

Table 15: Primary (Malignant and Non-Malignant) Brain and CNS Tumor Incidence Rates^{a,b} By Major Histology Groupings, Histology, Race, and Hispanic Ethnicity^c, Age-Adjusted to the 2000 U.S. Standard Population
CBTRUS 2002-2006^d

Histology	Hispanics (Of Any Race)		White Hispanics		Non-Hispanics (Of Any Race)		White Non-Hispanics		Black Non-Hispanics	
	Adjusted Rate	95% C.I.	Adjusted Rate	95% C.I.	Adjusted Rate	95% C.I.	Adjusted Rate	95% C.I.	Adjusted Rate	95% C.I.
Tumors of Neuroepithelial Tissue	4.60	(4.42-4.78)	4.69	(4.50-4.89)	6.60	(6.52-6.68)	7.18	(7.08-7.27)	3.60	(3.43-3.78)
Pilocytic astrocytoma	0.21	(0.18-0.24)	0.21	(0.18-0.25)	0.36	(0.34-0.38)	0.41	(0.38-0.43)	0.21	(0.17-0.25)
Protoplasmic & fibrillary astrocytoma	0.06	(0.04-0.09)	0.07	(0.05-0.09)	0.11	(0.10-0.12)	0.13	(0.11-0.14)	0.03	(0.02-0.05)
Anaplastic astrocytoma	0.27	(0.22-0.31)	0.27	(0.23-0.32)	0.42	(0.40-0.45)	0.46	(0.44-0.49)	0.20	(0.16-0.24)
Unique astrocytoma variants	0.06	(0.04-0.08)	0.06	(0.05-0.09)	0.10	(0.09-0.11)	0.10	(0.09-0.11)	0.09	(0.07-0.12)
Astrocytoma, NOS	0.32	(0.28-0.37)	0.33	(0.28-0.38)	0.45	(0.43-0.47)	0.48	(0.46-0.51)	0.31	(0.26-0.36)
Glioblastoma	2.16	(2.03-2.30)	2.20	(2.06-2.35)	3.16	(3.11-3.22)	3.41	(3.35-3.47)	1.61	(1.49-1.74)
Oligodendroglioma	0.23	(0.20-0.27)	0.24	(0.20-0.28)	0.31	(0.29-0.33)	0.35	(0.33-0.37)	0.12	(0.09-0.16)
Anaplastic oligodendroglioma	0.10	(0.08-0.13)	0.10	(0.08-0.13)	0.15	(0.14-0.16)	0.16	(0.15-0.18)	0.08	(0.05-0.11)
Ependymoma/anaplastic ependymoma	0.21	(0.18-0.25)	0.21	(0.18-0.25)	0.28	(0.26-0.29)	0.30	(0.28-0.32)	0.15	(0.12-0.19)
Ependymoma variants	0.06	(0.04-0.08)	0.06	(0.04-0.08)	0.09	(0.08-0.10)	0.11	(0.10-0.12)	0.04	(0.03-0.07)
Mixed glioma	0.12	(0.10-0.16)	0.13	(0.10-0.16)	0.20	(0.19-0.21)	0.22	(0.21-0.24)	0.08	(0.06-0.11)
Glioma malignant, NOS	0.35	(0.31-0.41)	0.36	(0.31-0.41)	0.42	(0.40-0.44)	0.45	(0.42-0.47)	0.28	(0.23-0.33)
Choroid plexus	0.04	(0.03-0.05)	0.04	(0.03-0.06)	0.04	(0.04-0.05)	0.04	(0.04-0.05)	0.04	(0.02-0.06)
Neuroepithelial	-	-	-	-	0.02	(0.02-0.03)	0.02	(0.02-0.03)	-	-
Non-malignant and malignant neuronal/glia	0.18	(0.15-0.22)	0.18	(0.15-0.22)	0.28	(0.26-0.29)	0.30	(0.28-0.32)	0.19	(0.16-0.23)
Pineal parenchymal	0.02	(0.01-0.03)	0.02	(0.01-0.03)	0.03	(0.03-0.04)	0.03	(0.02-0.04)	0.05	(0.03-0.07)
Embryonal/primitive/medulloblastoma	0.20	(0.17-0.23)	0.20	(0.17-0.23)	0.19	(0.18-0.21)	0.21	(0.19-0.23)	0.12	(0.09-0.15)
Tumors of Cranial and Spinal Nerves	1.12	(1.03-1.21)	1.10	(1.01-1.20)	1.66	(1.62-1.70)	1.77	(1.73-1.82)	0.62	(0.55-0.70)
Nerve sheath, non-malignant and malignant	1.12	(1.03-1.21)	1.10	(1.01-1.20)	1.66	(1.62-1.70)	1.77	(1.73-1.82)	0.62	(0.55-0.70)
Tumors of Meninges	6.13	(5.90-6.37)	6.13	(5.89-6.38)	6.20	(6.12-6.28)	6.12	(6.04-6.21)	6.84	(6.58-7.10)
Meningioma	5.95	(5.72-6.19)	5.94	(5.71-6.19)	5.99	(5.91-6.06)	5.90	(5.82-5.98)	6.67	(6.42-6.93)
Other mesenchymal, non-malignant and malignant	0.06	(0.04-0.08)	0.06	(0.04-0.08)	0.07	(0.06-0.08)	0.07	(0.06-0.08)	0.06	(0.04-0.09)
Hemangioblastoma	0.12	(0.10-0.16)	0.12	(0.10-0.15)	0.15	(0.13-0.16)	0.15	(0.14-0.17)	0.11	(0.08-0.14)
Lymphomas and Hematopoietic Neoplasms	0.51	(0.45-0.58)	0.50	(0.44-0.57)	0.45	(0.43-0.47)	0.44	(0.42-0.46)	0.46	(0.40-0.52)
Lymphoma	0.51	(0.45-0.58)	0.50	(0.44-0.57)	0.45	(0.43-0.47)	0.44	(0.42-0.46)	0.46	(0.40-0.52)
Germ Cell Tumors and Cysts	0.08	(0.06-0.10)	0.08	(0.06-0.10)	0.07	(0.07-0.08)	0.08	(0.07-0.09)	0.05	(0.03-0.07)
Germ cell tumors, cysts and heterotopias	0.08	(0.06-0.10)	0.08	(0.06-0.10)	0.07	(0.07-0.08)	0.08	(0.07-0.09)	0.05	(0.03-0.07)
Tumors of Sellar Region	2.33	(2.21-2.46)	2.29	(2.16-2.43)	1.94	(1.90-1.99)	1.79	(1.75-1.84)	2.96	(2.80-3.13)
Pituitary	2.22	(2.09-2.35)	2.18	(2.05-2.31)	1.82	(1.78-1.86)	1.68	(1.63-1.72)	2.79	(2.64-2.96)
Craniopharyngioma	0.12	(0.09-0.14)	0.12	(0.09-0.14)	0.12	(0.11-0.13)	0.12	(0.11-0.13)	0.17	(0.13-0.21)
Local Extensions from Regional Tumors	-	-	-	-	0.02	(0.01-0.02)	0.02	(0.01-0.02)	-	-
Chordoma/chondrosarcoma	-	-	-	-	0.02	(0.01-0.02)	0.02	(0.01-0.02)	-	-
Unclassified Tumors	1.28	(1.17-1.39)	1.30	(1.19-1.41)	1.05	(1.01-1.08)	1.04	(1.00-1.07)	1.16	(1.06-1.27)
Hemangioma	0.13	(0.10-0.16)	0.13	(0.10-0.17)	0.14	(0.12-0.15)	0.14	(0.13-0.16)	0.10	(0.07-0.13)
Neoplasm, unspecified	1.13	(1.03-1.23)	1.15	(1.04-1.26)	0.90	(0.87-0.93)	0.88	(0.85-0.91)	1.06	(0.96-1.17)
All other	-	-	-	-	0.01	(0.01-0.02)	0.01	(0.01-0.02)	-	-
TOTAL^e	16.06	(15.70-16.42)	16.11	(15.74-16.49)	17.99	(17.86-18.12)	18.43	(18.29-18.58)	15.71	(15.33-16.09)

^aRates are per 100,000 person years.

^bPopulation data source: Estimates from the U.S. Bureau of the Census <http://seer.cancer.gov/popdata/index.html>

^cHispanic ethnicity is not mutually exclusive of race; Classified using the North American Association of Central Cancer Registries Hispanic Identification Algorithm, version 2 (NHIA v2).

^dData compiled from Arizona, Colorado, Connecticut, Delaware, Idaho, Maine, Massachusetts, Minnesota, Montana, New Mexico, New York, North Carolina, North Dakota, Rhode Island, South Dakota, Texas, Utah, and Virginia

^eRefers 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; CNS, central nervous system.