

Table 28.9

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

Age/Site	SEER Incidence ^a					US Mortality ^b					5-year Relative Survival ^a	
	2012-2016 Num Cases	2012-2016 Rate	1975-2016 APC	1975-1995 APC	1996-2016 APC	2012-2016 Num Deaths	2012-2016 Rate	1975-2016 APC	1975-1995 APC	1996-2016 APC	1975-1978	2009-2015
<u>Ages 0-4</u>												
All Sites	8,174	22.2	0.7*	1.0*	0.5* [@]	2,071	2.1	-2.4*	-2.9*	-1.4* [#]	57.2	85.3 ^c
Soft tissue	600	1.6	1.2*	0.4	1.6	145	0.1	-1.2*	-1.6*	0.9 [#]	62.0 ^d	85.5 ^c
Kidney and Renal pelvis	700	1.9	-0.1	0.3	-0.5	68	0.1	-	-5.3*	-	71.9	95.3 ^c
Eye and Orbit	507	1.4	0.2	1.5	-0.3* [@]	24	0.0	-	-	-	87.2 ^d	95.2
Brain and Other nervous	1,545	4.2	1.0*	2.3*	0.6 [#]	556	0.6	-1.3*	-1.1*	-1.3*	52.0	73.5 ^c
Other endocrine ^g	566	1.5	-	-	-	303	0.3	-	-	-	35.7 ^d	77.7 ^c
Leukemia	2,955	8.0	0.7*	0.8*	0.4	658	0.7	-2.7*	-3.6*	-1.6* [#]	55.4	89.1 ^c
Acute lymphocytic	2,367	6.4	0.7*	1.0*	0.4	208	0.2	-3.8*	-5.7*	-2.1* [#]	63.2	94.1 ^c
<u>Ages 5-9</u>												
All Sites	4,866	13.0	0.5*	0.3	0.7*	2,209	2.2	-2.3*	-3.3*	-1.1* [#]	58.4	85.3 ^c
Brain and Other nervous	1,311	3.5	0.5*	1.0	0.6	944	0.9	-0.4*	-0.7*	0.4 [#]	59.1	72.6 ^c
Leukemia	1,597	4.3	0.4*	0.7	0.1	475	0.5	-4.5*	-5.2*	-3.1* [#]	51.0	90.8 ^c
Acute lymphocytic	1,365	3.6	0.6*	1.1	0.1	234	0.2	-5.1*	-6.2*	-3.5* [#]	54.8	91.2 ^c
<u>Ages 10-14</u>												
All Sites	5,727	15.2	0.7*	0.9*	0.8*	2,195	2.1	-1.9*	-2.5*	-1.3* [#]	58.7	85.3 ^c
Bone and Joint	581	1.5	0.3	1.1	1.1	283	0.3	-1.1*	-2.4*	0.2 [#]	52.8 ^d	71.3 ^c
Brain and Other nervous	1,068	2.8	0.6*	1.8*	-0.3 [#]	689	0.7	-0.9*	-1.7*	-0.3 [#]	59.5	84.1 ^c
Hodgkin lymphoma	477	1.3	-0.5*	-1.2*	0.0	-	-	-	-	-	79.0	99.4 ^c
Leukemia	1,242	3.3	0.8*	0.6	1.2*	585	0.6	-2.9*	-3.1*	-2.9*	34.0	81.3 ^c
Acute lymphocytic	856	2.3	1.0*	1.3	1.1*	284	0.3	-3.3*	-3.4*	-3.0*	43.0 ^d	86.1 ^c
<u>Ages 15-19</u>												
All Sites	9,444	24.2	0.7*	0.9*	1.1*	3,046	2.9	-1.9*	-2.1*	-1.6* [#]	67.8	86.4 ^c
Bone and Joint	617	1.6	0.2	0.9	-0.1	545	0.5	-0.9*	-2.3*	-0.3 [#]	51.0 ^d	65.6 ^c
Melanoma of the skin	362	0.9	0.4	1.7	-1.8* [#]	25	0.0	-	-	-	76.2 ^d	98.0 ^c
Testis(males)	763	3.8	1.1*	1.8*	0.7	33	0.1	-	-	-	66.0 ^d	95.1 ^c
Brain and Other nervous	923	2.4	0.4	1.1	0.7	584	0.6	-1.0*	-1.1*	-0.2 [@]	65.3	77.9 ^c
Thyroid	1,328	3.4	2.6*	1.1	4.6* [#]	-	-	-	-	-	100.0	99.8
Hodgkin lymphoma	1,275	3.3	-0.5*	-0.3	0.1	33	0.0	-	-4.0*	-	89.0	96.8 ^c
Non-Hodgkin lymphoma	812	2.1	1.5*	2.5*	1.3	152	0.1	-3.1*	-2.4*	-4.1* [#]	47.7 ^d	89.2 ^c
Leukemia	1,229	3.1	0.9*	0.7	1.3	770	0.7	-2.3*	-2.0*	-2.6* [@]	23.8	71.5 ^c
Acute lymphocytic	691	1.8	1.2*	1.1	1.6	321	0.3	-2.4*	-1.7*	-2.8* [@]	30.0 ^d	75.9 ^c

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).

^a 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).

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

^c The difference between 1975-1978 and 2009-2015 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 2012-2016.

^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).

The APC for 1996-2016 is significantly different from the APC for 1975-1995 (p<.05).

@ The APC for 1996-2016 is significantly different from the APC for 1975-1995 (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.