Table 29.1

Age-Adjusted and Age-Specific SEER Cancer Incidence Rates, 2006-2010^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	159.8	173.4	243.2	217.5	124.6	135.4	213.8
Including Group III benign brain/CNS tumors ^d	170.5	187.9	255.0	225.5	134.1	149.1	239.5
I Leukemia (includes myelodysplastic syndromes)	53.4	48.5	54.7	93.3	42.5	33.6	34.0
I(a) Lymphoid leukemia	41.0	35.3	20.6	78.8	35.2	22.1	18.1
I(b) Acute myeloid leukemia	7.9	8.4	19.9	10.1	4.2	7.6	9.8
I(c) Chronic myeloproliferative diseases	1.6	2.2	5.8	1.0	0.9	2.0	4.0
I(d) Myelodysplastic syndrome and other myeloproliferative	1.6	1.5	5.7	1.8	1.2	1.0	1.4
I(e) Unspecified and other specified leukemias	1.2	1.1	2.7	1.6	1.0	1.0	0.7
II Lymphomas and reticuloendothelial neoplasms	16.7	25.0	5.8	9.1	15.9	25.2	49.6
II(a) Hodgkin lymphoma	6.2	12.6	-	1.0	5.4	12.2	31.7
<pre>II(b) Non-Hodgkin lymphoma (except Burkitt lymphoma)</pre>	6.8	8.7	-	4.5	6.7	9.6	14.6
II(c) Burkitt lymphoma	2.6	2.5	-	2.0	3.0	3.0	2.3
<pre>II(d) Miscellaneous lymphoreticular neoplasms</pre>	0.9	0.7	3.6	1.4	-	-	-
II(e) Unspecified lymphomas	0.2	0.4	-	-	-	-	0.7
III CNS and misc intracranial and intraspinal $neoplasms^d$	43.9	44.3	48.3	50.4	43.0	39.1	45.5
III(a) Ependymomas and choroid plexus tumor	4.0	3.8	7.9	6.5	3.0	2.4	3.0
III(b) Astrocytoma	16.8	15.4	16.3	19.1	16.9	15.0	11.5
III(c) Intracranial and intraspinal embryonal tumors	7.7	6.3	12.3	11.9	7.2	4.0	2.4
III(d) Other gliomas	6.0	5.5	3.4	5.9	7.7	5.0	4.1
III(e) Other specified intracranial/intraspinal neoplasms	8.3	11.9	6.7	5.9	7.3	11.3	22.6
III(f) Unspecified intracranial and intraspinal neoplasms	1.2	1.4	-	1.2	1.0	1.4	2.0
IV Neuroblastoma and other peripheral nervous cell tumor	10.2	7.8	49.9	20.1	4.0	1.3	0.8
IV(a) Neuroblastoma and ganglioneuroblastoma	10.1	7.7	49.9	19.9	3.9	1.2	-
IV(b) Other peripheral nervous cell tumors	-	0.2	-	-	-	-	-
V Retinoblastoma	4.3	3.2	28.4	8.9	-	-	_
VI Renal tumors	8.1	6.5	14.7	19.2	5.7	0.9	1.8
VI(a) Nephroblastoma and other nonepithelial renal tumor	7.8	5.9	14.6	19.1	5.3	0.5	-
VI(b) Renal carcinoma	0.3	0.6	-	-	-	-	1.4
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, 2006-2010^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	5-9	10-14	15-19
VII Hepatic tumors	2.7	2.5	9.8	5.7	0.8	1.0	1.7
VII(a) Hepatoblastoma	2.2	1.7	9.4	5.5	_	_	_
VII(b) Hepatic carcinoma	0.5	0.8	_	-	_	0.9	1.6
VII(c) Unspecified malignant hepatic tumors	-	-	-	-	-	-	-
VIII Malignant bone tumors	7.1	8.7	_	1.7	6.1	13.4	13.7
VIII(a) Osteosarcoma	4.0	4.9	-	-	3.1	8.2	7.9
VIII(b) Chrondosarcoma	0.2	0.4	-	-	-	-	1.0
VIII(c) Ewing tumor and related sarcomas of bone	2.5	2.8	-	1.0	2.4	4.0	3.6
VIII(d) Other specified malignant bone tumors	0.3	0.4	-	-	-	-	0.9
VIII(e) Unspecified malignant bone tumors	0.2	0.2	-	-	-	-	-
IX Soft tissue and other extraosseous sarcomas	11.1	12.1	19.2	11.0	8.5	12.1	15.4
IX(a) Rhabdomyosarcoma	5.3	4.8	5.1	7.5	4.7	4.2	3.2
IX(b) Fibrosarcoma, peripheral nerve & other fibrous	1.0	1.1	5.1	0.7	-	0.9	1.7
IX(c) Kaposi sarcoma	-	-	-	-	-	-	-
<pre>IX(d) Other specified soft tissue sarcomas</pre>	3.7	4.9	6.3	2.1	2.6	5.4	8.4
IX(e) Unspecified soft-tissue sarcomas	1.1	1.4	-	0.7	0.7	1.6	2.0
X Germ cell & trophoblastic tumors & neoplasms of gonads	6.0	11.9	20.1	3.7	3.1	7.9	29.4
X(a) Intracranial and intraspinal germ-cell tumors	1.5	1.9	-	-	1.5	2.6	3.0
X(b) Extracranial & extragonadal germ cell tumors	1.4	1.5	12.3	1.3	-	0.6	1.9
X(c) Malignant gonadal germ cell tumors	2.9	7.8	6.3	2.1	1.4	4.3	22.4
X(d) Gonadal carcinomas	-	0.5	-	-	-	-	1.7
X(e) Other and unspecified malignant gonadal tumors	-	0.2	-	-	-	-	-
imes ime	6.6	16.8	-	1.6	3.9	14.1	47.0
XI(a) Adrenocortical carcinoma	0.2	0.2	-	-	-	-	-
XI(b) Thyroid carcinoma	2.7	7.7	-	-	1.3	6.4	22.7
XI(c) Nasopharyngeal carcinoma	0.4	0.6	-	-	-	1.0	1.3
XI(d) Malignant melanoma	1.8	4.3	-	0.8	1.3	3.4	11.7
XI(e) Skin carcinoma	-	-	-	-	-	-	-
XI(f) Other and unspecified carcinomas ^d	1.4	3.9	-	-	1.1	3.0	11.0
XII Other and unspecified malignant neoplasms	0.5	0.5	-	0.7	-	-	0.6
XII(a) Other specified malignant tumors	0.3	0.3	-	-	-	-	-
XII(b) Other unspecified malignant tumors	0.2	0.2	-	-	-	-	-
Not classified by ICCC	0.3	0.3	-	-	-	-	-

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.

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

Table 29.2

ICCC Group and Subgroup	1975-2010	1975-1983	1984-1992	1993-2001	2002-2010
All ICCC Groups Combined	158.2	142.5	158.5	161.3	169.1
I Leukemia	38.8	34.3	38.7	39.1	42.3
I(a) Lymphoid leukemia	29.0	25.1	29.2	29.3	31.8
I(b) Acute myeloid leukemia	7.1	5.9	6.7	7.6	8.0
II Lymphomas and reticuloendothelial neoplasms	24.5	24.5	25.0	23.6	25.1
II(a) Hodgkin lymphoma	13.1	14.3	14.2	12.2	11.8
II(b,c,e) Non-Hodgkin lymphoma	10.9	9.4	10.2	10.9	12.8
III CNS & misc intracranial & intraspinal neoplasms	28.1	23.0	29.1	29.4	30.2
III(a) Ependymomas and choroid plexus tumor	2.4	1.8	2.6	2.4	2.6
III(b) Astrocytoma	14.1	11.4	15.3	14.5	15.1
III(c) Intracranial and intraspinal embryonal tumors	5.6	4.4	5.2	6.7	6.0
III(d) Other gliomas	5.2	4.5	5.0	5.2	5.8
IV Neuroblastoma and other peripheral nervous cell tumors	8.4	7.9	8.4	8.7	8.7
IV(a) Neuroblastoma and ganglioneuroblastoma	8.2	7.7	8.0	8.4	8.5
V Retinoblastoma	3.0	2.8	3.1	3.4	2.8
VI Renal tumors	6.7	6.6	6.5	7.1	6.4
VI(a) Nephroblastoma and other nonepithelial renal tumor	6.2	6.3	6.1	6.5	5.7
VII Hepatic tumors	1.9	1.2	1.8	2.0	2.4
VII(a) Hepatoblastoma	1.3	0.8	1.2	1.5	1.6
VIII Malignant bone tumors	8.5	8.1	9.0	8.5	8.6
VIII(a) Osteosarcoma	4.6	4.2	4.9	4.8	4.7
VIII(c) Ewing tumor and related sarcomas of bone	2.9	2.9	3.1	2.9	2.8
IX Soft tissue and other extraosseous sarcomas	11.5	10.4	11.1	11.8	12.4
IX(a) Rhabdomyosarcoma	4.5	4.0	4.6	4.8	4.6
X Germ cell & trophoblastic tumors & neoplasms of gonads	10.5	9.3	10.2	11.0	11.5
X(a) Intracranial and intraspinal germ-cell tumor	1.5	0.9	1.3	1.9	1.8
X(c) Malignant gonadal germ cell tumor	6.7	5.9	6.5	6.9	7.5
A(C) marrynamic gomadar germ cerr cumor	0.7	5.9	0.5	0.9	7.5
XI Other malignant epithelial neoplasms and melanomas $^{ m d}$	15.7	13.5	14.9	16.1	18.1
XI(b) Thyroid carcinoma	5.8	4.9	5.2	5.8	7.0
XI(d) Malignant melanoma	5.1	4.0	5.1	5.2	6.0

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, 1975-2010^a 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	APC	APC	APC	% Change	APC	APC	APC	
	1975-2010	1975-2010	1975-1992	1993-2010	1975-2010	1975-2010	1975-1992	1993-2010	
All ICCC Groups Combined	41.2	0.6*	1.0*	0.6*	33.7	0.6*	1.0*	0.6*#	
I Leukemia	50.9	0.7*	1.2*	0.8*	39.6	0.7*	1.1*	0.8*	
I(a) Lymphoid leukemia	66.5	0.7*	1.4*	0.7	56.4	0.7*	1.4*	0.8*	
I(b) Acute myeloid leukemia	43.6	1.2*	1.7	0.9	32.1	1.1*	1.3	0.6	
II Lymphomas and reticuloendothelial neo.	2.3	0.1	-0.8	1.4* [#]	7.3	0.1	0.1	0.8*	
II(a) Hodgkin lymphoma	-30.7	-0.8*	-1.0	0.5	-16.9	-0.7*	-0.2	0.0	
II(b,c,e) Non-Hodgkin lymphoma	29.3	0.8*	-0.2	2.1* [#]	47.5	1.1*	0.8*	1.8* [@]	
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	81.0 - 112.8 191.0 -17.6	1.0* - 1.1* 1.1* 0.7	2.3* - 3.2* 1.1 0.6	0.5 [#] 1.3 0.4 [#] -0.5 1.7	66.0 - 86.1 191.4 -16.5	0.9* - 0.8* 1.2* 0.8*	2.2* - 2.8* 1.5 0.9	0.5 [#] 1.2 0.3 [#] -0.4 1.3	
IV Neuroblastoma and other peripheral nervous cell tumors IV(a) Neuroblastoma and ganglioneuroblastoma	-12.9 -14.5	0.3	0.0 -0.1	-0.3 -0.3	-11.1 -14.3	0.3	0.1	-0.3 -0.2	
V Retinoblastoma	-2.0	0.1	1.0	-1.6*#	-2.0	0.1	1.2	-1.6*#	
VI Renal tumors VI(a) Nephroblastoma and other nonepithelial renal tumors	38.8	-0.1	0.4	-1.1	30.8	0.0	0.5	-1.1	
	44.7	-0.1	0.4	-1.1	44.7	-0.1	0.5	-1.1	
VII Hepatic tumors	-	-	-	-	-	-	-	_	
VII(a) Hepatoblastoma	-	-	-	-	-	-	-	_	
VIII Malignant bone tumors VIII(a) Osteosarcoma VIII(c) Ewing tum. and related sarcomas of bone	47.2 - 38.1	0.1	1.3	0.4 -0.6 -	0.4 44.4 -8.1	0.1 0.4 -0.3	1.2* 2.0* 0.5	-0.2 -0.6* -0.1	
IX Soft tissue and other extraosseous sarcomas IX(a) Rhabdomyosarcoma	37.6	0.7*	1.0	1.0*	46.0	0.7*	0.8	0.8	
	31.5	0.4	1.2	-0.3	47.3	0.3	1.3	-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	84.6	1.2*	1.6	1.1	49.2	0.9*	1.5*	0.7	
	-	-	-	-	-	-	-	-	
	10.8	-	-	-	52.4	0.9*	1.4*	1.2*	
XI Other malignant epithelial neo. and melanomas $^{\rm d}$ XI(b) Thyroid carcinoma XI(d) Malignant melanoma	9.7 11.7 -	1.0*	-0.5 - -	0.7 - -	40.9 135.4 14.1	1.0* 1.5* 1.2*	0.8 0.9 2.0	1.2* 3.0* [@] 0.7	

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 1993-2010 is significantly different from the APC for 1975-1992 (p<.05). @ The APC for 1993-2010 is significantly different from the APC for 1975-1992 (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 29.4

Age-Adjusted SEER Cancer Incidence Trends, 1975-2010^a By International Classification of Childhood Cancer(ICCC)^b Selected Group and Subgroup^c Excluding benign brain and myelodysplastic syndromes All Races, Males

		Ages	0-14			Ages	0-19	
ICCC Group and Subgroup	% Change 1975-2010	APC 1975-2010	APC 1975-1992	APC 1993-2010	% Change 1975-2010	APC 1975-2010	APC 1975-1992	APC 1993-2010
All ICCC Groups Combined	36.5	0.6*	1.1*	0.5@	30.1	0.6*	1.2*	0.5**
I Leukemia I(a) Lymphoid leukemia I(b) Acute myeloid leukemia	36.0 58.7 22.4	0.7* 0.8* -	1.2* 1.6* -	0.9 0.9 0.2	21.4 46.1 2.6	0.6* 0.8* 1.1*	1.0* 1.6* 0.2	0.8 0.8 0.0
II Lymphomas and reticuloendothelial neo. II(a) Hodgkin lymphoma II(b,c,e) Non-Hodgkin lymphoma	-7.2 -35.0 9.2	-0.2 - 0.3	-0.6 - -0.3	1.2* [#] - 1.2	7.1 -17.5 38.5	0.0 -0.8* 0.7*	0.1 -0.2 0.6	1.0* 1.0 1.0
III CNS & misc intracranial & intraspinal neo.	96.3	0.9*	2.6*	-0.1#	70.9	0.8*	2.5*	-0.1#
<pre>III(a) Ependymomas and choroid plexus tumors III(b) Astrocytoma III(c) Intracranial and intraspinal embryonal tum. III(d) Other gliomas</pre>	92.9 - -11.8	- 0.9* - -	3.2* - -	-0.4 [#] -0.6	- 60.6 - -17.3	- 0.6* -	2.9* - -	-0.1 [#] -0.6 0.4
IV Neuroblastoma and other peripheral nervous cell tumors	8.7	0.3	0.4	-0.7	8.3	0.3	0.7	-0.7
IV(a) Neuroblastoma and ganglioneuroblastoma	5.2	0.3	0.3	-0.7	5.0	0.3	0.5	-0.6
V Retinoblastoma	_	_	-	-	_	_	-	_
VI Renal tumors VI(a) Nephroblastoma and other nonepithelial renal tumors	17.1 32.0	0.0	1.8 1.8	-1.2 [#] -0.9 [#]	6.2 32.0	0.1	1.4 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	28.5 - -	0.6 - -	0.8 - -	0.1	-2.9 - -21.9	0.5 - -	1.4 - -	-0.6 -1.0
IX Soft tissue and other extraosseous sarcomas IX(a) Rhabdomyosarcoma	32.2 39.3	0.7*	0.9	0.8 -1.0	34.7 47.6	0.7*	1.0	0.5 -0.5
X Germ cell & trophoblastic tum. & neo. of gonads X(a) Intracranial and intraspinal germ-cell tum. X(c) Malignant gonadal germ cell tum. (testis)	78.3 - -	- - -	- - -	0.6 - -	101.9 - 99.8	1.2* - 1.2*	1.9 - 1.5	1.0 - 1.8*
XI Other malignant epithelial neo. and melanomas $^{\rm d}$ XI(b) Thyroid carcinoma XI(d) Malignant melanoma	27.6 - -	- - -	- - -	- - -	26.7 - 5.1	1.1* - -	1.1	1.4* - -

- 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. 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.
- The APC is significantly different from zero (p<.05)
- The APC for 1993-2010 is significantly different from the APC for 1975-1992 (p<.05). The APC for 1993-2010 is significantly different from the APC for 1975-1992 (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 29.5

Age-Adjusted SEER Cancer Incidence Trends, 1975-2010^a By International Classification of Childhood Cancer(ICCC)^b Selected Group and Subgroup^c Excluding benign brain and myelodysplastic syndromes All Races, Females

		Ages	0-14			Ages	0-19	
ICCC Group and Subgroup	% Change 1975-2010	APC 1975-2010	APC 1975-1992	APC 1993-2010	% Change 1975-2010	APC 1975-2010	APC 1975-1992	APC 1993-2010
All ICCC Groups Combined	47.1	0.6*	0.8*	0.7*	37.8	0.6*	0.8*	0.7*
I Leukemia I(a) Lymphoid leukemia I(b) Acute myeloid leukemia	74.4 77.9 70.3	0.6* 0.6* 1.0*	1.2 1.2 2.1	0.7* 0.5 1.8	67.9 71.4 71.3	0.7* 0.7* 1.1*	1.2 1.2 2.5*	0.8* 0.7 1.3*
II Lymphomas and reticuloendothelial neo. II(a) Hodgkin lymphoma II(b,c,e) Non-Hodgkin lymphoma	21.6 -24.9 87.9	0.5 - -	-1.3 - -	1.7* [#] - -	7.4 -16.4 66.2	0.2 -0.7* 1.9*	0.1 -0.2 1.2	0.6 -1.0 3.3*®
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	66.7 - 132.0 - -22.8	1.1* - 1.3* -	1.9* - 3.1* -	1.2* - 1.1 -0.1	60.5 - 114.5 - -15.8	0.9* - 0.9* -	1.9* - 2.7* -	1.2* - 0.8 0.1
<pre>IV Neuroblastoma and other peripheral nervous cell tumors IV(a) Neuroblastoma and ganglioneuroblastoma</pre>	-31.4 -31.4	0.2	-0.6 -0.7	-0.1 0.0	-28.4 -31.4	0.2	-0.8 -0.8	0.1
V Retinoblastoma	-	-	-	-	-	-	-	-
VI Renal tumors VI(a) Nephroblastoma and other nonepithelial renal tumors	63.6 57.5	-0.2 -0.3	-0.8 -0.9	-1.2 -1.4	60.2 57.5	0.0	-0.4 -0.6	-1.2 -1.4
VII Hepatic tumors VII(a) Hepatoblastoma	- -	- -	- -	- -	- -	- -	- -	- -
VIII Malignant bone tumors VIII(a) Osteosarcoma VIII(c) Ewing tum. and related sarcomas of bone	73.6 - -	- - -	2.0	- - -	4.4 24.3 -	-0.4 -0.1 -	0.9 1.3	0.6 0.2 -
IX Soft tissue and other extraosseous sarcomas IX(a) Rhabdomyosarcoma	43.5	0.7*	1.1	1.1	58.6 46.7	0.7*	0.6	1.2
X Germ cell & trophoblastic tum. & neo. of gonads $X(a)$ Intracranial and intraspinal germ-cell tum. $X(c)$ Malignant gonadal germ cell tum. (ovary)	91.2 - -	- - -	- - -	1.5 - -	5.3 - -0.8	0.3	1.0 - -	0.3 - 0.1
XI Other malignant epithelial neo. and melanomas $^{\rm d}$ XI(b) Thyroid carcinoma XI(d) Malignant melanoma	-3.7 - -	- - -	- - -	0.6 - -	49.8 127.3 24.2	1.0* 1.5* -	0.6 1.1 -	1.1 2.4* 0.3

- 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 1993-2010 is significantly different from the APC for 1975-1992 (p<.05). @ The APC for 1993-2010 is significantly different from the APC for 1975-1992 (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), 2003-2009^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

TOGG Guran & Gulanana	_	0-19 b	-	-1		Sexes	1 0	15 10	0 14
ICCC Group & Subgroup	<u>Total</u>	мате	Female	<1	1-4	5-9	10-14	15-19	0-14
All ICCC Groups Combined	82.1	81.1	83.2	77.5	83.8	81.7	80.9	82.8	81.8
I Leukemia	81.4	80.7	82.4	61.0	89.3	86.9	75.8	68.4	84.1
I(a) Lymphoid leukemia	86.6	85.2	88.6	55.8	93.1	90.3	80.6	72.5	88.8
I(b) Acute myeloid leukemia	61.5	61.6	61.3	62.5	65.4	65.3	62.4	55.2	64.0
II Lymphomas and reticuloendothelial neo.	91.2	91.0	91.6	81.1 ^d	93.6	92.2	90.8	91.1	91.3
II(a) Hodgkin lymphoma	96.6	97.2	95.9	-	96.5	96.4	97.1	96.4	96.9
II(b,c,e) Non-Hodgkin lymphoma	85.3	85.1	85.7	-	92.4	89.4	84.4	82.5	87.4
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	73.0	72.9	73.1	56.6	72.4	71.7	77.0	77.0	72.1
	75.5	71.1	80.7	59.0 ^d	74.5	73.4 ^d	79.7 ^d	85.4	73.4
	84.0	83.9	84.1	82.2	91.0	85.1	81.9	77.0	85.8
	61.2	62.1	59.8	25.7 ^d	55.5	73.2	70.6	64.5 ^d	60.8
	57.4	61.1	53.7	75.3 ^d	45.7	41.3	66.7	81.2	51.2
IV Neuroblastoma and other peripheral nervous cell tumors $\ensuremath{\text{IV}(a)}$ Neuroblastoma and ganglioneuroblastoma	78.5 78.3	77.7 77.6	79.4 79.0	91.1 91.4	72.4 72.5	69.3 69.2	69.7 ^d 64.6 ^d	87.6 ^d	78.2 78.1
V Retinoblastoma	97.5	96.1	99.0	99.9	95.6	-	-	-	97.5
VI Renal tumors	88.8	89.7	88.0	90.4	89.6	88.2	81.4 ^d	86.8	88.9
VI(a) Nephroblastoma and other nonepithelial renal tumor	89.7	90.6	88.8	90.4	89.7	89.2	95.0		89.7
VII Hepatic tumors VII(a) Hepatoblastoma	68.9 78.1	68.4 74.6	70.3 84.9	80.0 80.4	78.8 78.4	65.5 ^d	35.6 ^d	45.6 ^d	73.1 78.1
VIII Malignant bone tumors	68.7	66.7	71.1	-	74.0 ^d	73.3	72.9	63.0	72.9
VIII(a) Osteosarcoma	66.6	64.2	69.4	-	-	66.7 ^d	72.4	60.7	70.9
VIII(c) Ewing tumor and related sarcomas of bone	67.3	64.2	71.3	-	82.0 ^d	82.4 ^d	68.1	56.4	74.5
IX Soft tissue and other extraosseous sarcomas IX(a) Rhabdomyosarcoma	70.5	69.3	71.8	65.4	72.5	76.6	70.0	68.4	71.6
	63.8	63.3	64.4	63.6 ^d	71.0	74.2	55.1	50.1	66.7
X Germ cell & trophoblastic tumors & neo. of gonads $X(a)$ Intracranial and intraspinal germ-cell tumor $X(c)$ Malignant gonadal germ cell tumor	92.1	92.2	91.9	92.1	94.1	89.1	94.2	91.6	93.0
	90.1	91.8	84.0 ^d	-	-	83.9 ^d	94.8	89.4	90.4
	95.4	94.6	97.1	100.0	95.3	94.9	97.5	94.8	97.1
XI Other malignant epithelial neo. and melanomas $^{\rm f}$ XI(b) Thyroid carcinoma XI(d) Malignant melanoma	92.8	88.2	95.1	-	94.8	94.0	94.7	92.2	94.1
	99.2	96.4	99.7	-	-	98.1	100.0	99.0	99.6
	95.7	93.0	97.5	-	96.0	94.8	96.1	96.1	94.5

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 2010.

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, 2010

Number of People Previously Diagnosed with Cancer as Children (Ages 0-19 Years) in the United States and Alive January 1, 2010 By International Classification of Childhood Cancer (ICCC)^a Selected Group and Subgroup, Age Group, and Sex

							All Ages					
			Cor	Diagnosed	Diagnos	ed						
			by Age at Prevalence							before 1		
<u>Site</u>	Sex	0-19	20-29	30-39	40-49	50-59	60+	All Ages	1975-2009	Count		
All Sites	Both	113,782	93,658	62,583	55,044		17,500	379,112	304,180	74,932	20	
	Male	60,936	49,379	30,706	24,513	15,657	9,268	190,459	156,993	33,466	18	
	$Female^c$	52,846	44,279	31,877	30,531	20,888	8,232	188,653	147,187	41,466	22	
I Leukemia	Both	35,749	20,000	11,075	4,605	1,422	160	73,011	68,730	4,281	6	
	Male	19,543	10,789	5,622	2,377	667	72	39,070	37,116	1,954	5	
	Female	16,206	9,211	5,453	2,228	755	88	33,941	31,614	2,327	7	
Acute lymphocytic leukemia ^d	Both	30,171	16,529	9,420	3,992	375	2	60,489	57,232	3,257	5	
	Male	16,573	9,028	4,935	2,252	215	1	33,004	31,293	1,711	5	
	Female	13,598	7,501	4,485	1,740	160	1	27,485	25,939	1,546	6	
I(b) Acute myeloid leukemia	Both	4,045	2,249	1,145	619	207	2	8,267	7,771	496	6	
-	Male	2,068	1,135	450	296	113	2	4,064	3,799	265	7	
	Female	1,977	1,114	695	323	94	0	4,203	3,972	231	5	
II(a) Hodgkin lymphoma	Both	4,514	8,955	8,202	7,786	4,629	1,167	35,253	29,702	5,551	16	
	Male	2,501	4,496	4,124	3,816	2,328	594	17,859	14,888	2,971	17	
	Female	2,013	4,459	4,078	3,970	2,301	573	17,394	14,814	2,580	15	
II(b,c,e) Non-Hodgkin lymphoma	Both	6,442	6,675	4,192	2,780	1,601	1,053	22,743	19,263	3,480	15	
(\tau, \tau, \ta	Male	4,223	4,450	2,886	1,743	817	622	14,741	12,861	1,880	13	
	Female	2,219	2,225	1,306	1,037	784	431	8,002	6,402	1,600	20	
III CNS and misc intracranial &	Both	20,430	15,174	8,801	8,415	4,806	1,457	59,083	47,793	11,290	19	
intraspinal neoplasms	Male	11,018	8,350	4,754	4,074	2,243	650	31,089	25,904	5,185	17	
incluspinal neoplasms	Female	9,412	6,824	4,047	4,341	2,563	807	27,994	21,889	6,105	22	
IV Neuroblastoma & other peripheral	Both	9,704	3,628	2,190	1,617	1,573	740	19,452	14,922	4,530	23	
nervous cell tumor	Male	4,959	1,854	1,013	517	499	193	9,035	7,717	1,318	15	
nervous cerr cumor	Female	4,745	1,774	1,177	1,100	1,074	547	10,417	7,205	3,212	31	
VI Renal tumors	Both	7,831	4,651	3,801	4,192	2,323	740	23,538	15,638	7,900	34	
VI Reliai cullois	Male	3,894	2,167	1,718	2,356	1,288	431	11,854	7,392	4,462	38	
	Female	3,894	2,167	2,083	1,836	1,200	309	11,684	8,246		36 29	
TITT Maldanant have been a										3,438		
VIII Malignant bone tumors	Both	3,766	4,194	3,184	2,489	2,320	815	16,768	13,132	3,636	22	
	Male	2,252	2,433	1,755	1,237	1,009	434	9,120	7,438	1,682	18	
	Female	1,514	1,761	1,429	1,252	1,311	381	7,648	5,694	1,954	26	
VIII(a) Osteosarcoma	Both	1,895	2,216	1,804	1,246	1,172	770	9,103	6,951	2,152	24	
	Male	1,062	1,285	1,017	601	446	377	4,788	3,831	957	20	
	Female	833	931	787	645	726	393	4,315	3,120	1,195	28	
VIII(c) Ewing tumor & related	Both	1,394	1,377	946	670	405	94	4,886	4,265	621	13	
sarcomas of bone	Male	860	796	462	323	211	34	2,686	2,417	269	10	
	Female	534	581	484	347	194	60	2,200	1,848	352	16	
IX Soft tissue & other	Both	6,849	6,964	4,239	4,829	4,161	4,406	31,448	20,922	10,526	33	
extraosseous sarcomas	Male	3,860	3,714	2,211	2,289	1,962	2,442	16,478	11,169	5,309	32	
	Female	2,989	3,250	2,028	2,540	2,199	1,964	14,970	9,753	5,217	35	
X Germ cell & trophoblastic tumors &	Both	5,219	7,632	5,531	6,273	6,614	6,468	37,737	23,603	14,134	37	
neoplasms of gonads	Male	2,755	5,031	3,302	3,296	3,326	2,935	20,645	13,959	6,686	32	
	Female	2,464	2,601	2,229	2,977	3,288	3,533	17,092	9,644	7,448	44	

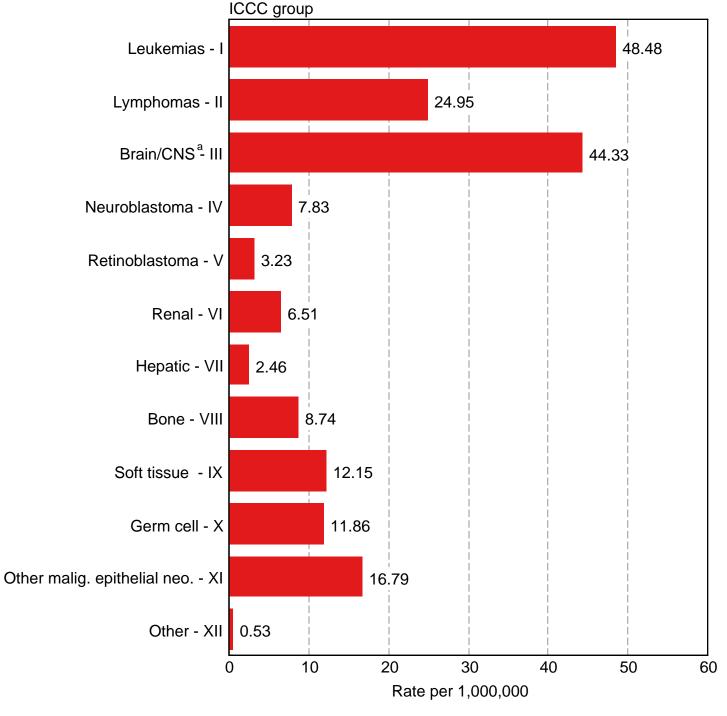
International Classification of Childhood Cancer is based on ICD-0-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467. Percent diagnosed before 1975 of all ages complete prevalence 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 2006-2010 by ICCC Group (includes myelodysplastic syndromes and Group III benign brain) Under 20 Years of Age, Both Sexes, All Races

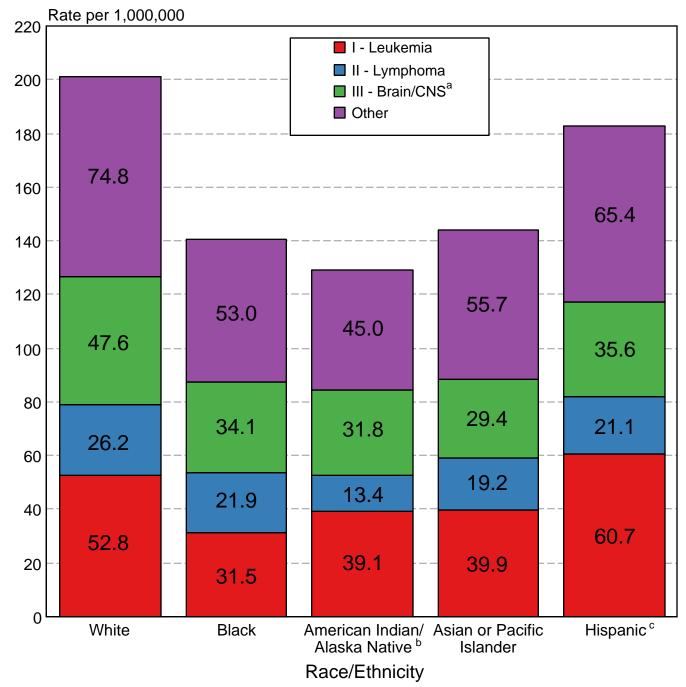


Source: SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).

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 2006- 2010 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).

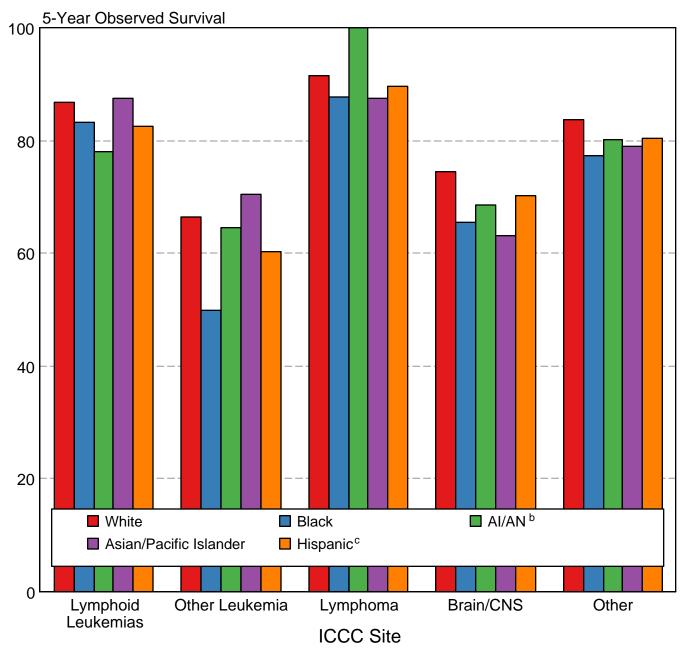
International Classification of Childhood Cancer is based on ICD-O-3. Stellarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.

^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, 2003-2009



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. 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 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.