

Table 19: Selected Childhood Primary (Malignant and Non-Malignant) Brain and Central Nervous System Tumor, Age-Specific and Age-Adjusted Incidence Rates^a by Major Histology Groupings, Histology and Age at Diagnosis; CBTRUS Statistical Report: NPCR and SEER, 2004-2006

	Age At Diagnosis								Age at Diagnosis			
	0-4		5-9		10-14		15-19		0-19 ^b		0-14 ^b	
	Rate	95% C.I.	Rate	95% C.I.	Rate	95% C.I.	Rate	95% C.I.	Adjusted Rate	95% C.I.	Adjusted Rate	95% C.I.
<u>Tumors of Neuroepithelial Tissue</u>	4.39	(4.25-4.54)	3.54	(3.41-3.68)	3.01	(2.89-3.13)	2.71	(2.60-2.83)	3.40	(3.34-3.47)	3.63	(3.56-3.71)
Pilocytic astrocytoma	0.89	(0.83-0.96)	0.89	(0.82-0.96)	0.83	(0.77-0.90)	0.61	(0.56-0.67)	0.80	(0.77-0.84)	0.87	(0.83-0.91)
Protoplasmic & fibrillary astrocytoma	0.04	(0.03-0.05)	0.05	(0.03-0.07)	0.06	(0.04-0.07)	0.05	(0.04-0.07)	0.05	(0.04-0.06)	0.05	(0.04-0.06)
Anaplastic astrocytoma	0.06	(0.04-0.07)	0.08	(0.06-0.11)	0.09	(0.07-0.12)	0.10	(0.08-0.12)	0.08	(0.07-0.09)	0.08	(0.07-0.09)
Unique astrocytoma variants	0.06	(0.04-0.08)	0.10	(0.08-0.13)	0.14	(0.11-0.17)	0.13	(0.10-0.15)	0.11	(0.10-0.12)	0.10	(0.09-0.11)
Astrocytoma, NOS	0.27	(0.23-0.31)	0.20	(0.17-0.23)	0.21	(0.18-0.25)	0.21	(0.18-0.24)	0.22	(0.21-0.24)	0.23	(0.21-0.25)
Glioblastoma	0.09	(0.07-0.11)	0.14	(0.11-0.17)	0.15	(0.12-0.18)	0.18	(0.15-0.21)	0.14	(0.13-0.15)	0.13	(0.11-0.14)
Oligodendroglioma	0.04	(0.03-0.05)	0.04	(0.03-0.06)	0.07	(0.05-0.09)	0.11	(0.09-0.14)	0.06	(0.06-0.07)	0.05	(0.04-0.06)
Anaplastic oligodendroglioma	-	-	-	-	-	-	0.03	(0.02-0.05)	0.02	(0.01-0.02)	0.01	(0.01-0.02)
Ependymoma/anaplastic ependymoma	0.41	(0.37-0.46)	0.23	(0.20-0.26)	0.17	(0.14-0.20)	0.18	(0.15-0.21)	0.25	(0.23-0.26)	0.27	(0.25-0.29)
Ependymoma variants	-	-	-	-	-	-	0.08	(0.06-0.10)	0.04	(0.03-0.04)	0.02	(0.02-0.03)
Mixed glioma	0.03	(0.02-0.04)	0.02	(0.01-0.04)	0.03	(0.02-0.05)	0.05	(0.04-0.07)	0.04	(0.03-0.04)	0.03	(0.02-0.04)
Glioma malignant, NOS	0.86	(0.79-0.92)	0.77	(0.70-0.83)	0.39	(0.35-0.44)	0.23	(0.20-0.26)	0.56	(0.53-0.58)	0.67	(0.63-0.70)
Choroid plexus	0.24	(0.21-0.28)	0.04	(0.03-0.06)	0.04	(0.03-0.05)	0.04	(0.02-0.05)	0.09	(0.08-0.10)	0.11	(0.09-0.12)
Neuroepithelial	-	-	-	-	-	-	-	-	0.01	(0.01-0.02)	-	-
Non-malignant and malignant neuronal/glial	0.39	(0.35-0.44)	0.33	(0.29-0.37)	0.43	(0.38-0.48)	0.46	(0.41-0.51)	0.40	(0.38-0.42)	0.38	(0.36-0.41)
Pineal parenchymal	0.06	(0.04-0.07)	0.04	(0.03-0.06)	0.03	(0.02-0.05)	0.04	(0.02-0.05)	0.04	(0.03-0.05)	0.04	(0.03-0.05)
Embryonal/primitive/medulloblastoma	0.96	(0.89-1.03)	0.57	(0.51-0.62)	0.31	(0.27-0.35)	0.22	(0.18-0.25)	0.51	(0.48-0.53)	0.61	(0.57-0.64)
<u>Tumors of Cranial and Spinal Nerves</u>	0.24	(0.21-0.28)	0.20	(0.17-0.23)	0.22	(0.19-0.26)	0.35	(0.31-0.39)	0.25	(0.24-0.27)	0.22	(0.20-0.24)
Nerve sheath, non-malignant and malignant	0.24	(0.21-0.28)	0.20	(0.17-0.23)	0.22	(0.19-0.26)	0.35	(0.31-0.39)	0.25	(0.24-0.27)	0.22	(0.20-0.24)
<u>Tumors of Meninges</u>	0.12	(0.10-0.14)	0.09	(0.07-0.11)	0.18	(0.15-0.21)	0.34	(0.30-0.38)	0.18	(0.17-0.20)	0.13	(0.11-0.14)
Meningioma	0.08	(0.06-0.10)	0.06	(0.05-0.08)	0.12	(0.10-0.15)	0.23	(0.20-0.26)	0.12	(0.11-0.14)	0.09	(0.08-0.10)
Other mesenchymal, non-malignant and malignant	-	-	-	-	-	-	0.03	(0.02-0.04)	0.03	(0.02-0.03)	0.02	(0.02-0.03)
Hemangioblastoma	-	-	-	-	-	-	0.09	(0.07-0.11)	0.03	(0.03-0.04)	0.01	(0.01-0.02)
<u>Lymphomas and Hemopoietic Neoplasms</u>	-	-	-	-	-	-	0.03	(0.02-0.05)	0.02	(0.01-0.02)	0.02	(0.01-0.02)
<u>Germ Cell Tumors and Cysts</u>	0.13	(0.11-0.16)	0.12	(0.10-0.15)	0.28	(0.25-0.32)	0.27	(0.23-0.31)	0.20	(0.19-0.22)	0.18	(0.16-0.20)
<u>Tumors of Sellar Region</u>	0.14	(0.12-0.17)	0.32	(0.28-0.36)	0.47	(0.42-0.52)	1.27	(1.19-1.35)	0.55	(0.53-0.58)	0.31	(0.29-0.34)
Pituitary	0.03	(0.02-0.05)	0.11	(0.09-0.14)	0.31	(0.27-0.35)	1.14	(1.07-1.22)	0.40	(0.38-0.43)	0.15	(0.14-0.17)
Craniopharyngioma	0.11	(0.09-0.14)	0.21	(0.18-0.24)	0.16	(0.13-0.19)	0.13	(0.11-0.16)	0.15	(0.14-0.17)	0.16	(0.14-0.18)
<u>Local Extensions from Regional Tumors</u>	-	-	-	-	-	-	-	-	0.01	(0.00-0.01)	-	-
<u>Unclassified Tumors</u>	0.20	(0.17-0.24)	0.17	(0.15-0.21)	0.22	(0.19-0.26)	0.30	(0.26-0.34)	0.22	(0.21-0.24)	0.20	(0.18-0.22)
Hemangioma	0.04	(0.03-0.06)	0.03	(0.02-0.04)	0.06	(0.04-0.08)	0.09	(0.07-0.11)	0.05	(0.05-0.06)	0.04	(0.04-0.05)
Neoplasm, unspecified	0.15	(0.13-0.18)	0.14	(0.12-0.17)	0.15	(0.13-0.18)	0.21	(0.18-0.24)	0.16	(0.15-0.18)	0.15	(0.13-0.17)
TOTAL^b	5.25	(5.09-5.41)	4.45	(4.30-4.60)	4.41	(4.26-4.56)	5.28	(5.12-5.44)	4.84	(4.76-4.92)	4.69	(4.61-4.78)

^aRates are per 100,000 person years.

^bAge adjusted to the 2000 U.S. standard population.

^cRefers to all brain tumors including histologies not presented in this table.

-Counts are not presented when fewer than 16 cases were reported for the specific histology category. The suppressed cases are included in the counts for totals.

Abbreviations: CBTRUS, Central Brain Tumor Registry of the United States; NPCR, CDC's National Program of Cancer Registries; SEER, NCI's Surveillance, Epidemiology and End Results program; CI, confidence interval; NOS, not otherwise specified.