

**Table 13:
Primary (Malignant and Non-Malignant) Brain and CNS Tumor Incidence Rates^{a,b} by Major
Histology Groupings, Histology and Gender, Age-Adjusted to the 2000 U.S. Standard Population
CBTRUS 2002-2006^c**

Histology	Males		Females	
	Adjusted Rate	95% C.I.	Adjusted Rate	95% C.I.
<u>Tumors of Neuroepithelial Tissue</u>	7.75	(7.64-7.87)	5.41	(5.32-5.50)
Pilocytic astrocytoma	0.36	(0.34-0.39)	0.33	(0.30-0.35)
Protoplasmic & fibrillary astrocytoma	0.13	(0.11-0.14)	0.08	(0.07-0.10)
Anaplastic astrocytoma	0.50	(0.47-0.54)	0.33	(0.31-0.35)
Unique astrocytoma variants	0.11	(0.10-0.13)	0.08	(0.07-0.09)
Astrocytoma, NOS	0.50	(0.47-0.53)	0.39	(0.36-0.41)
Glioblastoma	3.96	(3.87-4.04)	2.41	(2.35-2.47)
Oligodendroglioma	0.34	(0.32-0.37)	0.27	(0.25-0.30)
Anaplastic oligodendroglioma	0.17	(0.15-0.19)	0.12	(0.11-0.14)
Ependymoma/anaplastic ependymoma	0.29	(0.27-0.32)	0.26	(0.24-0.29)
Ependymoma variants	0.11	(0.09-0.12)	0.08	(0.07-0.09)
Mixed glioma	0.24	(0.22-0.26)	0.16	(0.14-0.17)
Glioma malignant, NOS	0.44	(0.41-0.47)	0.40	(0.37-0.42)
Choroid plexus	0.04	(0.03-0.05)	0.05	(0.04-0.06)
Neuroepithelial	0.02	(0.02-0.03)	0.02	(0.01-0.03)
Non-malignant and malignant neuronal/glial	0.30	(0.28-0.32)	0.24	(0.22-0.26)
Pineal parenchymal	0.03	(0.02-0.03)	0.03	(0.03-0.04)
Embryonal/primitive/medulloblastoma	0.23	(0.21-0.25)	0.16	(0.15-0.18)
<u>Tumors of Cranial and Spinal Nerves</u>	1.68	(1.63-1.74)	1.64	(1.59-1.69)
Nerve sheath, non-malignant and malignant	1.68	(1.63-1.74)	1.64	(1.59-1.69)
<u>Tumors of Meninges</u>	3.84	(3.76-3.93)	8.57	(8.46-8.69)
Meningioma	3.61	(3.53-3.69)	8.36	(8.25-8.47)
Other mesenchymal, non-malignant and malignant	0.07	(0.06-0.08)	0.07	(0.06-0.08)
Hemangioblastoma	0.16	(0.15-0.18)	0.14	(0.13-0.16)
<u>Lymphomas and Hematopoietic Neoplasms</u>	0.56	(0.53-0.59)	0.39	(0.37-0.42)
Lymphoma	0.56	(0.53-0.59)	0.39	(0.37-0.42)
<u>Germ Cell Tumors and Cysts</u>	0.10	(0.09-0.12)	0.05	(0.04-0.06)
Germ cell tumors, cysts and heterotopias	0.10	(0.09-0.12)	0.05	(0.04-0.06)
<u>Tumors of Sellar Region</u>	2.01	(1.95-2.07)	2.19	(2.14-2.25)
Pituitary	1.89	(1.83-1.95)	2.07	(2.01-2.13)
Craniopharyngioma	0.13	(0.11-0.14)	0.13	(0.11-0.14)
<u>Local Extensions from Regional Tumors</u>	0.02	(0.02-0.03)	0.01	(0.01-0.02)
Chordoma/chondrosarcoma	0.02	(0.02-0.03)	0.01	(0.01-0.02)
<u>Unclassified Tumors</u>	1.14	(1.09-1.18)	1.08	(1.04-1.12)
Hemangioma	0.13	(0.11-0.14)	0.15	(0.13-0.16)
Neoplasm, unspecified	0.99	(0.95-1.04)	0.92	(0.89-0.96)
All other	0.02	(0.01-0.02)	0.01	(0.01-0.02)
TOTAL^d	17.11	(16.93-17.28)	19.36	(19.18-19.53)

^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>

^cData 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.

^dRefers 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; SEER, Surveillance, Epidemiology and End Results Program; CI, confidence interval; NOS, not otherwise specified; CNS, central nervous system.