Table 29.1

Age-Adjusted and Age-Specific SEER Cancer Incidence Rates, 2009-2013^a

By International Classification of Childhood Cancer(ICCC)^b Group and Subgroup^c and Age at Diagnosis

Including myelodysplastic syndromes and Group III benign brain/CNS tumors

All Races, Males and Females

ICCC Group and Subgroup	0-14	0-19	<1_	1-4	<u>5-9</u>	10-14	15-19
All ICCC Groups Combined							
Excluding Group III benign brain/CNS tumors	162.4	178.0	239.0	219.8	127.7	138.9	224.2
Including Group III benign brain/CNS tumorsd	174.3	194.7	249.8	227.4	138.1	155.6	255.6
I Leukemia (includes myelodysplastic syndromes)	54.5	49.4	51.5	94.8	44.4	34.4	34.3
I(a) Lymphoid leukemia	41.5	35.5	20.1	78.6	36.6	22.4	17.4
I(b) Acute myeloid leukemia	8.5	8.9	19.2	11.6	4.8	7.8	10.2
I(c) Chronic myeloproliferative diseases	1.4	2.1		0.9	0.7	2.3	3.9
I(d) Myelodysplastic syndrome and other myeloproliferative	1.3	1.3	5.5	1.6	0.7	0.9	1.5
I(e) Unspecified and other specified leukemias	1.7	1.6	4.2	2.2	1.6	1.0	1.2
II Lymphomas and reticuloendothelial neoplasms	16.4	24.5	_	8.3	16.3	25.2	48.5
II(a) Hodgkin lymphoma	5.8	12.0	_	1.2	4.4	11.6	30.5
II(b) Non-Hodgkin lymphoma (except Burkitt lymphoma)	7.8	9.5	_	5.4	8.0	10.7	14.7
II(c) Burkitt lymphoma	2.4	2.4	_	1.3	3.5	2.5	2.5
II(d) Miscellaneous lymphoreticular neoplasms	0.3	0.2	-	-	-	-	-
II(e) Unspecified lymphomas	0.2	0.3	-	-	-	-	0.7
III CNS and misc intracranial and intraspinal neoplasms ^d	45.3	47.2	44.9	49.2	44.8	42.9	52.7
III(a) Ependymomas and choroid plexus tumor	4.0	3.7	8.6	6.8	2.5	2.5	2.9
III(b) Astrocytoma	17.6	16.5	13.9	19.9	18.0	16.2	13.2
III(c) Intracranial and intraspinal embryonal tumors	7.1	5.9	11.6	10.3	7.2	3.8	2.4
III(d) Other gliomas	5.9	5.4	-	5.7	7.8	4.9	4.0
<pre>III(e) Other specified intracranial/intraspinal neoplasms</pre>	9.3	14.0	6.2	5.6	8.0	13.9	28.2
III(f) Unspecified intracranial and intraspinal neoplasms	1.4	1.5	-	0.9	1.3	1.7	2.0
IV Neuroblastoma and other peripheral nervous cell tumor	10.6	8.2	49.6	21.8	4.0	1.4	0.9
IV(a) Neuroblastoma and ganglioneuroblastoma	10.5	7.9	49.6	21.6	3.8	1.3	-
IV(b) Other peripheral nervous cell tumors	-	0.2	-	-	-	-	-
V Retinoblastoma	4.4	3.3	30.8	8.7	-	-	-
VI Renal tumors	8.1	6.6	14.2	19.1	5.5	1.1	2.2
VI(a) Nephroblastoma and other nonepithelial renal tumor	7.8	5.9	13.9	19.0	5.3	0.7	-
VI(b) Renal carcinoma	0.3	0.7	-	-	-	-	1.9
VI(c) Unspecified malignant renal tumors	-	-	-	-	-	-	-

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).

International Classification of Childhood Cancer is based on ICD-O-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.

Classifications are shown for invasive cases only except as noted. For ICCC groups and subgroups that include in situ behavior, only invasive cases are shown except as noted.

d Group III and Group III subgroups include benign brain/CNS tumors.

Rates are per 1,000,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

⁻ Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Table 29.1 - continued

Age-Adjusted and Age-Specific SEER Cancer Incidence Rates, 2009-2013^a

By International Classification of Childhood Cancer(ICCC)^b Group and Subgroup^c and Age at Diagnosis

Including myelodysplastic syndromes and Group III benign brain/CNS tumors

All Races, Males and Females

ICCC Group and Subgroup	0-14	0-19	<1_	1-4	<u>5-9</u>	10-14	15-19
VII Hepatic tumors	3.1	2.5	12.3	6.7	0.7	1.0	1.0
VII(a) Hepatoblastoma	2.6	2.0	12.1	6.4	_	_	_
VII(b) Hepatic carcinoma	0.5	0.6	-	-	-	0.8	0.9
VII(c) Unspecified malignant hepatic tumors	-	-	-	-	-	-	-
VIII Malignant bone tumors	7.3	9.0	_	1.9	6.1	13.9	14.1
VIII(a) Osteosarcoma	4.1	5.2	_	_	3.4	8.5	8.3
VIII(b) Chrondosarcoma	0.2	0.4	-	-	-	-	0.8
VIII(c) Ewing tumor and related sarcomas of bone	2.5	2.8		1.1	2.3	4.3	3.7
VIII(d) Other specified malignant bone tumors	0.3	0.4	-	-	-	-	0.8
VIII(e) Unspecified malignant bone tumors	-	0.2	-	-	-	-	-
IX Soft tissue and other extraosseous sarcomas	10.8	12.2	19.9	10.8	8.5	11.5	16.2
IX(a) Rhabdomyosarcoma	5.0	4.7	5.6	7.4	4.4	3.8	3.6
IX(b) Fibrosarcoma, peripheral nerve & other fibrous	0.9	1.1	4.7	-	0.6	0.8	1.6
IX(c) Kaposi sarcoma	-	_	-	-	-	-	-
IX(d) Other specified soft tissue sarcomas	3.8	5.0	6.3	2.0	3.0	5.5	8.6
IX(e) Unspecified soft-tissue sarcomas	1.0	1.3	2.8	0.7	0.6	1.4	2.2
X Germ cell & trophoblastic tumors & neoplasms of gonads	5.8	12.4	18.8	3.8	3.0	7.6	32.1
X(a) Intracranial and intraspinal germ-cell tumors	2.1	2.4	3.5	-	2.1	2.9	3.2
X(b) Extracranial & extragonadal germ cell tumors	1.3	1.5	11.8	1.3	-	0.6	1.9
X(c) Malignant gonadal germ cell tumors	2.6	8.2	4.7	2.2	1.0	4.0	25.0
X(d) Gonadal carcinomas	-	0.5	-	-	-	-	1.6
X(e) Other and unspecified malignant gonadal tumors	-	0.3	-	-	-	-	0.8
XI Other malignant epithelial neoplasms and melanomas ^d	7.4	18.9	_	1.6	4.2	16.0	52.9
XI(a) Adrenocortical carcinoma	0.3	0.3	-	-	-	-	-
XI(b) Thyroid carcinoma	3.2	9.4	-	-	1.4	7.8	27.7
XI(c) Nasopharyngeal carcinoma	0.3	0.6	-	-	-	0.8	1.3
XI(d) Malignant melanoma	1.7	3.9	-	0.8	1.5	2.6	10.5
XI(e) Skin carcinoma	-	-	-	-	-	-	_
XI(f) Other and unspecified carcinomas ^d	1.8	4.6	-	-	1.0	4.1	13.0
XII Other and unspecified malignant neoplasms	0.5	0.6	2.8	0.7	-	-	0.8
XII(a) Other specified malignant tumors	0.3	0.3	-	-	-	-	0.5
XII(b) Other unspecified malignant tumors	0.3	0.3	-	-	-	-	-
Not classified by ICCC	0.3	0.4	-	-	-	-	-

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).

International Classification of Childhood Cancer is based on ICD-O-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.

Classifications are shown for invasive cases only except as noted. For ICCC groups and subgroups that include in situ behavior, only invasive cases are shown except as noted.

d Includes in situ urinary bladder tumors.

Rates are per 1,000,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

⁻ Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Table 29.2 Age-Adjusted SEER Cancer Incidence Ratesa

By International Classification of Childhood Cancer(ICCC) Belected Group and Subgroup and Year of Diagnosis Excluding benign brain and myelodysplastic syndromes

All Races, Males and Females, Ages 0-19

ICCC Group and Subgroup	1975-2013	1975-1984	1985-1994	1995-2004	2005-2013
All ICCC Groups Combined	160.2	143.7	158.9	163.3	174.1
<pre>I Leukemia I(a) Lymphoid leukemia I(b) Acute myeloid leukemia</pre>	39.3	34.9	37.9	40.8	43.1
	29.4	25.7	28.2	30.9	32.4
	7.2	5.9	6.8	7.9	8.0
II Lymphomas and reticuloendothelial neoplasms II(a) Hodgkin lymphoma II(b,c,e) Non-Hodgkin lymphoma	24.7	24.6	24.9	23.4	25.9
	13.1	14.4	13.8	11.8	12.5
	11.0	9.5	10.4	11.2	13.0
III CNS & misc intracranial & intraspinal neoplasms III(a) Ependymomas and choroid plexus tumor III(b) Astrocytoma III(c) Intracranial and intraspinal embryonal tumors	28.4	23.1	29.8	29.7	30.7
	2.4	1.8	2.5	2.5	2.7
	14.4	11.7	15.6	14.5	15.7
	5.6	4.3	5.5	6.4	6.0
III(d) Other gliomas	5.2	4.4	5.1	5.6	5.5
IV Neuroblastoma and other peripheral nervous cell tumors ${\rm IV}(a)$ Neuroblastoma and ganglioneuroblastoma	8.5	8.1	8.3	8.6	9.0
	8.3	8.0	8.0	8.4	8.7
V Retinoblastoma	3.0	2.8	3.3	3.1	3.0
VI Renal tumors VI(a) Nephroblastoma and other nonepithelial renal tumor	6.6	6.5	7.0	6.5	6.3
	6.1	6.2	6.5	6.0	5.7
VII Hepatic tumors	1.9	1.3	1.6	2.2	2.6
VII(a) Hepatoblastoma	1.4	0.9	1.2	1.6	1.7
VIII Malignant bone tumors VIII(a) Osteosarcoma VIII(c) Ewing tumor and related sarcomas of bone	8.6	8.2	9.1	8.4	8.7
	4.7	4.2	5.0	4.8	4.8
	2.9	3.1	3.1	2.6	3.0
IX Soft tissue and other extraosseous sarcomas IX(a) Rhabdomyosarcoma	11.6	10.4	10.9	12.1	12.8
	4.5	4.1	4.7	4.7	4.6
X Germ cell & trophoblastic tumors & neoplasms of gonads $X(a)$ Intracranial and intraspinal germ-cell tumor $X(c)$ Malignant gonadal germ cell tumor	10.6	9.3	10.6	10.9	11.8
	1.5	0.9	1.5	1.8	1.7
	6.8	5.9	6.5	7.1	7.7
XI Other malignant epithelial neoplasms and melanomas $^{\rm d}$ XI(b) Thyroid carcinoma XI(d) Malignant melanoma	16.3	13.7	15.0	16.9	19.7
	6.2	4.9	5.2	6.2	8.6
	5.1	3.9	5.2	5.8	5.4

SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Rates are per 1,000,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

International Classification of Childhood Cancer is based on ICD-0-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P.

International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7 , pg 1457-1467.

Classifications are shown for invasive cases only except as noted. For ICCC groups and subgroups that include in situ behavior, only invasive cases are shown except as noted.

Includes in situ urinary bladder tumors.

Statistic could not be calculated. Rate based on less than 16 cases for the time interval.

Age-Adjusted SEER Cancer Incidence Trends, 1975-2013a

By International Classification of Childhood Cancer(ICCC)^b Selected Group and Subgroup^c Excluding benign brain and myelodysplastic syndromes

All Races, Males and Females

Table 29.3

		Ages	0-14		Ages 0-19					
ICCC Group and Subgroup	% Change 1975-2013	APC 1975-2013	APC 1975-1994	APC 1995-2013	% Change 1975-2013	APC 1975-2013	APC 1975-1994	APC 1995-2013		
All ICCC Groups Combined	34.1	0.6*	0.9*	0.6*	33.6	0.6*	0.9*	0.7*		
I Leukemia I(a) Lymphoid leukemia I(b) Acute myeloid leukemia	48.7 69.2 30.8	0.7* 0.8* 1.0*	0.7 0.8* 1.3	0.6* 0.5 0.3	42.0 65.6 27.0	0.7* 0.8* 1.0*	0.7* 0.9* 1.2	0.6* 0.5 0.3		
II Lymphomas and reticuloendothelial neo. II(a) Hodgkin lymphoma II(b,c,e) Non-Hodgkin lymphoma	-10.9 -12.6 -2.9	0.2 -0.5* 0.9*	-0.6 -1.3* 0.0	1.6* [#] 1.2 [#] 2.1* [#]	-10.1 -25.6 18.6	0.1 -0.6* 1.1*	0.1 -0.4 1.0*	1.0* [#] 0.5 1.5*		
III CNS & misc intracranial & intraspinal neo. III(a) Ependymomas and choroid plexus tumors III(b) Astrocytoma III(c) Intracranial and intraspinal embryonal tum. III(d) Other gliomas	52.8 - 70.8 143.6 -10.1	0.9* - 1.0* 0.9* 0.5	2.2* - 3.1* 1.6 0.5	0.4 [#] 0.4 0.9 [#] -0.6 [@] 0.8	51.9 - 71.1 147.1 -3.8	0.8* - 0.8* 1.0* 0.7*	1.9* - 2.5* 1.9* 0.7	0.4 [#] 0.3 0.9 [#] -0.6 [#] 0.2		
<pre>IV Neuroblastoma and other peripheral nervous cell tumors IV(a) Neuroblastoma and ganglioneuroblastoma</pre>	17.4 14.1	0.4	0.3	0.2	18.8 13.9	0.4	0.3	0.3		
V Retinoblastoma	-18.3	0.1	1.7*	-0.6#	-18.3	0.1	1.8*	-0.6#		
VI Renal tumors VI(a) Nephroblastoma and other nonepithelial renal tumors	31.7 37.2	-0.2 -0.2	1.1	-0.6 -0.6	32.1 40.1	-0.1 -0.2	1.2* 1.0	-0.3 -0.6		
VII Hepatic tumors VII(a) Hepatoblastoma	- -	- -	- -	- -	- -	- -	- -	- -		
VIII Malignant bone tumors VIII(a) Osteosarcoma VIII(c) Ewing tum. and related sarcomas of bone	49.3 - 45.9	0.2 - -	0.9 - -	0.6 0.7 -	24.4 44.6 34.9	0.1 0.4 -0.2	1.1* 1.6* 0.9	0.2 -0.1 [@] 1.5		
IX Soft tissue and other extraosseous sarcomas IX(a) Rhabdomyosarcoma	7.8 -4.9	0.7* 0.3	0.6 1.1	0.6 0.0	20.4 -0.1	0.6* 0.3	0.2 1.0	0.1 -0.3		
X Germ cell & trophoblastic tum. & neo. of gonads $X(a)$ Intracranial and intraspinal germ-cell tum. $X(c)$ Malignant gonadal germ cell tumors	38.0 - -	1.0* - -	1.4 - -	0.3	40.1 - 42.3	0.8* - 0.9*	1.6* - 1.1	0.8 - 0.8		
XI Other malignant epithelial neo. and melanomas $^{\rm d}$ XI(b) Thyroid carcinoma XI(d) Malignant melanoma	73.0 71.2 -	1.1* - -	0.2	1.5* - -	90.6 197.6 47.1	1.3* 2.1* 0.9*	0.7 0.5 1.7	2.0*# 4.1*# -0.4@		

- The APC is the Annual Percent Change over the time interval.
- SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
- International Classification of Childhood Cancer is based on ICD-O-3. Stellarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.
- Classifications are shown for invasive cases only except as noted. For ICCC groups and subgroups that include in situ behavior, only invasive cases are shown except as noted.
- d Includes in situ urinary bladder tumors.
- The APC is significantly different from zero (p<.05)
- The APC for 1995-2013 is significantly different from the APC for 1975-1994 (p<.05). @ The APC for 1995-2013 is significantly different from the APC for 1975-1994 (p<.10).
- Statistic could not be calculated. Trend based on less than 10 cases for at least one year within the time interval. Neoplasms are abbreviated as neo. Tumors are abbreviated as tum.

Age-Adjusted SEER Cancer Incidence Trends, 1975-2013^a By International Classification of Childhood Cancer(ICCC)^b Selected Group and Subgroup^c Excluding benign brain and myelodysplastic syndromes

Table 29.4

All Races, Males

		Ages	0-14		Ages 0-19				
ICCC Group and Subgroup	% Change 1975-2013	APC 1975-2013	APC 1975-1994	APC 1995-2013	% Change 1975-2013	APC 1975-2013	APC 1975-1994	APC 1995-2013	
All ICCC Groups Combined	22.7	0.6*	1.0*	0.4@	30.2	0.6*	1.0*	0.5*#	
I Leukemia I(a) Lymphoid leukemia I(b) Acute myeloid leukemia	33.0 52.9 40.7	0.7* 0.7* -	0.6 0.9	0.3 0.1 0.0	27.7 50.0 29.7	0.6* 0.7* 1.1*	0.5 0.9* 0.4	0.3 0.2 -0.2	
II Lymphomas and reticuloendothelial neo. II(a) Hodgkin lymphoma II(b,c,e) Non-Hodgkin lymphoma	-12.1 -8.0 -9.4	0.1 - 0.5*	-0.6 - -0.1	1.8* [#] - 1.9* [@]	-1.7 -28.1 35.2	0.1 -0.6* 0.8*	-0.1 -0.8 0.7	1.2* [#] 1.0 [#] 1.3	
III CNS & misc intracranial & intraspinal neo. III(a) Ependymomas and choroid plexus tumors III(b) Astrocytoma III(c) Intracranial and intraspinal embryonal tum. III(d) Other gliomas	55.2 - 84.4 - -21.6	0.8* - 0.9* -	2.5* - 3.1* -	0.0# - 0.6# -0.9	49.8 - 81.8 - -20.3	0.7* - 0.7* -	2.2* - 2.5* -	0.0# - 0.7# -0.9 -0.7	
IV Neuroblastoma and other peripheral nervous cell tumors IV(a) Neuroblastoma and ganglioneuroblastoma	6.4	0.3	1.0	0.0	6.2 2.7	0.3	1.1	0.0	
V Retinoblastoma	-	-	-	-	-	-	-	-	
VI Renal tumors VI(a) Nephroblastoma and other nonepithelial renal tumors	8.1 15.9	-0.3 -0.3	1.9* 1.8*	-1.1 [#] -1.0 [#]	7.4 21.7	-0.2 -0.3	1.7* 1.7*	-1.0 [#] -1.0 [#]	
VII Hepatic tumors VII(a) Hepatoblastoma	- -	- -	- -	- -	- -	- -	-	- -	
VIII Malignant bone tumors VIII(a) Osteosarcoma VIII(c) Ewing tum. and related sarcomas of bone	19.8 - -	0.5 - -	1.3	0.1	27.0 - -9.2	0.4 - -	1.7* - -	-0.1 -0.8	
IX Soft tissue and other extraosseous sarcomas IX(a) Rhabdomyosarcoma	16.0 29.7	0.6*	0.5	0.2 -0.7	35.6 32.8	0.7*	0.5	0.1 -0.4	
X Germ cell & trophoblastic tum. & neo. of gonads $X(a)$ Intracranial and intraspinal germ-cell tum. $X(c)$ Malignant gonadal germ cell tum. (testis)	11.5 - -	- - -	- - -	- - -	90.3 - 109.6	1.1* - 1.2*	1.8* - 1.1	0.9 - 1.4	
XI Other malignant epithelial neo. and melanomas $^{\rm d}$ XI(b) Thyroid carcinoma XI(d) Malignant melanoma	86.5 - -	- - -	- - -	- - -	101.4 - 58.7	1.2*	1.0	1.9* - -	

The APC is the Annual Percent Change over the time interval.

- SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
- International Classification of Childhood Cancer is based on ICD-O-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.
- Classifications are shown for invasive cases only except as noted. For ICCC groups and subgroups that include in situ behavior, only invasive cases are shown except as noted.
- d Includes in situ urinary bladder tumors.
- * The APC is significantly different from zero (p<.05)
- The APC for 1995-2013 is significantly different from the APC for 1975-1994 (p<.05).
- The APC for 1995-2013 is significantly different from the APC for 1975-1994 (p<.10).
- Statistic could not be calculated. Trend based on less than 10 cases for at least one year within the time interval. Neoplasms are abbreviated as neo. Tumors are abbreviated as tum.

Age-Adjusted SEER Cancer Incidence Trends, 1975-2013a

By International Classification of Childhood Cancer(ICCC)^b Selected Group and Subgroup^c Excluding benign brain and myelodysplastic syndromes

Table 29.5

All Races, Females

		Ages	0-14		Ages 0-19				
ICCC Group and Subgroup	% Change 1975-2013	APC 1975-2013	APC 1975-1994	APC 1995-2013	% Change 1975-2013	APC 1975-2013	APC 1975-1994	APC 1995-2013	
All ICCC Groups Combined	48.5	0.6*	0.8*	0.8*	37.6	0.6*	0.8*	0.9*	
I Leukemia I(a) Lymphoid leukemia I(b) Acute myeloid leukemia	73.3 92.9 18.3	0.7* 0.8* 0.7	0.8 0.8 1.5	0.9* 0.9* 0.7	64.3 88.2 23.2	0.7* 0.8* 0.9*	1.0* 0.8 2.2*	0.9* 0.9* 1.0	
II Lymphomas and reticuloendothelial neo. II(a) Hodgkin lymphoma II(b,c,e) Non-Hodgkin lymphoma	-8.4 -18.5 15.9	0.4 - -	-0.7 - -	1.3 [@] - -	-22.9 -22.6 -16.8	0.1 -0.5* 1.5*	0.4 0.0 1.3	0.7 0.0 1.7	
III CNS & misc intracranial & intraspinal neo. III(a) Ependymomas and choroid plexus tumors III(b) Astrocytoma III(c) Intracranial and intraspinal embryonal tum III(d) Other gliomas	50.6 - 57.9 - 0.4	0.9* - 1.1* -	1.8* - 3.1* -	0.9 - 1.1 [@] -	54.0 - 58.8 - 13.4	0.9* - 0.9* -	1.5* - 2.5* -	0.9 - 1.1 -0.1	
<pre>IV Neuroblastoma and other peripheral nervous cell tumors IV(a) Neuroblastoma and ganglioneuroblastoma</pre>	26.8 23.8	0.4	-0.5 -0.7	0.2	29.8 23.8	0.4	-0.7 -0.8	0.3	
V Retinoblastoma	-	-	-	-	-	-	-	-	
VI Renal tumors VI(a) Nephroblastoma and other nonepithelial renal tumors	58.8 58.8	-0.1 -0.3	0.4	-0.1 -0.2	61.4 58.8	0.0 -0.2	0.9 0.4	0.2 -0.2	
VII Hepatic tumors VII(a) Hepatoblastoma	- -	- -	- -	- -	- -	- -	- -	- -	
VIII Malignant bone tumors VIII(a) Osteosarcoma VIII(c) Ewing tum. and related sarcomas of bone	91.3 - -	- - -	0.9 - -	- - -	21.0 9.9 -	-0.3 0.0 -	0.3 0.9 -	0.7 1.0	
IX Soft tissue and other extraosseous sarcomas IX(a) Rhabdomyosarcoma	-1.4	0.7*	0.8	0.9	3.1	0.6	0.0	0.0	
X Germ cell & trophoblastic tum. & neo. of gonads $X(a)$ Intracranial and intraspinal germ-cell tum. $X(c)$ Malignant gonadal germ cell tum. (ovary)	65.0 - -	- - -	- - -	1.2	-1.7 - -32.9	0.3	1.1 - -	0.7 - -0.4	
XI Other malignant epithelial neo. and melanomas $^{\rm d}$ XI(b) Thyroid carcinoma XI(d) Malignant melanoma	62.8 - -	- - -	- - -	1.2	85.5 193.6 34.2	1.3* 2.2* -	0.5 0.8 -	2.1* [@] 3.8* [#] -0.4	

The APC is the Annual Percent Change over the time interval.

- SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).
- International Classification of Childhood Cancer is based on ICD-O-3. Stellarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.
- Classifications are shown for invasive cases only except as noted. For ICCC groups and subgroups that include in situ behavior, only invasive cases are shown except as noted.
- Includes in situ urinary bladder tumors.
- The APC is significantly different from zero (p<.05)
- The APC for 1995-2013 is significantly different from the APC for 1975-1994 (p<.05).
- @ The APC for 1995-2013 is significantly different from the APC for 1975-1994 (p<.10).
- Statistic could not be calculated. Trend based on less than 10 cases for at least one year within the time interval. Neoplasms are abbreviated as neo. Tumors are abbreviated as tum.

Table 29.6

5-Year Relative Survival (Percent), 2006-2012^a

By International Classification of Childhood Cancer(ICCC) $^{\rm b}$ Selected Group and Subgroup $^{\rm c}$ and Sex and Age Excluding benign brain and myelodysplastic syndromes

	_	0-19 b	-			Sexes	1 0		
ICCC Group & Subgroup	<u>Total</u>	Male	Female	<1	1-4	5-9	10-14	15-19	0-14
All ICCC Groups Combined	83.3	82.1	84.6	78.7	84.5	83.2	82.3	83.9	83.0
I Leukemia	83.1	82.8	83.4	62.0	90.0	89.3	77.8	71.3	85.6
I(a) Lymphoid leukemia	88.1	87.5	88.8	60.8	93.7	92.6	82.2	74.7	90.2
I(b) Acute myeloid leukemia	62.9	62.4	63.3	60.0	66.5	69.1	61.2	59.7	64.2
II Lymphomas and reticuloendothelial neo.	93.1	92.9	93.2	79.9 ^d	92.6	94.1	93.8	92.7	93.4
II(a) Hodgkin lymphoma	96.9	96.7	97.0	-	94.5 ^d	97.7	97.9	96.4	97.7
II(b,c,e) Non-Hodgkin lymphoma	88.8	89.3	87.7	-	91.3	92.2	89.7	86.0	90.7
<pre>III CNS & misc intracranial & intraspinal neo. III(a) Ependymomas and choroid plexus tumor III(b) Astrocytoma III(c) Intracranial and intraspinal embryonal tumors III(d) Other gliomas</pre>	73.8 77.9 82.6 62.8 59.9	72.9 77.3 81.1 62.3 63.4	74.8 78.6 84.1 63.5 56.2	60.3 65.3 ^e 81.8 29.1	72.8 74.7 90.6 55.6 49.2	70.6 77.5 ^d 80.5 70.6 44.7	78.6 82.1 ^d 81.3 76.8 70.4	79.1 88.1 77.2 73.2 83.3	72.6 75.9 83.9 61.5 54.1
IV Neuroblastoma and other peripheral nervous cell tumors $\ensuremath{\text{IV}}(a)$ Neuroblastoma and ganglioneuroblastoma	79.5 79.5	78.0 78.2	81.2 81.0	93.8 93.8	73.8 73.7	70.2 69.8	72.3 ^d 72.6 ^d	74.2 ^d	79.7 79.6
V Retinoblastoma	95.3	94.2	96.5	97.0	93.5	-	-	_	95.3
VI Renal tumors	89.2	87.2	91.1	94.0	91.0	90.1	76.3 ^d	68.1 ^d	90.6
VI(a) Nephroblastoma and other nonepithelial renal tumor	91.1	89.3	92.8	94.0	91.2	91.7	82.1 ^e		91.5
VII Hepatic tumors VII(a) Hepatoblastoma	72.4 83.9	71.3 82.0	74.6 87.2	86.3 85.9	83.1 83.1	67.5 ^d	35.4 ^e	47.4 ^d	77.1 84.2
VIII Malignant bone tumors VIII(a) Osteosarcoma VIII(c) Ewing tumor and related sarcomas of bone	70.7	69.1	73.0	-	80.2 ^d	77.6	72.2	65.7	74.2
	67.0	65.1	69.4	-	-	72.4	68.8	63.4	69.5
	71.7	68.8	76.9	-	94.6	83.0	72.9	59.2	78.7
IX Soft tissue and other extraosseous sarcomas IX(a) Rhabdomyosarcoma	72.3	70.5	74.5	64.5	75.8	78.8	72.6	69.1	74.0
	65.8	66.5	64.9	53.0 ^d	72.7	78.7	59.2	48.9	69.6
X Germ cell & trophoblastic tumors & neo. of gonads $X(a)$ Intracranial and intraspinal germ-cell tumor $X(c)$ Malignant gonadal germ cell tumor	92.4	92.8	91.6	87.7	93.3	98.3	94.0	91.9	93.3
	90.0	91.1	85.6 ^d	-	-	98.4	91.1	89.2	90.4
	96.7	96.1	97.8	100.0	100.0	98.0	99.4	95.7	99.4
XI Other malignant epithelial neo. and melanomas $^{\rm f}$ XI(b) Thyroid carcinoma XI(d) Malignant melanoma	92.2	86.6	94.9	-	96.3	93.2	93.0	91.8	92.9
	99.7	98.9	99.8	-	-	98.1	100.0	99.7	99.7
	93.9	91.1	96.0	-	96.3	96.0	94.2	94.0	93.7

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).

Based on follow-up of patients into 2012.

b International Classification of Childhood Cancer is based on ICD-O-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P.

International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.

Classifications are shown for invasive cases only. For ICCC groups and subgroups that include in situ behavior, only invasive cases are shown except as noted.

The standard error is between 5 and 10 percentage points.

The standard error is greater than 10 percentage points.

Includes in situ urinary bladder tumors.

⁻ Statistic could not be calculated due to fewer than 25 cases during the time period. Neoplasms are abbreviated as neo.

Table 29.7 U.S. Childhood Cancer Survivors at January 1, 2013

Number of People Previously Diagnosed with Cancer as Children (Ages 0-19 Years) in the United States and Alive January 1, 2013 By International Classification of Childhood Cancer (ICCC)^a Selected Group and Subgroup, Age Group, and Sex

									All	Ages	
			Co	Diagnosed	Diagnos	sed					
				between	before 1975						
Site	Sex	0-19	20-29	30-39	40-49	50-59	60+	All Ages	1975-2012	Count	%b
All Sites	Both	116,243	101,788	68,311	55,703	43,495	22,743	408,283	337,415	70,868	17
	Male	61,956	•	33,848	25,551	18,225	11,361	204,694	173,596	31,098	15
	$Female^c$	54,287	48,035	34,463	30,152	25,270	11,382	203,589	163,819	39,770	20
I Leukemia	Both	36,587	22,644	13,340	6,296	2,239	344	81,450	77,160	4,290	5
	Male	19,999	12,220	6,702	3,312	1,060	146	43,439	41,538	1,901	4
	Female	16,588	10,424	6,638	2,984	1,179	198	38,011	35,622	2,389	6
Acute lymphocytic leukemia ^d	Both	30,608	18,643	11,279	5,559	1,097	17	67,203	64,006	3,197	5
	Male	16,636	10,245	5,795	3,154	595	9	36,434	34,769	1,665	5
	Female	13,972	8,398	5,484	2,405	502	8	30,769	29,237	1,532	5
I(b) Acute myeloid leukemia	Both	4,292	2,704	1,270	963	823	455	10,507	8,912	1,595	15
•	Male	2,282	1,282	540	441	417	239	5,201	4,397	804	15
	Female	2,010	1,422	730	522	406	216	5,306	4,515	791	15
II(a) Hodgkin lymphoma	Both	4,774	9,382	8,295	7,623	5,649	1,885	37,608	32,457	5,151	14
(11)	Male	2,624	4,830	4,124	3,814	2,749	971	19,112	16,363	2,749	14
	Female	2,150	4,552	4,171	3,809	2,900	914	18,496	16,094	2,402	13
II(b,c,e) Non-Hodgkin lymphoma	Both	6,877	7,834	5,035	3,426	2,042	1,400	26,614	23,175	3,439	13
II(D/C/C/ Holl HoughIII I/mpilema	Male	4,714	5,103	3,422	2,218	1,078	801	17,336	15,477	1,859	11
	Female	2,163	2,731	1,613	1,208	964	599	9,278	7,698	1,580	17
III CNS and misc intracranial &	Both	21,219	15,694	9,853	8,337	5,871	2,285	63,259	52,621	10,638	17
intraspinal neoplasms	Male	11,405	8,694	5,393	4,169	2,651	1,002	33,314	28,499	4,815	14
incluspinal neopiasms	Female	9,814	7,000	4,460	4,168	3,220	1,283	29,945	24,122	5,823	19
IV Neuroblastoma & other peripheral	Both	9,783	4,201	2,475	1,870	1,586	1,082	20,997	16,752	4,245	20
nervous cell tumor	Male	4,996	2,235	1,147	607	551	245	9,781	8,476	1,305	13
nervous cerr cumor	Female	4,787	1,966	1,328	1,263	1,035	837	11,216	8,276	2,940	26
VI Renal tumors				3,717		2,981		24,879			
VI Renal tumors	Both Male	7,533	5,053	,	4,450		1,145 662		16,944	7,935	32 36
	Female	3,595	2,434	1,630	2,506	1,619	483	12,446	7,910	4,536	27
		3,938	2,619	2,087	1,944	1,362		12,433	9,034	3,399	
VIII Malignant bone tumors	Both	3,657	4,481	3,333	2,508	2,624	1,183	17,786	14,327	3,459	19
	Male	2,194	2,606	1,773	1,337	1,146	620	9,676	8,087	1,589	16
()	Female	1,463	1,875	1,560	1,171	1,478	563	8,110	6,240	1,870	23
VIII(a) Osteosarcoma	Both	1,966	2,435	1,754	1,364	1,280	897	9,696	7,729	1,967	20
	Male	1,077	1,343	968	714	565	396	5,063	4,196	867	17
	Female	889	1,092	786	650	715	501	4,633	3,533	1,100	24
VIII(c) Ewing tumor & related	Both	1,339	1,476	1,053	714	435	220	5,237	4,648	589	11
sarcomas of bone	Male	891	896	499	352	206	90	2,934	2,693	241	8
	Female	448	580	554	362	229	130	2,303	1,955	348	15
IX Soft tissue & other	Both	7,120	7,147	4,601	4,616	4,649	5,214	33,347	23,009	10,338	31
extraosseous sarcomas	Male	3,886	4,019	2,240	2,347	2,244	2,914	17,650	12,245	5,405	31
	Female	3,234	3,128	2,361	2,269	2,405	2,300	15,697	10,764	4,933	31
X Germ cell & trophoblastic tumors &	Both	5,185	8,402	5,693	6,084	6,790	7,575	39,729	26,146	13,583	34
neoplasms of gonads	Male	2,664	5,501	3,523	3,297	3,362	3,526	21,873	15,467	6,406	29
	Female	2,521	2,901	2,170	2,787	3,428	4,049	17,856	10,679	7,177	40

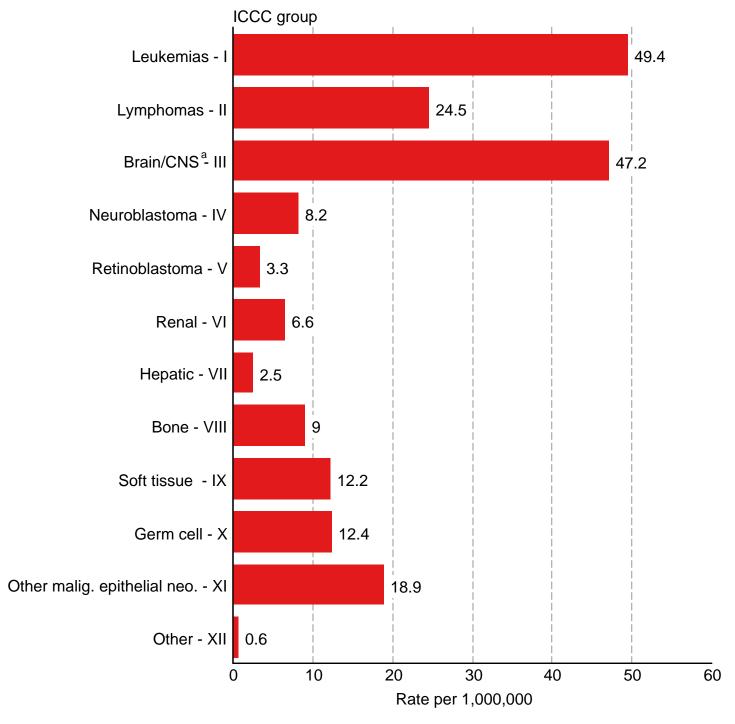
International Classification of Childhood Cancer is based on ICD-0-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467. Percent diagnosed before 1975 of all ages complete prevalence counts.

All sites females excludes breast cancer.

SEER site recode Acute Lymphocytic Leukemia was used instead of the ICCC classification lymphocytic leukemia (Ia) because of statistical modeling requirements.

For more information regarding the modeling of the prevalence estimates, see Mariotto et al. Long-Term Survivors of Childhood Cancers in the United States. Cancer Epidemiol Biomarkers Prev 2009, page 1034.

Childhood Cancer: SEER Incidence Rates 2009-2013 by ICCC Group (includes myelodysplastic syndromes and Group III benign brain) Under 20 Years of Age, Both Sexes, All Races

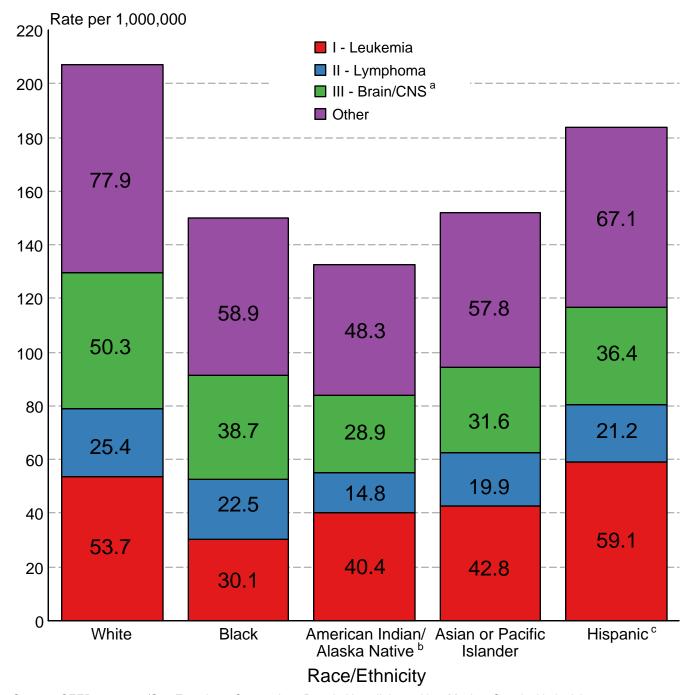


Source: SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry,Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).

Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). International Classification of Childhood Cancer is based on ICD-O-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.

^a Rate for Group III (Brain/CNS) includes benign brain tumors.

Childhood Cancer: SEER Incidence Rates 2009- 2013 by ICCC Group and Race/Ethnicity (includes myelodysplastic syndromes and Group III benign brain) Both Sexes, Under 20 Years of Age



Source: 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 rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

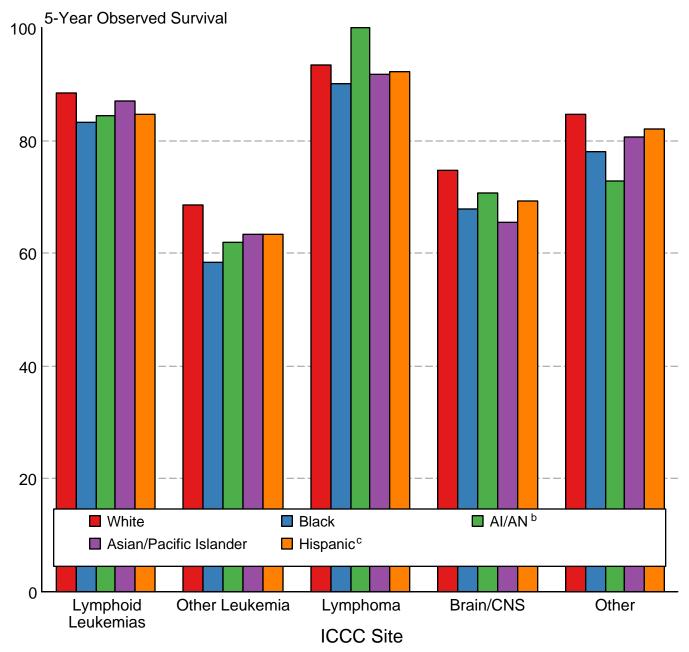
International Classification of Childhood Cancer is based on ICD-O-3. Stellarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.

^a Rate for Group III (Brain/CNS) includes benign brain tumors.

b Incidence rates for American Índian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

^c Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

Childhood Cancer 5-Year Observed Survival (%) by ICCC Group^a and Race/Ethnicity Both Sexes, Under 20 Years of Age, 2006-2012



Source: 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).

International Classification of Childhood Cancer is based on ICD-O-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.

- ^a Excludes myelodysplastic sydromes (MDS) and benign brain tumors.
- b American Indian/Alaska Native. Survival data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.
- ^c Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Survival data for Hispanics are based on NHIA and excludes cases from the Alaska Native Registry.