

Health

Childhood Cancer

Table H4: Cancer incidence and mortality for children ages 0 to 19 years, 1992-2009

1992-1997						
Age-adjusted rate per million children						
	1992	1993	1994	1995	1996	1997
Incidence	158.4	161.4	153.3	154.8	160.9	154.4
Mortality	33.1	32.6	31.2	29.8	28.7	28.8
1998-2003						
Age-adjusted rate per million children						
	1998	1999	2000	2001	2002	2003
Incidence	164.1	158.0	162.3	166.6	171.9	156.6
Mortality	27.5	28.0	28.2	27.5	28.0	27.4
2004-2009						
Age-adjusted rate per million children						
	2004	2005	2006	2007	2008	2009
Incidence	167.2	174.6	157.5	172.3	172.5	175.4
Mortality	27.2	26.6	24.6	24.9	24.4	23.5

DATA: National Cancer Institute, Surveillance, Epidemiology, and End Results (SEER) Program

Table H4a: Cancer incidence for children ages 0 to 19 years by race/ethnicity and sex, 2007-2009

	Age-adjusted rate per million children		
	Male	Female	All
All Races/Ethnicities (<i>n=5,974</i>)	183.3	163.0	173.4
White non-Hispanic (<i>n=2,963</i>)	199.7	175.2	187.8
Black non-Hispanic (<i>n=574</i>)	137.2	129.5	133.4
American Indian/Alaska Native non-Hispanic (<i>n=69</i>)	120.8	152.6	136.8
Asian or Pacific Islander non-Hispanic (<i>n=560</i>)	155.7	147.5	151.7
Hispanic (<i>n=1,717</i>)	181.9	156.1	169.3

DATA: National Cancer Institute, Surveillance, Epidemiology, and End Results (SEER) Program

Table H4b: Cancer mortality for children ages 0 to 19 years by race/ethnicity and sex, 2007-2009

	Age-adjusted rate per million children		
	Male	Female	All
All Races/Ethnicities (<i>n=6,071</i>)	26.1	22.4	24.3
White non-Hispanic (<i>n=3,384</i>)	25.8	21.7	23.8
Black non-Hispanic (<i>n=900</i>)	25.6	23.4	24.5
American Indian/Alaska Native non-Hispanic (<i>n=55</i>)	23.6	20.5	22.1
Asian or Pacific Islander non-Hispanic (<i>n=248</i>)	26.0	16.5	21.3
Hispanic (<i>n=1,386</i>)	27.9	25.4	26.7

DATA: National Cancer Institute, Surveillance, Epidemiology, and End Results (SEER) Program

Following the recommendations of the National Cancer Institute, the mortality rates for all the groups except for “All races/ethnicities” excluded data from the following states, which had large numbers with unknown ethnicity: North Dakota and South Carolina. See http://seer.cancer.gov/seerstat/variables/mort/origin_recode_1990+/index.html.

Table H4c: Cancer incidence for children 0 to 19 years by age, 2007-2009

	Age-adjusted rate per million children
Ages 0 to 4 years	207.6
Ages 5 to 9 years	116.9
Ages 10 to 14 years	139.0
Ages 15 to 19 years	232.3
Ages 0 to 19 years	173.4

DATA: National Cancer Institute, Surveillance, Epidemiology, and End Results (SEER) Program

Table H5: Cancer incidence for children ages 0 to 19 years, by type, 1992-2006

	Age-adjusted rate per million children				
	1992-1994	1995-1997	1998-2000	2001-2003	2004-2006
Acute lymphoblastic leukemia	29.5	32.3	33.4	32.4	34.5
Central nervous system tumors	28.7	26.8	26.9	29.6	27.0
Germ cell tumors	11.3	11.5	10.8	12.0	12.6
Soft tissue sarcomas	10.2	11.5	12.0	11.5	12.3
Hodgkin's lymphoma	12.3	11.6	12.2	11.2	10.8
Acute myeloid leukemia	7.3	7.7	8.3	8.0	8.5
Non-Hodgkin's lymphoma	7.4	7.2	7.7	9.0	8.8
Neuroblastoma	7.4	7.7	6.9	7.3	8.0
Malignant melanoma	4.4	4.7	4.7	5.8	5.7
Thyroid carcinoma	5.2	5.2	6.2	6.1	5.5
Osteosarcoma	4.9	4.8	4.8	5.3	4.5
Wilms' tumor	5.7	5.8	5.5	4.7	4.4
Other and unspecified carcinomas†	3.8	3.9	3.9	3.6	3.3
Ewing's sarcoma	3.2	2.3	2.2	2.5	2.8
Burkitt's lymphoma	2.0	1.9	2.3	2.4	2.2
Hepatoblastoma	1.1	1.2	1.8	1.5	1.7

DATA: National Cancer Institute, Surveillance, Epidemiology, and End Results (SEER) Program

† "Other and unspecified carcinomas" represents all carcinomas and other malignant epithelial neoplasms other than thyroid carcinoma and malignant melanoma.

Table H5a: Cancer incidence rates per million children for malignant cancers by age and type, 2004-2006

	Age-adjusted rate per million children				
	Ages 0 to 4 years	Ages 5 to 9 years	Ages 10 to 14 years	Ages 15 to 19 years	Ages 0 to 19 years
Acute lymphoblastic leukemia	66.3	33.6	22.8	17.0	34.5
Central nervous system tumors	35.1	30.4	23.2	19.7	27.0
Germ cell tumors	7.5	2.9	9.2	30.8	12.6
Soft-tissue sarcomas	11.1	7.1	12.8	18.3	12.3
Hodgkin's lymphoma	NA**	4.1	12.0	26.0	10.8
Acute myeloid leukemia	13.2	4.6	7.3	9.0	8.5
Non-Hodgkin's lymphoma	3.2	5.2	10.5	15.9	8.8
Neuroblastoma	28.5	2.8	1.4	NA**	8.0
Malignant melanoma	0.9*	1.7	4.3	15.5	5.7
Thyroid carcinoma	NA**	1.6	4.6	15.5	5.5
Osteosarcoma	NA**	2.6	7.3	7.9	4.5
Wilms' tumor	13.4	3.8	NA**	NA**	4.4
Other and unspecified carcinomas†	NA**	NA**	3.5	9.0	3.3
Ewing's sarcoma	NA**	1.6	3.5	5.1	2.8
Burkitt's lymphoma	1.5	2.6	2.4	2.2	2.2
Hepatoblastoma	6.9	NA**	NA**	NA**	1.7

DATA: National Cancer Institute, Surveillance, Epidemiology, and End Results (SEER) Program

† "Other and unspecified carcinomas" represents all carcinomas and other malignant epithelial neoplasms other than thyroid carcinoma and malignant melanoma.

* The estimate should be interpreted with caution because the standard error of the estimate is relatively large: the relative standard error, RSE, is at least 30% but is less than 40% (RSE = standard error divided by the estimate).

** Not available. The estimate is not reported because it has large uncertainty: the relative standard error, RSE, is 40% or greater (RSE = standard error divided by the estimate).