

Table 28.9

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

Age/Site	SEER Incidence <sup>a</sup>					US Mortality <sup>b</sup>					5-year Relative Survival <sup>a</sup>	
	2009-2013		1975-2013	1975-1994	1995-2013	2009-2013		1975-2013	1975-1994	1995-2013	1975-1977	2006-2012
	Num Cases	Rate	APC	APC	APC	Num Deaths	Rate	APC	APC	APC		
<b>Ages 0-4</b>												
All Sites	6,399	22.2	0.7*	1.1*	0.5 <sup>®</sup>	2,102	2.1	-2.5*	-2.9*	-1.6* <sup>#</sup>	57.2	84.6 <sup>c</sup>
Soft tissue	498	1.7	1.2*	0.0	1.6	126	0.1	-1.6*	-1.6	0.0	62.0 <sup>d</sup>	82.8 <sup>c</sup>
Kidney and Renal pelvis	542	1.9	-0.3	0.6	-1.1	68	0.1	-	-5.9*	-	71.9	92.0 <sup>c</sup>
Eye and Orbit	403	1.4	0.1	1.9*	-0.4 <sup>#</sup>	19	0.0	-	-	-	87.2 <sup>d</sup>	94.6
Brain and Other nervous	1,177	4.1	1.1*	2.3*	0.5 <sup>#</sup>	572	0.6	-1.3*	-1.1*	-1.4*	52.0	72.6 <sup>c</sup>
Other endocrine <sup>g</sup>	414	1.4	-	-	-	329	0.3	-	-	-	35.7 <sup>d</sup>	78.9 <sup>c</sup>
Leukemia	2,410	8.3	0.8*	0.7	0.5	671	0.7	-2.8*	-3.6*	-1.8* <sup>#</sup>	55.4	89.2 <sup>c</sup>
Acute lymphocytic	1,922	6.7	0.8*	0.7*	0.3	204	0.2	-4.0*	-5.7*	-2.3* <sup>#</sup>	63.2	94.1 <sup>c</sup>
<b>Ages 5-9</b>												
All Sites	3,692	12.7	0.5*	0.5	0.9*	2,244	2.2	-2.4*	-3.2*	-1.1* <sup>#</sup>	58.3	83.4 <sup>c</sup>
Brain and Other nervous	1,014	3.5	0.6*	1.2	1.3*	936	0.9	-0.5*	-0.6	0.5 <sup>#</sup>	58.4	71.8 <sup>c</sup>
Leukemia	1,256	4.3	0.4*	0.9	0.1	517	0.5	-4.6*	-5.3*	-3.4* <sup>#</sup>	51.0	89.9 <sup>c</sup>
Acute lymphocytic	1,062	3.7	0.7*	1.1	0.3	250	0.2	-5.3*	-6.4*	-4.0* <sup>#</sup>	54.8	93.1 <sup>c</sup>
<b>Ages 10-14</b>												
All Sites	4,062	13.8	0.6*	1.0*	0.5	2,235	2.2	-2.0*	-2.5*	-1.3* <sup>#</sup>	58.6	85.3 <sup>c</sup>
Bone and Joint	418	1.4	0.2	1.2	0.6	258	0.2	-1.3*	-2.7*	-0.7 <sup>#</sup>	52.8 <sup>d</sup>	78.3 <sup>c</sup>
Brain and Other nervous	788	2.7	0.7*	1.9*	-0.5 <sup>#</sup>	638	0.6	-1.1*	-1.6*	-0.5 <sup>#</sup>	59.5	81.9 <sup>c</sup>
Hodgkin lymphoma	343	1.2	-0.5	-0.8	0.8	-	-	-	-	-	79.0	98.0 <sup>c</sup>
Leukemia	960	3.3	0.7*	0.7	1.1*	661	0.6	-2.9*	-3.1*	-2.6*	34.0	82.2 <sup>c</sup>
Acute lymphocytic	657	2.2	1.0*	1.5	1.4*	330	0.3	-3.3*	-3.5*	-3.1*	43.0 <sup>d</sup>	85.0 <sup>c</sup>
<b>Ages 15-19</b>												
All Sites	6,819	22.2	0.6*	0.9*	0.8*	3,139	2.9	-1.9*	-2.1*	-1.7* <sup>#</sup>	67.8	85.2 <sup>c</sup>
Bone and Joint	439	1.4	0.1	1.1	-0.3	512	0.5	-1.0*	-2.4*	-0.6 <sup>#</sup>	51.0 <sup>d</sup>	69.5 <sup>c</sup>
Melanoma of the skin	308	1.0	0.7*	2.0*	-0.6 <sup>®</sup>	24	0.0	-	-	-	76.2 <sup>d</sup>	95.1 <sup>c</sup>
Testis(males)	633	4.0	1.3*	1.8	1.6*	34	0.1	-	-	-	66.0 <sup>d</sup>	94.4 <sup>c</sup>
Brain and Other nervous	684	2.2	0.3	1.2	0.4	555	0.5	-1.1*	-1.0*	-0.6	65.3	77.1 <sup>c</sup>
Thyroid	854	2.8	2.4*	0.5	4.3* <sup>#</sup>	-	-	-	-	-	100.0	99.2
Hodgkin lymphoma	938	3.0	-0.6*	0.0	0.2	55	0.1	-	-4.2*	-	89.0	97.1 <sup>c</sup>
Non-Hodgkin lymphoma	545	1.8	1.3*	2.7*	0.5 <sup>#</sup>	164	0.2	-3.1*	-2.4*	-4.3* <sup>#</sup>	47.7 <sup>d</sup>	83.7 <sup>c</sup>
Leukemia	950	3.1	0.7*	0.7	0.6	827	0.8	-2.3*	-1.8*	-2.4*	23.8	76.4 <sup>c</sup>
Acute lymphocytic	522	1.7	1.0*	0.9	0.5	325	0.3	-2.4*	-1.6*	-3.0* <sup>#</sup>	30.0 <sup>d</sup>	81.8 <sup>c</sup>

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).

<sup>a</sup> 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).

<sup>b</sup> US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>c</sup> The difference between 1975-1977 and 2006-2012 is statistically significant (p<.05).

<sup>d</sup> The standard error is between 5 and 10 percentage points.

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

<sup>f</sup> Sites were chosen based on more than 100 SEER incidence cases between 2009-2013.

<sup>g</sup> 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 1995-2013 is significantly different from the APC for 1975-1994 (p<.05).

® 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.