

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>	
	2013-2017 Num Cases	2013-2017 Rate	1975-2017 APC	1975-1996 APC	1997-2017 APC	2013-2017 Num Deaths	2013-2017 Rate	1975-2017 APC	1975-1996 APC	1997-2017 APC	1975-1978	2010-2016
<b>Ages 0-4</b>												
All Sites	8,101	22.1	0.6*	1.0*	0.3 <sup>#</sup>	1,998	2.0	-2.4*	-3.0*	-1.4* <sup>#</sup>	57.2	85.9 <sup>c</sup>
Soft tissue	580	1.6	0.6*	0.7	0.0	150	0.2	-1.1*	-2.1*	0.7 <sup>#</sup>	62.0 <sup>d</sup>	86.4 <sup>c</sup>
Kidney and Renal pelvis	693	1.9	-0.1	0.1	-0.1	73	0.1	-	-5.3*	-	71.9	95.5 <sup>c</sup>
Eye and Orbit	499	1.4	0.4*	1.0	0.1	24	0.0	-	-	-	87.2 <sup>d</sup>	95.3
Brain and Other nervous	1,551	4.2	0.6*	1.5*	0.1 <sup>#</sup>	520	0.5	-1.3*	-1.0*	-1.3*	52.0	73.1 <sup>c</sup>
Other endocrine <sup>g</sup>	566	1.5	-	-	-	282	0.3	-	-	-	35.7 <sup>d</sup>	75.1 <sup>c</sup>
Leukemia	2,969	8.1	0.8*	1.2*	0.4* <sup>#</sup>	632	0.6	-2.7*	-3.5*	-1.4* <sup>#</sup>	55.4	90.2 <sup>c</sup>
Acute lymphocytic	2,367	6.5	0.7*	1.3*	0.2 <sup>#</sup>	202	0.2	-3.7*	-5.5*	-2.1* <sup>#</sup>	63.2	94.4 <sup>c</sup>
<b>Ages 5-9</b>												
All Sites	4,851	13.0	0.6*	0.3	0.8*	2,187	2.1	-2.3*	-3.3*	-1.1* <sup>#</sup>	58.5	86.4 <sup>c</sup>
Brain and Other nervous	1,300	3.5	0.5*	0.3	0.3	958	0.9	-0.4*	-0.7*	0.5* <sup>#</sup>	59.1	73.4 <sup>c</sup>
Leukemia	1,584	4.2	0.7*	1.1*	0.6*	455	0.4	-4.5*	-5.2*	-3.2* <sup>#</sup>	51.0	91.9 <sup>c</sup>
Acute lymphocytic	1,342	3.6	0.9*	1.5*	0.6*	230	0.2	-5.1*	-6.2*	-3.6* <sup>#</sup>	54.8	92.5 <sup>c</sup>
<b>Ages 10-14</b>												
All Sites	5,841	15.5	0.9*	0.7*	1.2*	2,160	2.1	-1.9*	-2.5*	-1.2* <sup>#</sup>	58.7	84.6 <sup>c</sup>
Bone and Joint	589	1.6	0.5*	0.4	1.1*	285	0.3	-1.1*	-2.7*	-0.3 <sup>#</sup>	52.9 <sup>d</sup>	67.2 <sup>c</sup>
Brain and Other nervous	1,104	2.9	0.5*	1.5*	0.4 <sup>@</sup>	675	0.7	-0.9*	-1.6*	-0.2 <sup>#</sup>	59.5	85.1 <sup>c</sup>
Hodgkin lymphoma	473	1.3	-0.4*	-1.3*	0.1 <sup>@</sup>	-	-	-	-	-	79.0	99.4 <sup>c</sup>
Leukemia	1,277	3.4	1.1*	1.1	1.3*	568	0.5	-2.9*	-3.1*	-2.9*	34.0	81.2 <sup>c</sup>
Acute lymphocytic	876	2.3	1.3*	1.8*	1.2*	264	0.3	-3.4*	-3.4*	-3.1*	43.0 <sup>d</sup>	86.6 <sup>c</sup>
<b>Ages 15-19</b>												
All Sites	9,368	24.2	0.6*	0.7*	1.0*	2,978	2.8	-1.9*	-2.1*	-1.7* <sup>#</sup>	67.9	86.4 <sup>c</sup>
Bone and Joint	585	1.5	-0.1	0.4	-0.5	539	0.5	-0.9*	-2.1*	-0.3 <sup>#</sup>	51.0 <sup>d</sup>	66.1 <sup>c</sup>
Melanoma of the skin	339	0.9	-0.7	1.4	-4.1* <sup>#</sup>	27	0.0	-	-	-	76.2 <sup>d</sup>	97.2 <sup>c</sup>
Testis(males)	730	3.7	1.2*	1.5*	1.1*	29	0.1	-	-	-	66.0 <sup>d</sup>	94.5 <sup>c</sup>
Brain and Other nervous	909	2.3	0.4*	0.9	1.0	564	0.5	-1.0*	-1.1*	-0.3 <sup>@</sup>	65.3	77.4 <sup>c</sup>
Thyroid	1,296	3.3	2.5*	0.8	4.6* <sup>#</sup>	-	-	-	-	-	100.0	99.8
Hodgkin lymphoma	1,256	3.2	-0.7*	-0.7	-0.1	36	0.0	-	-4.0*	-	89.0	97.5 <sup>c</sup>
Non-Hodgkin lymphoma	822	2.1	1.3*	2.0*	1.3*	152	0.1	-3.2*	-2.5*	-4.3* <sup>#</sup>	47.7 <sup>d</sup>	88.2 <sup>c</sup>
Leukemia	1,252	3.2	1.2*	0.9*	1.1*	759	0.7	-2.3*	-2.1*	-2.8* <sup>@</sup>	23.8	71.8 <sup>c</sup>
Acute lymphocytic	696	1.8	1.5*	1.8*	1.1*	313	0.3	-2.4*	-1.9*	-3.0* <sup>@</sup>	30.0 <sup>d</sup>	73.6 <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 21 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey, Georgia excluding ATL/RG, Idaho, New York and Massachusetts). Incidence 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 1975-1978 and 2010-2016 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 2013-2017.

<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).

<sup>#</sup> The APC for 1997-2017 is significantly different from the APC for 1975-1996 (p<.05).

<sup>@</sup> The APC for 1997-2017 is significantly different from the APC for 1975-1996 (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.