

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>	
	2010-2014 Num Cases	2010-2014 Rate	1975-2014 APC	1975-1994 APC	1995-2014 APC	2010-2014 Num Deaths	2010-2014 Rate	1975-2014 APC	1975-1994 APC	1995-2014 APC	1975-1977	2007-2013
<b>Ages 0-4</b>												
All Sites	6,344	22.1	0.7*	1.1*	0.4 <sup>®</sup>	2,051	2.0	-2.5*	-2.9*	-1.7* <sup>#</sup>	57.2	84.4 <sup>c</sup>
Soft tissue	489	1.7	1.1*	1.3	1.3	123	0.1	-1.6*	-1.6	-0.2	62.0 <sup>d</sup>	82.2 <sup>c</sup>
Kidney and Renal pelvis	545	1.9	-0.1	0.6	-0.4	65	0.1	-	-5.9*	-	71.9	93.6 <sup>c</sup>
Eye and Orbit	396	1.4	0.0	1.9*	-0.7 <sup>#</sup>	21	0.0	-	-	-	87.2 <sup>d</sup>	95.0
Brain and Other nervous	1,175	4.1	1.1*	2.3*	0.6 <sup>#</sup>	575	0.6	-1.3*	-1.1*	-1.5*	52.0	71.7 <sup>c</sup>
Other endocrine <sup>g</sup>	427	1.5	-	-	-	319	0.3	-	-	-	35.7 <sup>d</sup>	76.7 <sup>c</sup>
Leukemia	2,375	8.3	0.7*	0.7	0.4	638	0.6	-2.8*	-3.6*	-1.9* <sup>#</sup>	55.4	88.9 <sup>c</sup>
Acute lymphocytic	1,896	6.6	0.7*	0.7*	0.2	197	0.2	-4.0*	-5.7*	-2.4* <sup>#</sup>	63.2	94.0 <sup>c</sup>
<b>Ages 5-9</b>												
All Sites	3,706	12.7	0.5*	0.5	0.9*	2,203	2.2	-2.4*	-3.2*	-1.1* <sup>#</sup>	58.4	83.0 <sup>c</sup>
Brain and Other nervous	996	3.4	0.5*	1.2	0.9	931	0.9	-0.5*	-0.6	0.5 <sup>#</sup>	59.1	70.9 <sup>c</sup>
Leukemia	1,258	4.3	0.4*	0.9	0.2	487	0.5	-4.6*	-5.3*	-3.5* <sup>#</sup>	51.0	88.7 <sup>c</sup>
Acute lymphocytic	1,064	3.6	0.7*	1.1	0.2	238	0.2	-5.2*	-6.4*	-4.0* <sup>#</sup>	54.8	91.5 <sup>c</sup>
<b>Ages 10-14</b>												
All Sites	4,129	14.0	0.7*	0.9*	0.6*	2,232	2.2	-2.0*	-2.5*	-1.3* <sup>#</sup>	58.7	85.9 <sup>c</sup>
Bone and Joint	426	1.4	0.3	1.2	1.0	266	0.3	-1.2*	-2.7*	-0.4 <sup>#</sup>	52.8 <sup>d</sup>	76.8 <sup>c</sup>
Brain and Other nervous	787	2.7	0.7*	1.9*	-0.4 <sup>#</sup>	658	0.6	-1.0*	-1.6*	-0.5 <sup>#</sup>	59.5	84.3 <sup>c</sup>
Hodgkin lymphoma	332	1.1	-0.5*	-0.8	0.6	-	-	-	-	-	79.0	97.9 <sup>c</sup>
Leukemia	962	3.3	0.7*	0.7	1.1*	631	0.6	-2.9*	-3.1*	-2.9*	34.0	82.5 <sup>c</sup>
Acute lymphocytic	661	2.2	1.0*	1.5	1.4*	316	0.3	-3.3*	-3.5*	-3.1*	43.0 <sup>d</sup>	85.1 <sup>c</sup>
<b>Ages 15-19</b>												
All Sites	6,844	22.5	0.6*	0.9*	1.0*	3,107	2.9	-1.9*	-2.1*	-1.6* <sup>#</sup>	67.8	85.4 <sup>c</sup>
Bone and Joint	421	1.4	0.2	1.1	0.0	506	0.5	-1.0*	-2.4*	-0.6 <sup>#</sup>	51.0 <sup>d</sup>	68.8 <sup>c</sup>
Melanoma of the skin	288	0.9	0.6	2.0*	-1.0 <sup>#</sup>	28	0.0	-	-	-	76.2 <sup>d</sup>	96.3 <sup>c</sup>
Testis(males)	618	4.0	1.2*	1.8	1.2	35	0.1	-	-	-	66.0 <sup>d</sup>	93.9 <sup>c</sup>
Brain and Other nervous	707	2.3	0.5	1.2	1.0	574	0.5	-1.0*	-1.0*	-0.1 <sup>®</sup>	65.3	76.8 <sup>c</sup>
Thyroid	880	2.9	2.5*	0.5	4.4* <sup>#</sup>	-	-	-	-	-	100.0	99.2
Hodgkin lymphoma	924	3.0	-0.5*	0.0	0.2	46	0.0	-	-4.2*	-	89.0	97.1 <sup>c</sup>
Non-Hodgkin lymphoma	567	1.9	1.5*	2.7*	1.2	157	0.1	-3.1*	-2.4*	-4.3* <sup>#</sup>	47.7 <sup>d</sup>	86.1 <sup>c</sup>
Leukemia	981	3.2	0.7*	0.7	0.6	815	0.8	-2.3*	-1.8*	-2.4*	23.8	73.8 <sup>c</sup>
Acute lymphocytic	542	1.8	0.9*	0.9	0.4	325	0.3	-2.4*	-1.6*	-2.9* <sup>#</sup>	30.0 <sup>d</sup>	81.1 <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 2007-2013 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 2010-2014.

<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 1995-2014 is significantly different from the APC for 1975-1994 (p<.05).

® The APC for 1995-2014 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.