

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>	4.27	(4.10-4.44)	3.48	(3.32-3.64)	2.90	(2.77-3.04)	2.68	(2.55-2.81)	3.32	(3.25-3.40)	3.54	(3.45-3.63)
Pilocytic astrocytoma	0.90	(0.83-0.99)	0.89	(0.82-0.98)	0.83	(0.75-0.90)	0.60	(0.54-0.67)	0.80	(0.77-0.84)	0.87	(0.83-0.92)
Protoplasmic & fibrillary astrocytoma	0.03	(0.02-0.05)	0.05	(0.03-0.07)	0.06	(0.04-0.08)	0.04	(0.03-0.06)	0.04	(0.04-0.05)	0.05	(0.04-0.06)
Anaplastic astrocytoma	0.06	(0.04-0.08)	0.07	(0.05-0.09)	0.09	(0.07-0.12)	0.08	(0.06-0.10)	0.07	(0.06-0.08)	0.07	(0.06-0.08)
Unique astrocytoma variants	0.04	(0.03-0.06)	0.10	(0.08-0.13)	0.13	(0.10-0.16)	0.11	(0.09-0.14)	0.10	(0.08-0.11)	0.09	(0.08-0.11)
Astrocytoma, NOS	0.26	(0.22-0.30)	0.18	(0.15-0.22)	0.23	(0.19-0.27)	0.20	(0.17-0.24)	0.22	(0.20-0.24)	0.22	(0.20-0.24)
Glioblastoma	0.09	(0.06-0.11)	0.14	(0.11-0.17)	0.12	(0.09-0.15)	0.18	(0.15-0.22)	0.13	(0.12-0.15)	0.11	(0.10-0.13)
Oligodendroglioma	0.04	(0.02-0.06)	0.04	(0.03-0.06)	0.07	(0.05-0.09)	0.11	(0.08-0.14)	0.06	(0.05-0.08)	0.05	(0.04-0.06)
Anaplastic oligodendroglioma	-	-	-	-	-	-	-	-	0.02	(0.01-0.02)	0.01	(0.01-0.02)
Ependymoma/anaplastic ependymoma	0.42	(0.37-0.48)	0.24	(0.20-0.28)	0.16	(0.13-0.20)	0.19	(0.15-0.23)	0.25	(0.23-0.27)	0.27	(0.25-0.30)
Ependymoma variants	-	-	-	-	-	-	-	-	0.03	(0.03-0.04)	0.02	(0.02-0.03)
Mixed glioma	-	-	-	-	-	-	-	-	0.03	(0.03-0.04)	0.02	(0.02-0.03)
Glioma malignant, NOS	0.80	(0.73-0.88)	0.74	(0.67-0.81)	0.35	(0.31-0.41)	0.24	(0.20-0.28)	0.53	(0.50-0.56)	0.63	(0.59-0.67)
Choroid plexus	0.23	(0.20-0.28)	0.05	(0.03-0.07)	0.04	(0.03-0.06)	0.03	(0.02-0.05)	0.09	(0.08-0.10)	0.10	(0.09-0.12)
Neuroepithelial	-	-	-	-	-	-	-	-	0.01	(0.01-0.02)	0.01	(0.01-0.02)
Non-malignant and malignant neuronal/glia	0.39	(0.34-0.44)	0.31	(0.26-0.36)	0.41	(0.36-0.47)	0.48	(0.42-0.54)	0.40	(0.37-0.42)	0.37	(0.34-0.40)
Pineal parenchymal	-	-	-	-	-	-	-	-	0.04	(0.03-0.05)	0.04	(0.03-0.05)
Embryonal/primitive/medulloblastoma	0.95	(0.87-1.03)	0.56	(0.50-0.62)	0.30	(0.25-0.34)	0.20	(0.17-0.24)	0.49	(0.47-0.52)	0.59	(0.56-0.63)
<u>Tumors of Cranial and Spinal Nerves</u>	0.23	(0.19-0.27)	0.21	(0.17-0.25)	0.20	(0.17-0.24)	0.34	(0.30-0.40)	0.25	(0.23-0.27)	0.21	(0.19-0.24)
Nerve sheath, non-malignant and malignant	0.23	(0.19-0.27)	0.21	(0.17-0.25)	0.20	(0.17-0.24)	0.34	(0.30-0.40)	0.25	(0.23-0.27)	0.21	(0.19-0.24)
<u>Tumors of Meninges</u>	0.17	(0.14-0.21)	0.10	(0.07-0.13)	0.18	(0.14-0.21)	0.35	(0.30-0.40)	0.20	(0.18-0.22)	0.15	(0.13-0.17)
Meningioma	0.08	(0.06-0.11)	0.07	(0.05-0.09)	0.12	(0.09-0.15)	0.23	(0.19-0.27)	0.12	(0.11-0.14)	0.09	(0.08-0.11)
Other mesenchymal, non-malignant and malignant	0.08	(0.06-0.11)	0.03	(0.02-0.05)	0.03	(0.02-0.05)	0.05	(0.03-0.07)	0.05	(0.04-0.06)	0.05	(0.04-0.06)
Hemangioblastoma	-	-	-	-	-	-	-	-	0.03	(0.02-0.04)	0.01	(0.01-0.02)
<u>Lymphomas and Hemopoietic Neoplasms</u>	-	-	-	-	-	-	-	-	0.02	(0.02-0.03)	0.02	(0.01-0.03)
<u>Germ Cell Tumors and Cysts</u>	0.11	(0.08-0.14)	0.11	(0.08-0.14)	0.26	(0.22-0.31)	0.25	(0.22-0.30)	0.18	(0.17-0.20)	0.16	(0.14-0.18)
<u>Tumors of Sellar Region</u>	0.14	(0.11-0.17)	0.31	(0.26-0.36)	0.45	(0.40-0.51)	1.19	(1.10-1.28)	0.53	(0.50-0.56)	0.30	(0.28-0.33)
Pituitary	0.03	(0.02-0.05)	0.10	(0.08-0.13)	0.30	(0.25-0.34)	1.06	(0.98-1.15)	0.37	(0.35-0.40)	0.14	(0.13-0.16)
Craniopharyngioma	0.11	(0.09-0.14)	0.21	(0.17-0.25)	0.16	(0.13-0.19)	0.13	(0.10-0.16)	0.15	(0.14-0.17)	0.16	(0.14-0.18)
<u>Local Extensions from Regional Tumors</u>	-	-	-	-	-	-	-	-	-	-	-	-
<u>Unclassified Tumors</u>	0.19	(0.16-0.23)	0.16	(0.13-0.20)	0.20	(0.16-0.24)	0.27	(0.23-0.32)	0.21	(0.19-0.23)	0.18	(0.16-0.21)
Hemangioma	-	-	-	-	-	-	-	-	0.05	(0.04-0.06)	0.04	(0.03-0.05)
Neoplasm, unspecified	0.14	(0.12-0.18)	0.14	(0.11-0.17)	0.14	(0.11-0.18)	0.20	(0.17-0.24)	0.16	(0.14-0.17)	0.14	(0.12-0.16)
TOTAL^c	5.13	(4.95-5.32)	4.37	(4.20-4.55)	4.22	(4.06-4.39)	5.12	(4.94-5.31)	4.71	(4.62-4.79)	4.57	(4.46-4.67)

^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.