

Supplementary Materials

Supplementary Table 1. Cancers and ICD-O-3 codes examined

Disease	Code
I. Leukemias, myeloproliferative diseases, and myelodysplastic diseases	
(a) Lymphoid leukemias	9820, 9823, 9826, 9827, 9831-9837, 9940, 9948
(b) Acute myeloid leukemias	9840, 9861, 9866, 9867, 9870-9874, 9891, 9895-9897, 9910, 9920, 9931
(c) Chronic myeloproliferative diseases	9863, 9875, 9876, 9950, 9960-9964
(d) Myelodysplastic syndrome and other myeloproliferative diseases	9945, 9946, 9975, 9980, 9982-9987, 9989
(e) Unspecified and other specified leukemias	9800, 9801, 9805, 9860, 9930
II. Lymphomas and reticuloendothelial neoplasms	
(a) Hodgkin lymphomas	9650-9655, 9659, 9661-9665, 9667
(b) Non-Hodgkin lymphomas (except Burkitt lymphoma)	9591, 9670, 9671, 9673, 9675, 9678-9680, 9684, 9689-9691, 9695, 9698, 9699, 9700-9702, 9705, 9708, 9709, 9714, 9716-9719, 9727-9729, 9731-9734, 9760, 9761, 9762, 9764-9766, 9767, 9768, 9769, 9970
(c) Burkitt lymphoma	9687
(d) Miscellaneous lymphoreticular	9740-9742, 9750, 9754-9758
(e) Unspecified lymphomas	9590, 9596
III. CNS and miscellaneous intracranial and intraspinal neoplasms	
(a.1) Ependymomas	9383, 9391-9394
(b) Astrocytomas	9380, 9384, 9400-9411, 9420-9424, 9425, 9440-9442
(c.1) Medulloblastoma	9470-9472, 9474-9478, 9480
(c.2) Primitive neuroectodermal tumor (PNET)	9473
(c.3/c.4) Medulloepithelioma/Atypical teratoid/rhabdoid tumor	9501-9504, 9508
(d) Other gliomas	9380, 9381, 9382, 9430, 9444, 9450, 9451, 9460
(e) Other specified intracranial and intraspinal neoplasms	8270-8281, 8300, 9350-9352, 9360-9362, 9412, 9413, 9492, 9493, 9505-9507, 9530-9539, 9582
(f) Unspecified intracranial and intraspinal neoplasms	8000-8005
IV. Neuroblastoma and other peripheral nervous cell tumors	
(a) Neuroblastoma and Ganglioneuroblastoma	9490, 9500
(b) Other peripheral nervous cell tumors	8680-8683, 8690-8693, 8700, 9520-9523, 9501-9504
V. Retinoblastoma	
Retinoblastoma	9510-9514
VI. Renal tumors	
(a.1) Nephroblastoma	8959, 8960
(b) Renal carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8130-8141, 8143, 8155, 8190-8201, 8210, 8211, 8221-8231, 8240, 8241, 8244-8246, 8260-8263, 8290, 8310, 8320, 8323, 8401, 8430, 8440, 8480-8490, 8504, 8510, 8550, 8560-8576, 8311, 8312, 8316-8319, 8361
(c) Unspecified malignant renal tumors	8000-8005

VII. Hepatic tumors	
(a) Hepatoblastoma and mesenchymal tumors of the liver	8970
(b) Hepatic carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8140, 8141, 8143, 8155, 8190-8201, 8210, 8211, 8230, 8231, 8240, 8241, 8244-8246, 8260-8264, 8310, 8320, 8323, 8401, 8430, 8440, 8480-8490, 8504, 8510, 8550, 8560-8576, 8160-8180
(c) Unspecified malignant hepatic tumors	8000-8005
VIII. Malignant bone tumors	
(a) Osteosarcomas	9180-9187, 9191-9195, 9200
(b) Chondrosarcomas	9210-9213, 9220-9222, 9230, 9231, 9240-9243
(c) Ewing tumor and related sarcomas of bone	9260, 9364, 9365
(d) Other specified malignant bone tumors	8810, 8811, 8823, 8830, 8812, 9250, 9261, 9262, 9270-9275, 9280-9282, 9290, 9300-9302, 9310-9312, 9320-9322, 9330, 9340-9342, 9370-9372
(e) Unspecified malignant bone tumors	8000-8005, 8800, 8801, 8803-8805
IX. Soft tissue and other extrasosseous sarcomas	
(a) Rhabdomyosarcomas	8900-8905, 8910, 8912, 8920, 8991
(b) Fibrosarcomas, peripheral nerve sheath tumors, and other fibrous neoplasms	8810, 8811, 8813-8815, 8821, 8823, 8834-8835, 8820, 8822, 8824-8827, 9150, 9160, 9540-9571, 9491, 9580
(c) Kaposi sarcoma	9140
(d.1) Ewing tumor and Askin tumor of soft tissue	9260, 9365
(d.2) Peripheral neuroectodermal tumor (pPNET) of soft tissue	9364
(e) Other and unspecified malignant gonadal tumors	8800-8805
X. Germ cell tumors, trophoblastic tumors, and neoplasms of gonads	
(a) Intracranial and intraspinal germ cell tumors	9060-9065, 9070-9072, 9080-9085, 9100-9101 (C700-C729, C751-C753)
(b) Malignant extracranial and extragonadal germ cell tumors	9060-9065, 9070-9072, 9080-9085, 9100-9105 (C000-C559, C570-C619, C630-C699, C739-C750, C754-C768, C809)
(c) Malignant gonadal germ cell tumors	9060-9065, 9070-9073, 9080-9085, 9090, 9091, 9100, 9101 (C569, C620-C629)
(d) Gonadal carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8130-8141, 8143, 8190-8201, 8210, 8211, 8221-8241, 8244-8246, 8260-8263, 8290, 8310, 8313, 8320, 8323, 8380-8384, 8430, 8440, 8480-8490, 8504, 8510, 8550, 8560-8573, 9000, 9014, 9015, 8441-8444, 8450, 8451, 8460-8473
(e) Other and unspecified malignant gonadal tumors	8590-8671, 8000-8005
XI. Other malignant epithelial neoplasms and malignant melanomas	
(a) Adrenocortical carcinomas	8370-8375
(b) Thyroid carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8130-8141, 8190, 8200, 8201, 8211, 8230, 8231, 8244-8246, 8260-8263, 8290, 8310, 8320, 8323, 8430, 8440, 8480, 8481, 8510, 8560-8573, 8330-8337, 8340-8347, 8350
(c) Nasopharyngeal carcinomas	8010-8041, 8050-8075, 8082, 8083, 8120-8122, 8130-8141, 8190, 8200, 8201, 8211, 8230, 8231, 8244-8246, 8260-8263, 8290, 8310, 8320, 8323, 8430, 8440, 8480, 8481, 8500-8576
(d) Malignant melanomas	8720-8780, 8790
(e) Skin carcinomas	8010-8041, 8050-8075, 8078, 8082, 8090-8110, 8140, 8143, 8147, 8190, 8200, 8240, 8246, 8247, 8260, 8310, 8320, 8323, 8390-8420, 8430, 8480, 8542, 8560, 8570-8573, 8940, 8941
(f) Other and unspecified carcinomas	8010-8084, 8120-8157, 8190-8264, 8290, 8310, 8313-8315, 8320-8325, 8360, 8380-8384, 8430-8440, 8452-8454, 8480-8586, 8588-8589, 8940, 8941, 8983, 9000, 9010-9016, 9020, 9030
XII. Other and unspecified malignant neoplasms	

(a) Other specified malignant tumors	8930-8936, 8950, 8951, 8971-8981, 9050-9055, 9110, 9363
(b) Other unspecified malignant tumors	8000-8005

Supplementary Table 2. Annual percentage changes (APCs) and 95% confidence intervals (95% CIs) by malignant tumor histology type overall and sex among children and adolescents aged 0-19 at diagnosis stratified by tumor type, SEER 22 (2000-2019)

ICCC3	Year of diagnosis	Overall Count	Overall IR	Overall APC	Overall APC CI	Male Count	Male IR	Male APC	Male APC CI	Female Count	Female IR	Female APC	Female APC CI
Overall	2000-2019	148888	18.4	.8	(0.6 - 1.1)	79597	19.2	.8	(0.5 - 1)	69291	17.5	.9	(0.7 - 1.2)
I LEUKEMIAS, MYELOPROLIFERATIVE AND MYELODYSPLASTIC DISEASES	2000-2019	39756	4.9	.6	(0.3 - 0.9)	22204	5.4	.7	(0.4 - 1.1)	17552	4.5	.5	(0.1 - 0.8)
Ia Lymphoid leukemias	2000-2019	28686	3.6	.6	(0.3 - 0.8)	16295	4.0	.7	(0.4 - 1)	12391	3.1	.4	(0 - 0.7)
Ib Acute myeloid leukemias	2000-2019	6768	.8	.6	(0.2 - 1)	3544	.9	.5	(-0.2 - 1.1)	3224	.8	.7	(0.1 - 1.3)
Ic Chronic myeloproliferative diseases	2000-2019	2108	.3	1.2	(-0.4 - 2.7)	1124	.3	1.8	(0.1 - 3.6)	984	.2	.4	(-1.3 - 2.1)
Id Myelodysplastic syndrome and other myeloproliferative diseases	2000-2019	1181	.1	-.3	(-2.3 - 1.8)	664	.2	-.1	(-2.6 - 2.6)	517	.1	-.6	(-2.4 - 1.2)
Ie Unspecified and other specified leukemias	2000-2019	1013	.1	1.0	(-0.1 - 2.1)	577	.1	.9	(-0.7 - 2.5)	436	.1	1.1	(-0.5 - 2.9)
II LYMPHOMAS AND RETICULOENDOTHELIAL NEOPLASMS	2000-2019	22728	2.8	1.7	(1.2 - 2.2)	13590	3.3	1.9	(1.4 - 2.4)	9138	2.3	1.5	(0.9 - 2.2)
Ila Hodgkin lymphomas	2000-2019	9997	1.2	.1	(-0.2 - 0.4)	5384	1.3	.1	(-0.4 - 0.5)	4613	1.2	.0	(-0.5 - 0.6)
Ilb Non-Hodgkin lymphomas (except Burkitt lymphoma)	2000-2019	7897	1.0	1.7	(1 - 2.4)	4927	1.2	1.7	(1.1 - 2.4)	2970	.8	1.7	(0.8 - 2.7)
Ilc Burkitt lymphoma	2000-2019	1942	.2	-.5	(-1.3 - 0.2)	1568	.4	-.5	(-1.4 - 0.4)	374	.1	-.1	(-2.3 - 2.1)
Ild Miscellaneous lymphoreticular neoplasms	2000-2019	2594	.3	11.1	(6.7 - 15.6)	1536	.4	12.2	(7.9 - 16.6)	1058	.3	9.5	(4.7 - 14.5)
Ile Unspecified lymphomas	2000-2019	298	.0	-.7	(-3 - 1.6)	175	.0	1.3	(-1.2 - 3.8)	123	.0	-3.2	(-6.5 - 0.3)
III CNS AND MISCELLANEOUS INTRACRANIAL AND INTRASPINAL NEOPLASMS	2000-2019	25217	3.1	.1	(-0.3 - 0.5)	13506	3.3	.1	(-0.3 - 0.5)	11711	3.0	.1	(-0.5 - 0.6)
IIIa1 Ependymomas	2000-2019	2005	.2	.3	(-0.8 - 1.3)	1088	.3	.5	(-0.7 - 1.6)	917	.2	.0	(-1.3 - 1.4)
IIIb Astrocytomas	2000-2019	12801	1.6	.2	(-0.4 - 0.8)	6663	1.6	.2	(-0.4 - 0.8)	6138	1.6	.2	(-0.6 - 1)

IIIc1 Medulloblastomas	2000-2019	3228	.4	.2	(-0.3 - 0.7)	2044	.5	.4	(-0.1 - 0.9)	1184	.3	-.2	(-1.2 - 0.9)
IIIc2 Primitive neuroectodermal tumor (PNET)	2000-2019	935	.1	-7.1	(-8.9 - -5.2)	500	.1	-7.5	(-9.3 - -5.6)	435	.1	-6.6	(-8.9 - -4.3)
IIIc3/c4 Medulloepithelioma/Atypical teratoid/rhabdoid tumor	2000-2019	725	.1	3.4	(1.4 - 5.6)	385	.1	2.6	(0.1 - 5.2)	340	.1	4.1	(1.2 - 7.1)
IIIId Other gliomas	2000-2019	4485	.6	.7	(0 - 1.3)	2256	.5	.5	(-0.2 - 1.2)	2229	.6	.9	(-0.2 - 1.9)
IIIe Other specified intracranial and intraspinal neoplasms	2000-2019	518	.1	.4	(-1.1 - 2)	286	.1	.4	(-1.7 - 2.5)	232	.1	.4	(-2 - 2.8)
IIIf Unspecified intracranial and intraspinal neoplasms	2000-2019	338	.0	.8	(-0.9 - 2.5)	179	.0	.8	(-1.4 - 3.2)	159	.0	.3	(-2.4 - 3)
IV NEUROBLASTOMA AND OTHER PERIPHERAL NERVOUS CELL TUMORS	2000-2019	6690	.8	.0	(-0.6 - 0.6)	3550	.9	.1	(-0.8 - 0.9)	3140	.8	-.1	(-0.8 - 0.7)
IVa Neuroblastoma and ganglioneuroblastoma	2000-2019	6480	.8	.0	(-0.6 - 0.6)	3443	.8	.1	(-0.7 - 0.9)	3037	.8	-.1	(-0.9 - 0.7)
IVb Other peripheral nervous cell tumors	2000-2019	210	.0	-.3	(-3.1 - 2.7)	107	.0	-1.4	(-5.9 - 3.2)	103	.0	.8	(-1.4 - 3)
V RETINOBLASTOMA	2000-2019	2686	.3	-.2	(-0.7 - 0.3)	1358	.3	-.9	(-1.8 - 0)	1328	.3	.6	(-0.3 - 1.6)
VI RENAL TUMORS	2000-2019	5336	.7	.2	(-0.3 - 0.7)	2519	.6	.0	(-0.6 - 0.6)	2817	.7	.4	(-0.4 - 1.1)
VIa1 Nephroblastoma	2000-2019	4497	.6	.0	(-0.5 - 0.6)	2081	.5	.0	(-0.7 - 0.8)	2416	.6	.0	(-0.7 - 0.8)
VIb Renal carcinomas	2000-2019	524	.1	1.8	(0.1 - 3.6)	262	.1	1.2	(-0.6 - 3.2)	262	.1	2.1	(-0.4 - 4.6)
VIc Unspecified malignant renal tumors	2000-2019	23	.0	.	(. - .)	9	.0	.	(. - .)	14	.0	.	(. - .)
VII HEPATIC TUMORS	2000-2019	2156	.3	1.9	(1 - 2.9)	1246	.3	1.9	(0.8 - 3)	910	.2	2.0	(0.5 - 3.4)
VIIa Hepatoblastoma and mesenchymal tumors of liver	2000-2019	1654	.2	2.3	(1.2 - 3.4)	974	.2	2.2	(1 - 3.5)	680	.2	2.3	(0.6 - 4)
VIIb Hepatic carcinomas	2000-2019	484	.1	.5	(-0.8 - 1.9)	260	.1	.6	(-1.2 - 2.4)	224	.1	.3	(-1.8 - 2.4)
VIIc Unspecified malignant hepatic tumors	2000-2019	18	.0	.	(. - .)	12	.0	.	(. - .)	6	.0	.	(. - .)
VIII MALIGNANT BONE TUMORS	2000-2019	7501	.9	.4	(0 - 0.8)	4280	1.0	.6	(0 - 1.3)	3221	.8	.1	(-0.4 - 0.6)
VIIIa Osteosarcomas	2000-2019	4276	.5	.4	(0 - 0.7)	2431	.6	.9	(0.4 - 1.4)	1845	.5	-.4	(-1.1 - 0.3)

VIIIb Chondrosarcomas	2000-2019	302	.0	-1.4	(-4.1 - 1.2)	185	.0	-1.4	(-4.2 - 1.4)	117	.0	-1.6	(-5.5 - 2.5)
VIIIc Ewing tumor and related sarcomas of bone	2000-2019	2363	.3	.5	(-0.3 - 1.3)	1373	.3	.4	(-0.9 - 1.6)	990	.3	.6	(-0.3 - 1.5)
VIII d Other specified malignant bone tumors	2000-2019	389	.0	1.4	(-0.6 - 3.3)	190	.0	1.3	(-1 - 3.5)	199	.1	1.4	(-1 - 3.8)
VIIIe Unspecified malignant bone tumors	2000-2019	171	.0	.6	(-1.7 - 2.9)	101	.0	-.7	(-3.3 - 2.1)	70	.0	.	(. - .)
IX SOFT TISSUE AND OTHER EXTRAOSSEOUS SARCOMAS	2000-2019	9878	1.2	.1	(-0.1 - 0.4)	5444	1.3	.0	(-0.4 - 0.4)	4434	1.1	.3	(-0.1 - 0.8)
IXa Rhabdomyosarcomas	2000-2019	3676	.5	-.2	(-0.7 - 0.4)	2112	.5	-.4	(-1.1 - 0.4)	1564	.4	.1	(-0.8 - 1)
IXb Fibrosarcomas, peripheral nerve sheath tumors and oth fibrous neoplasms	2000-2019	1020	.1	-1.2	(-2.6 - 0.2)	558	.1	-.6	(-2.5 - 1.2)	462	.1	-1.9	(-3.3 - -0.5)
IXc Kaposi sarcoma	2000-2019	39	.0	.	(. - .)	35	.0	.	(. - .)	4	.0	.	(. - .)
IXd1 Ewing tumor and Askin tumor of soft tissue	2000-2019	532	.1	1.9	(0.4 - 3.4)	296	.1	1.6	(-0.6 - 4)	236	.1	2.5	(0.2 - 4.9)
IXd2 Peripheral neuroectodermal tumor (pPNET) of soft tissue	2000-2019	280	.0	-1.9	(-4.2 - 0.5)	156	.0	-.7	(-3.4 - 2.1)	124	.0	-3.4	(-6.7 - 0.1)
IXe Unspecified soft tissue sarcomas	2000-2019	1154	.1	2.0	(0.6 - 3.3)	629	.2	1.8	(0.2 - 3.4)	525	.1	2.2	(0.2 - 4.2)
X GERM CELL TUMORS, TROPHOBLASTIC TUMORS AND NEOPLASMS OF GONADS	2000-2019	9825	1.2	.6	(0.1 - 1.1)	6205	1.5	.8	(0.1 - 1.4)	3620	.9	.4	(-0.1 - 0.9)
Xa Intracranial and intraspinal germ cell tumors	2000-2019	1507	.2	.9	(0 - 1.8)	1106	.3	.9	(-0.1 - 1.9)	401	.1	.9	(-1 - 2.8)
Xb Malignant extracranial and extragonadal germ cell tumors	2000-2019	1257	.2	-.8	(-1.8 - 0.2)	572	.1	-.7	(-1.9 - 0.6)	685	.2	-.9	(-2.1 - 0.4)
Xc Malignant gonadal germ cell tumors	2000-2019	6421	.8	.6	(0 - 1.2)	4439	1.1	.8	(0.1 - 1.6)	1982	.5	.2	(-0.3 - 0.8)
Xd Gonadal carcinomas	2000-2019	364	.0	1.2	(-0.9 - 3.3)	31	.0	.	(. - .)	333	.1	1.4	(-0.8 - 3.8)
Xe Other and unspecified malignant gonadal tumors	2000-2019	276	.0	3.7	(1.6 - 5.7)	57	.0	.	(. - .)	219	.1	2.9	(1 - 4.8)

XI OTHER MALIGNANT EPITHELIAL NEOPLASMS AND MALIGNANT MELANOMAS	2000-2019	16244	2.0	2.8	(2.3 - 3.3)	5321	1.3	2.0	(1.2 - 2.8)	10923	2.7	3.2	(2.6 - 3.7)
XIa Adrenocortical carcinomas	2000-2019	174	.0	-.1	(-3.3 - 3.2)	66	.0	.4	(-4.4 - 5.4)	108	.0	-.1	(-3.3 - 3.1)
XIb Thyroid carcinomas	2000-2019	7317	.9	4.3	(3.6 - 5)	1398	.3	4.3	(3.1 - 5.4)	5919	1.5	4.3	(3.5 - 5.1)
XIc Nasopharyngeal carcinomas	2000-2019	417	.1	-.8	(-2.5 - 0.9)	276	.1	-1.3	(-3.6 - 1.2)	141	.0	.2	(-1.9 - 2.4)
XId Malignant melanomas	2000-2019	3628	.4	-3.4	(-4.3 - -2.5)	1538	.4	-3.9	(-5.1 - -2.7)	2090	.5	-3.1	(-4.2 - -1.9)
XIe Skin carcinomas	2000-2019	80	.0	4.3	(-0.3 - 9.1)	39	.0	.	(. - .)	41	.0	.	(. - .)
XIf Other and unspecified carcinomas	2000-2019	4628	.6	5.8	(4.5 - 7.1)	2004	.5	5.5	(4.1 - 6.9)	2624	.7	6.0	(4.5 - 7.5)
XII OTHER AND UNSPECIFIED MALIGNANT NEOPLASMS	2000-2019	708	.1	.6	(-0.8 - 2)	299	.1	1.5	(-0.4 - 3.3)	409	.1	-.1	(-2 - 1.7)
XIIa Other specified malignant tumors	2000-2019	373	.0	2.1	(-0.5 - 4.8)	161	.0	2.2	(-0.8 - 5.3)	212	.1	1.8	(-1.6 - 5.3)
XIIb Other unspecified malignant tumors	2000-2019	335	.0	-1.6	(-3.5 - 0.4)	138	.0	.3	(-2 - 2.6)	197	.0	-2.7	(-5.3 - -0.1)

Supplementary Table 3. Annual percentage changes (APCs) and 95% confidence intervals (95% CIs) by malignant tumor histology type and race/ethnicity among children and adolescents aged 0-19 at diagnosis stratified by tumor type, SEER 22 (2000-2019)

ICCC3	Year of diagnosis	NHW Count	NHW IR	NHW APC	NHW APC CI	NHB Count	NHB IR	NHB APC	NHB APC CI	AIAN Count	AIAN IR	AIAN APC	AIAN APC CI	API Count	API IR	API APC	API APC CI	Hispanic Count	Hispanic IR	Hispanic APC	Hispanic APC CI
Overall	2000-2019	76480	19.9	.7	(0.5 - 1)	15256	14.0	.9	(0.6 - 1.3)	906	15.6	1.7	(0.5 - 2.8)	9429	15.9	1.4	(0.7 - 2)	45208	18.1	1.0	(0.7 - 1.2)
I LEUKEMIAS, MYELOPROLIFERATIVE AND MYELODYSPLASTIC DISEASES	2000-2019	17792	4.7	.1	(-0.2 - 0.5)	3344	3.1	1.0	(0.1 - 1.8)	291	5.1	1.2	(-0.4 - 2.9)	2783	4.7	.6	(-0.3 - 1.5)	15228	6.0	.7	(0.3 - 1)
Ia Lymphoid leukemias	2000-2019	12916	3.4	.1	(-0.3 - 0.5)	1966	1.8	.6	(-0.4 - 1.7)	199	3.5	1.7	(-0.2 - 3.7)	1891	3.2	.3	(-0.7 - 1.2)	11496	4.5	.7	(0.3 - 1.1)
Ib Acute myeloid leukemias	2000-2019	3018	.8	.0	(-0.6 - 0.6)	833	.8	.9	(-0.8 - 2.6)	57	1.0	.	(. - .)	578	1.0	2.2	(0.8 - 3.8)	2242	.9	.6	(0 - 1.2)
Ic Chronic myeloproliferative diseases	2000-2019	947	.2	1.2	(-0.8 - 3.3)	301	.3	3.3	(0.9 - 5.8)	18	.3	.	(. - .)	156	.3	.0	(-2.4 - 2.5)	654	.3	.1	(-2 - 2.2)
Id Myelodysplastic syndrome and other myeloproliferative diseases	2000-2019	516	.1	-1.2	(-3.7 - 1.3)	136	.1	.	(. - .)	11	.2	.	(. - .)	100	.2	.	(. - .)	406	.2	.4	(-1.9 - 2.7)
Ie Unspecified and other specified leukemias	2000-2019	395	.1	.4	(-1.7 - 2.6)	108	.1	1.6	(-1.4 - 4.6)	6	.1	.	(. - .)	58	.1	.	(. - .)	430	.2	1.1	(-0.3 - 2.6)
II LYMPHOMAS AND RETICULOENDOTHELIAL NEOPLASMS	2000-2019	12111	3.1	1.8	(1.3 - 2.4)	2606	2.4	1.5	(0.7 - 2.3)	108	1.8	2.6	(-1 - 6.3)	1446	2.5	2.8	(1.9 - 3.7)	6200	2.5	1.7	(1.1 - 2.3)
Ila Hodgkin lymphomas	2000-2019	5731	1.4	.3	(-0.1 - 0.8)	1139	1.0	.5	(-0.6 - 1.7)	34	.6	.	(. - .)	505	.9	1.4	(0 - 2.8)	2501	1.0	-.4	(-1 - 0.2)
Ilb Non-Hodgkin lymphomas (except Burkitt lymphoma)	2000-2019	3862	1.0	1.6	(0.7 - 2.5)	1113	1.0	2.0	(0.5 - 3.6)	37	.6	.	(. - .)	602	1.0	2.3	(0.2 - 4.4)	2176	.9	1.7	(0.9 - 2.5)
Ilc Burkitt lymphoma	2000-2019	1175	.3	-.1	(-1.1 - 1)	173	.2	-.9	(-4.2 - 2.4)	12	.2	.	(. - .)	141	.2	1.3	(-1.6 - 4.2)	422	.2	-1.5	(-3.2 - 0.2)
Ild Miscellaneous lymphoreticular neoplasms	2000-2019	1216	.3	11.7	(6.8 - 16.9)	138	.1	7.6	(3.7 - 11.6)	22	.4	.	(. - .)	184	.3	.	(. - .)	993	.4	10.2	(6 - 14.5)
Ile Unspecified lymphomas	2000-2019	127	.0	-1.1	(-3.9 - 1.8)	43	.0	.	(. - .)	3	.1	.	(. - .)	14	.0	.	(. - .)	108	.0	-1.0	(-4.9 - 2.9)
III CNS AND MISCELLANEOUS INTRACRANIAL AND INTRASPINAL NEOPLASMS	2000-2019	14326	3.8	.4	(-0.1 - 0.9)	2730	2.5	.9	(0.1 - 1.7)	132	2.3	2.6	(-0.2 - 5.5)	1366	2.3	.5	(-0.7 - 1.7)	6409	2.5	-.4	(-0.8 - 0.1)
IIla1 Ependymomas	2000-2019	1019	.3	.8	(-0.5 - 2.1)	219	.2	1.1	(-1.5 - 3.8)	6	.1	.	(. - .)	114	.2	.8	(-2.7 - 4.4)	633	.2	-1.0	(-2.2 - 0.3)
IIlb Astrocytomas	2000-2019	7655	2.0	.5	(-0.1 - 1.2)	1350	1.2	1.0	(-0.2 - 2.2)	73	1.3	.	(. - .)	628	1.1	.7	(-1.1 - 2.4)	2943	1.2	-.2	(-1.1 - 0.6)
IIlc1 Medulloblastomas	2000-2019	1771	.5	.5	(-0.3 - 1.3)	274	.3	1.0	(-0.4 - 2.3)	16	.3	.	(. - .)	216	.4	1.9	(-0.1 - 3.9)	931	.4	-.9	(-1.8 - 0.1)
IIlc2 Primitive neuroectodermal tumor (PNET)	2000-2019	484	.1	-6.8	(-9.2 - -4.3)	107	.1	-5.0	(-7.4 - -2.5)	3	.1	.	(. - .)	65	.1	.	(. - .)	269	.1	-7.9	(-10 - -5.7)

IIIc3/c4 Medulloepithelioma/Atypical teratoid/rhabdoid tumor	2000-2019	358	.1	2.8	(-0.1 - 5.7)	77	.1	.	(. - .)	5	.1	.	(. - .)	56	.1	.	(. - .)	223	.1	4.3	(1.6 - 7.1)
IIIId Other gliomas	2000-2019	2521	.7	.9	(0 - 1.7)	531	.5	1.2	(-0.4 - 2.9)	23	.4	.	(. - .)	241	.4	-.4	(-2.9 - 2.2)	1124	.4	.7	(-0.8 - 2.2)
IIIe Other specified intracranial and intraspinal neoplasms	2000-2019	250	.1	.4	(-2 - 2.8)	107	.1	-.3	(-3.5 - 3)	4	.1	.	(. - .)	19	.0	.	(. - .)	133	.1	1.4	(-1.8 - 4.7)
IIIIf Unspecified intracranial and intraspinal neoplasms	2000-2019	178	.0	.5	(-2.2 - 3.4)	45	.0	1.9	(-3.1 - 7.2)	1	.0	.	(. - .)	14	.0	.	(. - .)	97	.0	1.0	(-2.4 - 4.5)
IV NEUROBLASTOMA AND OTHER PERIPHERAL NERVOUS CELL TUMORS	2000-2019	3869	1.0	-.1	(-0.7 - 0.6)	775	.7	.4	(-1.5 - 2.3)	36	.6	.	(. - .)	416	.7	1.1	(-0.4 - 2.7)	1527	.6	.4	(-0.6 - 1.4)
IVa Neuroblastoma and ganglioneuroblastoma	2000-2019	3748	1.0	-.1	(-0.7 - 0.6)	746	.7	.3	(-1.6 - 2.3)	34	.6	.	(. - .)	407	.7	1.2	(-0.4 - 2.9)	1478	.6	.4	(-0.7 - 1.5)
IVb Other peripheral nervous cell tumors	2000-2019	121	.0	.7	(-3 - 4.4)	29	.0	.	(. - .)	2	.0	.	(. - .)	9	.0	.	(. - .)	49	.0	.	(. - .)
V RETINOBLASTOMA	2000-2019	1115	.3	.4	(-0.7 - 1.5)	378	.4	-1.2	(-2.6 - 0.1)	21	.4	.	(. - .)	209	.3	-.1	(-1.9 - 1.8)	935	.3	-.7	(-1.6 - 0.2)
VI RENAL TUMORS	2000-2019	2663	.7	.2	(-0.5 - 1)	924	.9	.3	(-1.1 - 1.7)	41	.7	.	(. - .)	223	.4	1.1	(-1.4 - 3.6)	1429	.5	.7	(-0.6 - 2)
VIa1 Nephroblastoma	2000-2019	2266	.6	.2	(-0.6 - 1)	777	.7	.4	(-1 - 1.8)	32	.6	.	(. - .)	173	.3	.1	(-2.5 - 2.8)	1205	.5	.4	(-0.9 - 1.6)
VIb Renal carcinomas	2000-2019	255	.1	1.5	(-0.5 - 3.4)	114	.1	.	(. - .)	4	.1	.	(. - .)	29	.0	.	(. - .)	113	.0	.	(. - .)
VIc Unspecified malignant renal tumors	2000-2019	9	.0	.	(. - .)	2	.0	.	(. - .)	1	.0	.	(. - .)	2	.0	.	(. - .)	8	.0	.	(. - .)
VII HEPATIC TUMORS	2000-2019	938	.2	1.7	(0.7 - 2.7)	219	.2	2.7	(0.2 - 5.3)	18	.3	.	(. - .)	208	.3	-.6	(-3.9 - 2.8)	751	.3	2.3	(0.6 - 4.1)
VIIa Hepatoblastoma and mesenchymal tumors of liver	2000-2019	706	.2	1.7	(0.4 - 3.1)	154	.1	3.7	(0.3 - 7.2)	15	.3	.	(. - .)	161	.3	.4	(-2.9 - 3.9)	605	.2	2.6	(0.7 - 4.5)
VIIb Hepatic carcinomas	2000-2019	223	.1	1.1	(-0.7 - 3)	63	.1	-.2	(-3.9 - 3.6)	3	.1	.	(. - .)	46	.1	.	(. - .)	141	.1	.7	(-2.6 - 4.2)
VIIc Unspecified malignant hepatic tumors	2000-2019	9	.0	.	(. - .)	2	.0	.	(. - .)	0	.0	.	(. - .)	1	.0	.	(. - .)	5	.0	.	(. - .)
VIII MALIGNANT BONE TUMORS	2000-2019	3877	1.0	.5	(0.1 - 1)	859	.8	.1	(-1.2 - 1.3)	42	.7	.	(. - .)	491	.8	1.4	(0 - 2.9)	2188	.9	.2	(-0.6 - 0.9)
VIIIa Osteosarcomas	2000-2019	1928	.5	.6	(0 - 1.2)	680	.6	.2	(-1 - 1.5)	21	.4	.	(. - .)	285	.5	.4	(-1.5 - 2.3)	1341	.6	-.3	(-1.1 - 0.6)
VIIIb Chondrosarcomas	2000-2019	178	.0	-1.4	(-4.4 - 1.6)	34	.0	.	(. - .)	1	.0	.	(. - .)	13	.0	.	(. - .)	74	.0	-.8	(-3.8 - 2.4)
VIIIc Ewing tumor and related sarcomas of bone	2000-2019	1524	.4	.5	(-0.3 - 1.3)	72	.1	.	(. - .)	15	.3	.	(. - .)	147	.3	2.2	(-0.2 - 4.7)	589	.2	1.0	(-0.6 - 2.6)
IIId Other specified malignant bone tumors	2000-2019	184	.0	1.0	(-2.4 - 4.6)	36	.0	.	(. - .)	4	.1	.	(. - .)	36	.1	.	(. - .)	126	.1	.8	(-1.8 - 3.5)
VIIIe Unspecified malignant bone tumors	2000-2019	63	.0	.	(. - .)	37	.0	.	(. - .)	1	.0	.	(. - .)	10	.0	.	(. - .)	58	.0	.7	(-2.3 - 3.9)

IX SOFT TISSUE AND OTHER EXTRAOSSEOUS SARCOMAS	2000-2019	4853	1.3	.0	(-0.5 - 0.5)	1476	1.3	.7	(-0.3 - 1.7)	62	1.1	.	(. - .)	544	.9	1.8	(0.2 - 3.5)	2829	1.1	.0	(-0.6 - 0.6)
IXa Rhabdomyosarcomas	2000-2019	1836	.5	-.4	(-1.3 - 0.5)	553	.5	.0	(-1.7 - 1.6)	26	.5	.	(. - .)	203	.3	1.9	(-0.5 - 4.4)	1041	.4	.1	(-0.7 - 0.9)
IXb Fibrosarcomas, peripheral nerve sheath tumors and oth fibrous neoplasms	2000-2019	495	.1	-.8	(-2.5 - 0.9)	150	.1	-1.2	(-4.4 - 2)	8	.1	.	(. - .)	49	.1	.	(. - .)	298	.1	-2.6	(-5.1 - 0)
IXc Kaposi sarcoma	2000-2019	9	.0	.	(. - .)	18	.0	.	(. - .)	0	.0	.	(. - .)	1	.0	.	(. - .)	11	.0	.	(. - .)
IXd1 Ewing tumor and Askin tumor of soft tissue	2000-2019	296	.1	1.2	(-0.9 - 3.3)	28	.0	.	(. - .)	3	.0	.	(. - .)	26	.0	.	(. - .)	176	.1	2.7	(0.4 - 5.1)
IXd2 Peripheral neuroectodermal tumor (pPNET) of soft tissue	2000-2019	155	.0	-1.5	(-4.1 - 1.1)	18	.0	.	(. - .)	2	.0	.	(. - .)	16	.0	.	(. - .)	84	.0	-1.9	(-6 - 2.3)
IXe Unspecified soft tissue sarcomas	2000-2019	575	.1	2.6	(0.3 - 4.8)	188	.2	2.5	(-0.5 - 5.5)	3	.0	.	(. - .)	69	.1	.	(. - .)	304	.1	1.3	(-0.6 - 3.2)
X GERM CELL TUMORS, TROPHOBLASTIC TUMORS AND NEOPLASMS OF GONADS	2000-2019	4542	1.1	-.2	(-0.7 - 0.3)	739	.7	.6	(-0.3 - 1.5)	55	.9	.	(. - .)	725	1.2	.3	(-0.9 - 1.5)	3673	1.5	1.0	(0.3 - 1.8)
Xa Intracranial and intraspinal germ cell tumors	2000-2019	699	.2	.4	(-1.1 - 2)	139	.1	3.9	(1 - 6.9)	3	.1	.	(. - .)	217	.4	-.5	(-3.1 - 2.2)	444	.2	.6	(-0.8 - 2)
Xb Malignant extracranial and extragonadal germ cell tumors	2000-2019	544	.1	-.7	(-2.6 - 1.1)	155	.1	-1.4	(-3.2 - 0.4)	6	.1	.	(. - .)	124	.2	-1.2	(-3.7 - 1.4)	405	.2	-1.5	(-3.1 - 0)
Xc Malignant gonadal germ cell tumors	2000-2019	3003	.7	-.5	(-1.2 - 0.1)	358	.3	.1	(-1.2 - 1.5)	43	.7	.	(. - .)	340	.6	.6	(-1.3 - 2.5)	2621	1.1	1.5	(0.5 - 2.4)
Xd Gonadal carcinomas	2000-2019	175	.0	1.6	(-0.9 - 4.1)	29	.0	.	(. - .)	2	.0	.	(. - .)	35	.1	.	(. - .)	121	.1	.4	(-3.1 - 4)
Xe Other and unspecified malignant gonadal tumors	2000-2019	121	.0	4.7	(1.6 - 7.9)	58	.1	.	(. - .)	1	.0	.	(. - .)	9	.0	.	(. - .)	82	.0	.	(. - .)
XI OTHER MALIGNANT EPITHELIAL NEOPLASMS AND MALIGNANT MELANOMAS	2000-2019	9969	2.5	2.5	(2 - 3)	1104	1.0	1.6	(0.6 - 2.7)	94	1.5	.	(. - .)	959	1.6	4.0	(2.8 - 5.3)	3772	1.6	5.0	(4.3 - 5.7)
XIa Adrenocortical carcinomas	2000-2019	95	.0	.0	(-3.7 - 4)	10	.0	.	(. - .)	3	.1	.	(. - .)	9	.0	.	(. - .)	56	.0	.	(. - .)
XIb Thyroid carcinomas	2000-2019	4255	1.1	3.9	(3.1 - 4.6)	330	.3	4.3	(2 - 6.6)	43	.7	.	(. - .)	579	1.0	5.5	(3.7 - 7.3)	2016	.8	5.4	(4.3 - 6.5)
XIc Nasopharyngeal carcinomas	2000-2019	107	.0	-.5	(-3.5 - 2.7)	163	.1	-2.3	(-4.8 - 0.2)	4	.1	.	(. - .)	45	.1	.	(. - .)	98	.0	.	(. - .)
XId Malignant melanomas	2000-2019	2990	.8	-2.8	(-3.8 - -1.8)	48	.0	4.7	(0.3 - 9.3)	9	.2	.	(. - .)	65	.1	.	(. - .)	340	.1	-1.3	(-3.2 - 0.6)
XIe Skin carcinomas	2000-2019	39	.0	.	(. - .)	11	.0	.	(. - .)	0	.0	.	(. - .)	4	.0	.	(. - .)	22	.0	.	(. - .)

XIf Other and unspecified carcinomas	2000-2019	2483	.6	6.9	(5.4 - 8.6)	542	.5	1.0	(-0.4 - 2.4)	35	.6	.	(. - .)	257	.4	3.3	(1.3 - 5.4)	1240	.5	6.7	(5.2 - 8.3)
XII OTHER AND UNSPECIFIED MALIGNANT NEOPLASMS	2000-2019	347	.1	.3	(-1.6 - 2.2)	88	.1	.	(. - .)	4	.1	.	(. - .)	41	.1	.	(. - .)	217	.1	.3	(-2.6 - 3.2)
XIIa Other specified malignant tumors	2000-2019	188	.0	1.0	(-2 - 4)	53	.0	.	(. - .)	3	.1	.	(. - .)	24	.0	.	(. - .)	103	.0	4.7	(0.4 - 9.3)
XIIb Other unspecified malignant tumors	2000-2019	159	.0	-1.1	(-3.7 - 1.5)	35	.0	.	(. - .)	1	.0	.	(. - .)	17	.0	.	(. - .)	114	.0	-3.9	(-6.5 - 1.3)

Supplementary Table 4. Annual percentage changes (APCs) and 95% confidence intervals (95% CIs) by malignant tumor histology type and socioeconomic status (SES) quintile among children and adolescents aged 0-19 at diagnosis stratified by tumor type, SEER 22 (2000-2019)

ICCC3	Year of diagnosis	YOST 1 Count	YOS T1 IR	YOS T1 APC	YOST 1 APC CI	YOST 2 Count	YOS T2 IR	YOS T2 APC	YOST 2 APC CI	YOST 3 Count	YOS T3 IR	YOS T3 APC	YOST 3 APC CI	YOST 4 Count	YOS T4 IR	YOS T4 APC	YOST 4 APC CI	YOST 5 Count	YOS T5 IR	YOS T5 APC	YOST 5 APC CI
Overall	2006-2018	9494	15.7	1.6	(0.6 - 2.6)	9256	17.0	1.6	(0.7 - 2.5)	9586	17.9	1.4	(0.8 - 2)	11017	18.6	.8	(0.1 - 1.5)	14496	20.2	.3	(-0.1 - 0.7)
I LEUKEMIAS, MYELOPROLIFERATIVE AND MYELOYDYSPLASTIC DISEASES	2006-2018	2825	4.7	.7	(-0.3 - 1.7)	2669	4.9	.9	(0.1 - 1.8)	2593	4.8	1.3	(-0.2 - 2.7)	2892	4.9	1.0	(-0.2 - 2.3)	3474	4.9	-.8	(-1.6 - -0.1)
Ia Lymphoid leukemias	2006-2018	2036	3.4	.7	(-0.2 - 1.6)	1940	3.6	.7	(-0.4 - 1.9)	1897	3.6	.9	(-0.4 - 2.2)	2094	3.6	1.1	(-0.3 - 2.5)	2564	3.6	-.6	(-1.4 - 0.3)
Ib Acute myeloid leukemias	2006-2018	513	.8	.4	(-2.2 - 3)	469	.9	1.2	(-1.9 - 4.4)	448	.8	1.6	(-1.6 - 4.8)	522	.9	1.4	(-0.9 - 3.8)	577	.8	-1.4	(-2.9 - 0.1)
Ic Chronic myeloproliferative diseases	2006-2018	124	.2	1.7	(-1.9 - 5.4)	121	.2	1.8	(-2.6 - 6.5)	123	.2	2.0	(-3.5 - 7.8)	114	.2	-4.1	(-9 - 1.1)	174	.2	-1.4	(-4 - 1.3)
Id Myelodysplastic syndrome and other myeloproliferative diseases	2006-2018	85	.1	.5	(-5.6 - 7.1)	77	.1	-1.2	(-9.8 - 8.1)	86	.2	5.9	(1.1 - 11.1)	95	.2	-.1	(-6.6 - 6.9)	101	.1	-6.3	(-11.7 - -0.6)
Ie Unspecified and other specified leukemias	2006-2018	67	.1	.6	(-4.6 - 6)	62	.1	5.9	(-1.6 - 14)	39	.1	6.3	(-1.2 - 14.4)	67	.1	5.7	(0.1 - 11.7)	58	.1	6.1	(-0.5 - 13.1)
II LYMPHOMAS AND RETICULOENDOTHELIAL NEOPLASMS	2006-2018	1516	2.5	2.5	(0.7 - 4.4)	1383	2.6	2.5	(0.7 - 4.2)	1427	2.7	2.2	(0.9 - 3.5)	1742	2.9	2.1	(0.7 - 3.6)	2411	3.3	2.1	(-0.1 - 4.3)
Ila Hodgkin lymphomas	2006-2018	624	1.1	.3	(-2 - 2.7)	548	1.0	-2.5	(-3.8 - -1.2)	628	1.2	-.2	(-2.6 - 2.3)	733	1.2	.7	(-1.4 - 2.9)	1052	1.4	-.9	(-2.4 - 0.5)
Ilb Non-Hodgkin lymphomas (except Burkitt lymphoma)	2006-2018	572	1.0	3.3	(0.3 - 6.5)	481	.9	3.8	(0.7 - 7)	485	.9	2.1	(-0.1 - 4.4)	612	1.0	1.5	(-1.3 - 4.5)	830	1.1	3.0	(-1 - 7.3)
Ilc Burkitt lymphoma	2006-2018	107	.2	-3.5	(-10.4 - 4)	123	.2	1.8	(-3.9 - 7.8)	127	.2	2.3	(-3.5 - 8.4)	154	.3	-.6	(-3.6 - 2.5)	209	.3	-.3	(-3.2 - 2.7)
Ild Miscellaneous	2006-2018	188	.3	8.1	(-1.3 - 18.4)	211	.4	10.2	(-1.1 - 22.8)	166	.3	12.0	(2.9 - 21.8)	221	.4	8.5	(-2.5 - 20.6)	304	.4	8.1	(-1 - 18.1)

lymphoreticular neoplasms																					
Ile Unspecified lymphomas	2006-2018	25	.0	.	(. - .)	20	.0	.	(. - .)	21	.0	.	(. - .)	22	.0	.	(. - .)	16	.0	.	(. - .)
III CNS AND MISCELLANEOUS INTRACRANIAL AND INTRASPINAL NEOPLASMS	2006-2018	1450	2.4	.6	(-0.9 - 2.2)	1454	2.7	.9	(-1.4 - 3.2)	1580	3.0	.4	(-1.3 - 2.1)	1877	3.2	-.8	(-2.5 - 1)	2477	3.4	-.4	(-1.8 - 1)
IIIa1 Ependymomas	2006-2018	118	.2	-2.0	(-7.9 - 4.3)	135	.2	4.6	(1.4 - 7.9)	126	.2	-1.0	(-6.1 - 4.4)	152	.3	.0	(-4.1 - 4.3)	183	.3	1.7	(-2 - 5.6)
IIIb Astrocytomas	2006-2018	711	1.2	2.1	(0 - 4.2)	741	1.4	-.6	(-3.5 - 2.3)	792	1.5	1.0	(-1.8 - 3.9)	943	1.6	-1.4	(-3.5 - 0.7)	1289	1.8	.0	(-1.8 - 1.9)
IIIc1 Medulloblastomas	2006-2018	192	.3	-.6	(-5.9 - 5)	191	.4	3.0	(-2.8 - 9.2)	216	.4	1.2	(-2.2 - 4.7)	261	.4	1.9	(-0.9 - 4.7)	324	.4	-.4	(-2.3 - 1.5)
IIIc2 Primitive neuroectodermal tumor (PNET)	2006-2018	59	.1	.	(. - .)	46	.1	.	(. - .)	52	.1	.	(. - .)	65	.1	.	(. - .)	76	.1	-6.8	(-14.5 - 1.5)
IIIc3/c4 Medulloepithelioma/Atypical teratoid/rhabdoid tumor	2006-2018	56	.1	8.3	(0.6 - 16.5)	49	.1	-1.5	(-7.5 - 4.8)	61	.1	3.2	(-2.1 - 8.9)	62	.1	.0	(-7.8 - 8.6)	76	.1	1.9	(-4.6 - 8.9)
IIId Other gliomas	2006-2018	245	.4	-1.0	(-3.6 - 1.8)	235	.4	2.3	(-2.7 - 7.6)	281	.5	.3	(-2.8 - 3.5)	313	.5	.1	(-3.2 - 3.6)	440	.6	-1.3	(-5.2 - 2.7)
IIIe Other specified intracranial and intraspinal neoplasms	2006-2018	34	.1	-3.7	(-13.8 - 7.5)	32	.1	.	(. - .)	26	.0	.	(. - .)	36	.1	.	(. - .)	53	.1	.7	(-7.2 - 9.4)
IIIf Unspecified intracranial and intraspinal neoplasms	2006-2018	21	.0	.	(. - .)	15	.0	.	(. - .)	10	.0	.	(. - .)	23	.0	.	(. - .)	19	.0	.	(. - .)
IV NEUROBLASTOMA AND OTHER PERIPHERAL NERVOUS CELL TUMORS	2006-2018	407	.6	-1.0	(-4 - 2)	384	.7	.9	(-1.5 - 3.4)	424	.8	-1.0	(-3.4 - 1.5)	507	.9	1.4	(-1.1 - 4)	601	.9	-.8	(-3.7 - 2.1)
IVa Neuroblastoma and ganglioneuroblastoma	2006-2018	394	.6	-1.1	(-4.1 - 1.9)	372	.7	.9	(-1.8 - 3.6)	406	.7	-.7	(-3 - 1.6)	495	.8	1.2	(-1.2 - 3.7)	582	.9	-.8	(-3.7 - 2.3)

IVb Other peripheral nervous cell tumors	2006-2018	13	.0	.	(. - .)	12	.0	.	(. - .)	18	.0	.	(. - .)	12	.0	.	(. - .)	19	.0	.	(. - .)
V RETINOBLASTOMA	2006-2018	207	.3	.6	(-4.1 - 5.6)	197	.3	-1.0	(-4.4 - 2.6)	178	.3	-1.1	(-4.2 - 2.1)	163	.3	-1.4	(-5.4 - 2.9)	206	.3	-3	(-3.1 - 2.6)
VI RENAL TUMORS	2006-2018	374	.6	.8	(-2 - 3.7)	344	.6	-.1	(-5.2 - 5.2)	381	.7	1.3	(-1.9 - 4.6)	405	.7	1.2	(-0.7 - 3.1)	461	.7	-.4	(-2.6 - 1.7)
VIa1 Nephroblastoma	2006-2018	327	.5	.8	(-2.6 - 4.3)	284	.5	-.9	(-5.4 - 3.9)	322	.6	-.4	(-4 - 3.3)	342	.6	1.1	(-1.5 - 3.9)	394	.6	-.3	(-3 - 2.4)
VIb Renal carcinomas	2006-2018	33	.1	2.5	(-7 - 12.9)	39	.1	.	(. - .)	38	.1	.	(. - .)	38	.1	.	(. - .)	48	.1	1.9	(-3.9 - 7.9)
VIc Unspecified malignant renal tumors	2006-2018	1	.0	.	(. - .)	2	.0	.	(. - .)	1	.0	.	(. - .)	1	.0	.	(. - .)	3	.0	.	(. - .)
VII HEPATIC TUMORS	2006-2018	151	.2	1.3	(-3.6 - 6.4)	146	.3	-2.9	(-7.5 - 1.9)	154	.3	2.9	(-1.3 - 7.3)	153	.3	-.9	(-6.3 - 4.7)	214	.3	.9	(-2.5 - 4.4)
VIIa Hepatoblastoma and mesenchymal tumors of liver	2006-2018	115	.2	2.9	(-2.4 - 8.4)	114	.2	-2.4	(-8.7 - 4.3)	121	.2	3.5	(-0.7 - 7.9)	116	.2	3.0	(-2.4 - 8.8)	166	.2	-.1	(-4.2 - 4.3)
VIIb Hepatic carcinomas	2006-2018	36	.1	.	(. - .)	31	.1	-7.6	(-14.5 - -0.1)	33	.1	.	(. - .)	37	.1	.	(. - .)	48	.1	4.6	(-1 - 10.5)
VIIc Unspecified malignant hepatic tumors	2006-2018	0	.0	.	(. - .)	1	.0	.	(. - .)	0	.0	.	(. - .)	0	.0	.	(. - .)	0	.0	.	(. - .)
VIII MALIGNANT BONE TUMORS	2006-2018	438	.7	2.0	(-2.1 - 6.2)	456	.9	2.4	(-0.6 - 5.6)	501	.9	.4	(-3 - 3.8)	533	.9	-1.4	(-4.2 - 1.4)	760	1.0	.7	(-0.9 - 2.4)
VIIIa Osteosarcomas	2006-2018	278	.5	1.9	(-3.1 - 7.2)	266	.5	2.4	(-1.4 - 6.3)	257	.5	.4	(-3.9 - 4.8)	321	.5	-1.4	(-4.6 - 1.8)	427	.6	2.3	(-0.5 - 5.2)
VIIIb Chondrosarcomas	2006-2018	12	.0	.	(. - .)	21	.0	.	(. - .)	29	.1	.	(. - .)	17	.0	.	(. - .)	30	.0	-3.1	(-12.3 - 7.1)
VIIIc Ewing tumor and related sarcomas of bone	2006-2018	108	.2	1.8	(-4 - 8)	142	.3	2.5	(-1.8 - 7.1)	181	.3	-.5	(-4.4 - 3.6)	156	.3	.1	(-4.3 - 4.7)	249	.3	-.4	(-3.8 - 3.1)
VIIIId Other specified malignant bone tumors	2006-2018	25	.0	4.3	(-2.6 - 11.7)	17	.0	.	(. - .)	22	.0	.	(. - .)	32	.1	.	(. - .)	38	.1	-6.8	(-14.7 - 1.9)
VIIIe Unspecified malignant bone tumors	2006-2018	15	.0	.	(. - .)	10	.0	.	(. - .)	12	.0	.	(. - .)	7	.0	.	(. - .)	16	.0	.	(. - .)

IX SOFT TISSUE AND OTHER EXTRAOSSEOUS SARCOMAS	2006-2018	624	1.0	1.1	(-1.8 - 4.1)	633	1.2	.9	(-1.6 - 3.4)	616	1.2	-1.2	(-3 - 0.5)	698	1.2	1.1	(-1 - 3.2)	929	1.3	-.7	(-1.8 - 0.5)
IXa Rhabdomyosarcomas	2006-2018	211	.3	-1.7	(-5.4 - 2.2)	236	.4	-.8	(-3.6 - 2)	238	.4	-1.9	(-4.4 - 0.7)	251	.4	3.4	(0.3 - 6.6)	345	.5	-2.1	(-5 - 0.8)
IXb Fibrosarcomas, peripheral nerve sheath tumors and other fibrous neoplasms	2006-2018	65	.1	3.5	(-5 - 12.7)	60	.1	.3	(-7.7 - 8.9)	56	.1	-1.8	(-8.3 - 5.2)	77	.1	-1.0	(-8.7 - 7.3)	99	.1	.7	(-5.9 - 7.9)
IXc Kaposi sarcoma	2006-2018	7	.0	.	(. - .)	1	.0	.	(. - .)	2	.0	.	(. - .)	0	.0	.	(. - .)	2	.0	.	(. - .)
IXd1 Ewing tumor and Askin tumor of soft tissue	2006-2018	37	.1	.	(. - .)	32	.1	.	(. - .)	43	.1	-2.8	(-9 - 3.8)	48	.1	-3.7	(-10.7 - 3.9)	61	.1	-2.5	(-11 - 6.9)
IXd2 Peripheral neuroectodermal tumor (pPNET) of soft tissue	2006-2018	13	.0	.	(. - .)	16	.0	.	(. - .)	16	.0	.	(. - .)	20	.0	-.3	(-7.7 - 7.6)	29	.0	.	(. - .)
IXe Unspecified soft tissue sarcomas	2006-2018	68	.1	-.2	(-4.6 - 4.3)	72	.1	3.0	(-1.9 - 8.1)	78	.1	1.4	(-3.7 - 6.9)	83	.1	1.7	(-4.8 - 8.6)	98	.1	1.8	(-2.4 - 6.2)
X GERM CELL TUMORS, TROPHOBLASTIC TUMORS AND NEOPLASMS OF GONADS	2006-2018	632	1.0	3.5	(-0.3 - 7.5)	632	1.2	-.3	(-2.9 - 2.4)	664	1.2	.9	(-1.4 - 3.3)	693	1.2	-.9	(-2.7 - 1)	913	1.3	-1.1	(-2.3 - 0.1)
Xa Intracranial and intraspinal germ cell tumors	2006-2018	90	.2	8.6	(0.2 - 17.7)	100	.2	-2.8	(-5.5 - -0.1)	94	.2	1.5	(-3.4 - 6.6)	116	.2	-2.4	(-6.5 - 1.9)	157	.2	-.8	(-4.6 - 3.1)
Xb Malignant extracranial and extragonadal germ cell tumors	2006-2018	74	.1	-3.6	(-10.3 - 3.7)	72	.1	-4.5	(-11.7 - 3.2)	101	.2	-.2	(-5.6 - 5.6)	75	.1	-2.1	(-7.8 - 4.1)	108	.2	1.3	(-4.7 - 7.7)
Xc Malignant gonadal germ cell tumors	2006-2018	426	.7	3.8	(-0.4 - 8.2)	416	.8	1.1	(-2.4 - 4.8)	435	.8	.4	(-2.8 - 3.7)	451	.7	-.7	(-3.2 - 1.8)	602	.8	-1.6	(-3.6 - 0.4)

Xd Gonadal carcinomas	2006-2018	21	.0	.	(. - .)	25	.0	.	(. - .)	23	.0	.	(. - .)	34	.1	-1.5	(-7.8 - 5.3)	31	.0	.	(. - .)
Xe Other and unspecified malignant gonadal tumors	2006-2018	21	.0	.	(. - .)	19	.0	.	(. - .)	11	.0	.	(. - .)	17	.0	.	(. - .)	15	.0	.	(. - .)
XI OTHER MALIGNANT EPITHELIAL NEOPLASMS AND MALIGNANT MELANOMAS	2006-2018	821	1.4	5.3	(3.7 - 7)	914	1.7	6.9	(4.9 - 9)	1030	1.9	5.4	(2.7 - 8.2)	1294	2.2	2.8	(1.3 - 4.3)	1981	2.7	2.5	(1.2 - 3.9)
XIa Adrenocortical carcinomas	2006-2018	14	.0	.	(. - .)	11	.0	.	(. - .)	14	.0	.	(. - .)	10	.0	.	(. - .)	20	.0	.	(. - .)
XIb Thyroid carcinomas	2006-2018	382	.6	7.7	(4.3 - 11.3)	443	.8	4.9	(1.6 - 8.4)	468	.9	3.6	(0.5 - 6.9)	638	1.1	3.0	(0.7 - 5.4)	898	1.2	3.6	(2.3 - 4.8)
XIc Nasopharyngeal carcinomas	2006-2018	48	.1	-5.4	(-13.3 - 3.3)	32	.1	.	(. - .)	22	.0	.	(. - .)	22	.0	.	(. - .)	28	.0	.	(. - .)
XId Malignant melanomas	2006-2018	97	.2	-5	(-5.2 - 4.5)	117	.2	1.3	(-2.8 - 5.5)	192	.4	-5	(-6 - 5.4)	277	.5	-2.3	(-4.7 - 0.1)	528	.7	-3.8	(-6.6 - -0.9)
XIe Skin carcinomas	2006-2018	6	.0	.	(. - .)	3	.0	.	(. - .)	5	.0	.	(. - .)	6	.0	.	(. - .)	13	.0	.	(. - .)
XIf Other and unspecified carcinomas	2006-2018	274	.5	5.6	(2.7 - 8.6)	308	.6	13.3	(10.1 - 16.7)	329	.6	12.1	(7.7 - 16.8)	341	.6	7.2	(4.3 - 10.1)	494	.7	8.9	(4.2 - 13.9)
XII OTHER AND UNSPECIFIED MALIGNANT NEOPLASMS	2006-2018	39	.1	1.9	(-5 - 9.3)	34	.1	.	(. - .)	30	.1	.	(. - .)	47	.1	.	(. - .)	54	.1	4.6	(-5 - 15.1)
XIIa Other specified malignant tumors	2006-2018	26	.0	.	(. - .)	19	.0	.	(. - .)	18	.0	.	(. - .)	31	.1	.	(. - .)	36	.1	5.8	(-4.2 - 16.9)
XIIb Other unspecified malignant tumors	2006-2018	13	.0	.	(. - .)	15	.0	.	(. - .)	12	.0	.	(. - .)	16	.0	.	(. - .)	18	.0	.	(. - .)

Supplementary Table 5. Annual percentage changes (APCs) and 95% confidence intervals (95% CIs) by age at diagnosis grouping and sex among children and adolescents aged 0-19 at diagnosis stratified by age grouping among children with ALL, SEER 22 (2000-2019)

ICCC3	Year of diagnosis	Pediatric age groups	Overall Count	Overall IR	Overall APC	Overall APC CI	Male Count	Male IR	Male APC	Male APC CI	Female Count	Female IR	Female APC	Female APC CI
la Lymphoid leukemias	2000-2019	00 years	809	2.1	-1.7	(-2.7 - -0.7)	404	2.0	-.7	(-2.8 - 1.3)	405	2.1	-2.7	(-4.1 - -1.3)
la Lymphoid leukemias	2000-2019	01-04 years	12284	7.8	.2	(-0.2 - 0.5)	6683	8.3	.0	(-0.4 - 0.5)	5601	7.3	.3	(-0.2 - 0.8)
la Lymphoid leukemias	2000-2019	05-09 years	7128	3.6	.8	(0.3 - 1.2)	3969	3.9	1.2	(0.5 - 1.8)	3159	3.3	.2	(-0.4 - 0.8)
la Lymphoid leukemias	2000-2019	10-14 years	4652	2.3	1.4	(0.8 - 2)	2657	2.5	1.4	(0.6 - 2.3)	1995	2.0	1.4	(0.7 - 2.1)
la Lymphoid leukemias	2000-2019	15-19 years	3813	1.8	.9	(0.4 - 1.4)	2582	2.4	1.2	(0.5 - 1.8)	1231	1.2	.3	(-0.8 - 1.4)

Supplementary Table 6. Annual percentage changes (APCs) and 95% confidence intervals (95% CIs) by age at diagnosis grouping and race/ethnicity among children and adolescents aged 0-19 at diagnosis stratified by age grouping among children with ALL, SEER 22 (2000-2019)

ICCC3	Year of diagnosis	Pediatric age groups	NHW Count	NH W IR	NHW APC	NHW APC CI	NHB Count	NH B IR	NHB APC	NHB APC CI	AIAN Count	AIA N IR	AIAN APC	AIAN APC CI	API Count	AP I IR	API APC	API APC CI	Hisp Count	His p IR	Hisp APC	Hisp APC CI
la Lymphoid leukemias	2000-2019	00 years	361	2.0	-2.0	(-4.1 - 0.1)	81	1.6	-.3	(-4.3 - 4)	8	3.0	.	(. - .)	56	1.8	.	(. - .)	294	2.2	-2.1	(-3.9 - -0.2)
la Lymphoid leukemias	2000-2019	01-04 years	5929	8.3	-.1	(-0.6 - 0.4)	733	3.6	.9	(-0.7 - 2.6)	92	8.5	1.9	(-1.5 - 5.4)	856	7.1	-.4	(-1.6 - 0.8)	4561	8.8	.3	(-0.2 - 0.7)
la Lymphoid leukemias	2000-2019	05-09 years	3136	3.4	.7	(0.1 - 1.4)	493	1.9	.5	(-1 - 2)	41	2.9	2.2	(-1.6 - 6.1)	469	3.2	.1	(-1.7 - 1.8)	2942	4.7	.4	(-0.2 - 0.9)
la Lymphoid leukemias	2000-2019	10-14 years	1886	1.9	.4	(-0.4 - 1.2)	396	1.4	.2	(-1.8 - 2.4)	31	2.1	.	(. - .)	306	2.1	1.7	(-0.4 - 3.9)	2006	3.3	1.7	(0.8 - 2.7)
la Lymphoid leukemias	2000-2019	15-19 years	1604	1.6	-.4	(-1.1 - 0.2)	263	.9	.5	(-1.9 - 2.9)	27	1.7	.	(. - .)	204	1.4	1.6	(-0.6 - 3.8)	1693	2.8	1.4	(0.7 - 2)