

Table 2.6

5-Year Relative Survival (Percent), 2011-2017<sup>a</sup>By International Classification of Childhood Cancer (ICCC)<sup>b</sup> Selected Group and Subgroup<sup>c</sup> and Sex and Age  
Excluding benign brain and myelodysplastic syndromes

ICCC Group & Subgroup	Ages 0-19 by Sex			Both Sexes by Age					
	Total	Male	Female	<1	1-4	5-9	10-14	15-19	0-14
All ICCC Groups Combined	85.1	84.3	86.0	79.9	86.6	85.3	83.5	85.9	84.7
I Leukemia	85.1	84.5	85.9	62.7	91.6	90.7	81.3	75.2	87.4
I(a) Lymphoid leukemia	89.4	88.6	90.2	59.3	94.6	93.2	85.9	76.0	91.5
I(b) Acute myeloid leukemia	67.7	66.9	68.6	65.3	71.2	69.1	64.6	67.2	67.9
II Lymphomas and reticuloendothelial neo.	94.3	94.3	94.2	90.2	94.5	96.8	93.5	94.0	94.5
II(a) Hodgkin lymphoma	97.8	97.7	97.8	-	100.0	100.0	97.9	97.4	98.5
II(b,c,e) Non-Hodgkin lymphoma	89.9	90.9	87.9	-	89.6	94.8	88.5	88.7	90.7
III CNS & misc intracranial & intraspinal neo.	74.2	74.7	73.7	57.7	76.5	71.3	77.9	75.8	73.9
III(a) Ependymomas and choroid plexus tumor	82.9	82.8	83.0	69.0 <sup>d</sup>	82.7	82.4 <sup>d</sup>	86.0 <sup>d</sup>	89.1	81.7
III(b) Astrocytoma	80.3	80.9	79.7	69.1 <sup>d</sup>	90.7	78.8	80.1	73.6	82.4
III(c) Intracranial and intraspinal embryonal tumors	67.5	68.1	66.6	36.1 <sup>d</sup>	61.3	78.4	74.4	68.2 <sup>d</sup>	67.5
III(d) Other gliomas	61.0	62.9	58.7	-	56.2	42.0	71.5	81.4	55.6
IV Neuroblastoma and other peripheral nervous cell tumors	81.7	81.2	82.2	91.2	76.7	79.5	93.2	65.9 <sup>d</sup>	82.2
IV(a) Neuroblastoma and ganglioneuroblastoma	81.6	81.2	82.0	91.2	76.7	79.5	93.6	-	82.1
V Retinoblastoma	95.9	94.5	97.1	97.4	94.1	-	-	-	95.9
VI Renal tumors	91.4	89.8	92.7	87.3	94.0	92.4	84.6	79.6	92.3
VI(a) Nephroblastoma and other nonepithelial renal tumor	93.2	92.7	93.5	87.1	94.3	93.9	89.8 <sup>d</sup>	-	93.2
VII Hepatic tumors	77.6	77.0	78.1	85.7	79.6	80.4 <sup>d</sup>	67.1 <sup>d</sup>	56.0 <sup>d</sup>	79.8
VII(a) Hepatoblastoma	82.4	81.7	83.2	85.7	79.6	91.9 <sup>d</sup>	-	-	82.1
VIII Malignant bone tumors	71.1	70.1	72.4	-	84.3 <sup>d</sup>	77.5	69.5	68.4	72.8
VIII(a) Osteosarcoma	68.1	65.4	71.6	-	-	75.4	64.8	68.4	67.8
VIII(c) Ewing tumor and related sarcomas of bone	70.3	72.2	67.4	-	90.1 <sup>d</sup>	76.5 <sup>d</sup>	73.1	59.4	76.3
IX Soft tissue and other extraosseous sarcomas	73.7	71.3	76.7	75.3	74.5	80.0	73.3	70.6	75.4
IX(a) Rhabdomyosarcoma	66.0	66.2	65.6	81.3 <sup>d</sup>	69.4	78.5	58.2	50.1 <sup>d</sup>	69.8
X Germ cell & trophoblastic tumors & neo. of gonads	92.0	92.7	90.8	84.9	89.0	96.9	89.6	93.2	89.5
X(a) Intracranial and intraspinal germ-cell tumor	89.4	90.1	87.4	-	-	95.8	89.8	92.4	87.7
X(c) Malignant gonadal germ cell tumor	96.0	96.2	95.5	92.4 <sup>d</sup>	100.0	100.0	94.2	95.9	95.9
XI Other malignant epithelial neo. and melanomas <sup>f</sup>	94.4	91.7	95.6	-	88.2	95.8	95.1	94.3	94.8
XI(b) Thyroid carcinoma	99.8	99.7	99.8	-	-	100.0	99.4	99.9	99.5
XI(d) Malignant melanoma	94.9	93.7	95.7	-	89.7 <sup>d</sup>	98.6	95.0	94.7	95.5

<sup>a</sup> 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). [Expected survival rates](#) are derived from life tables by socio-economic status, geography and race developed by the SEER program.

<sup>b</sup> Based on follow-up of patients into 2018.  
International Classification of Childhood Cancer is based on ICD-O-3. International Classification of Childhood Cancer is based on ICD-O-3. Steliarova-Foucher E, Colombet M, Ries LAG, Moreno F, Dolya A, Shin HY, Hesselting P, Stiller CA. International Incidence of Childhood Cancer, Volume III. Lyon: International Agency for Research on Cancer, In press.

<sup>c</sup> 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.

<sup>d</sup> The standard error is between 5 and 10 percentage points.

<sup>e</sup> The standard error is greater than 10 percentage points.

<sup>f</sup> 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.