

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	
	2008-2012 Num Cases	2008-2012 Rate	1975-2012 APC	1975-1993 APC	1994-2012 APC	2008-2012 Num Deaths	2008-2012 Rate	1975-2012 APC	1975-1993 APC	1994-2012 APC	1975-1977	2005-2011
Ages 0-4												
All Sites	6,421	22.2	0.7*	1.2*	0.6*	2,174	2.2	-2.5*	-2.9*	-1.7*#	57.2	84.0 ^c
Soft tissue	490	1.7	1.2*	0.2	2.0	120	0.1	-1.7*	-1.7	-1.0	62.0 ^d	81.8 ^c
Kidney and Renal pelvis	546	1.9	-0.3	0.1	-1.6	63	0.1	-	-6.1*	-	71.9	91.4 ^c
Eye and Orbit	397	1.4	0.2	2.1*	-0.2 ^g	18	0.0	-	-	-	87.2 ^d	96.0 ^c
Brain and Other nervous	1,184	4.1	1.1*	2.5*	0.7 ^h	587	0.6	-1.3*	-1.0*	-1.4*	52.0	72.5 ^c
Other endocrine ^g	415	1.4	-	-	-	344	0.3	-	-	-	35.7 ^d	75.9 ^c
Leukemia	2,400	8.3	0.8*	0.8*	0.7	704	0.7	-2.8*	-3.7*	-1.8*#	55.4	88.6 ^c
Acute lymphocytic	1,919	6.6	0.8*	0.9*	0.5	222	0.2	-4.0*	-5.7*	-1.9*#	63.2	92.9 ^c
Ages 5-9												
All Sites	3,673	12.7	0.5*	0.8*	1.2*	2,254	2.2	-2.5*	-3.2*	-1.2*#	58.3	81.7 ^c
Brain and Other nervous	1,012	3.5	0.6*	1.4	1.3*	917	0.9	-0.5*	-0.6	0.3 ^h	58.4	72.1 ^c
Leukemia	1,236	4.3	0.5*	1.5*	0.6	523	0.5	-4.6*	-5.3*	-3.3*#	51.0	87.9 ^c
Acute lymphocytic	1,051	3.6	0.7*	1.7*	0.7	265	0.3	-5.3*	-6.4*	-3.7*#	54.8	91.2 ^c
Ages 10-14												
All Sites	4,001	13.5	0.6*	0.9*	0.3	2,220	2.1	-2.0*	-2.5*	-1.3*#	58.6	83.9 ^c
Bone and Joint	430	1.5	0.2	1.0	0.3	252	0.2	-1.4*	-2.8*	-0.7 ^h	52.8 ^d	76.6 ^c
Brain and Other nervous	766	2.6	0.7*	1.8*	-0.8 ^h	634	0.6	-1.1*	-1.6*	-0.5 ^g	59.5	79.9 ^c
Hodgkin lymphoma	354	1.2	-0.5	-0.7	0.6	-	-	-	-	-	79.0	98.0 ^c
Leukemia	952	3.2	0.6*	1.1	1.0*	674	0.7	-2.9*	-3.1*	-2.7*	34.0	82.6 ^c
Acute lymphocytic	647	2.2	0.9*	2.0	1.3*	332	0.3	-3.3*	-3.5*	-3.0*	43.0 ^d	85.6 ^c
Ages 15-19												
All Sites	6,862	22.1	0.6*	1.0*	0.8*	3,197	2.9	-1.9*	-2.1*	-1.8* ^g	67.9	85.0 ^c
Bone and Joint	437	1.4	0.2	0.9	-0.5	524	0.5	-1.1*	-2.6*	-0.6 ^h	51.0 ^d	71.7 ^c
Melanoma of the skin	332	1.1	0.9*	2.4*	0.1	24	0.0	-	-	-	76.2 ^d	95.4 ^c
Testis(males)	637	4.0	1.4*	1.8	1.6*	37	0.1	-	-	-	66.0 ^d	94.9 ^c
Brain and Other nervous	685	2.2	0.2	1.6	0.1	540	0.5	-1.2*	-1.0*	-1.0*	65.3	75.8 ^c
Thyroid	830	2.7	2.2*	0.7	4.1* ^h	-	-	-	-	-	100.0	99.1
Hodgkin lymphoma	984	3.2	-0.5*	0.1	0.2	59	0.1	-	-3.9*	-	89.0	96.9 ^c
Non-Hodgkin lymphoma	541	1.7	1.4*	2.3*	0.5 ^g	187	0.2	-3.1*	-2.2*	-3.9*#	47.7 ^d	82.3 ^c
Leukemia	960	3.1	0.7*	0.5	0.6	864	0.8	-2.3*	-1.9*	-2.6*	23.8	75.6 ^c
Acute lymphocytic	536	1.7	1.1*	1.1	1.2	346	0.3	-2.3*	-1.5*	-2.9* ^g	30.0 ^d	81.0 ^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 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 2005-2011 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 2008-2012.

^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 1994-2012 is significantly different from the APC for 1975-1993 (p<.05).

^g The APC for 1994-2012 is significantly different from the APC for 1975-1993 (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.