

**Table 14:  
Primary (Malignant and Non-Malignant) Brain and CNS Tumor Incidence Rates<sup>a,b</sup> by Major  
Histology Groupings, Histology and Race, Age-Adjusted to the 2000 U.S. Standard Population  
CBTRUS 2002-2006<sup>c</sup>**

Histology	Whites		Blacks	
	Adjusted Rate	95% C.I.	Adjusted Rate	95% C.I.
<b><u>Tumors of Neuroepithelial Tissue</u></b>	<b>6.93</b>	<b>(6.85-7.02)</b>	<b>3.64</b>	<b>(3.47-3.81)</b>
Pilocytic astrocytoma	0.37	(0.35-0.39)	0.21	(0.18-0.25)
Protoplasmic & fibrillary astrocytoma	0.12	(0.11-0.13)	0.04	(0.02-0.06)
Anaplastic astrocytoma	0.44	(0.42-0.46)	0.20	(0.16-0.24)
Unique astrocytoma variants	0.10	(0.09-0.11)	0.09	(0.07-0.12)
Astrocytoma, NOS	0.46	(0.44-0.48)	0.29	(0.24-0.34)
Glioblastoma	3.33	(3.27-3.38)	1.65	(1.53-1.78)
Oligodendroglioma	0.34	(0.32-0.36)	0.13	(0.10-0.16)
Anaplastic oligodendroglioma	0.15	(0.14-0.17)	0.08	(0.06-0.11)
Ependymoma/anaplastic ependymoma	0.30	(0.28-0.31)	0.16	(0.13-0.20)
Ependymoma variants	0.10	(0.09-0.11)	0.04	(0.03-0.06)
Mixed glioma	0.21	(0.20-0.23)	0.08	(0.06-0.11)
Glioma malignant, NOS	0.44	(0.41-0.46)	0.29	(0.25-0.34)
Choroid plexus	0.04	(0.04-0.05)	0.04	(0.02-0.06)
Neuroepithelial	0.02	(0.02-0.03)	-	-
Non-malignant and malignant neuronal/glial	0.28	(0.27-0.30)	0.19	(0.15-0.23)
Pineal parenchymal	0.03	(0.02-0.03)	0.05	(0.03-0.07)
Embryonal/primitive/medulloblastoma	0.21	(0.20-0.22)	0.12	(0.09-0.14)
<b><u>Tumors of Cranial and Spinal Nerves</u></b>	<b>1.73</b>	<b>(1.69-1.77)</b>	<b>0.63</b>	<b>(0.57-0.71)</b>
Nerve sheath, non-malignant and malignant	1.73	(1.69-1.77)	0.63	(0.57-0.71)
<b><u>Tumors of Meninges</u></b>	<b>6.28</b>	<b>(6.20-6.36)</b>	<b>6.90</b>	<b>(6.65-7.15)</b>
Meningioma	6.05	(5.98-6.13)	6.72	(6.48-6.98)
Other mesenchymal, non-malignant and malignant	0.07	(0.06-0.08)	0.06	(0.04-0.09)
Hemangioblastoma	0.16	(0.14-0.17)	0.11	(0.09-0.14)
<b><u>Lymphomas and Hematopoietic Neoplasms</u></b>	<b>0.46</b>	<b>(0.44-0.49)</b>	<b>0.46</b>	<b>(0.40-0.52)</b>
Lymphoma	0.46	(0.44-0.49)	0.46	(0.40-0.52)
<b><u>Germ Cell Tumors and Cysts</u></b>	<b>0.08</b>	<b>(0.07-0.09)</b>	<b>0.05</b>	<b>(0.03-0.07)</b>
Germ cell tumors, cysts and heterotopias	0.08	(0.07-0.09)	0.05	(0.03-0.07)
<b><u>Tumors of Sellar Region</u></b>	<b>1.92</b>	<b>(1.88-1.97)</b>	<b>2.98</b>	<b>(2.82-3.14)</b>
Pituitary	1.80	(1.76-1.85)	2.80	(2.65-2.96)
Craniopharyngioma	0.12	(0.11-0.13)	0.17	(0.14-0.21)
<b><u>Local Extensions from Regional Tumors</u></b>	<b>0.02</b>	<b>(0.01-0.02)</b>	-	-
Chordoma/chondrosarcoma	0.02	(0.01-0.02)	-	-
<b><u>Unclassified Tumors</u></b>	<b>1.09</b>	<b>(1.06-1.12)</b>	<b>1.15</b>	<b>(1.05-1.25)</b>
Hemangioma	0.14	(0.13-0.16)	0.10	(0.07-0.13)
Neoplasm, unspecified	0.93	(0.90-0.96)	1.05	(0.95-1.15)
All other	0.02	(0.01-0.02)	-	-
<b>TOTAL<sup>d</sup></b>	<b>18.52</b>	<b>(18.38-18.65)</b>	<b>15.81</b>	<b>(15.44-16.19)</b>

<sup>a</sup>Rates are per 100,000 person years.

<sup>b</sup>Population data source: Estimates from the U.S. Bureau of the Census, <http://seer.cancer.gov/popdata/index.html>

<sup>c</sup>Data 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.

<sup>d</sup>Refers 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.