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.

Age-Adjusted SEER Cancer Incidence^a and U.S. Death^b Rates, 2009-2013

By Primary Cancer Site

All Races, Males and Females

			Ages	0-14					Ages	0-19		
		Incidenc	ce	I	Mortalit	У		Incidenc	e	1	Mortalit	У
Site	Total	Males	Females									
All Sites												
All Races	16.1	16.9	15.3	2.2	2.3	2.0	17.6	18.4	16.9	2.3	2.6	2.1
Whites	17.0	17.8	16.2	2.2	2.4	2.1	18.8	19.6	17.9	2.4	2.6	2.2
Blacks	13.2	13.5	12.9	2.0	2.1	2.0	13.5	13.8	13.3	2.2	2.3	2.1
Bone & Joint	0.8	0.8	0.7	0.1	0.1	0.1	0.9	1.0	0.8	0.2	0.2	0.2
Brain & Other nervous	3.4	3.5	3.3	0.7	0.8	0.7	3.1	3.2	3.0	0.7	0.7	0.6
Hodgkin lymphoma	0.6	0.7	0.4	0.0	-	-	1.2	1.3	1.1	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	5.3	5.6	4.9	0.6	0.6	0.6	4.7	5.1	4.3	0.6	0.7	0.6
Acute lymphocytic	4.1	4.4	3.9	0.3	0.3	0.2	3.5	3.8	3.2	0.3	0.3	0.2
Non-Hodgkin lymphoma	1.0	1.4	0.7	0.1	0.1	0.0	1.2	1.6	0.8	0.1	0.1	0.1
Soft tissue	1.1	1.0	1.1	0.2	0.2	0.2	1.1	1.1	1.1	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).

b 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.

Age-Adjusted SEER Cancer Incidence Rates^a, 1975-2013

By Primary Cancer Site

All Races, Males and Females

Year of Diagnosis

1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 Age/Site

<u>Ages 0-14</u>

All Sites

All Races	11.6	12.9	14.6	14.3	14.1	14.8	14.1	15.3	14.5	15.4	15.8	15.6	13.2	15.3	16.8	14.5	14.8	15.8	16.1	16.6	16.0	15.7	15.5
Whites	12.1	13.2	15.6	14.4	14.9	15.0	14.7	16.1	15.6	16.7	17.1	17.0	14.0	16.2	17.7	15.3	15.7	16.2	16.8	17.4	17.0	16.1	16.1
Blacks	8.6	11.1	10.2	12.3	11.8	11.6	11.2	10.3	10.7	12.1	11.0	11.6	10.3	13.3	13.0	11.7	12.0	15.3	13.2	13.3	13.0	15.7	12.0
Bone & Joint	0.5	0.7	0.8	0.7	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	0.9	0.7	0.7	0.8	0.7
Brain & Other nervous	2.3	2.8	3.0	3.5	3.4	3.2	2.8	3.2	3.5	3.4	4.0	3.8	3.0	3.3	3.4	3.1	3.4	3.6	3.8	4.1	3.4	3.1	3.5
Hodgkin lymphoma	0.7	0.5	0.7	0.7	-	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	0.5	0.6	0.7	0.6
Kidney & Renal pelvis	0.7	0.8	0.9	0.8	0.6	1.0	1.0	1.0	0.7	1.0	0.9	0.9	0.7	0.7	0.9	0.6	0.7	1.0	0.8	0.9	0.9	0.6	0.9
Leukemia	3.3	4.0	4.6	4.5	4.5	4.7	4.3	4.8	4.7	4.6	4.4	4.8	4.1	5.0	5.4	4.6	4.2	4.8	4.8	5.0	5.2	4.8	4.8
Acute lymphocytic	2.2	3.1	3.5	3.5	3.7	3.6	3.5	3.9	3.6	3.5	3.5	4.0	3.2	3.8	4.1	3.5	3.6	3.6	3.9	3.9	4.3	3.7	3.9
Non-Hodgkin lymphoma	1.0	0.7	0.7	0.8	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	1.3	0.9	1.4	1.0
Soft tissue	0.9	0.9	0.9	0.7	1.0	1.1	1.0	1.1	0.9	1.0	1.2	1.0	0.8	1.0	1.5	0.9	1.1	0.9	1.0	1.0	1.1	1.3	1.0

Ages 0-19

All Sites																							
All Races	13.0	14.4	16.0	15.7	15.8	16.2	15.8	16.3	15.7	16.9	17.1	17.6	15.7	16.5	17.9	15.7	17.0	17.6	17.8	17.7	18.2	17.7	17.3
Whites	13.4	14.9	17.1	16.0	16.7	16.6	16.9	17.3	16.7	18.3	18.5	19.5	16.8	17.8	19.2	16.7	18.3	18.4	19.1	18.5	19.9	18.5	18.1
Blacks	10.8	10.9	10.6	13.3	12.4	12.6	11.1	11.5	11.4	12.9	11.7	11.4	11.7	13.2	13.2	12.4	13.0	15.2	13.1	14.3	13.2	15.8	13.3
Bone & Joint	0.7	0.9	1.0	0.8	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	0.7	0.9	1.0	0.9
Brain & Other nervous	2.1	2.5	2.7	3.2	3.1	3.0	2.6	2.8	3.0	3.1	3.5	3.4	2.9	3.0	3.0	2.8	3.1	3.2	3.3	3.6	3.1	2.9	3.3
Hodgkin lymphoma	1.5	1.2	1.4	1.3	0.9	1.4	1.3	1.4	1.1	1.2	1.1	1.2	1.0	1.1	0.9	1.1	1.4	1.4	1.3	1.3	1.3	1.5	1.1
Kidney & Renal pelvis	0.5	0.6	0.7	0.6	0.5	0.7	0.8	0.8	0.6	0.8	0.7	0.7	0.6	0.6	0.8	0.5	0.6	0.9	0.7	0.7	0.7	0.5	0.7
Leukemia	3.0	3.5	4.0	3.9	4.0	4.0	3.7	4.1	4.1	4.1	4.0	4.5	3.8	4.4	4.7	4.1	4.0	4.2	4.1	4.3	4.6	4.2	4.3
Acute lymphocytic	1.9	2.5	2.9	2.9	3.1	2.9	2.9	3.3	3.0	3.1	2.9	3.5	2.9	3.3	3.4	3.0	3.2	3.1	3.1	3.2	3.7	3.0	3.2
Non-Hodgkin lymphoma	1.0	0.8	1.0	1.0	1.1	1.0	1.1	1.0	0.9	1.3	1.1	1.2	1.3	1.1	1.3	1.2	1.3	1.3	1.4	1.5	1.1	1.4	1.2
Soft tissue	0.8	0.9	0.9	0.8	1.1	1.1	1.1	1.1	1.0	1.2	1.1	1.0	0.8	1.0	1.5	1.0	1.1	0.9	1.0	0.9	1.2	1.2	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.

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Age-Adjusted Cancer U.S. Death Rates^a, 1975-2013

By Primary Cancer Site

All Races, Males and Females

Year of Death

Age/Site 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 <u>Ages 0-14</u>

All Sites	4.9	4.3	3.6	3.1	2.7	2.6	2.6	2.4	2.5	2.5	2.5	2.6	2.5	2.5	2.4	2.2	2.3	2.2	2.2	2.2	2.1	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	0.7	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	0.7	0.7	0.8	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	0.0	0.1
Leukemia	2.1	1.7	1.4	1.1	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6
Acute lymphocytic	1.2	0.9	0.8	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.2	0.2
Non-Hodgkin lymphoma	0.4	0.3	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	0.0
Soft tissue	0.1	0.2	0.1	0.2	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	0.1	0.1	0.2	0.2

Ages 0-19

All Sites	5.1	4.6	3.8	3.4	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	2.3	2.3	2.3	2.4	2.3
Bone & Joint	0.3	0.3	0.3	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	0.2	0.2	0.2	0.2
Brain & Other nervous	0.9	0.8	0.8	0.8	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	0.6	0.7	0.7	0.7
Hodgkin lymphoma	0.1	0.1	0.1	0.1	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	-	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	0.0	0.1
Leukemia	2.0	1.8	1.4	1.2	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	0.7	0.6	0.6	0.6
Acute lymphocytic	1.0	0.9	0.7	0.6	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	0.3	0.3	0.3	0.2
Non-Hodgkin lymphoma	0.4	0.3	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	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. а

Age-Adjusted Cancer U.S. Death Rates^a, 1975-2013

By Primary Cancer Site

Whites, Males and Females

Year of Death

Age/Site 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 <u>Ages 0-14</u>

All Sites	5.0	4.4	3.7	3.2	2.7	2.7	2.7	2.5	2.5	2.6	2.5	2.6	2.6	2.5	2.5	2.3	2.4	2.3	2.2	2.2	2.2	2.3	2.2
Bone & Joint	0.2	0.2	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	0.1	0.1	0.1	0.1
Brain & Other nervous	1.0	0.9	0.9	0.9	0.7	0.8	0.8	0.7	0.7	0.8	0.7	0.8	0.8	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.8
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	0.0	0.1
Leukemia	2.3	1.8	1.4	1.1	1.0	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.6	0.6	0.6
Acute lymphocytic	1.2	1.0	0.8	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.5	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.2
Non-Hodgkin lymphoma	0.3	0.3	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	0.0
Soft tissue	0.1	0.2	0.2	0.2	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	0.2	0.2	0.1	0.1	0.2	0.2

Ages 0-19

All Sites	5.3	4.7	3.9	3.5	2.9	2.9	2.9	2.8	2.8	2.9	2.8	2.8	2.8	2.8	2.7	2.5	2.6	2.5	2.4	2.3	2.4	2.5	2.4
Bone & Joint	0.3	0.3	0.3	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	0.2	0.2	0.2	0.2
Brain & Other nervous	0.9	0.8	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.7	0.7
Hodgkin lymphoma	0.1	0.1	0.1	0.1	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	0.0	0.1	0.1	0.1	0.1	0.0	0.1
Leukemia	2.1	1.8	1.4	1.2	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	0.7	0.7	0.7	0.6
Acute lymphocytic	1.1	1.0	0.7	0.6	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	0.3	0.3	0.3	0.2
Non-Hodgkin lymphoma	0.4	0.3	0.3	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	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

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

Age-Adjusted Cancer U.S. Death Rates^a, 1975-2013

By Primary Cancer Site

Blacks, Males and Females

Year of Death

Age/Site 1975 1980 1985 1990 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 Ages 0-14 All Sites 4.5 3.8 3.3 3.0 2.5 2.4 2.5 2.3 2.3 2.6 2.4 2.4 2.5 2.2 2.1 2.2 2.0 2.0 2.0 2.2 2.9 2.5 1.9 Bone & Joint 0.3 0.2 Brain & Other nervous 0.9 0.9 0.6 0.7 0.8 0.7 0.6 0.7 0.7 0.7 0.5 0.8 0.7 0.7 0.7 0.7 0.5 0.6 0.6 0.6 0.7 0.7 0.6 Hodgkin lymphoma Kidney & Renal pelvis 0.2 0.2 0.2 Leukemia 0.7 0.5 0.8 1.6 1.2 1.2 0.9 1.0 0.8 0.7 0.7 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.5 0.5 0.4 0.6 0.5 0.6 Acute lymphocytic 0.8 0.7 0.5 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 0.2 0.2 0.2 Non-Hodgkin lymphoma 0.4 0.2 Soft tissue 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.2 0.2 0.2 0.2 _ Ages 0-19 All Sites 4.8 4.2 3.5 3.4 3.1 2.9 2.9 2.6 3.0 2.8 2.6 2.8 2.5 2.8 2.6 2.4 2.3 2.4 2.3 2.2 2.1 2.3 2.2 0.3 0.3 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 Bone & Joint 0.4 0.2 0.2 0.2 0.2 0.1 0.3 0.2 0.2 0.3 0.2 0.2 0.1 Brain & Other nervous 0.9 0.8 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 0.5 0.6 0.6 0.7 0.7 0.6 Hodgkin lymphoma Kidney & Renal pelvis 0.2 0.2 0.1 0.1 _ 0.1 0.2 0.1 _ Leukemia 1.6 1.4 1.1 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 0.5 0.5 0.5 0.5 Acute lymphocytic 0.7 0.6 0.6 0.5 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 0.2 0.2 0.2 0.2 0.2 0.2 Non-Hodgkin lymphoma 0.4 0.3 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.1 0.1 0.1 0.1 _ 0.2 0.2 _ _ _ 0.1 _ 0.2 0.2 Soft tissue 0.2 0.2 0.3 0.2 0.2 0.3 0.2 0.3 0.2 0.2 0.2 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.1 0.2 0.2

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

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

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

National Cancer Institute

Trends in SEER Incidence^a Using the Joinpoint Regression Program, 1975-2013 With up to Five Joinpoints By Primary Cancer Site And Age At Diagnosis Males and Females

	JP Tre		JP Tre		JP Tre			end 4	JP Tr		JP Tre		AAPC ^b
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2009-13
Ages 0-14													
All Sites													
All Sites All Races	1975-13	0.6*											0.6*
White	1975-13	0.6*											0.8*
Black	1975-13	0.7*											0.7*
BIACK	1975-13	0./*											0.7*
Bone & Joint	1975-13	0.3											0.3
Brain & Other nervous	1975-89	2.2*	1989-13	0.3									0.3
system													
Hodgkin lymphoma	1975-13	-0.5*											-0.5*
Kidney & Renal pelvis	1975-13	-0.2											-0.2
Leukemia	1975-13	0.7*											0.7*
Acute lymphocytic	1975-13	0.8*											0.8*
leukemia													
Non-Hodgkin lymphoma	1975-13	0.9*											0.9*
Soft tissue	1975-13	1.1*											1.1*
<u>Ages 0-19</u>													
All Sites													
All Races	1975-13	0.6*											0.6*
White	1975-13	0.7*											0.7*
Black	1975-02	0.2	2002-13	1.5*									1.5*
Bone & Joint	1975-13	0.2											0.2
Brain & Other nervous	1975-83	-0.5	1983-86	8.3	1986-13	0.2							0.2
system													
Hodgkin lymphoma	1975-13	-0.6*											-0.6*
Kidney & Renal pelvis	1975-13	-0.1											-0.1
Leukemia	1975-13	0.7*											0.7*
Acute lymphocytic	1975-13	0.8*											0.8*
leukemia													
Non-Hodgkin lymphoma	1975-13	1.0*											1.0*
Soft tissue	1975-13	1.0*											1.0*

Joinpoint Regression Program Version 4.3.0.0, April 2016, National Cancer Institute. (<u>http://surveillance.cancer.gov/joinpoint</u>/). 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.

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Trends in U.S. Mortality^a Using the Joinpoint Regression Program, 1975-2013 With up to Five Joinpoints By Primary Cancer Site and Age at Death All Races, Both Sexes

	JP Tre	end 1	JP Tr	end 2	JP Tre	end 3	JP Tre	end 4	JP Tr	end 5	JP Tre	end 6	AAPC ^b
	Years	APC	Years	APC	2009-13								
<u>Ages 0-14</u> All Sites	1975-96	-2.9*	1996-13	-1.3*									-1.3*
Bone & Joint	1975-89	-3.5*	1989-13	-0.5									-0.5
Brain & Other nervous system	1975-13	-0.9*											-0.9*
Hodgkin lymphoma	1975-13	-4.9*											-4.9*
Kidney & Renal pelvis	1975-13	-2.7*											-2.7*
Leukemia	1975-90	-4.4*	1990-13	-2.8*									-2.8*
Acute lymphocytic leukemia	1975-93	-5.2*	1993-13	-3.1*									-3.1*
Non-Hodgkin lymphoma	1975-13	-5.0*											-5.0*
Soft tissue	1975-79	11.2*	1979-96	-2.6*	1996-13	0.5							0.5
<u>Ages 0-19</u>													
All Sites	1975-96	-2.7*	1996-13	-1.4*									-1.4*
Bone & Joint	1975-89	-3.1*	1989-13	-0.3									-0.3
Brain & Other nervous system	1975-10	-1.0*	2010-13	4.0									2.7
Hodgkin lymphoma	1975-13	-5.0*											-5.0*
Kidney & Renal pelvis	1975-13	-2.5*											-2.5*
Leukemia	1975-89	-3.9*	1989-92	-0.8	1992-98	-4.9*	1998-01	1.0	2001-13	-3.1*			-3.1*
Acute lymphocytic leukemia	1975-99	-4.4*	1999-02	2.2	2002-13	-4.4*							-4.4*
Non-Hodgkin lymphoma	1975-13	-4.2*											-4.2*
Soft tissue	1975-79	9.0*	1979-10	-1.0*	2010-13	8.9							6.4

National Cancer Institute

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Joinpoint Regression Program Version 4.3.0.0, April 2016, National Cancer Institute. (<u>http://surveillance.cancer.gov/joinpoint/</u>). 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 APC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint over the time range of 1975-2013. 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^a Using the Joinpoint Regression Program, 1975-2013 With up to Five Joinpoints By Primary Cancer Site and Age at Death White, Both Sexes

	JP Tre	end 1	JP Tr	end 2	JP Tre	end 3	JP Tre	end 4	JP Tr	end 5	JP Tre	end 6	AAPC ^b
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2009-13
<u>Ages 0-14</u> All Sites	1975-96	-3.0*	1996-13	-1.2*									-1.2*
Bone & Joint	1975-89	-3.1*	1989-13	-0.5									-0.5
Brain & Other nervous system	1975-13	-0.8*											-0.8*
Hodgkin lymphoma	-	-											-
Kidney & Renal pelvis	1975-13	-2.6*											-2.6*
Leukemia	1975-90	-4.5*	1990-13	-2.8*									-2.8*
Acute lymphocytic leukemia	1975-90	-5.6*	1990-13	-3.1*									-3.1*
Non-Hodgkin lymphoma	1975-13	-5.0*											-5.0*
Soft tissue	1975-79	12.8*	1979-95	-2.8*	1995-13	0.7							0.7
<u>Ages 0-19</u>													
All Sites	1975-96	-2.7*	1996-13	-1.3*									-1.3*
Bone & Joint	1975-89	-2.7*	1989-13	-0.3									-0.3
Brain & Other nervous system	1975-13	-0.9*											-0.9*
Hodgkin lymphoma	1975-13	-5.0*											-5.0*
Kidney & Renal pelvis	1975-13	-2.4*											-2.4*
Leukemia	1975-88	-4.1*	1988-13	-2.7*									-2.7*
Acute lymphocytic leukemia	1975-99	-4.4*	1999-03	2.1	2003-13	-4.9*							-4.9*
Non-Hodgkin lymphoma	1975-13	-4.3*											-4.3*
Soft tissue	1975-79	11.7*	1979-96	-1.7*	1996-13	0.4							0.4

Joinpoint Regression Program Version 4.3.0.0, April 2016, National Cancer Institute. (<u>http://surveillance.cancer.gov/joinpoint</u>/). 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 1975-2013. The APC/AAPC is significantly different from zero (p<.05).

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

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Table 28.7 - continued

Trends in U.S. Mortality^a Using the Joinpoint Regression Program, 1975-2013 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 Tre	end 3	<u>JP</u> Tr	end 4	JP Tr	end 5	JP Tre	end 6	AAPC ^b
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	2009-13
<u>Ages 0-14</u> All Sites	1975-96	-2.6*	1996-13	-1.5*									-1.5*
Bone & Joint	1975-13	-1.8*											-1.8*
Brain & Other nervous system	1975-13	-1.0*											-1.0*
Hodgkin lymphoma	-	-											-
Kidney & Renal pelvis	1975-13	-2.7*											-2.7*
Leukemia	1975-13	-3.2*											-3.2*
Acute lymphocytic leukemia	1975-85	-1.1	1985-93	-8.8*	1993-13	-3.3*							-3.3*
Non-Hodgkin lymphoma	1975-13	-4.4*											-4.4*
Soft tissue	1975-13	-1.1*											-1.1*
<u>Ages 0-19</u>													
All Sites	1975-13	-2.1*											-2.1*
Bone & Joint	1975-84	-6.6*	1984-13	-0.4									-0.4
Brain & Other nervous system	1975-13	-1.0*											-1.0*
Hodgkin lymphoma	-	-											-
Kidney & Renal pelvis	1975-13	-2.5*											-2.5*
Leukemia	1975-13	-2.9*											-2.9*
Acute lymphocytic leukemia	1975-13	-4.0*											-4.0*
Non-Hodgkin lymphoma	1975-13	-3.5*											-3.5*
Soft tissue	1975-13	-0.9*											-0.9*

Joinpoint Regression Program Version 4.3.0.0, April 2016, National Cancer Institute. (<u>http://surveillance.cancer.gov/joinpoint</u>/). 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 1975-2013. The APC/AAPC is significantly different from zero (p<.05).

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

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5-Year Relative Survival (Percent)

By Selected Primary Cancer Site and Year of Diagnosis

All Races, Males and Females

					Aq	es 0-14					
Site	1975-1977	1978-1980	1981-1983	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998	1999-2001	2002-2005	2006-2012
All Sites											
All Races	58.0	62.4	67.0	68.1	71.6	75.8	77.4	79.2	80.8	82.6	84.5°
Whites	57.9	63.0	67.7	69.8	72.4	76.8	78.3	80.6	81.8	84.5	85.3°
Blacks	57.3	57.7	62.2	57.0	65.3	70.8	73.3	75.6	73.9	72.7	82.1°
Bone & Joint	49.9 ^d	47.8	56.8 ^d	57.3 ^d	66.8 ^d	67.4	74.1	70.3	70.0	78.4	78.4°
Brain & ONS	56.9	57.7	56.7	61.7	64.3	64.4	70.7	75.2	74.0	75.5	74.7°
Hodgkin lymphoma	80.9	86.8	88.1	89.9	87.1	96.8	94.6	96.1	94.4	97.2	97.7°
Leukemia	49.7	58.0	62.9	63.6	71.0	75.5	75.9	80.3	82.8	85.7	88.0°
Acute lymphocytic	57.2	65.7	71.3	72.2	77.7	83.1	83.9	86.9	88.5	90.8	92.3°
Acute myeloid	18.8	25.8	26.7 ^d	30.6 ^d	37.1 ^d	42.2	40.6 ^d	48.7	58.6	63.3	66.8°
Neuroblastoma ^a	52.5	56.6	54.5	52.3	63.2	76.0	66.8	66.5	72.1	72.2	77.3°
Non-Hodgkin lymphoma	43.2	52.7	66.9	69.8	70.7	76.9	80.7	83.2	89.8	83.9	90.8°
Soft tissue	61.3	74.2	69.2	72.9	66.4	79.8	76.7	70.5	76.9	82.5	81.4°
Wilms' tumor ^b	73.1	79.0	86.7	90.7	92.2	91.9	91.7	91.5	93.8	90.8	93.0°

					Ag	es 0-19					
Site	1975-1977	1978-1980	1981-1983	1984-1986	1987-1989	1990-1992	1993-1995	1996-1998	1999-2001	2002-2005	2006-2012
All Sites											
All Races	61.5	65.2	68.3	70.5	73.5	76.3	77.8	79.8	80.3	82.7	84.7°
Whites	61.3	65.8	69.2	72.4	74.9	77.6	78.5	81.1	81.4	84.3	85.8°
Blacks	59.5	60.3	62.5	58.5	64.4	68.6	74.2	73.9	74.6	73.1	80.5°
Bone & Joint	50.4	48.1	51.2	56.1	64.0	68.8	68.9	67.0	66.7	75.0	74.5°
Brain & ONS	58.9	58.1	58.4	63.9	65.9	66.4	71.5	76.0	74.4	75.5	75.1°
Hodgkin lymphoma	86.2	88.3	85.5	90.6	88.7	94.2	93.9	95.2	95.0	96.6	97.3°
Leukemia	44.9	53.2	58.0	60.3	67.6	71.3	71.9	76.6	77.7	82.2	86.1°
Acute lymphocytic	53.8	61.9	67.1	69.9	75.0	79.8	81.4	84.3	84.8	87.8	91.0°
Acute myeloid	18.7	26.2	26.4	31.4	37.6	41.9	38.6	46.3	51.9	61.5	66.2°
Neuroblastoma ^a	53.1	56.7	53.4	52.5	61.7	75.7	66.8	66.7	71.9	72.2	76.8°
Non-Hodgkin lymphoma	44.6	53.4	63.6	67.6	70.4	72.7	78.0	81.0	84.3	83.9	88.0°
Soft tissue	64.8	68.9	68.2	72.6	68.0	69.7	73.8	72.3	73.0	77.0	78.2°
Wilms' tumor ^b	72.6	78.4	86.8	91.0	92.2	91.3	91.8	91.6	93.8	91.0	92.6°

Source: SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta). Based on follow-up of patients into 2013. Neuroblastoma and Wilms' tumor are not mutually exclusive from the other tumors presented in table.

Note:

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Neuroblastoma is defined as histologies 9490-9509. Wilms' tumor is defined as histologies 8959-8960. The difference between 1975-1977 and 2006-2012 is statistically significant (p<.05). The standard error is between 5 and 10 percentage points. The standard error is greater than 10 percentage points. с d

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- 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^f By 5-Year Age Groups All Races, Males and Females

		SEER Incid	lence ^a				US Mortal	itv ^b		5-year F	Relative
	2009-2013		1975-1994	1995-2013	2009-201	.3		1975-1994	1995-2013		ival ^a
Age/Site	Num Cases Ra	te APC	APC	APC	Num Deaths	Rate	APC	APC	APC	1975-1977	2006-2012
Ages 0-4											
All Sites	6,399 22	.2 0.7*	1.1*	0.5@	2,102	2.1	-2.5*	-2.9*	-1.6*#	57.2	84.6°
Soft tissue		.7 1.2*	0.0	1.6	126	0.1	-1.6*	-1.6	0.0	62.0 ^d	82.8°
Kidney and Renal pelvis		.9 -0.3	0.6	-1.1	68	0.1	-	-5.9*	-	71.9	92.0°
Eye and Orbit		.4 0.1	1.9*	$-0.4^{\#}$	19	0.0	_	_	_	87.2 ^d	94.6
Brain and Other nervous		.1 1.1*	2.3*	0.5#	572	0.6	-1.3*	-1.1*	-1.4*	52.0	72.6°
Other endocrine ^g		.4 -	_	_	329	0.3	_	_	_	35.7 ^d	78.9°
Leukemia		.3 0.8*	0.7	0.5	671	0.7	-2.8*	-3.6*	-1.8* [#]	55.4	89.2°
Acute lymphocytic		.7 0.8*	0.7*	0.3	204	0.2	-4.0*	-5.7*	-2.3*#	63.2	94.1°
<u>Ages 5-9</u>											
All Sites	3,692 12	.7 0.5*	0.5	0.9*	2,244	2.2	-2.4*	-3.2*	-1.1*#	58.3	83.4°
Brain and Other nervous		.5 0.6*	1.2	1.3*	936	0.9	-0.5*	-0.6	0.5#	58.4	71.8°
Leukemia	1,256 4	.3 0.4*	0.9	0.1	517	0.5	-4.6*	-5.3*	-3.4*#	51.0	89.9°
Acute lymphocytic	1,062 3	.7 0.7*	1.1	0.3	250	0.2	-5.3*	-6.4*	-4.0*#	54.8	93.1°
Ages 10-14											
All Sites	4,062 13	.8 0.6*	1.0*	0.5	2,235	2.2	-2.0*	-2.5*	-1.3* [#]	58.6	85.3°
Bone and Joint		.4 0.2	1.2	0.6	2,255	0.2	-1.3*	-2.7*	-0.7#	52.8 ^d	78.3°
Brain and Other nervous		.7 0.7*	1.9*	-0.5#	638	0.6	-1.1*	-1.6*	-0.5#	59.5	81.9°
Hodgkin lymphoma		.2 -0.5	-0.8	0.8		-	-	-	-	79.0	98.0°
Leukemia		.3 0.7*	0.7	1.1*	661	0.6	-2.9*	-3.1*	-2.6*	34.0	82.2°
Acute lymphocytic		.2 1.0*	1.5	1.4*	330	0.3	-3.3*	-3.5*	-3.1*	43.0 ^d	85.0°
Ages 15-19											
All Sites	6,819 22	.2 0.6*	0.9*	0.8*	3,139	2.9	-1.9*	-2.1*	-1.7* [#]	67.8	85.2°
Bone and Joint		.2 0.8"	1.1	-0.3	5,139	2.9	-1.0*	-2.4*	-0.6#	51.0 ^d	69.5°
Melanoma of the skin		.0 0.7*	2.0*	-0.3 -0.6®	24	0.0	-1.0"	-2.4"	-0.0	76.2 ^d	95.1°
Testis(males)		.0 0.7"	1.8	-0.8 1.6*	34	0.0	-	-	_	66.0 ^d	95.1 94.4°
Brain and Other nervous		.2 0.3	1.0	0.4	555	0.1	-1.1*	-1.0*	-0.6	65.3	77.1°
Thyroid		.8 2.4*	0.5	4.3* [#]		-	-1.1"	-1.0	-0.0	100.0	99.2
Hodgkin lymphoma		.0 -0.6*	0.0	0.2	55	0.1	-	-4.2*	_	89.0	99.2 97.1°
Non-Hodgkin lymphoma		.0 -0.8"	2.7*	0.2	164	0.1	-3.1*	-4.2"	-4.3* [#]	47.7 ^d	97.1 83.7°
Leukemia		.1 0.7*	0.7	0.5	827	0.2	-2.3*	-1.8*	-2.4*	23.8	76.4°
Acute lymphocytic		.7 1.0*	0.9	0.5	325	0.3	-2.4*	-1.6*	$-3.0^{*\#}$	30.0 ^d	81.8°

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.
- ^c The difference between 1975-1977 and 2006-2012 is statistically significant (p<.05).
- ^d The standard error is between 5 and 10 percentage points.
- ^e The standard error is greater than 10 percentage points.
- ^f Sites were chosen based on more than 100 SEER incidence cases between 2009-2013.
- ^g 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).</p>
- * The APC for 1995-2013 is significantly different from the APC for 1975-1994 (p<.05).</p>
- The APC for 1995-2013 is significantly different from the APC for 1975-1994 (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- 1990-1979 1984 1989 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012

Survival Time

1-year	80.5	84.5	86.7	89.6	90.4	92.7	90.9	90.7	91.1	92.5	92.0	91.5	93.3	92.7	92.5	94.0	92.3	92.5	92.2	93.0	95.1	93.6
2-year	70.9	75.5	78.4	83.0	84.6	86.5	84.7	84.3	85.3	86.0	86.9	87.3	89.2	88.3	87.9	89.3	87.8	88.1	86.6	89.5	90.9	
3-year	65.2	70.7	74.3	79.7	81.0	83.7	82.3	81.5	82.9	83.2	84.1	84.0	86.1	85.4	84.9	87.8	86.2	86.1	84.0	86.8		
4-year	62.0	67.5	71.9	77.6	79.0	80.9	80.5	78.8	81.4	81.6	82.5	82.4	85.2	83.9	83.4	86.4	84.7	84.2	83.1			
5-year	59.8	65.9	70.7	76.4	77.4	80.5	79.3	78.0	79.6	80.7	81.9	81.4	84.1	83.1	82.1	85.7	83.5	83.3				
6-year	58.1	64.7	69.7	75.8	76.4	79.8	78.4	76.6	79.1	79.5	81.1	80.6	83.7	82.8	81.1	85.0	82.1					
7-year	57.1	63.8	68.7	75.2	75.9	79.2	78.0	76.1	78.4	79.0	80.1	80.1	83.1	82.0	80.6	84.6						
8-year	56.4	63.1	68.2	74.7	75.0	78.7	76.9	75.7	78.1	78.3	80.0	79.5	82.4	81.4	79.9							
9-year	56.0	62.6	67.8	74.3	74.7	78.4	76.7	75.1	77.6	78.3	79.5	79.3	81.7	81.1								
10-year	55.8	62.1	67.4	74.1	74.6	78.1	76.1	74.8	77.2	78.0	79.4	78.8	81.6									
11-year	55.4	61.8	67.1	73.8	74.3	78.0	75.9	74.3	76.8	77.7	79.1	78.0										
12-year	55.1	61.2	66.8	73.6	74.1	77.9	75.6	74.1	76.7	77.7	79.0											
13-year	54.8	60.9	66.6	73.3	74.0	77.8	75.4	73.6	76.4	77.2												
14-year	54.5	60.6	66.2	73.1	74.0	77.6	75.3	73.6	76.4													
15-year	54.3	60.3	66.0	72.8	73.9	77.4	75.2	73.5														
16-year	53.9	60.1	65.8	72.5	73.2	77.4	75.0															
17-year	53.6	59.8	65.6	72.3	72.9	77.2																
18-year	53.3	59.5	65.4	72.1	72.8																	
19-year	53.0	59.3	65.3	71.9																		
20-year	52.9	59.1	65.0																			

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

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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 1990

 1979
 1984
 1989
 1994
 1995
 1996
 1997
 1998
 1999
 2000
 2001
 2002
 2003
 2004
 2005
 2006
 2007
 2008
 2009
 2010
 2011
 2012

 Survival Time

 1-year
 82.5
 85.7
 88.2
 90.2
 90.1
 93.1
 91.4
 91.7
 90.8
 91.2
 92.3
 92.3
 93.5
 92.4
 92.8
 94.1
 93.1
 93.6
 93.0
 95.3
 94.6

 2-year
 73.0
 77.2
 80.3
 83.3
 84.6
 87.5
 85.1
 85.3
 85.8
 84.3
 87.3
 87.3
 89.1
 88.0
 88.6
 89.0
 88.4
 89.3
 88.5
 89.4
 91.3

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3-year	67.9	72.4	76.5	80.0	81.3	85.1	82.0	82.5	83.0	81.9	84.3	84.1	86.2	84.7	86.0	87.3	86.6	87.1	86.0	86.8	
4-year	64.9	69.5	74.0	78.0	79.8	82.4	80.4	79.9	81.3	80.3	82.6	82.2	85.2	83.6	84.5	85.8	84.8	85.1	85.0		
5-year	62.8	67.8	72.9	76.7	78.4	81.8	78.8	78.8	79.8	79.2	81.8	81.1	84.1	82.4	83.3	85.0	83.5	83.8			
6-year	61.1	66.5	71.9	76.0	77.4	81.2	77.7	77.7	79.4	78.4	81.2	80.2	83.7	82.1	82.0	83.9	82.2				
7-year	60.3	65.7	71.1	75.4	76.9	80.8	77.5	77.4	78.9	77.7	80.2	79.8	83.1	81.4	81.6	83.4					
8-year	59.5	64.9	70.5	74.9	76.0	80.2	76.7	77.0	78.7	77.1	80.0	79.0	82.4	80.9	80.8						
9-year	59.0	64.3	70.0	74.5	75.7	79.8	76.5	76.5	78.3	77.0	79.6	78.7	82.0	80.4							
10-year	58.6	63.8	69.6	74.3	75.5	79.5	75.8	76.1	78.0	76.7	79.5	78.3	81.8								
11-year	58.3	63.5	69.3	74.0	75.4	79.3	75.7	75.7	77.7	76.6	79.3	77.7									
12-year	57.9	63.0	69.1	73.8	75.1	79.3	75.5	75.3	77.5	76.3	79.1										
13-year	57.7	62.7	68.8	73.4	75.0	79.1	75.2	74.9	77.2	75.9											
14-year	57.5	62.3	68.3	73.2	75.0	79.0	75.1	74.8	77.2												
15-year	57.2	62.1	68.1	73.0	74.9	78.8	74.9	74.8													
16-year	56.9	61.6	67.8	72.7	74.3	78.7	74.6														
17-year	56.6	61.4	67.6	72.5	74.1	78.4															
18-year	56.3	61.2	67.4	72.3	74.0																
19-year	56.1	60.9	67.1	72.0																	
20-year	55.8	60.6	66.8																		

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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, 2013

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 <20 ^e	0 to <38 ^e	>=38 ^f	Complete ^g
Race	<u>Sex</u>										
All Races ^b	Both Sexes	66,771	56,113	52,196	45,861	39,730	33,795	245,597	337,686	+	+
	Males	34,885	29,802	26,799	23,976	20,735	16,999	128,572	173,483	+	+
	Females	31,886	26,311	25,397	21,885	18,995	16,796	117,025	164,203	+	+
White ^b	Both Sexes	53,357	46,327	44,082	38,388	33,831	29,635	203,123	283,768	+	+
	Males	28,049	24,840	22,579	20,048	17,788	14,965	106,787	146,395	+	+
	Females	25,308	21,487	21,503	18,340	16,043	14,670	96,336	137,373	+	+
Black ^b	Both Sexes	8,264	6,170	5,071	4,649	3,813	2,673	26,476	34,244	+	+
	Males	4,181	3,169	2,583	2,372	1,909	1,283	13,479	16,982	+	+
	Females	4,083	3,001	2,488	2,277	1,904	1,390	12,997	17,262	+	+
Asian/	Both Sexes	2,933	2,281	1,967	+	+	+	9,192	+	+	+
Pacific	Males	1,518	1,179	1,053	+	+	+	4,778	+	+	+
Islander ^c	Females	1,415	1,102	914	+	+	+	4,414	+	+	+
Hispanic ^d	Both Sexes	14,118	10,853	8,919	+	+	+	42,077	+	+	+
	Males	7,461	6,089	4,733	+	+	+	22,698	+	+	+
	Females	6,657	4,764	4,186	+	+	+	19,379	+	+	+

- US 2013 cancer prevalence counts are based on 2013 cancer prevalence proportions from the SEER registries and 1/1/2013 US population estimates based on the average of 2012 and 2013 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 13 Areas excluding the Alaska Native Registry (d) NHIA for Hispanic for SEER 13 Areas excluding the Alaska Native Registry. Maximum limited-duration prevalence: 38 years for 1975-2013 SEER 9 data; 21 years for 1992-2013 SEER 13 data (excluding the Alaska Navtive Registry) used to calculate prevalence for Hispanics and Asian Pacific Islanders. (f) Cases diagnosed more than 38 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 <38 and >=38. Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval. Not available. а bcd

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+ Not available.

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

SEER Cancer Incidence^c 2009-2013

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Age <1			Age 1			Age 2		
Leukemia4.8271Leukemia6.7382Leukemia10.3598Acute Lymphocytic Leukemia2.0112Acute Lymphocytic Leukemia4.2243Acute Lymphocytic Leukemia9.1528Brain and ONS ⁴ 3.5138Kidney and Renal Pelvis2.1122Kidney and Renal Pelvis2.2128Soft Tissue3.5138Kidney and Renal Pelvis2.1122Kidney and Renal Pelvis2.2128Cher Endocrine2.6146Eye and Orbit1.587Soft Tissue1.482Age 3Acute Lymphocytic Leukemia1.5644Acute Lymphocytic Leukemia5.7335Acute Lymphocytic Leukemia1.15644Acute Lymphocytic Leukemia5.7335Acute Lymphocytic Leukemia1.1527Acute Lymphocytic Leukemia5.4244Acute Lymphocytic Leukemia4.8224Acute Lymphocytic Leukemia1.13597Acute Lymphocytic Leukemia6.2Acute Lymphocytic Leukemia4.8224Kidney and Renal Pelvis2.1122Kidney and Renal Pelvis1.481Non-Hodgkin Lymphoma1.8223Kidney and Renal Pelvis2.1122Kidney and Renal Pelvis1.057Soft Tissue3.410.5Soft Tissue1.162Non-Hodgkin Lymphoma0.848Acute Lymphocytic Leukemia3.410.634Leukemia1.270Acute Lymphocytic Leukemia <td></td> <td>Rate</td> <td>Cases</td> <td></td> <td>Rate</td> <td>Cases</td> <td></td> <td>Rate</td> <td>Cases</td>		Rate	Cases		Rate	Cases		Rate	Cases
Acute Lymphocytic Leukemia2.0112Acute Lymphocytic Leukemia4.22.43Acute Lymphocytic Leukemia9.1528Brain and ONS ⁴ 3.5198Kidney and Renal Pelvis2.1122Kidney and Renal Pelvis2.2128Eye and Orbit3.2181Soft Tissue1.799Eye and Orbit1.584Other Endocrine2.6146Eye and Orbit1.587Soft Tissue1.482Age 3Age 4Age 4Age 5All Sites23.41.553All Sites18.11.059All Sites14.4842Leukemia1.5664Leukemia8.5495Leukemia5.7335Acute Lymphocytic Leukemia 1.3597Acute Lymphocytic Leukemia 7.6442Acute Lymphocytic Leukemia 4.8264Brain and ONS ⁴ 4.1236Brain and ONS ⁴ 3.6212Brain and ONS ⁴ 3.8223Other Endocrine1.373Soft Tissue1.057Kidney and Renal Pelvis1.057Soft Tissue1.162Non-Hodgkin Lymphoma0.848Soft Tissue3.4106Acute Lymphocytic Leukemia 4.2243Acute Lymphocytic Leukemia 3.410657Soft Tissue1.481Brain and ONS ⁴ 4.1226Brain and ONS ⁴ 3.6212Brain and ONS ⁴ 3.6224Brain and ONS ⁴ 1.6674Acute Lymphocytic Leukemia1.057<	All Sites	23.6	1,341	All Sites	21.5	1,233	All Sites	24.4	1,413
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Leukemia	4.8	271	Leukemia	6.7	382	Leukemia	10.3	598
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Acute Lymphocytic Leukemia	2.0	112	Acute Lymphocytic Leukemia	4.2	243	Acute Lymphocytic Leukemia	9.1	528
Eye and Orbit 3.2 181 Soft Tissue 1.7 99 Eye and Orbit 1.5 84 Other Endocrine 2.6 146 Eye and Orbit 1.5 87 Soft Tissue 1.4 82 Age 3 Age 4 Age 4 Age 5 Age 5 All Sites 1.4.4 82 All Sites 23.4 1.35 All Sites 18.1 1.059 All Sites 14.4 842 Acute Lymphocytic Leukemia 10.3 597 Acute Lymphocytic Leukemia 7.6 442 Acute Lymphocytic Leukemia 4.8 284 Brain and ONS ^d 4.1 225 Kidney and Renal Pelvis 1.1 62 Non-Hodgkin Lymphoma 1.0 57 Soft Tissue 1.1 62 Non-Hodgkin Lymphoma 0.8 48 Soft Tissue 0.6 34 Leukenia 1.4 81 Sites 1.1 662 All Sites 1.1.4 662 Acute Lymphocytic Leukemia 3.3 252 Acute Lymphocytic Leukemia 3.3 10 Soft Tissue 3.6 21 3.6 22	Brain and ONS ^d	3.7	213	Brain and ONS ^d	4.2	241	Brain and ONS ^d	4.8	275
Other Endocrine 2.6 146 Eye and Orbit 1.5 87 Soft Tissue 1.4 82 Age 3 Age 4 Age 4 Age 4 Age 5 All Sites Rate Cases Rate Cases 1.4 82 Acute Lymphocytic Leukemia 1.5 664 Leukemia 8.5 495 Leukemia 5.7 335 Acute Lymphocytic Leukemia 1.3 73 Soft Tissue 1.4 82 223 Other Endocrine 1.3 73 Soft Tissue 1.0 57 Soft Tissue 0.6 34 Age 6 Age 6 Age 7 Age 7 Age 8 Acute Lymphocytic Leukemia 3.8 223 Acute Lymphocytic Leukemia 4.3 2.6 Age 7 Age 8 Acute Lymphocytic Leukemia 3.4 10 57 Soft Tissue 1.1 662 Leukemia 3.9 225 Leukemia 3.4 106 Acute Lymphocytic Leukemia 4.3 252 Acute Lymphocytic	Soft Tissue	3.5	198	Kidney and Renal Pelvis	2.1	122	Kidney and Renal Pelvis	2.2	128
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Eye and Orbit	3.2	181	Soft Tissue	1.7	99	Eye and Orbit	1.5	84
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Other Endocrine	2.6	146	Eye and Orbit	1.5	87	Soft Tissue	1.4	82
All Sites23.41.353All Sites18.11.059All Sites14.4442Leukemia11.5664Leukemia8.5495Leukemia5.7335Acute Lymphocytic Leukemia10.3597Acute Lymphocytic Leukemia7.6442Acute Lymphocytic Leukemia4.8284Brain and ONS ^d 4.1236Brain and ONS ^d 3.6212Brain and ONS ^d 3.8223Kidney and Renal Pelvis1.181811.481Non-Hodgkin Lymphoma1.059Other Endocrine1.373Soft Tissue1.057Kidney and Renal Pelvis1.057Soft Tissue1.162Non-Hodgkin Lymphoma0.848Soft Tissue0.634Age 6Age 7Acute Lymphocytic Leukemia3.9225Leukemia3.4196Acute Lymphocytic Leukemia4.3252Acute Lymphocytic Leukemia3.3190Acute Lymphocytic Leukemia2.911.4Brain and ONS ^d 4.0233Brain and ONS ^d 3.5201Brain and ONS ^d 3.2188Non-Hodgkin Lymphoma1.270Non-Hodgkin Lymphoma1.060Non-Hodgkin Lymphoma1.267Kidney and Renal Pelvis0.635Bones and Joints0.529Soft Tissue0.635Leukemia3.7212CasesAll Sites11.8688All Sites1.	Age 3			Age 4			Age 5		
Leukemia11.5664Leukemia8.5495LeukemiaLeukemia5.7335Acute Lymphocytic Leukemia10.3597Acute Lymphocytic Leukemia7.6442Acute Lymphocytic Leukemia4.8284Brain and ONS ⁴ 4.1236Brain and ONS ⁴ 3.6212Brain and ONS ⁴ 3.8223Kidney and Renal Pelvis2.1122Kidney and Renal Pelvis1.481Non-Hodgkin Lymphoma1.059Other Endocrine1.373Soft Tissue1.057Kidney and Renal Pelvis1.057Soft Tissue1.162Non-Hodgkin Lymphoma0.848Soft Tissue0.634Leukemia4.9288Leukemia3.9225Acute Lymphocytic Leukemia3.11067Acute Lymphocytic Leukemia4.3252Acute Lymphocytic Leukemia3.5201Brain and ONS ⁴ 3.211.4Non-Hodgkin Lymphoma1.060Non-Hodgkin Lymphoma1.2677118Ridney and Renal Pelvis0.847Soft Tissue0.844Bones and Joints0.635Non-Hodgkin Lymphoma0.635Bones and Joints0.635201Brain and ONS ⁴ 3.2188Brain and ONS ⁴ 0.847Soft Tissue0.844Bones and Joints0.636Bones and Joints0.635Bones and Joints0.529Soft Tissue0.		Rate	Cases		Rate	Cases		Rate	Cases
Acute Lymphocytic Leukemia10.3597 4.1Acute Lymphocytic Leukemia7.6442 4.1Acute Lymphocytic Leukemia4.8284 284 Brain and ONS ^d Sidney and Renal Pelvis2.1122 1.3Kidney and Renal Pelvis1.481 8.6Non-Hodgkin Lymphoma1.057 8.6Other Endocrine1.373 1.162Soft Tissue1.057 8.6Kidney and Renal Pelvis1.057 8.6Age 6Age 7Age 7Age 8Acute Lymphocytic Leukemia4.3252 2.2Acute Lymphocytic Leukemia3.9 2.5225 2.2Acute Lymphocytic Leukemia3.4196 6.674Acute Lymphoma1.270 8.74Non-Hodgkin Lymphoma1.060 8.674Non-Hodgkin Lymphoma1.267 8.2Non-Hodgkin Lymphoma1.270 8.66Non-Hodgkin Lymphoma1.060 8.66Non-Hodgkin Lymphoma1.267 8.66Age 9Age 10Age 10Age 11Acute Lymphocytic Leukemia3.1182 8.6636 8.6636 8.6635Acute Lymphocytic Leukemia2.9165 8.76Acute Lymphocytic Leukemia3.1182 8.68Acute Lymphocytic Leukemia2.8Acute Lymphocytic Leukemia2.9165 8.77Acute Lymphocytic Leukemia3.1182 8.66Acute Lymphocytic Leukemia2.8Acute Lymphocytic Leukemia2.9165 8.77Acute Lymphocytic Leukemia3.4106 8.6836Acute Lymphoc	All Sites	23.4	1,353	All Sites	18.1	1,059	All Sites	14.4	842
Brain and ONS^d 4.1236Brain and ONS^d 3.6212Brain and ONS^d 3.8223Kidney and Renal Pelvis2.1122Kidney and Renal Pelvis1.481Non-Hodgkin Lymphoma1.059Soft Tissue1.162Non-Hodgkin Lymphoma0.848Soft Tissue0.634Age 6Age 7Age 7Age 8All Sites 14.1 821All Sites 11.6 674 All Sites 11.4 662 Acute Lymphocytic Leukemia 3.3 9 225 Leukemia 3.3 100 Acute Lymphocytic Leukemia 3.4 2.9 171 Brain and ONS^d 3.6 212 Brain and ONS^d 3.6 212 Age 8Age 7Age 8Age 7Age 8All Sites 11.6 674 41 Steps 11.4 662 Acute Lymphocytic Leukemia 3.3 190 Acute Lymphocytic Leukemia 2.9 171 Brain and ONS^d 3.6 212 $Cases$ 11.4 662 Age 8Acute Lymphocytic Leukemia 3.6 212 $Rate$ $Cases$ All Sites 11.6 674 41 $Soft Tissue$ 0.8 44 Bones and Joints 0.6 35	Leukemia	11.5	664	Leukemia	8.5	495	Leukemia	5.7	335
Brain and ONS^d 4.1 236 Brain and ONS^d 3.6 212 Brain and ONS^d 3.6 223 Kidney and Renal Pelvis 1.1 122 Kidney and Renal Pelvis 1.4 81 Non-Hodgkin Lymphoma 1.0 59 Soft Tissue 1.1 62 Non-Hodgkin Lymphoma 0.8 48 Soft Tissue 0.6 34 Age 6 Age 7 Age 8 All Sites 14.1 821 Aute Lymphocytic Leukemia 3.9 225 Leukemia 3.4 11.4 66 Acute Lymphocytic Leukemia 4.3 252 Acute Lymphocytic Leukemia 3.3 190 Acute Lymphocytic Leukemia 2.9 171 Brain and ONS ⁴ 0.6 35 Bones and Joints 0.6 36 218 67 Acute Lymphocytic Leukemia 3.4 196 Acute Lymphocytic Leukemia 2.9 171 Brain and ONS ⁴ 0.6 35 Bones and Joints 0.5 29 Soft Tissue 0.6 36 Non-Hodgkin Lymphoma 1.2 70 Non-Hodgkin Lymphoma 1.0	Acute Lymphocytic Leukemia	10.3	597	Acute Lymphocytic Leukemia	7.6	442	Acute Lymphocytic Leukemia	4.8	284
Other Endocrine1.373 Soft TissueSoft Tissue1.057 Soft TissueKidney and Renal Pelvis1.057 Soft TissueSoft Tissue1.057 Soft TissueSoft Tissue1.057 Soft TissueSoft Tissue1.057 Soft TissueSoft Tissue1.057 Soft TissueSoft Tissue1.057 Soft TissueSoft Tissue0.634Age 6Age 7Age 7Age 8Age 7Age 8Age 9Age 8Age 8Age 9Age 8Age 9Age 10Age 10Acute Lymphocytic Leukemia 3.3190 Acute Lymphocytic Leukemia 1.2Age 11Age 11 <td>Brain and ONS^d</td> <td>4.1</td> <td>236</td> <td></td> <td>3.6</td> <td>212</td> <td>Brain and ONS^d</td> <td>3.8</td> <td>223</td>	Brain and ONS ^d	4.1	236		3.6	212	Brain and ONS ^d	3.8	223
Soft Tissue1.162Non-Hodgkin Lymphoma0.848Soft Tissue0.634Age 6Age 7Age 8All Sites14.1821All Sites11.6674All Sites11.4662Leukemia4.9288Leukemia3.9225Leukemia3.4196Acute Lymphocytic Leukemia4.3252Acute Lymphocytic Leukemia3.110Acute Lymphocytic Leukemia3.2188Non-Hodgkin Lymphoma1.270Non-Hodgkin Lymphoma1.060Non-Hodgkin Lymphoma1.267Kidney and Renal Pelvis0.847Soft Tissue0.844Bones and Joints0.635Age 9Age 10Age 10Age 11Leukemia3.1182Brain and ONS ^d 2.9167Acute Lymphocytic Leukemia2.9165Acute Lymphocytic Leukemia2.4141Leukemia2.8161Brain and ONS ^d 2.9169Brain and ONS ^d 2.8163Acute Lymphocytic Leukemia2.8161Brain and ONS ^d 2.9169Brain and ONS ^d 2.8163Acute Lymphocytic Leukemia1.8108Non-Hodgkin Lymphoma1.584Non-Hodgkin Lymphoma1.268Acute Lymphocytic Leukemia1.8108Non-Hodgkin Lymphoma1.055Bones and Joints1.061Non-Hodgkin Lymphoma1.271	Kidney and Renal Pelvis	2.1	122	Kidney and Renal Pelvis	1.4	81	Non-Hodgkin Lymphoma	1.0	59
Age 6Age 7Age 8All Sites14.1821All Sites11.6674All Sites11.4662Leukemia4.9288Leukemia3.9225Leukemia3.4196Acute Lymphocytic Leukemia4.0233Brain and ONS ^d 3.5201Brain and ONS ^d 3.2188Non-Hodgkin Lymphoma1.270Non-Hodgkin Lymphoma1.060Non-Hodgkin Lymphoma1.267Kidney and Renal Pelvis0.847Soft Tissue0.844Bones and Joints0.635Age 9Age 10Age 10Age 11Age 11Age 11Age 11Acute Lymphocytic Leukemia3.7212Leukemia3.1182Brain and ONS ^d 2.9167Acute Lymphocytic Leukemia2.9165Acute Lymphocytic Leukemia2.4141Leukemia2.8161Acute Lymphorytic Leukemia2.9169Brain and ONS ^d 2.8163Acute Lymphocytic Leukemia2.8161Brain and ONS ^d 2.9169Brain and ONS ^d 2.8163Acute Lymphocytic Leukemia2.8161Brain and ONS ^d 2.9169Brain and ONS ^d 2.8163Acute Lymphocytic Leukemia2.8161Brain and ONS ^d 2.9169Brain and ONS ^d 2.8163Acute Lymphocytic Leukemia1.271Non-Hodgkin Lymphoma1.584Non-Hodgkin Lymphoma1.268Bones	Other Endocrine	1.3	73	Soft Tissue	1.0	57	Kidney and Renal Pelvis	1.0	57
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Brain and ONSd2.9169Brain and ONSd2.8163Acute Lymphocytic Leukemia1.8108Non-Hodgkin Lymphoma1.584Non-Hodgkin Lymphoma1.268Bones and Joints1.273Bones and Joints1.055Bones and Joints1.061Non-Hodgkin Lymphoma1.271	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Kidney and Renal Pelvis Bones and Joints Age 9	14.1 4.9 4.3 4.0 1.2 0.8 0.6	821 288 252 233 70 47 35 <u>Cases</u>	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints Age 10	11.6 3.9 3.3 3.5 1.0 0.8 0.5 Rate	674 225 190 201 60 44 29 <u>Cases</u>	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Bones and Joints Soft Tissue Age 11	11.4 3.4 2.9 3.2 1.2 0.6 0.6 Rate	662 196 171 188 67 36 35 <u>Cases</u>
Non-Hodgkin Lymphoma1.584Non-Hodgkin Lymphoma1.268Bones and Joints1.273Bones and Joints1.055Bones and Joints1.061Non-Hodgkin Lymphoma1.271	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Kidney and Renal Pelvis Bones and Joints <u>Age 9</u> All Sites	14.1 4.9 4.3 4.0 1.2 0.8 0.6	821 288 252 233 70 47 35 <u>Cases</u> 693	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints <u>Age 10</u> All Sites	11.6 3.9 3.3 3.5 1.0 0.8 0.5 <u>Rate</u> 11.8	674 225 190 201 60 44 29 <u>Cases</u> 688	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Bones and Joints Soft Tissue <u>Age 11</u> All Sites	11.4 3.4 2.9 3.2 1.2 0.6 0.6 Rate 11.9	662 196 171 188 67 36 35 <u>Cases</u> 699
Bones and Joints 1.0 55 Bones and Joints 1.0 61 Non-Hodgkin Lymphoma 1.2 71	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Kidney and Renal Pelvis Bones and Joints <u>Age 9</u> All Sites Leukemia	14.1 4.9 4.3 4.0 1.2 0.8 0.6	821 288 252 233 70 47 35 <u>Cases</u> 693 212	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints <u>Age 10</u> All Sites Leukemia	11.6 3.9 3.3 3.5 1.0 0.8 0.5 <u>Rate</u> 11.8 3.1	674 225 190 201 60 44 29 <u>Cases</u> 688 182	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Bones and Joints Soft Tissue <u>Age 11</u> All Sites Brain and ONS ^d	11.4 3.4 2.9 3.2 1.2 0.6 0.6 0.6 <u>Rate</u> 11.9 2.9	662 196 171 188 67 36 35 <u>Cases</u> 699 167
	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Kidney and Renal Pelvis Bones and Joints <u>Age 9</u> All Sites Leukemia Acute Lymphocytic Leukemia	14.1 4.9 4.3 4.0 1.2 0.8 0.6 <u>Rate</u> 12.0 3.7 2.9	821 288 252 233 70 47 35 <u>Cases</u> 693 212 165	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints <u>Age 10</u> All Sites Leukemia Acute Lymphocytic Leukemia	11.6 3.9 3.3 3.5 1.0 0.8 0.5	674 225 190 201 60 44 29 <u>Cases</u> 688 182 141	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Bones and Joints Soft Tissue <u>Age 11</u> All Sites Brain and ONS ^d Leukemia	11.4 3.4 2.9 3.2 1.2 0.6 0.6 0.6 11.9 2.9 2.8	662 196 171 188 67 36 35 <u>Cases</u> 699 167 161
Hodgkin Lymphoma 0.7 40 Soft Tissue 0.8 46 Hodgkin Lymphoma 0.7 42	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Kidney and Renal Pelvis Bones and Joints <u>Age 9</u> All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d	14.1 4.9 4.3 4.0 1.2 0.8 0.6	821 288 252 233 70 47 35 <u>Cases</u> 693 212 165 169	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints <u>Age 10</u> All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d	11.6 3.9 3.3 3.5 1.0 0.8 0.5	674 225 190 201 60 44 29 <u>Cases</u> 688 182 141 163	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Bones and Joints Soft Tissue <u>Age 11</u> All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia	11.4 3.4 2.9 3.2 1.2 0.6 0.6 11.9 2.9 2.8 1.8	662 196 171 188 67 36 35 <u>Cases</u> 699 167 161 108
	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Kidney and Renal Pelvis Bones and Joints <u>Age 9</u> All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma	14.1 4.9 4.3 4.0 1.2 0.8 0.6 Rate 12.0 3.7 2.9 2.9 1.5	821 288 252 233 70 47 35 <u>Cases</u> 693 212 165 169 84	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Soft Tissue Bones and Joints <u>Age 10</u> All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma	11.6 3.9 3.3 3.5 1.0 0.8 0.5	674 225 190 201 60 44 29 <u>Cases</u> 688 182 141 163 68	All Sites Leukemia Acute Lymphocytic Leukemia Brain and ONS ^d Non-Hodgkin Lymphoma Bones and Joints Soft Tissue <u>Age 11</u> All Sites Brain and ONS ^d Leukemia Acute Lymphocytic Leukemia Bones and Joints	11.4 3.4 2.9 3.2 1.2 0.6 0.6 11.9 2.9 2.8 1.8 1.2	662 196 171 188 67 36 35 <u>Cases</u> 699 167 161 108 73

- а
- b
- Rates are per 100,000 per year. Top 5 cancer sites were determined based on the 2009-2013 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). с
- d
- ONS = Other Nervous System. IBD = Intrahepatic Bile Duct. The rates for sex-specific cancer sites are calculated using the population for both sexes combined. e
- _ 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 2009-2013

Age 12			Age 13			Age 14		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	13.8	814	All Sites	14.9	882	All Sites	16.5	979
Leukemia	3.3	195	Leukemia	3.4	202	Leukemia	3.7	220
Acute Lymphocytic Leukemia	2.3	136	Acute Lymphocytic Leukemia	2.1	127	Acute Lymphocytic Leukemia	2.4	145
Brain and ONS ^d	2.8	163	Brain and ONS ^d	2.4	140	Brain and ONS ^d	2.6	155
Bones and Joints	1.6	93	Bones and Joints	1.7	103	Hodgkin Lymphoma	1.7	99
Non-Hodgkin Lymphoma	1.3	78	Hodgkin Lymphoma	1.5	88	Non-Hodgkin Lymphoma	1.5	92
Hodgkin Lymphoma	1.2	71	Non-Hodgkin Lymphoma	1.4	85	Bones and Joints	1.5	88
Age 15			Age 16			Age 17		
	Rate	Cases		Rate	Cases		Rate	Cases
All Sites	19.1	1,146	All Sites	19.5	1,193	All Sites	23.3	1,444
Leukemia	3.4	206	Leukemia	3.3	199	Hodgkin Lymphoma	3.6	221
Acute Lymphocytic Leukemia	2.0	121	Acute Lymphocytic Leukemia	2.0	123	Leukemia	3.1	190
Brain and ONS ^d	2.4	147	Brain and ONS ^d	2.5	152	Acute Lymphocytic Leukemia	1.6	99
Hodgkin Lymphoma	2.3	138	Hodgkin Lymphoma	2.5	151	Thyroid	2.6	164
Non-Hodgkin Lymphoma	2.1	124	Thyroid	2.3	141	Brain and ONS ^d	2.5	153
Bones and Joints	2.0	119	Non-Hodgkin Lymphoma	1.4	86	Testis ^e	2.2	137
Age 18			Age 19					
	Rate	Cases		Rate	Cases			
All Sites	23.0	1,433	All Sites	25.9	1,603			
Thyroid	3.2	200	Thyroid	3.9	244			
Hodakin Lymphona	2 2	107	Hodakin Iumphoma	27	221			

	Rate	Cases
All Sites	23.0	1,433
Thyroid	3.2	200
Hodgkin Lymphoma	3.2	197
Leukemia	3.0	187
Acute Lymphocytic Leukemia	1.6	98
Testis ^e	2.9	178
Brain and ONS ^d	1.8	114

Age 19All SitesRateCasesAll Sites25.91,603Thyroid3.9244Hodgkin Lymphoma3.7231Testis^e3.0186Leukemia2.7168Acute Lymphocytic Leukemia1.381Brain and ONS^d1.9118

Rates are per 100,000 per year. Top 5 cancer sites were determined based on the 2009-2013 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.

National Cancer Institute

a b c

d e

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

U.S. Mortality^c 2009-2013

Age <1			Age 1			Age 2		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	1.7	333	All Sites	2.0	396	All Sites	2.1	418
Leukemia	0.6	114	Leukemia	0.8	162	Leukemia	0.7	149
Acute Lymphocytic Leukemia	0.1	27	Acute Lymphocytic Leukemia	0.3	54	Acute Lymphocytic Leukemia	0.2	38
Brain and ONS ^d	0.4	76	Brain and ONS ^d	0.4	84	Brain and ONS ^d	0.5	103
Other Endocrine	0.2	30	Other Endocrine	0.2	47	Other Endocrine	0.4	74
Soft Tissue	0.1	23	Soft Tissue	0.1	23	Soft Tissue	0.1	27
Liver & IBD^d	0.1	19	Liver & IBD ^d	0.1	21	Liver & IBD ^d	0.1	25
Age 3			Age 4			Age 5		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.5	498	All Sites	2.2	457	All Sites	2.5	509
Leukemia	0.7	142	Brain and ONS ^d	0.9	175	Brain and ONS ^d	1.1	229
Acute Lymphocytic Leukemia	0.3	51	Leukemia	0.5	104	Leukemia	0.6	121
Brain and ONS ^d	0.7	134	Acute Lymphocytic Leukemia	0.2	34	Acute Lymphocytic Leukemia	0.2	50
Other Endocrine	0.5	101	Other Endocrine	0.4	77	Other Endocrine	0.3	65
Liver & IBD ^d	0.1	28	Soft Tissue	0.1	28	Soft Tissue	0.1	22
Soft Tissue	0.1	25	Kidney and Renal Pelvis	0.1	24	Kidney and Renal Pelvis	0.1	19
Age 6			Age 7			Age 8		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.1	433	All Sites	2.1	417	All Sites	2.1	422
Brain and ONS ^d	0.9	183	Brain and ONS^d	0.8	170	Brain and ONS^d	0.9	179
Leukemia	0.4	79	Leukemia	0.5	107	Leukemia	0.5	101
Acute Lymphocytic Leukemia	0.2	36	Acute Lymphocytic Leukemia	0.3	57	Acute Lymphocytic Leukemia	0.3	53
Other Endocrine	0.4	73	Other Endocrine	0.2	48	Other Endocrine	0.2	38
Soft Tissue	0.1	22	Soft Tissue	0.1	26	Soft Tissue	0.2	32
Kidney and Renal Pelvis	0.1	21	Bones and Joints	-	-	Bones and Joints	-	-
Age 9			Age 10			Age 11		
	Rate	Deaths		Rate	Deaths		Rate	Deaths
All Sites	2.3	463	All Sites	2.0	409	All Sites	2.1	438
Brain and ONS ^d	0.9	175	Brain and ONS ^d	0.7	150	Brain and ONS ^d	0.7	138
Leukemia	0.5	109	Leukemia	0.6	118	Leukemia	0.6	127
Acute Lymphocytic Leukemia	0.3	54	Acute Lymphocytic Leukemia	0.3	60	Acute Lymphocytic Leukemia	0.3	65
Other Endocrine	0.2	46	Other Endocrine	0.2	34	Bones and Joints	0.2	43
Bones and Joints	0.2	42	Soft Tissue	0.2	32	Other Endocrine	0.2	35
Soft Tissue	0.2	36	Bones and Joints	0.2	31	Soft Tissue	0.2	33

а

- b
- Rates are per 100,000 per year. Deaths are for the entire United States over the time period 2009-2013. Top 5 cancer sites were determined based on the 2009-2013 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. С d
- е 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 2009-2013

Age 12			Age 13			Age 14	Age 14			
	Rate	Deaths		Rate	Deaths		Rate	Deaths		
All Sites	2.1	436	All Sites	2.1	441	All Sites	2.5	511		
Leukemia	0.7	135	Leukemia	0.6	125	Leukemia	0.8	156		
Acute Lymphocytic Leukemia	0.4	73	Acute Lymphocytic Leukemia	0.3	62	Acute Lymphocytic Leukemia	0.3	70		
Brain and ONS^d	0.6	119	Brain and ONS^d	0.5	114	Brain and ONS^d	0.6	117		
Bones and Joints	0.3	52	Bones and Joints	0.2	47	Bones and Joints	0.4	85		
Soft Tissue	0.2	38	Soft Tissue	0.2	46	Soft Tissue	0.2	50		
Non-Hodgkin Lymphoma	0.1	20	Non-Hodgkin Lymphoma	0.1	24	Other Endocrine	0.1	20		
Age 15			Age 16			Age 17				
	Rate	Deaths		Rate	Deaths		Rate	Deaths		
All Sites	2.6	553	All Sites	2.5	542	All Sites	2.9	622		
Leukemia	0.8	166	Leukemia	0.6	136	Leukemia	0.8	173		
Acute Lymphocytic Leukemia	0.3	64	Acute Lymphocytic Leukemia	0.2	51	Acute Lymphocytic Leukemia	0.3	74		
Brain and ONS ^d	0.6	118	Brain and ONS ^d	0.5	107	Bones and Joints	0.5	108		
Bones and Joints	0.4	74	Bones and Joints	0.5	102	Brain and ONS^d	0.5	107		
Soft Tissue	0.3	53	Soft Tissue	0.2	52	Soft Tissue	0.3	68		
Non-Hodgkin Lymphoma	0.1	29	Non-Hodgkin Lymphoma	0.1	31	Non-Hodgkin Lymphoma	0.1	29		
Age 18			Age 19							
	Rate	Deaths		Rate	Deaths					
All Sites	3.0	663	All Sites	3.4	759					
Leukemia	0.8	177	Leukemia	0.8	175					
Acute Lymphocytic Leukemia	0.3	74	Acute Lymphocytic Leukemia	0.3	62					
Bones and Joints	0.5	120	Brain and ONS^d	0.6	129					
Brain and ONS^d	0.4	94	Bones and Joints	0.5	108					

0.4

0.2

94

38

Rates are per 100,000 per year. Deaths are for the entire United States over the time perio

Soft Tissue

Non-Hodgkin Lymphoma

0.4

0.2

88

37

- Top 5 cancer sites were determined based on the 2009-2013 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.

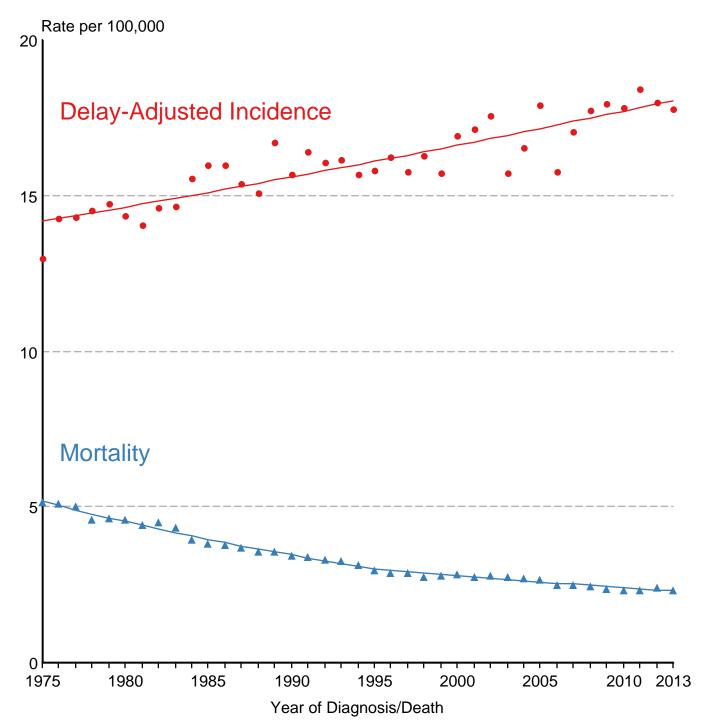
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b С d е _

Soft Tissue

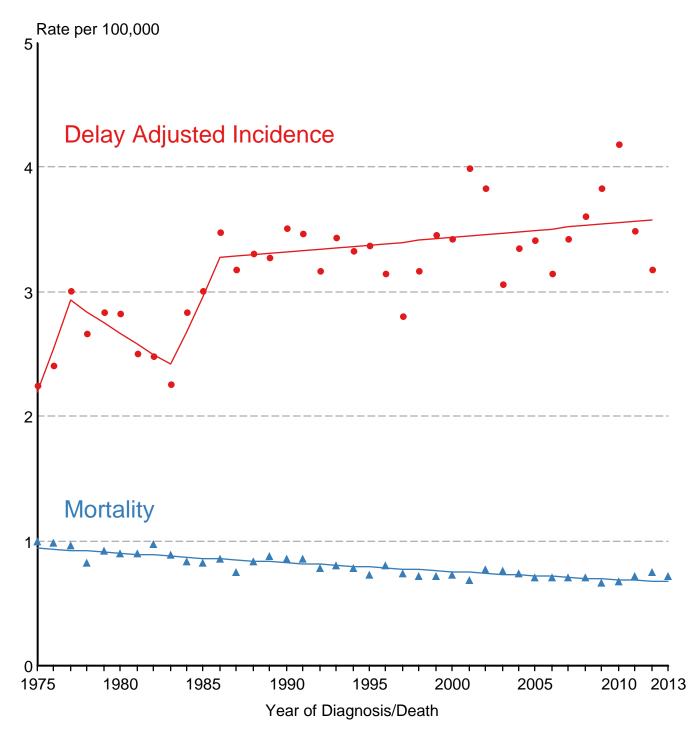
Non-Hodgkin Lymphoma

SEER Delay-Adjusted Incidence and US Mortality All Childhood Cancers, Under 20 Years of Age Both Sexes, All Races, 1975-2013



Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC). Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines are calculated using the Joinpoint Regression Program Version 4.3.0.0, April 2016, National Cancer Institute.

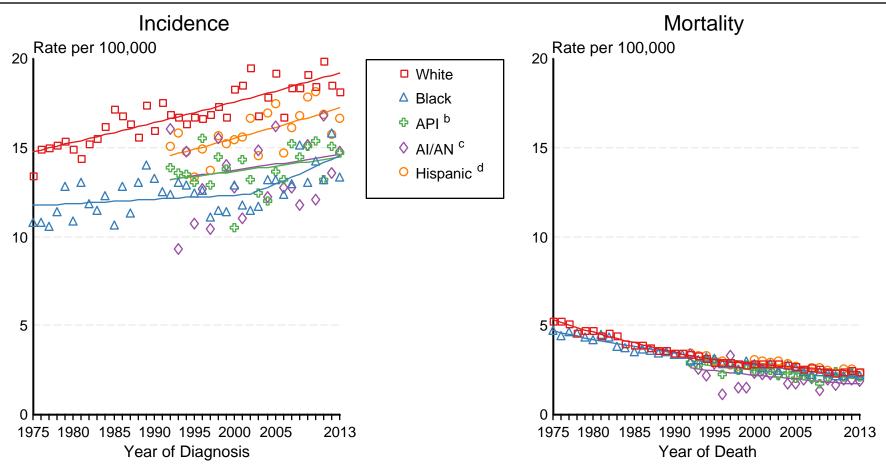
SEER Delay-Adjusted Incidence and US Mortality Brain and CNS, Under 15 Years of Age Both Sexes, All Races, 1975-2013



Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC). Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines are calculated using the Joinpoint Regression Program Version 4.3.0.0, April 2016, National Cancer Institute. Figure 28.3

SEER Incidence and US Death Rates^a All Cancer Sites, Ages <20, Both Sexes Joinpoint Analyses for Whites and Blacks from 1975-2013

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2013



Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 13 Areas (SEER 9 Areas, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Mortality data are from US Mortality Files, National Center for Health Statistics, CDC. ^a Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).

Regression lines are calculated using the Joinpoint Regression Program Version 4.3.0.0, April 2016, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2013 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 1992-2013 allow a maximum of 4 joinpoints. ^b API = Asian/Pacific Islander.

• 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 New Hampshire and Oklahoma.