Adjusted Cancer U.S. Death Rates^a, 1975-2009

By Primary Cancer Site

All Races, Males and Females

Year of Death

| Age/Site | 1975 | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Ages 0-14 | | | | | | | | | | | | | | | | | | | | | | | |
| All Sites | 4.9 | 4.3 | 3.6 | 3.1 | 3.1 | 3.0 | 3.0 | 2.8 | 2.7 | 2.6 | 2.6 | 2.4 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.4 | 2.2 | 2.3 | 2.2 | 2.1 |
| Bone & Joint | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Brain & Other nervous | 1.0 | 0.9 | 0.8 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Hodgkin lymphoma | 0.0 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Kidney & Renal pelvis | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Leukemia | 2.1 | 1.7 | 1.4 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 |
| Acute lymphocytic | 1.2 | 0.9 | 0.8 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Non-Hodgkin lymphoma | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Soft tissue | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| <u>Ages 0-19</u> | | | | | | | | | | | | | | | | | | | | | | | |
| All Sites | 5.1 | 4.6 | 3.8 | 3.4 | 3.4 | 3.3 | 3.3 | 3.1 | 3.0 | 2.9 | 2.9 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 | 2.7 | 2.7 | 2.5 | 2.5 | 2.4 | 2.4 |
| Bone & Joint | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| Brain & Other nervous | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 |
| Hodgkin lymphoma | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | _ | 0.0 |
| Kidney & Renal pelvis | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Leukemia | 2.0 | 1.8 | 1.4 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 0.9 | 1.0 | 0.8 | 0.8 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 |
| Acute lymphocytic | 1.0 | 0.9 | 0.7 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 |
| Non-Hodgkin lymphoma | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Soft tissue | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

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

Age-Adjusted Cancer U.S. Death Rates^a, 1975-2009

By Primary Cancer Site

Whites, Males and Females

Year of Death

| Age/Site | 1975 | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <u>Ages 0-14</u> | | | | | | | | | | | | | | | | | | | | | | | |
| All Sites | 5.0 | 4.4 | 3.7 | 3.2 | 3.2 | 3.1 | 3.1 | 2.8 | 2.7 | 2.7 | 2.7 | 2.5 | 2.5 | 2.6 | 2.5 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.4 | 2.2 | 2.2 |
| Bone & Joint | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Brain & Other nervous | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.7 | 0.8 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 |
| Hodgkin lymphoma | 0.0 | 0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Kidney & Renal pelvis | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Leukemia | 2.3 | 1.8 | 1.4 | 1.1 | 1.1 | 1.2 | 1.1 | 1.0 | 1.0 | 0.9 | 0.9 | 0.8 | 0.8 | 0.9 | 0.8 | 0.7 | 0.9 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Acute lymphocytic | 1.2 | 1.0 | 0.8 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 |
| Non-Hodgkin lymphoma | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Soft tissue | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Ages 0-19 | | | | | | | | | | | | | | | | | | | | | | | |
| All Sites | 5.3 | 4.7 | 3.9 | 3.5 | 3.5 | 3.4 | 3.3 | 3.1 | 2.9 | 2.9 | 2.9 | 2.8 | 2.8 | 2.9 | 2.8 | 2.8 | 2.8 | 2.7 | 2.7 | 2.5 | 2.6 | 2.5 | 2.4 |
| Bone & Joint | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 |
| Brain & Other nervous | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 |
| Hodgkin lymphoma | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | - | _ | 0.0 |
| Kidney & Renal pelvis | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 |
| Leukemia | 2.1 | 1.8 | 1.4 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 |
| Acute lymphocytic | 1.1 | 1.0 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.4 | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 |
| Non-Hodgkin lymphoma | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Soft tissue | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |

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

Age-Adjusted Cancer U.S. Death Rates^a, 1975-2009

By Primary Cancer Site

Blacks, Males and Females

Year of Death

| Age/Site | 1975 | 1980 | 1985 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <u>Ages 0-14</u> | | | | | | | | | | | | | | | | | | | | | | | |
| All Sites | 4.5 | 3.8 | 3.3 | 3.0 | 3.0 | 2.7 | 2.6 | 2.8 | 2.9 | 2.5 | 2.5 | 2.4 | 2.5 | 2.3 | 2.3 | 2.6 | 2.4 | 2.4 | 2.5 | 2.2 | 2.1 | 2.2 | 2.1 |
| Bone & Joint | 0.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.2 | - | | - | - |
| Brain & Other nervous | 0.9 | 0.9 | 0.6 | 0.7 | 0.8 | 0.7 | 0.6 | 0.8 | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.6 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.6 | 0.6 |
| Hodgkin lymphoma | - | _ | - | - | - | _ | - | - | - | - | - | _ | - | - | _ | _ | - | - | - | - | _ | _ | _ |
| Kidney & Renal pelvis | - | - | 0.2 | - | - | - | 0.2 | - | - | - | 0.2 | - | - | - | 0.2 | - | - | - | - | - | - | - | - |
| Leukemia | 1.6 | 1.2 | 1.2 | 0.9 | 1.0 | 0.8 | 0.9 | 0.8 | 1.0 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.8 | 0.6 | 0.6 | 0.6 | 0.7 | 0.6 | 0.7 | 0.6 | 0.5 |
| Acute lymphocytic | 0.8 | 0.6 | 0.7 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Non-Hodgkin lymphoma | 0.4 | 0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Soft tissue | - | - | - | 0.3 | - | - | 0.2 | 0.3 | - | - | 0.2 | 0.2 | 0.2 | - | 0.2 | 0.2 | - | 0.2 | - | - | - | 0.2 | 0.2 |
| | | | | | | | | | | | | | | | | | | | | | | | |
| Ages 0-19 | | | | | | | | | | | | | | | | | | | | | | | |
| All Sites | 4.8 | 4.2 | 3.5 | 3.4 | 3.3 | 3.0 | 3.1 | 3.2 | 3.1 | 2.9 | 2.9 | 2.6 | 3.0 | 2.8 | 2.6 | 2.9 | 2.5 | 2.8 | 2.6 | 2.4 | 2.3 | 2.5 | 2.4 |
| Bone & Joint | 0.4 | 0.3 | 0.2 | 0.2 | _ | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Brain & Other nervous | 0.9 | 0.8 | 0.6 | 0.7 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.5 | 0.8 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 |
| Hodgkin lymphoma | _ | _ | - | - | - | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Kidney & Renal pelvis | 0.2 | _ | 0.2 | - | - | _ | 0.1 | _ | _ | _ | 0.1 | 0.1 | _ | 0.1 | 0.2 | _ | _ | _ | _ | _ | _ | _ | _ |
| Leukemia | 1.6 | 1.4 | 1.1 | 1.0 | 1.1 | 0.8 | 1.0 | 1.0 | 1.1 | 0.8 | 0.8 | 0.7 | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 |
| Acute lymphocytic | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.5 | 0.4 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 |
| Non-Hodgkin lymphoma | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | - | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | _ | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | - | - | 0.1 |
| Soft tissue | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 |

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

Trends in SEER Incidence^a Using the Joinpoint Regression Program, 1975-2009 With up to Five Joinpoints By Primary Cancer Site And Age At Diagnosis Males and Females

| | JP Tre | end 1 | JP Tr | end 2 | JP Tr | end 3 | JP Tre | end 4 | JP Tr | end 5 | JP Tr | end 6 | AAPCd |
|-----------------------|---------|-------|---------|-------|---------|-------|---------|-------|-------|-------|-------|-------|---------|
| | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | 2005-09 |
| Ages 0-14 | | | | | | | | | | | | | |
| All Sites | | | | | | | | | | | | | |
| All Races | 1975-09 | 0.6* | | | | | | | | | | | 0.6* |
| White | 1975-09 | 0.6* | | | | | | | | | | | 0.6* |
| Black | 1975-09 | 0.5* | | | | | | | | | | | 0.5* |
| DIACK | 1373 03 | 0.5 | | | | | | | | | | | 0.5 |
| Bone & Joint | 1975-79 | 11.3 | 1979-09 | -0.1 | | | | | | | | | -0.1 |
| Brain & Other nervous | 1975-90 | 2.1* | 1990-09 | 0.0 | | | | | | | | | 0.0 |
| system | | | | | | | | | | | | | |
| Hodgkin lymphoma | 1975-09 | -0.7* | | | | | | | | | | | -0.7* |
| Kidney & Renal pelvis | 1975-09 | -0.3 | | | | | | | | | | | -0.3 |
| Leukemia | 1975-09 | 0.6* | | | | | | | | | | | 0.6* |
| Acute lymphocytic | 1975-09 | 0.7* | | | | | | | | | | | 0.7* |
| leukemia | | | | | | | | | | | | | |
| Non-Hodgkin lymphoma | 1975-09 | 0.6* | | | | | | | | | | | 0.6* |
| Soft tissue | 1975-09 | 1.1* | | | | | | | | | | | 1.1* |
| | | | | | | | | | | | | | |
| Ages 0-19 | | | | | | | | | | | | | |
| All Sites | | | | | | | | | | | | | |
| All Races | 1975-09 | 0.6* | | | | | | | | | | | 0.6* |
| White | 1975-09 | 0.7* | | | | | | | | | | | 0.7* |
| Black | 1975-94 | 0.9* | 1994-98 | -4.1 | 1998-09 | 1.9* | | | | | | | 1.9* |
| Diden | 10,001 | 0.5 | 1001 00 | | 1330 03 | 1.7 | | | | | | | 1.7 |
| Bone & Joint | 1975-09 | 0.3 | | | | | | | | | | | 0.3 |
| Brain & Other nervous | 1975-77 | 14.6 | 1977-83 | -3.2 | 1983-86 | 11.0 | 1986-09 | -0.1 | | | | | -0.1 |
| system | | | | | | | | | | | | | |
| Hodgkin lymphoma | 1975-09 | -0.8* | | | | | | | | | | | -0.8* |
| Kidney & Renal pelvis | 1975-09 | 0.0 | | | | | | | | | | | 0.0 |
| Leukemia | 1975-09 | 0.6* | | | | | | | | | | | 0.6* |
| Acute lymphocytic | 1975-09 | 0.8* | | | | | | | | | | | 0.8* |
| leukemia | | | | | | | | | | | | | |
| Non-Hodgkin lymphoma | 1975-09 | 1.0* | | | | | | | | | | | 1.0* |
| Soft tissue | 1975-09 | 1.1* | | | | | | | | | | | 1.1* |
| | | | | | | | | | | | | | |

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint/). The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

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

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

Trends in U.S. Mortality^a Using the Joinpoint Regression Program, 1975-2009 With up to Five Joinpoints By Primary Cancer Site and Age at Death All Races, Both Sexes

| | JP Tre | end 1 | JP Tre | end 2 | JP Tre | end 3 | JP Tre | end 4 | JP Tr | end 5 | JP Tr | end 6 | $AAPC^d$ |
|------------------------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|-------|-------|----------|
| | Years | APC | Years | APC | 2005-09 |
| Ages 0-14 All Sites | 1975-98 | -2.9* | 1998-03 | 0.2 | 2003-09 | -2.8* | | | | | | | -2.8* |
| Bone & Joint | 1975-89 | -3.5* | 1989-09 | -0.4 | | | | | | | | | -0.4 |
| Brain & Other nervous system | 1975-09 | -1.0* | | | | | | | | | | | -1.0* |
| Hodgkin lymphoma | 1975-09 | -4.7* | | | | | | | | | | | -4.7* |
| Kidney & Renal pelvis | 1975-09 | -2.8* | | | | | | | | | | | -2.8* |
| Leukemia | 1975-98 | -4.0* | 1998-09 | -2.1* | | | | | | | | | -2.1* |
| Acute lymphocytic leukemia | 1975-93 | -5.3* | 1993-09 | -2.9* | | | | | | | | | -2.9* |
| Non-Hodgkin lymphoma | 1975-09 | -5.0* | | | | | | | | | | | -5.0* |
| Soft tissue | 1975-77 | 23.7 | 1977-09 | -1.3* | | | | | | | | | -1.3* |
| | | | | | | | | | | | | | |
| Ages 0-19 | | | | | | | | | | | | | |
| All Sites | 1975-98 | -2.7* | 1998-03 | 0.0 | 2003-09 | -2.7* | | | | | | | -2.7* |
| Bone & Joint | 1975-89 | -3.2* | 1989-09 | -0.1 | | | | | | | | | -0.1 |
| Brain & Other nervous system | 1975-09 | -1.0* | | | | | | | | | | | -1.0* |
| Hodgkin lymphoma | 1975-09 | -4.8* | | | | | | | | | | | -4.8* |
| Kidney & Renal pelvis | 1975-09 | -2.5* | | | | | | | | | | | -2.5* |
| Leukemia | 1975-89 | -3.9* | 1989-92 | -0.8 | 1992-98 | -5.0* | 1998-01 | 1.0 | 2001-09 | -3.1* | | | -3.1* |
| Acute lymphocytic leukemia | 1975-94 | -4.5* | 1994-09 | -2.7* | | | | | | | | | -2.7* |
| Non-Hodgkin lymphoma | 1975-09 | -4.1* | | | | | | | | | | | -4.1* |
| Soft tissue | 1975-79 | 8.9* | 1979-09 | -1.0* | | | | | | | | | -1.0* |

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint/). The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2009.

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

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

Table 28.7 - continued

Trends in U.S. Mortality Using the Joinpoint Regression Program, 1975-2009 With up to Five Joinpoints By Primary Cancer Site and Age at Death White, Both Sexes

| | JP Tre | end 1 | JP Tre | end 2 | JP Tre | end 3 | JP Tr | end 4 | JP Tr | end 5 | JP Tre | end 6 | _AAPC ^d _ |
|------------------------------|---------|-------|---------|-------|---------|-------|-------|-------|-------|-------|--------|-------|----------------------|
| | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | 2005-09 |
| Ages 0-14 All Sites | 1975-96 | -3.0* | 1996-09 | -1.3* | | | | | | | | | -1.3* |
| Bone & Joint | 1975-89 | -3.1* | 1989-09 | -0.4 | | | | | | | | | -0.4 |
| Brain & Other nervous system | 1975-09 | -1.0* | | | | | | | | | | | -1.0* |
| Hodgkin lymphoma | - | - | | | | | | | | | | | - |
| Kidney & Renal pelvis | 1975-09 | -2.7* | | | | | | | | | | | -2.7* |
| Leukemia | 1975-89 | -4.6* | 1989-09 | -2.9* | | | | | | | | | -2.9* |
| Acute lymphocytic leukemia | 1975-91 | -5.5* | 1991-09 | -2.9* | | | | | | | | | -2.9* |
| Non-Hodgkin lymphoma | 1975-09 | -5.0* | | | | | | | | | | | -5.0* |
| Soft tissue | 1975-79 | 12.7* | 1979-95 | -2.8* | 1995-09 | 0.5 | | | | | | | 0.5 |
| | | | | | | | | | | | | | |
| <u>Ages 0-19</u> | | | | | | | | | | | | | |
| All Sites | 1975-96 | -2.7* | 1996-09 | -1.3* | | | | | | | | | -1.3* |
| Bone & Joint | 1975-89 | -2.8* | 1989-09 | -0.1 | | | | | | | | | -0.1 |
| Brain & Other nervous system | 1975-09 | -1.0* | | | | | | | | | | | -1.0* |
| Hodgkin lymphoma | 1975-09 | -4.8* | | | | | | | | | | | -4.8* |
| Kidney & Renal pelvis | 1975-09 | -2.5* | | | | | | | | | | | -2.5* |
| Leukemia | 1975-88 | -4.1* | 1988-09 | -2.7* | | | | | | | | | -2.7* |
| Acute lymphocytic leukemia | 1975-95 | -4.5* | 1995-09 | -2.2* | | | | | | | | | -2.2* |
| Non-Hodgkin lymphoma | 1975-09 | -4.2* | | | | | | | | | | | -4.2* |
| Soft tissue | 1975-79 | 9.8* | 1979-09 | -0.9* | | | | | | | | | -0.9* |

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint/).
The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).
Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2009.

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

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

Table 28.7 - continued

Trends in U.S. Mortality Using the Joinpoint Regression Program, 1975-2009 With up to Five Joinpoints By Primary Cancer Site and Age at Death Black, Both Sexes

| | JP Tre | end 1 | JP Tr | end 2 | JP Tr | end 3 | JP Tr | end 4 | JP Tr | end 5 | JP Tr | end 6 | $AAPC^d$ |
|------------------------------|---------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | Years | APC | 2005-09 |
| Ages 0-14 All Sites | 1975-97 | -2.6* | 1997-09 | -1.1* | | | | | | | | | -1.1* |
| Bone & Joint | 1975-81 | -10.5* | 1981-09 | -0.5 | | | | | | | | | -0.5 |
| Brain & Other nervous system | 1975-09 | -1.2* | | | | | | | | | | | -1.2* |
| Hodgkin lymphoma | - | - | | | | | | | | | | | - |
| Kidney & Renal pelvis | 1975-09 | -2.8* | | | | | | | | | | | -2.8* |
| Leukemia | 1975-09 | -3.2* | | | | | | | | | | | -3.2* |
| Acute lymphocytic leukemia | 1975-09 | -4.7* | | | | | | | | | | | -4.7* |
| Non-Hodgkin lymphoma | 1975-09 | -4.7* | | | | | | | | | | | -4.7* |
| Soft tissue | 1975-09 | -1.1* | | | | | | | | | | | -1.1* |
| Ages 0-19 | | | | | | | | | | | | | |
| All Sites | 1975-09 | -2.1* | | | | | | | | | | | -2.1* |
| Bone & Joint | 1975-85 | -6.3* | 1985-09 | 0.0 | | | | | | | | | 0.0 |
| Brain & Other nervous system | 1975-09 | -1.2* | | | | | | | | | | | -1.2* |
| Hodgkin lymphoma | - | - | | | | | | | | | | | - |
| Kidney & Renal pelvis | 1975-09 | -2.6* | | | | | | | | | | | -2.6* |
| Leukemia | 1975-09 | -2.7* | | | | | | | | | | | -2.7* |
| Acute lymphocytic leukemia | 1975-09 | -4.0* | | | | | | | | | | | -4.0* |
| Non-Hodgkin lymphoma | 1975-09 | -3.4* | | | | | | | | | | | -3.4* |
| Soft tissue | 1975-09 | -0.8* | | | | | | | | | | | -0.8* |

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (http://surveillance.cancer.gov/joinpoint/). The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention. The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2009.

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

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

Table 28.8 5-Year Relative Survival (Percent)

By Selected Primary Cancer Site and Year of Diagnosis

All Races, Males and Females

| | | | | | Ages 0- | 14 | | | | |
|----------------------------|-------------------|-----------|-------------------|-------------------|----------------------|---|-------------------|-----------|-----------|-------------------|
| Site | 1975-1977 | 1978-1980 | 1981-1983 | 1984-1986 | 1987-1989 | 1990-1992 | 1993-1995 | 1996-1998 | 1999-2001 | 2002-2008 |
| All Sites | | | | | | | | | | |
| All Races | 58.1 | 62.6 | 66.9 | 68.2 | 71.6 | 75.9 | 77.4 | 79.1 | 80.6 | 82.8° |
| Whites | 58.0 | 63.0 | 67.6 | 70.0 | 72.4 | 76.8 | 78.3 | 80.6 | 81.6 | 84.5° |
| Blacks | 57.3 | 57.7 | 62.2 | 56.7 | 65.3 | 71.1 | 73.0 | 75.2 | 73.9 | 75.5° |
| Bone & Joint | 49.9 ^d | 47.8 | 56.8 ^d | 57.3 ^d | 66.8 ^d | 67.4 | 74.1 | 70.3 | 70.0 | 78.8° |
| Brain & ONS | 56.9 | 57.7 | 56.3 | 61.8 | 64.2 | 64.6 | 70.6 | 75.0 | 73.7 | 74.5° |
| Hodgkin lymphoma | 80.7 | 86.8 | 88.0 | 90.9 | 87.1 | 96.8 | 94.6 | 96.1 | 94.4 | 97.4° |
| Leukemia | 50.3 | 58.3 | 62.9 | 63.9 | 71.0 | 75.6 | 76.0 | 80.2 | 82.6 | 86.6° |
| Acute lymphocytic | 57.5 | 66.1 | 71.3 | 72.6 | 77.8 | 83.3 | 83.8 | 86.9 | 88.4 | 91.2° |
| Acute myeloid | 18.8 | 25.8 | 26.7 ^d | 30.5 ^d | 37.1 ^d | 41.6 | 41.7 ^d | 48.6 | 58.1 | 64.2° |
| Neuroblastoma ^a | 52.5 | 56.9 | 54.5 | 52.3 | 62.9 | 76.4 | 67.3 | 65.8 | 72.7 | 73.5° |
| Non-Hodgkin lymphoma | 43.2 | 52.7 | 66.9 | 70.3 | 70.7 | 76.9 | 80.7 | 83.9 | 89.2 | 85.3 ^c |
| Soft tissue | 61.0 | 74.9 | 69.2 | 72.9 | 66.4 | 79.8 | 76.7 | 70.1 | 76.9 | 82.0° |
| Wilms' tumor ^b | 73.1 | 79.0 | 86.7 | 90.7 | 92.2 | 91.9 | 91.7 | 91.6 | 93.8 | 90.1° |
| Site | 1975-1977 | 1978-1980 | 1981-1983 | 1984-1986 | Ages 0- 1987-1989 | 19 1990-1992 | 1993-1995 | 1996-1998 | 1999-2001 | 2002-2008 |
| 5100 | 13.13 13.1. | 1970 1900 | 1701 1703 | 1701 1700 | 170, 1707 | 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1000 1000 | 1330 1330 | 1777 2001 | 2002 2000 |
| All Sites | | | | | | | | | | |
| All Races | 61.7 | 65.2 | 68.3 | 70.6 | 73.5 | 76.3 | 77.8 | 79.7 | 80.2 | 83.1° |
| Whites | 61.5 | 65.8 | 69.2 | 72.5 | 75.0 | 77.6 | 78.6 | 81.0 | 81.2 | 84.4° |
| Blacks | 59.5 | 60.0 | 62.5 | 58.3 | 64.4 | 68.7 | 74.0 | 73.6 | 74.4 | 75.9° |
| Bone & Joint | 50.4 | 48.1 | 51.2 | 56.6 | 64.0 | 68.8 | 68.9 | 67.0 | 66.7 | 73.0° |
| Brain & ONS | 58.9 | 58.1 | 58.0 | 63.9 | 65.9 | 66.5 | 71.5 | 75.9 | 74.2 | 75.0° |
| Hodgkin lymphoma | 86.1 | 88.4 | 85.5 | 90.8 | 89.0 | 94.2 | 93.9 | 95.2 | 95.0 | 96.9° |
| Leukemia | 45.5 | 53.5 | 58.0 | 60.5 | 67.6 | 71.4 | 72.0 | 76.5 | 77.5 | 83.6° |
| Acute lymphocytic | 54.1 | 62.2 | 67.1 | 70.3 | 75.0 | 80.0 | 81.4 | 84.3 | 84.6 | 88.7° |
| Acute myeloid | 18.7 | 26.2 | 26.4 | 31.4 | 37.6 | 41.5 | 39.4 | 46.2 | 51.6 | 63.2° |
| Neuroblastoma ^a | 53.1 | 57.0 | 53.4 | 52.5 | 61.5 | 76.1 | 67.3 | 66.0 | 72.4 | 73.6° |
| Non-Hodgkin lymphoma | 44.6 | 53.4 | 63.8 | 67.7 | 70.4 | 72.7 | 77.9 | 81.4 | 83.9 | 84.3° |
| Soft tissue | 65.2 | 69.3 | 68.4 | 72.6 | 68.0 | 69.6 | 74.3 | 72.0 | 72.9 | 77.5° |
| Wilms' tumor ^b | 72.6 | 78.4 | 86.8 | 91.0 | 92.2 | 91.3 | 91.7 | 91.7 | 93.8 | 89.8° |

Source: SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). Based on follow-up of patients into 2009.

Note: Neuroblastoma and Wilms' tumor are not mutually exclusive from the other tumors presented in table.

Neuroblastoma is defined as histologies 9490-9509. Wilms' tumor is defined as histologies 8959-8960.

b

The difference between 1975-1977 and 2002-2008 is statistically significant (p<.05).

The standard error is between 5 and 10 percentage points.

The standard error is greater than 10 percentage points.

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

Childhood Cancer

SEER Incidence Rates, U.S. Death Rates and 5-Year Relative Survival Percentages
For Top Cancer Sites By 5-Year Age Groups
All Races, Males and Females

| | | SEER Incid | | | | | US Mortal | | | _ 5-year R | elative |
|--|--|--|--|---|--|--|---|--|---|--|--|
| | 2005-2009 | 1975-2009 | | | 2005-200 | | 1975-2009 | 1975-1992 | 1993-2009 | Surv | |
| Age/Site | Num Cases Ra | te APC | APC | APC | Num Deaths | Rate | APC | APC | APC | 1975-1977 | 2002-2008 |
| <u>Ages 0-4</u> | | | | | | | | | | | |
| All Sites Soft tissue Kidney and Renal pelvis Eye and Orbit Brain and Other nervous Other endocrine ^g Leukemia Acute lymphocytic | 540 1 384 1 1,160 3 413 1 2,362 7 | .9 | 1.1* 0.8 -0.2 1.2 2.8* - 0.8 1.1* | $egin{array}{ccc} 0.0^{\#} & & & & \\ 2.1 & & & & \\ -2.4 & ^{*} & & \\ -2.1 & ^{\#} & & \\ 0.4 & & & \\ & & & \\ & & & \\ 0.4 & & \\ 0.4 & & \\ \end{array}$ | 2,229 123 72 19 569 363 719 242 | 2.1 0.1 0.0 0.5 0.3 0.7 | -2.7* -1.9* -3.8* -1.5* -3.1* -4.2* | -3.0* -1.5 -6.3* -1.3* -3.7* -5.7* | -2.3*# -1.5 -3.6*@ - -2.5*# - -2.2*# -1.8*# | 57.2 61.2 ^d 71.9 87.2 ^d 52.0 35.7 ^d 55.4 63.2 | 83.5° 84.0° 90.0° 97.5° 74.4° 71.3° 87.5° 92.1° |
| <u>Ages 5-9</u> | | | | | | | | | | | |
| All Sites Brain and Other nervous Leukemia Acute lymphocytic | 1,130 3 | .8 0.3 .2 0.4 .9 0.3 .3 0.5 | 0.8* 1.3 1.7* 1.9* | 0.4 0.2 -0.2 [#] -0.3 [#] | 2,358 903 585 320 | 2.3 0.9 0.6 0.3 | -2.6* -0.6* -4.7* -5.3* | -3.3* -0.5 -5.4* -6.4* | -1.3* [#] 0.1 -3.5* [#] -3.2* [#] | 58.7 58.4 52.3 55.6 | 80.5° 69.6° 89.2° 95.1° |
| Ages 10-14 | | | | | | | | | | | |
| All Sites Bone and Joint Brain and Other nervous Hodgkin lymphoma Leukemia Acute lymphocytic | 772 2 373 1 980 3 | .8 0.7* .4 0.2 .6 0.9* .3 -0.6* .4 0.8* .3 1.1* | 1.1* 1.3 1.8* -0.6 1.5 2.6* | 0.7 -0.1 -0.2 [®] 0.3 1.9* 2.3* | 2,294 252 633 17 756 362 | 2.3 0.2 0.6 0.0 0.7 | -2.1* -1.4* -1.1* -2.9* -3.3* | -2.5* -3.0* -1.4* -3.1* -3.3* | -1.3* [#] -0.3 [#] -0.4 [@] 2.5* -2.9* | 58.7 52.8 ^d 59.5 78.7 34.9 43.0 ^d | 83.5° 78.7° 80.5° 98.7° 80.7° 83.3° |
| Ages 15-19 | | | | | | | | | | | |
| All Sites Bone and Joint Melanoma of the skin Testis(males) Brain and Other nervous Thyroid Hodgkin lymphoma Non-Hodgkin lymphoma Leukemia Acute lymphocytic | 401 1 577 3 636 2 640 2 957 1 927 3 | .8 | 1.2* 0.8 2.4* 2.1 2.1* 1.1 0.3 2.7* 0.5 1.6 | 0.9* -0.1 1.3 1.8* 0.5 2.8* -0.6 1.6 1.5 2.7* | 3,408 572 34 36 539 73 230 1,000 396 | 3.2 0.5 0.0 0.1 0.5 - 0.1 0.2 0.9 0.4 | -1.9* -1.0*1.2* -4.7* -2.8* -2.1* -2.2* | -2.2* -2.7* - -1.1* -3.5* -2.2* -1.9* -1.3* | -1.6*# 0.1#1.2*5.1* -3.1* -2.2* -2.1* | 68.1 51.0 ^d 76.2 ^d 66.0 ^d 65.3 100.0 89.0 47.7 ^d 24.5 30.0 ^d | 83.7° 66.4° 97.8° 95.3° 77.1° 97.7 96.6° 82.8° 69.1° 72.0° |

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

Note: Incidence and death rates are per 100,000 and are age-adjusted(as appropriate) to the 2000 US Std Population (19 age groups - Census P25-1130).

- Incidence data used in calculating the rates are from the SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).

 Incidence data used in calculating the trends and survival estimates are from the 9 SEER areas (San Francisco, Connecticut,
- Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
- b US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.
- The difference between 1975-1977 and 2002-2008 is statistically significant (p<.05).
- The standard error is between 5 and 10 percentage points.
- The standard error is greater than 10 percentage points.
- f Sites were chosen based on more than 100 SEER incidence cases between 2005-2009.
- APCs suppressed because of inconsistent classification across ICD: ICD-8 (1975-1978), ICD-9 (1979-1998), ICD-10 (1999-2008).
- * The APC is significantly different from zero (p<.05).
- The APC for 1993-2009 is significantly different from the APC for 1975-1992 (p<.05).
 The APC for 1993-2009 is significantly different from the APC for 1975-1992 (p<.10).
- Statistic not shown. Age-adjusted 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. Survival rate based on less than 25 cases for the time interval.

Table 28.10 All Cancer Sites (Invasive)

SEER^a Relative Survival (Percent) By Year of Diagnosis

All Races, Males and Females

Ages 0-14

Year of Diagnosis

```
1975- 1980- 1985-
           1979 1984 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008
Survival Time
                85.0 87.3 89.5 91.0
                                      91.1 88.6
                                                  90.6 90.5 92.9
                                                                  91.2 91.0
                                                                             91.3 92.5
                                                                                         92.1 91.8
                                                                                                     94.1 92.9
                                                                                                                92.5 94.1 92.2 93.0
 1-year
           81.3
                                                             86.4
                                                                              85.3
                                                                                    85.9
                                                                                                    89.3
 2-year
                75.8
                     78.4
                           81.8
                                 82.7
                                       84.1
                                            82.3
                                                  84.7
                                                        84.8
                                                                  84.8
                                                                        84.4
                                                                                         87.1
                                                                                               87.5
                                                                                                          88.4
                                                                                                                88.5
                                                                                                                    89.3
 3-year
           65.4 70.8 74.3
                           77.7
                                 79.4
                                      81.1
                                            79.0
                                                  81.7
                                                        81.3
                                                             83.7
                                                                   82.4
                                                                        81.7
                                                                              82.8
                                                                                    83.5
                                                                                         83.9
                                                                                               83.9
                                                                                                     86.0
                                                                                                          85.1
                                                                                                                85.1 88.0
 4-year
                      71.8
                           75.5
                                 76.7
                                       78.7
                                             78.2
                                                  79.0
                                                        78.9
                                                             80.7
                                                                   80.5
                                                                        78.9
                                                                              81.1
                                                                                    81.6
                                                                                         82.3
                                                                                               82.1
                                                                                                     85.1
                                                                                                          83.6
                                                                                                               83.5
                                 75.6
                                            76.6
                                                  78.4
                                                       77.4
                                                             80.3 79.2
                                                                        78.0
                                                                              79.2
                                                                                    80.7
                                                                                         81.9
 5-year
           59.9
                65.9 70.7
                           74.4
                                       77.6
                                                                                               81.0
                                                                                                    83.9
                                                                                                          82.7
                                                                              78.7 79.5
                64.8 69.7
                           73.6
                                 74.9
                                       76.3
                                            76.1
                                                  78.1
                                                       76.4
                                                             79.6 78.4
                                                                        76.5
                                                                                         80.9
                                                                                               80.2
 6-year
 7-year
           57.1
                63.9
                      68.7
                           72.7
                                 74.3
                                       75.9
                                             75.6
                                                  77.4
                                                        75.9
                                                             79.0
                                                                   77.9
                                                                        76.1
                                                                              78.0
                                                                                    79.0
                                                                                         79.8
 8-year
           56.4 63.2 68.1
                           72.3
                                 73.6
                                       75.8
                                            75.0
                                                  77.1
                                                       75.0
                                                             78.5
                                                                  76.7
                                                                        75.6
                                                                              77.7
                                                                                   78.3 79.8
                                                                              77.1 78.1
 9-year
           56.0
                62.6 67.7
                           71.8
                                 73.2
                                      75.6
                                            74.7
                                                  76.2
                                                       74.6
                                                             78.1 76.5
                                                                        75.0
10-year
                62.1 67.3
                                 73.1
                                      75.5 74.7
                                                  76.0
                                                       74.5 77.9 75.9 74.7 76.7
           55.8
                           71.4
11-year
           55.4
                61.7
                      67.0
                           70.9
                                 72.8
                                       75.4
                                            74.5
                                                  75.4
                                                       74.3
                                                             77.7 75.6
12-year
           55.1 61.2 66.7
                           70.8
                                 72.6
                                      75.3 74.5
                                                  74.7
                                                        74.0
                                                             77.6 75.2
                           70.2
                                                  74.5
                                                       74.0 77.5
13-year
           54.9
                60.9
                      66.5
                                 72.4
                                       75.1
                                            74.3
14-year
           54.5
                60.6 66.1
                           70.0
                                 72.2
                                      74.7 73.8
                                                  74.4 74.0
15-year
                60.3 66.0
                           69.7
                                 71.9
                                      74.4 73.8
                      65.7
16-year
           53.9
                60.0
                           69.2
                                71.8
                                      74.2
17-year
           53.5
                59.8 65.5
                           68.7 71.6
                                      73.9
18-year
                59.5 65.3 68.3 71.5
           53.3
19-year
           53.0 59.3 65.2 68.2
20-year
           52.9 59.1 64.9
```

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

Table 28.11 All Cancer Sites (Invasive)

SEER^a Relative Survival (Percent) By Year of Diagnosis

All Races, Males and Females

Ages 0-19

Year of Diagnosis

```
1975- 1980- 1985-
           1979 1984 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008
Survival Time
                           90.6 91.4
                                      90.5 89.8
                                                  90.7
                                                       90.3 93.2 91.7
                                                                         92.1 91.2 91.3
                                                                                         92.3 92.5
                                                                                                     94.1 92.5
                                                                                                                92.8 94.3 93.2 94.2
 1-year
           83.1
                86.3 88.8
                                                        84.9
                                                             87.4
                                                                         85.4
                                                                              85.8
                                                                                    84.3
                                                                                                     89.2
 2-year
                77.5 80.4
                           83.1
                                 83.7
                                       83.5
                                            82.9
                                                  84.3
                                                                  85.1
                                                                                         87.3
                                                                                               87.6
                                                                                                          88.1
                                                                                                                89.0 89.0
                                                                                                                86.2 87.4
 3-year
                72.5 76.5
                           78.7
                                 80.1
                                       80.5
                                            79.8
                                                  80.9
                                                        81.6
                                                             85.1
                                                                   82.0
                                                                         82.6
                                                                              83.0
                                                                                    82.0
                                                                                         84.1
                                                                                               84.1
                                                                                                     86.2
                                                                                                          84.5
 4-year
                69.6
                      73.9
                           76.5
                                 78.0
                                       78.3
                                             78.4
                                                  78.9
                                                        79.9
                                                             82.2
                                                                   80.4
                                                                         80.0
                                                                              81.1
                                                                                    80.3
                                                                                          82.3
                                                                                               82.1
                                                                                                     85.1
                                                                                                          83.3
                                       77.0
                                            76.8
                                                        78.5
                                                             81.6
                                                                         78.8
                                                                              79.5
                                                                                   79.2
                                                                                         81.7
 5-year
                67.9 72.9
                           75.2
                                 76.7
                                                  78.2
                                                                  78.7
                                                                                               80.9
                                                                                                     84.0 82.2
                           74.2
                                                                              79.1 78.3 81.0
                66.5 71.9
                                 76.0
                                       75.7
                                            76.3
                                                  77.7
                                                        77.4
                                                             81.0
                                                                  77.8
                                                                         77.6
                                                                                              79.9
 6-year
 7-year
                      71.0
                           73.3
                                 75.2
                                       75.2
                                             75.9
                                                  77.1
                                                        76.9
                                                             80.6
                                                                   77.3
                                                                         77.3
                                                                              78.6
                                                                                    77.7
                                                                                         79.9
 8-year
               64.9 70.4
                           72.7
                                 74.6
                                       75.1
                                            75.2
                                                  76.8
                                                        76.0
                                                             80.0
                                                                  76.6
                                                                         76.9
                                                                              78.4 77.1
                                                                                         79.8
                                                                              78.0 76.9
 9-year
           58.9
                64.2 70.0
                           72.2
                                 74.3
                                       74.9
                                            74.9
                                                  76.1
                                                        75.7
                                                             79.6 76.3
                                                                         76.4
10-year
           58.6
                                 73.9
                                       74.9 74.8
                                                  75.7
                                                       75.5 79.4 75.8 76.1
                63.8 69.6
                           72.0
11-year
           58.3
                63.4
                      69.3
                           71.3
                                 73.5
                                      74.8
                                            74.6
                                                  75.2
                                                       75.4
                                                             79.1 75.4
12-year
           57.9
                63.0 69.0
                           71.2
                                 73.1
                                       74.7
                                            74.6
                                                  74.8
                                                       75.1
                                                             79.0
                                                                  75.2
                           70.5
                                 73.0
                                       74.4 74.3
                                                  74.6
                                                       75.1 78.9
13-year
                62.7
                      68.7
14-year
           57.4
                62.3 68.2
                           70.3
                                 72.8
                                       74.1 73.8
                                                  74.4 75.0
15-year
                62.0 68.0
                           70.0
                                 72.6
                                      73.8
                                            73.8
                61.6 67.7
16-year
           56.9
                            69.5
                                 72.5
                                       73.6
17-year
           56.5
                61.4 67.5
                           68.7
                                 72.4
                                       73.5
18-year
                61.1 67.3 68.5 72.2
           56.3
19-year
           56.0 60.9 67.0 68.4
20-year
           55.7 60.6 66.7
```

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

Table 28.12 Childhood Cancer (Invasive, <20 Years old at diagnosis)

Estimated United States Cancer Prevalence Counts^a on January 1, 2009 By Race/Ethnicity, Sex and Years Since Diagnosis

| Years Since | Diagnosis | 0 to <5 | 5 to <10 | 10 to <15 | 15 to <20 | 20 to <25 | 25 to <30 | 0 to <19 ^e | 0 to <34 ^e | >=34 ^f | Completeg |
|------------------------|------------|---------|----------|-----------|-----------|-----------|-----------|-----------------------|-----------------------|-------------------|-----------|
| Race | Sex | | | | | | | | | | |
| All Races ^b | Both Sexes | 61,498 | 53,571 | 46,779 | 41,740 | 35,040 | 29,378 | 195,592 | 288,648 | + | + |
| | Males | 32,966 | 27,910 | 24,725 | 21,880 | 17,388 | 14,625 | 103,297 | 148,843 | + | + |
| | Females | 28,532 | 25,661 | 22,054 | 19,860 | 17,652 | 14,753 | 92,295 | 139,805 | + | + |
| White ^b | Both Sexes | 49,984 | 45,279 | 39,437 | 35,403 | 30,616 | 25,968 | 163,294 | 244,939 | + | + |
| | Males | 26,941 | 23,719 | 20,732 | 18,754 | 15,222 | 13,059 | 86,564 | 126,824 | + | + |
| | Females | 23,043 | 21,560 | 18,705 | 16,649 | 15,394 | 12,909 | 76,730 | 118,115 | + | + |
| Black ^b | Both Sexes | 7,323 | 5,314 | 4,626 | 4,044 | 2,867 | 2,398 | 20,502 | 28,256 | + | + |
| | Males | 3,865 | 2,628 | 2,435 | 2,032 | 1,342 | 1,092 | 10,540 | 14,036 | + | + |
| | Females | 3,458 | 2,686 | 2,191 | 2,012 | 1,525 | 1,306 | 9,962 | 14,220 | + | + |
| Asian/ | Both Sexes | 2,435 | 1,862 | 1,643 | + | + | + | 7,069 | + | + | + |
| Pacific | Males | 1,249 | 1,023 | 897 | + | + | + | 3,709 | + | + | + |
| Islander ^c | Females | 1,186 | 839 | 746 | + | + | + | 3,360 | + | + | + |
| Hispanic ^d | Both Sexes | 11,982 | 8,894 | 6,969 | + | + | + | 32,515 | + | + | + |
| | Males | 6,784 | 4,826 | 3,616 | + | + | + | 17,865 | + | + | + |
| | Females | 5,198 | 4,068 | 3,353 | + | + | + | 14,650 | + | + | + |

US 2009 cancer prevalence counts are based on 2009 cancer prevalence proportions from the SEER registries and 1/1/2009 US population estimates based on the average of 2008 and 2009 population estimates from the US Bureau of the Census. Prevalence was calculated using the First Malignant Primary Only for a person.
Statistics based on (b) SEER 9 Areas (c) SEER 11 Areas and Rural Georgia (d) NHIA for Hispanic for SEER 11 Areas and

bcd Rural Georgia.

f g

Maximum limited-duration prevalence: 34 years for 1975-2009 SEER 9 data; 19 years for 1990-2009 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

(f) Cases diagnosed more than 34 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (g)Complete prevalence is obtained by summing 0 to <34 and >=34. Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.

⁺ Not available.

Table 28.13 Age-Specific Rates^a and Counts for the Top 5 Cancer Sites^b by Single Year of Age at Diagnosis

SEER Cancer Incidence^c 2005-2009

| Age <1 | | | Age 1 | | | Age 2 | | |
|--|---|--|--|---|---|---|---|---|
| | <u>Rate</u> | <u>Cases</u> | | <u>Rate</u> | Cases | | Rate | Cases |
| All Sites | 22.9 | 1,397 | All Sites | 21.1 | 1,281 | All Sites | 22.2 | 1,335 |
| Leukemia | 4.7 | 284 | Leukemia | 6.2 | 376 | Leukemia | 10.3 | 623 |
| Acute Lymphocytic Leukemia | 2.1 | 130 | Acute Lymphocytic Leukemia | 4.3 | 259 | Acute Lymphocytic Leukemia | 9.2 | 555 |
| Brain and ONS ^d | 3.7 | 225 | Brain and ONS ^d | 4.5 | 274 | Brain and ONS ^d | 3.7 | 225 |
| Soft Tissue | 3.4 | 208 | Kidney and Renal Pelvis | 2.2 | 132 | Kidney and Renal Pelvis | 2.0 | 123 |
| Eye and Orbit | 2.7 | 165 | Soft Tissue | 1.8 | 109 | Eye and Orbit | 1.3 | 76 |
| Other Endocrine | 2.6 | 159 | Eye and Orbit | 1.5 | 92 | Other Endocrine | 1.1 | 65 |
| Age 3 | | | Age 4 | | | Age 5 | | |
| | Rate | Cases | | Rate | Cases | | Rate | Cases |
| All Sites | 20.5 | 1,220 | All Sites | 17.6 | 1,042 | All Sites | 13.2 | 775 |
| Leukemia | 10.1 | 601 | Leukemia | 8.1 | 478 | Leukemia | 4.9 | 288 |
| Acute Lymphocytic Leukemia | 9.2 | 548 | Acute Lymphocytic Leukemia | 7.3 | 432 | Acute Lymphocytic Leukemia | 4.3 | 253 |
| Brain and ONS ^d | 3.8 | 225 | Brain and ONS ^d | 3.6 | 211 | Brain and ONS ^d | 3.7 | 219 |
| Kidney and Renal Pelvis | 1.9 | 112 | Kidney and Renal Pelvis | 1.5 | 90 | Non-Hodgkin Lymphoma | 1.1 | 62 |
| Other Endocrine | 1.2 | 70 | Non-Hodgkin Lymphoma | 0.9 | 56 | Kidney and Renal Pelvis | 1.0 | 60 |
| Soft Tissue | 0.8 | 48 | Soft Tissue | 0.7 | 44 | Soft Tissue | 0.7 | 40 |
| Age 6 | | Age 7 | | | | | | |
| Age 6 | | | Age 7 | | | Age 8 | | |
| Age 6 | <u>Rate</u> | Cases | - | <u>Rate</u> | Cases | | <u>Rate</u> | Cases |
| Age 6 | Rate 12.6 | Cases 728 | Age 7 | Rate 11.7 | Cases 669 | Age 8 | Rate | Cases 609 |
| - | | | - | | | | | |
| All Sites Leukemia Acute Lymphocytic Leukemia | 12.6 | 728 | All Sites Leukemia Acute Lymphocytic Leukemia | 11.7 | 669 | All Sites | 10.7 | 609 |
| All Sites Leukemia | 12.6 | 728 255 | All Sites Leukemia | 11.7 4.0 | 669 231 | All Sites Brain and ONS ^d | 10.7 | 609 176 |
| All Sites Leukemia Acute Lymphocytic Leukemia | 12.6 4.4 4.0 | 728 255 231 | All Sites Leukemia Acute Lymphocytic Leukemia | 11.7 4.0 3.4 | 669 231 192 | All Sites Brain and ONS ^d Leukemia | 10.7 3.1 2.9 | 609 176 166 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d | 12.6 4.4 4.0 3.3 | 728 255 231 189 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d | 11.7 4.0 3.4 3.2 | 669 231 192 185 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia | 10.7 3.1 2.9 2.4 | 609 176 166 136 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Kidney and Renal Pelvis | 12.6 4.4 4.0 3.3 0.9 | 728 255 231 189 54 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma | 11.7 4.0 3.4 3.2 0.9 | 669 231 192 185 53 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Non-Hodgkin Lymphoma | 10.7 3.1 2.9 2.4 1.0 | 609 176 166 136 54 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Kidney and Renal Pelvis Non-Hodgkin Lymphoma | 12.6 4.4 4.0 3.3 0.9 0.8 | 728 255 231 189 54 49 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue | 11.7 4.0 3.4 3.2 0.9 0.6 | 669 231 192 185 53 35 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Non-Hodgkin Lymphoma Bones and Joints | 10.7 3.1 2.9 2.4 1.0 0.8 | 609 176 166 136 54 43 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Kidney and Renal Pelvis Non-Hodgkin Lymphoma Soft Tissue | 12.6 4.4 4.0 3.3 0.9 0.8 0.6 | 728 255 231 189 54 49 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints Age 10 | 11.7 4.0 3.4 3.2 0.9 0.6 0.5 | 669 231 192 185 53 35 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Non-Hodgkin Lymphoma Bones and Joints Hodgkin Lymphoma Age 11 | 10.7 3.1 2.9 2.4 1.0 0.8 0.7 | 609 176 166 136 54 43 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Kidney and Renal Pelvis Non-Hodgkin Lymphoma Soft Tissue | 12.6 4.4 4.0 3.3 0.9 0.8 0.6 | 728 255 231 189 54 49 35 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints | 11.7 4.0 3.4 3.2 0.9 0.6 0.5 | 669 231 192 185 53 35 31 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Non-Hodgkin Lymphoma Bones and Joints Hodgkin Lymphoma | 10.7 3.1 2.9 2.4 1.0 0.8 0.7 | 609 176 166 136 54 43 39 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Kidney and Renal Pelvis Non-Hodgkin Lymphoma Soft Tissue Age 9 | 12.6 4.4 4.0 3.3 0.9 0.8 0.6 | 728 255 231 189 54 49 35 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints Age 10 | 11.7 4.0 3.4 3.2 0.9 0.6 0.5 | 669 231 192 185 53 35 31 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Non-Hodgkin Lymphoma Bones and Joints Hodgkin Lymphoma Age 11 | 10.7 3.1 2.9 2.4 1.0 0.8 0.7 | 609 176 166 136 54 43 39 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Kidney and Renal Pelvis Non-Hodgkin Lymphoma Soft Tissue Age 9 All Sites Leukemia Acute Lymphocytic Leukemia | 12.6 4.4 4.0 3.3 0.9 0.8 0.6 | 728 255 231 189 54 49 35 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints Age 10 All Sites Leukemia Acute Lymphocytic Leukemia | 11.7 4.0 3.4 3.2 0.9 0.6 0.5 | 669 231 192 185 53 35 31 Cases 635 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Non-Hodgkin Lymphoma Bones and Joints Hodgkin Lymphoma Age 11 All Sites Leukemia Acute Lymphocytic Leukemia | 10.7 3.1 2.9 2.4 1.0 0.8 0.7 | 609 176 166 136 54 43 39 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Kidney and Renal Pelvis Non-Hodgkin Lymphoma Soft Tissue Age 9 All Sites Leukemia | 12.6 4.4 4.0 3.3 0.9 0.8 0.6 | 728 255 231 189 54 49 35 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints Age 10 All Sites Leukemia | 11.7 4.0 3.4 3.2 0.9 0.6 0.5 | 669 231 192 185 53 35 31 Cases 635 178 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Non-Hodgkin Lymphoma Bones and Joints Hodgkin Lymphoma Age 11 All Sites Leukemia | 10.7 3.1 2.9 2.4 1.0 0.8 0.7 | 609 176 166 136 54 43 39 Cases 743 211 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Kidney and Renal Pelvis Non-Hodgkin Lymphoma Soft Tissue Age 9 All Sites Leukemia Acute Lymphocytic Leukemia | 12.6 4.4 4.0 3.3 0.9 0.8 0.6 | 728 255 231 189 54 49 35 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints Age 10 All Sites Leukemia Acute Lymphocytic Leukemia | 11.7 4.0 3.4 3.2 0.9 0.6 0.5 | 669 231 192 185 53 35 31 Cases 635 178 128 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Non-Hodgkin Lymphoma Bones and Joints Hodgkin Lymphoma Age 11 All Sites Leukemia Acute Lymphocytic Leukemia | 10.7 3.1 2.9 2.4 1.0 0.8 0.7 Rate 12.9 3.7 2.6 | 609 176 166 136 54 43 39 <u>Cases</u> 743 211 148 |
| All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Kidney and Renal Pelvis Non-Hodgkin Lymphoma Soft Tissue Age 9 All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d | 12.6 4.4 4.0 3.3 0.9 0.8 0.6 Rate 10.8 3.4 2.6 2.7 | 728 255 231 189 54 49 35 | All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints Age 10 All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d | 11.7 4.0 3.4 3.2 0.9 0.6 0.5 Rate 11.2 3.1 2.3 2.4 | 669 231 192 185 53 35 31 Cases 635 178 128 139 | All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Non-Hodgkin Lymphoma Bones and Joints Hodgkin Lymphoma Age 11 All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d | 10.7 3.1 2.9 2.4 1.0 0.8 0.7 Rate 12.9 3.7 2.6 2.6 | 609 176 166 136 54 43 39 Cases 743 211 148 148 |

Rates are per 100,000 per year.

Top 5 cancer sites were determined based on the 2005-2009 age-specific rate.

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).

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

The rates for sex-specific cancer sites are calculated using the population for both sexes combined.

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

Table 28.13 - continued Age-Specific Rates^a and Counts for the Top 5 Cancer Sites^b by Single Year of Age at Diagnosis

SEER Cancer Incidence^c 2005-2009

| Age 12 | | | Age 13 | | | Age 14 | | | | |
|----------------------------|-------------|--------------|----------------------------|-------------|--------------|----------------------------|--------|--------------|--|--|
| | <u>Rate</u> | Cases | | <u>Rate</u> | Cases | | Rate | Cases | | |
| All Sites | 13.1 | 763 | All Sites | 14.6 | 864 | All Sites | 17.1 | 1,028 | | |
| Leukemia | 2.9 | 169 | Leukemia | 3.2 | 187 | Leukemia | 3.9 | 235 | | |
| Acute Lymphocytic Leukemia | 2.0 | 118 | Acute Lymphocytic Leukemia | 2.1 | 124 | Acute Lymphocytic Leukemia | 2.5 | 151 | | |
| Brain and ONS ^d | 2.8 | 162 | Brain and ONS ^d | 2.7 | 160 | Brain and ONS ^d | 2.7 | 163 | | |
| Bones and Joints | 1.6 | 91 | Hodgkin Lymphoma | 1.9 | 110 | Hodgkin Lymphoma | 2.0 | 119 | | |
| Non-Hodgkin Lymphoma | 1.3 | 75 | Bones and Joints | 1.5 | 86 | Non-Hodgkin Lymphoma | 1.8 | 111 | | |
| Hodgkin Lymphoma | 1.1 | 63 | Non-Hodgkin Lymphoma | 1.2 | 69 | Bones and Joints | 1.6 | 94 | | |
| Age 15 | Age 15 | | | Age 16 | | | Age 17 | | | |
| | Rate | <u>Cases</u> | | Rate | <u>Cases</u> | | Rate | <u>Cases</u> | | |
| All Sites | 18.9 | 1,150 | All Sites | 20.0 | 1,225 | All Sites | 22.2 | 1,360 | | |
| Leukemia | 3.3 | 199 | Leukemia | 3.3 | 205 | Hodgkin Lymphoma | 3.1 | 191 | | |
| Acute Lymphocytic Leukemia | 2.1 | 128 | Acute Lymphocytic Leukemia | 2.0 | 125 | Leukemia | 2.9 | 177 | | |
| Hodgkin Lymphoma | 2.5 | 151 | Hodgkin Lymphoma | 2.7 | 168 | Acute Lymphocytic Leukemia | 1.6 | 100 | | |
| Brain and ONS ^d | 2.2 | 135 | Brain and ONS ^d | 2.5 | 156 | Brain and ONS ^d | 2.3 | 138 | | |
| Bones and Joints | 2.1 | 126 | Thyroid | 1.9 | 114 | Testis ^e | 2.2 | 135 | | |
| Non-Hodgkin Lymphoma | 2.0 | 119 | Non-Hodgkin Lymphoma | 1.7 | 102 | Thyroid | 2.2 | 135 | | |
| Age 18 | | | Age 19 | | | | | | | |
| | <u>Rate</u> | <u>Cases</u> | | <u>Rate</u> | Cases | | | | | |
| All Sites | 22.9 | 1,366 | All Sites | 24.9 | 1,436 | | | | | |
| Hodgkin Lymphoma | 3.4 | 205 | Hodgkin Lymphoma | 4.2 | 242 | | | | | |
| Leukemia | 3.2 | 189 | Testis ^e | 3.3 | 191 | | | | | |
| Acute Lymphocytic Leukemia | 1.6 | 96 | Leukemia | 2.7 | 157 | | | | | |
| Thyroid | 2.7 | 159 | Acute Lymphocytic Leukemia | 1.4 | 80 | | | | | |
| Testis ^e | 2.4 | 142 | Thyroid | 2.6 | 151 | | | | | |
| Non-Hodgkin Lymphoma | 1.8 | 107 | Melanoma of the Skin | 2.0 | 114 | | | | | |

Rates are per 100,000 per year.

Top 5 cancer sites were determined based on the 2005-2009 age-specific rate.

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).

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

The rates for sex-specific cancer sites are calculated using the population for both sexes combined.

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

Table 28.14 Age-Specific Rates^a and Deaths for the Top 5 Cancer Sites^b by Single Year of Age at Death

U.S. Mortality^c 2005-2009

| Age <1 | | | Age 1 | | | Age 2 | | |
|----------------------------|-------------|---------------|----------------------------|-------------|---------------|----------------------------|-------------|---------------|
| | <u>Rate</u> | <u>Deaths</u> | | <u>Rate</u> | <u>Deaths</u> | | Rate | <u>Deaths</u> |
| All Sites | 1.7 | 367 | All Sites | 1.8 | 388 | All Sites | 2.3 | 479 |
| Leukemia | 0.6 | 128 | Leukemia | 0.7 | 154 | Leukemia | 0.8 | 164 |
| Acute Lymphocytic Leukemia | 0.2 | 43 | Acute Lymphocytic Leukemia | 0.2 | 42 | Acute Lymphocytic Leukemia | 0.3 | 60 |
| Brain and ONS ^d | 0.3 | 72 | Brain and ONS ^d | 0.4 | 88 | Brain and ONS ^d | 0.5 | 109 |
| Other Endocrine | 0.2 | 33 | Other Endocrine | 0.2 | 51 | Other Endocrine | 0.4 | 90 |
| Liver & IBD ^d | 0.1 | 26 | Liver & IBD ^d | 0.1 | 20 | Liver & IBD ^d | 0.2 | 33 |
| Soft Tissue | 0.1 | 18 | Soft Tissue | - | - | Soft Tissue | 0.1 | 28 |
| Age 3 | | | Age 4 | | | Age 5 | | |
| | <u>Rate</u> | <u>Deaths</u> | | <u>Rate</u> | <u>Deaths</u> | | Rate | <u>Deaths</u> |
| All Sites | 2.4 | 502 | All Sites | 2.4 | 493 | All Sites | 2.3 | 478 |
| Leukemia | 0.8 | 164 | Brain and ONS ^d | 0.8 | 162 | Brain and ONS ^d | 0.9 | 190 |
| Acute Lymphocytic Leukemia | 0.3 | 52 | Leukemia | 0.5 | 109 | Leukemia | 0.5 | 95 |
| Brain and ONS ^d | 0.7 | 138 | Acute Lymphocytic Leukemia | 0.2 | 45 | Acute Lymphocytic Leukemia | 0.2 | 51 |
| Other Endocrine | 0.5 | 96 | Other Endocrine | 0.5 | 93 | Other Endocrine | 0.4 | 77 |
| Soft Tissue | 0.2 | 35 | Soft Tissue | 0.1 | 27 | Kidney and Renal Pelvis | 0.1 | 30 |
| Liver & IBD ^d | 0.1 | 19 | Kidney and Renal Pelvis | 0.1 | 24 | Soft Tissue | 0.1 | 27 |
| Age 6 | | | Age 7 | | | Age 8 | | |
| | <u>Rate</u> | <u>Deaths</u> | | <u>Rate</u> | <u>Deaths</u> | | <u>Rate</u> | <u>Deaths</u> |
| All Sites | 2.3 | 471 | All Sites | 2.5 | 503 | All Sites | 2.3 | 458 |
| Brain and ONS ^d | 0.9 | 173 | Brain and ONS ^d | 1.0 | 206 | Brain and ONS ^d | 0.8 | 166 |
| Leukemia | 0.5 | 107 | Leukemia | 0.6 | 120 | Leukemia | 0.6 | 128 |
| Acute Lymphocytic Leukemia | 0.3 | 55 | Acute Lymphocytic Leukemia | 0.4 | 71 | Acute Lymphocytic Leukemia | 0.4 | 71 |
| Other Endocrine | 0.4 | 77 | Other Endocrine | 0.3 | 69 | Other Endocrine | 0.3 | 50 |
| Soft Tissue | 0.2 | 31 | Soft Tissue | 0.2 | 33 | Soft Tissue | 0.1 | 27 |
| Kidney and Renal Pelvis | 0.2 | 31 | Bones and Joints | 0.1 | 16 | Non-Hodgkin Lymphoma | 0.1 | 19 |
| Age 9 | | | Age 10 | | | Age 11 | | |
| | <u>Rate</u> | <u>Deaths</u> | | <u>Rate</u> | <u>Deaths</u> | | Rate | <u>Deaths</u> |
| All Sites | 2.3 | 448 | All Sites | 2.0 | 406 | All Sites | 2.2 | 446 |
| Brain and ONS ^d | 0.8 | 168 | Leukemia | 0.8 | 149 | Brain and ONS ^d | 0.7 | 142 |
| Leukemia | 0.7 | 135 | Acute Lymphocytic Leukemia | 0.4 | 75 | Leukemia | 0.7 | 139 |
| Acute Lymphocytic Leukemia | 0.4 | 72 | Brain and ONSd | 0.6 | 128 | Acute Lymphocytic Leukemia | 0.4 | 76 |
| Other Endocrine | 0.2 | 34 | Other Endocrine | 0.2 | 33 | Bones and Joints | 0.2 | 41 |
| Bones and Joints | 0.1 | 29 | Bones and Joints | 0.2 | 30 | Other Endocrine | 0.2 | 33 |
| Soft Tissue | 0.1 | 27 | Soft Tissue | 0.1 | 22 | Non-Hodgkin Lymphoma | 0.1 | 23 |

Rates are per 100,000 per year. Deaths are for the entire United States over the time period 2005-2009. Top 5 cancer sites were determined based on the 2005-2009 age-specific rate.

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

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

The rates for sex-specific cancer sites are calculated using the population for both sexes combined.

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

Table 28.14 - continued Age-Specific Rates^a and Deaths for the Top 5 Cancer Sites^b by Single Year of Age at Death

U.S. Mortality^c 2005-2009

| Age 12 | | Age 13 | | | Age 14 | | | | |
|----------------------------|------|--------|----------------------------|------|--------|----------------------------|------|--------|--|
| | Rate | Deaths | | Rate | Deaths | | Rate | Deaths | |
| All Sites | 2.1 | 429 | All Sites | 2.5 | 509 | All Sites | 2.4 | 504 | |
| Leukemia | 0.7 | 142 | Leukemia | 0.8 | 162 | Leukemia | 0.8 | 164 | |
| Acute Lymphocytic Leukemia | 0.3 | 65 | Acute Lymphocytic Leukemia | 0.4 | 77 | Acute Lymphocytic Leukemia | 0.3 | 69 | |
| Brain and ONS ^d | 0.6 | 120 | Brain and ONS ^d | 0.6 | 130 | Brain and ONS ^d | 0.5 | 113 | |
| Bones and Joints | 0.2 | 47 | Bones and Joints | 0.3 | 59 | Bones and Joints | 0.4 | 75 | |
| Soft Tissue | 0.2 | 37 | Soft Tissue | 0.2 | 35 | Soft Tissue | 0.2 | 48 | |
| Non-Hodgkin Lymphoma | 0.1 | 17 | Non-Hodgkin Lymphoma | 0.2 | 34 | Non-Hodgkin Lymphoma | 0.1 | 20 | |
| Age 15 | | | Age 16 | | | Age 17 | | | |
| | Rate | Deaths | | Rate | Deaths | | Rate | Deaths | |
| All Sites | 2.8 | 590 | All Sites | 3.0 | 648 | All Sites | 3.0 | 639 | |
| Leukemia | 1.0 | 205 | Leukemia | 0.9 | 191 | Leukemia | 0.9 | 184 | |
| Acute Lymphocytic Leukemia | 0.4 | 78 | Acute Lymphocytic Leukemia | 0.3 | 68 | Acute Lymphocytic Leukemia | 0.4 | 79 | |
| Brain and ONS ^d | 0.5 | 112 | Bones and Joints | 0.5 | 110 | Bones and Joints | 0.6 | 127 | |
| Bones and Joints | 0.3 | 71 | Brain and ONS ^d | 0.5 | 109 | Brain and ONS ^d | 0.5 | 97 | |
| Soft Tissue | 0.2 | 52 | Soft Tissue | 0.3 | 71 | Soft Tissue | 0.3 | 61 | |
| Non-Hodgkin Lymphoma | 0.2 | 40 | Non-Hodgkin Lymphoma | 0.2 | 41 | Non-Hodgkin Lymphoma | 0.2 | 33 | |
| Age 18 | | | Age 19 | | | | | | |
| | Rate | Deaths | | Rate | Deaths | | | | |
| All Sites | 3.3 | 719 | All Sites | 3.8 | 812 | | | | |
| Leukemia | 1.0 | 216 | Leukemia | 1.0 | 204 | | | | |
| Acute Lymphocytic Leukemia | 0.4 | 87 | Acute Lymphocytic Leukemia | 0.4 | 84 | | | | |
| Bones and Joints | 0.6 | 131 | Bones and Joints | 0.6 | 133 | | | | |
| Brain and ONS ^d | 0.4 | 94 | Brain and ONS ^d | 0.6 | 127 | | | | |
| Soft Tissue | 0.3 | 70 | Soft Tissue | 0.4 | 81 | | | | |
| Non-Hodgkin Lymphoma | 0.2 | 46 | Non-Hodgkin Lymphoma | 0.3 | 70 | | | | |

Rates are per 100,000 per year. Deaths are for the entire United States over the time period 2005-2009. Top 5 cancer sites were determined based on the 2005-2009 age-specific rate.

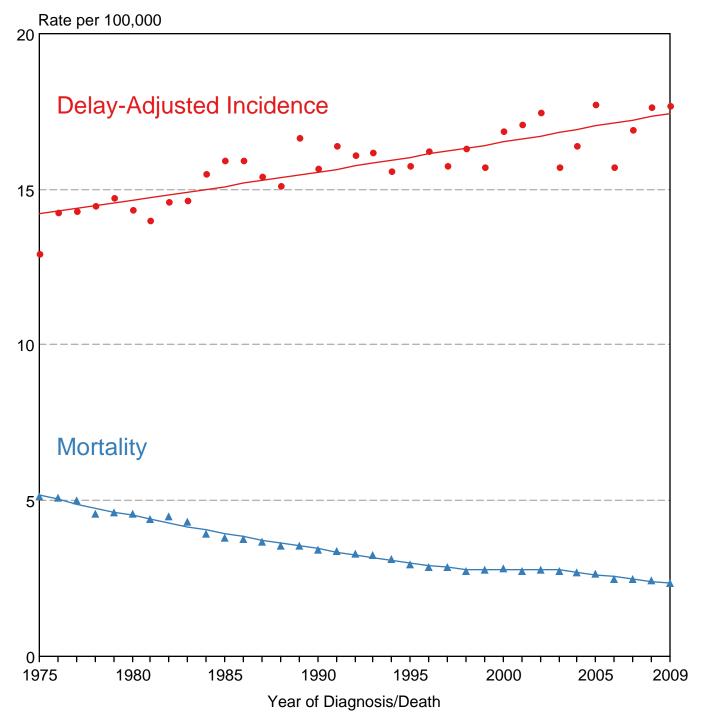
US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

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

The rates for sex-specific cancer sites are calculated using the population for both sexes combined.

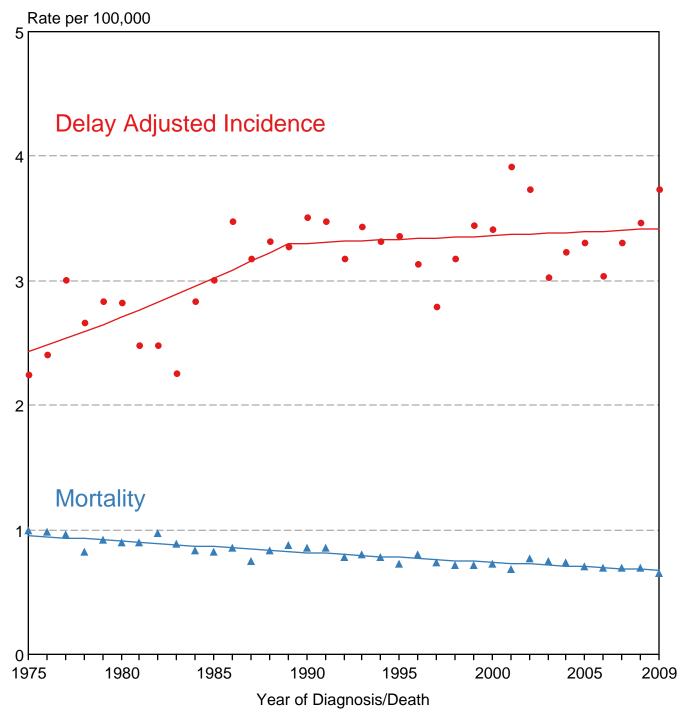
Statistic not shown. Rate based on less than 16 cases for the time interval.

SEER Delay-Adjusted Incidence and US Mortality All Childhood Cancers, Under 20 Years of Age Both Sexes, All Races, 1975-2009



Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC). Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.

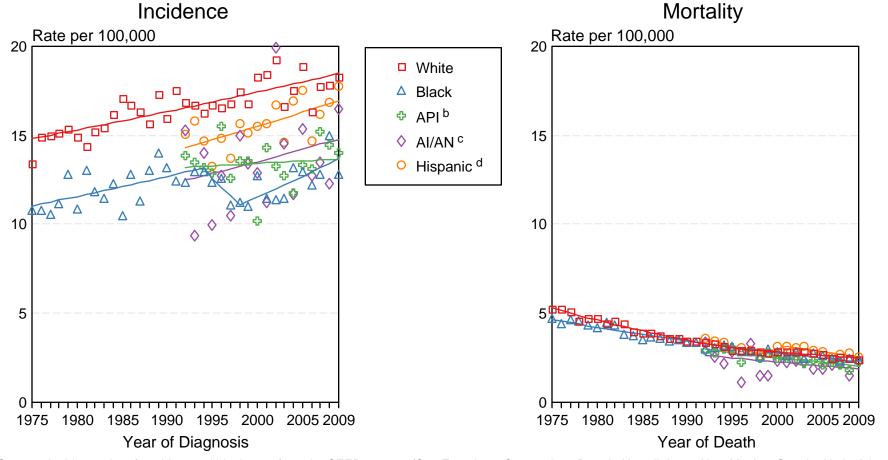
SEER Delay-Adjusted Incidence and US Mortality Brain and CNS, Under 15 Years of Age Both Sexes, All Races, 1975-2009



Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC). Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.

SEER Incidence and US Death Rates^a All Cancer Sites, Ages <20, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2009 and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2009



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

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

Regression lines are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2009 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 1992-2009 allow a maximum of 3 joinpoints.

b API = Asian/Pacific Islander.

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

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