

**TABLES**

**TABLE 15: PRIMARY (MALIGNANT AND NON-MALIGNANT) BRAIN AND CENTRAL NERVOUS SYSTEM TUMOR INCIDENCE RATES<sup>a</sup> BY MAJOR HISTOLOGY GROUPINGS, HISTOLOGY, RACE, AND HISPANIC ETHNICITY, AGE-ADJUSTED TO THE 2000 U.S. STANDARD POPULATION, 2004<sup>b</sup>, CBTRUS SUPPLEMENT REPORT**

HISTOLOGY	HISPANICS (OF ANY RACE)		WHITE HISPANICS	
	ADJUSTED RATE	95% C.I.	ADJUSTED RATE	95% C.I.
<b><u>TUMORS OF NEUROEPITHELIAL TISSUE</u></b>	<b>4.85</b>	<b>(4.56-5.15)</b>	<b>4.89</b>	<b>(4.59-5.20)</b>
Pilocytic astrocytoma	0.22	(0.18-0.27)	0.22	(0.18-0.27)
Protoplasmic & fibrillary astrocytoma	0.06	(0.03-0.10)	0.07	(0.04-0.11)
Anaplastic astrocytoma	0.32	(0.25-0.40)	0.32	(0.25-0.41)
Unique astrocytoma variants	0.07	(0.04-0.11)	0.07	(0.04-0.10)
Astrocytoma, NOS	0.31	(0.24-0.39)	0.31	(0.24-0.40)
Glioblastoma	2.34	(2.12-2.58)	2.40	(2.17-2.65)
Oligodendroglioma	0.22	(0.17-0.29)	0.23	(0.17-0.30)
Anaplastic oligodendroglioma	0.13	(0.09-0.18)	0.13	(0.09-0.19)
Ependymoma/anaplastic ependymoma	0.22	(0.17-0.27)	0.22	(0.17-0.28)
Ependymoma variants	0.07	(0.04-0.10)	0.07	(0.04-0.11)
Mixed glioma	0.14	(0.10-0.19)	0.13	(0.10-0.18)
Glioma malignant, NOS	0.32	(0.26-0.40)	0.31	(0.24-0.38)
Choroid plexus	0.04	(0.02-0.07)	0.04	(0.02-0.07)
Neuroepithelial	-	-	-	-
Non-malignant and malignant neuronal/glial, neuronal and mixed	0.15	(0.11-0.20)	0.15	(0.11-0.19)
Pineal parenchymal	-	-	-	-
Embryonal/primitive/medulloblastoma	0.22	(0.18-0.27)	0.22	(0.17-0.27)
<b><u>TUMORS OF CRANIAL AND SPINAL NERVES</u></b>	<b>1.05</b>	<b>(0.92-1.20)</b>	<b>1.02</b>	<b>(0.89-1.17)</b>
Nerve sheath, non-malignant and malignant	1.05	(0.92-1.20)	1.02	(0.89-1.17)
<b><u>TUMORS OF MENINGES</u></b>	<b>5.82</b>	<b>(5.47-6.19)</b>	<b>5.79</b>	<b>(5.43-6.18)</b>
Meningioma	5.63	(5.28-5.99)	5.60	(5.24-5.98)
Other mesenchymal, non-malignant and malignant	0.08	(0.05-0.12)	0.08	(0.05-0.12)
Hemangioblastoma	0.11	(0.08-0.17)	0.11	(0.07-0.17)
<b><u>LYMPHOMAS AND HEMOPOIETIC NEOPLASMS</u></b>	<b>0.52</b>	<b>(0.42-0.63)</b>	<b>0.50</b>	<b>(0.40-0.61)</b>
Lymphoma	0.52	(0.42-0.63)	0.50	(0.40-0.61)
<b><u>GERM CELL TUMORS</u></b>	<b>0.08</b>	<b>(0.06-0.12)</b>	<b>0.08</b>	<b>(0.06-0.12)</b>
Germ cell tumors, cysts, and heterotopias	0.08	(0.06-0.12)	0.08	(0.06-0.12)
<b><u>TUMORS OF SELLAR REGION</u></b>	<b>2.43</b>	<b>(2.23-2.64)</b>	<b>2.44</b>	<b>(2.24-2.66)</b>
Pituitary	2.31	(2.12-2.52)	2.33	(2.13-2.55)
Craniopharyngioma	0.12	(0.08-0.16)	0.11	(0.07-0.16)
<b><u>LOCAL EXTENSIONS FROM REGIONAL TUMORS</u></b>	-	-	-	-
Chordoma/chondrosarcoma	-	-	-	-
<b><u>UNCLASSIFIED TUMORS</u></b>	<b>1.05</b>	<b>(0.91-1.21)</b>	<b>1.08</b>	<b>(0.92-1.25)</b>
Hemangioma	0.13	(0.09-0.19)	0.13	(0.09-0.19)
Neoplasm, unspecified	0.92	(0.78-1.08)	0.94	(0.80-1.11)
All other	-	-	-	-
<b>TOTAL<sup>d</sup></b>	<b>15.98</b>	<b>(15.43-16.55)</b>	<b>15.83</b>	<b>(15.26-16.41)</b>

**TABLE 15 (CONTINUED)**

HISTOLOGY	NON-HISPANICS <sup>a</sup> (OF ANY RACE)		WHITE NON-HISPANICS		BLACK NON-HISPANICS	
	ADJUSTED RATE	95% C.I.	ADJUSTED RATE	95% C.I.	ADJUSTED RATE	95% C.I.
<b><u>TUMORS OF NEUROEPITHELIAL TISSUE</u></b>	<b>6.07</b>	<b>(5.97-6.17)</b>	<b>6.57</b>	<b>(6.45-6.69)</b>	<b>3.34</b>	<b>(3.12-3.57)</b>
Pilocytic astrocytoma	0.31	(0.29-0.34)	0.34	(0.31-0.37)	0.21	(0.16-0.26)
Protoplasmic & fibrillary astrocytoma	0.10	(0.09-0.11)	0.11	(0.10-0.13)	0.06	(0.03-0.10)
Anaplastic astrocytoma	0.40	(0.37-0.42)	0.43	(0.40-0.46)	0.18	(0.14-0.24)
Unique astrocytoma variants	0.08	(0.07-0.09)	0.08	(0.07-0.10)	0.06	(0.04-0.10)
Astrocytoma, NOS	0.42	(0.39-0.45)	0.46	(0.43-0.49)	0.28	(0.22-0.35)
Glioblastoma	3.02	(2.95-3.09)	3.28	(3.20-3.36)	1.44	(1.29-1.60)
Oligodendroglioma	0.27	(0.25-0.29)	0.30	(0.27-0.33)	0.12	(0.08-0.16)
Anaplastic oligodendroglioma	0.12	(0.11-0.13)	0.13	(0.12-0.15)	-	-
Ependymoma/anaplastic ependymoma	0.24	(0.22-0.26)	0.25	(0.22-0.27)	0.17	(0.13-0.22)
Ependymoma variants	0.09	(0.07-0.10)	0.10	(0.09-0.12)	-	-
Mixed glioma	0.15	(0.14-0.17)	0.17	(0.15-0.19)	0.07	(0.04-0.11)
Glioma malignant, NOS	0.37	(0.35-0.40)	0.38	(0.35-0.41)	0.29	(0.23-0.37)
Choroid plexus	0.04	(0.03-0.04)	0.03	(0.02-0.04)	0.05	(0.03-0.08)
Neuroepithelial	0.02	(0.02-0.03)	0.02	(0.02-0.03)	-	-
Non-malignant and malignant neuronal/gliol, neuronal and mixed	0.21	(0.19-0.23)	0.23	(0.20-0.25)	0.15	(0.11-0.20)
Pineal parenchymal	0.03	(0.02-0.04)	0.03	(0.02-0.03)	0.05	(0.03-0.08)
Embryonal/primitive/medulloblastoma	0.22	(0.20-0.24)	0.24	(0.21-0.26)	0.16	(0.12-0.21)
<b><u>TUMORS OF CRANIAL AND SPINAL NERVES</u></b>	<b>1.45</b>	<b>(1.40-1.50)</b>	<b>1.53</b>	<b>(1.47-1.58)</b>	<b>0.55</b>	<b>(0.46-0.64)</b>
Nerve sheath, non-malignant and malignant	1.45	(1.40-1.50)	1.53	(1.47-1.58)	0.55	(0.46-0.64)
<b><u>TUMORS OF MENINGES</u></b>	<b>5.24</b>	<b>(5.14-5.33)</b>	<b>5.08</b>	<b>(4.98-5.18)</b>	<b>5.96</b>	<b>(5.65-6.29)</b>
Meningioma	5.03	(4.94-5.12)	4.86	(4.77-4.96)	5.81	(5.51-6.13)
Other mesenchymal, non-malignant and malignant	0.06	(0.05-0.08)	0.07	(0.06-0.08)	-	-
Hemangioblastoma	0.15	(0.13-0.16)	0.15	(0.13-0.17)	0.11	(0.07-0.16)
<b><u>LYMPHOMAS AND HEMOPOIETIC NEOPLASMS</u></b>	<b>0.39</b>	<b>(0.37-0.42)</b>	<b>0.38</b>	<b>(0.35-0.41)</b>	<b>0.43</b>	<b>(0.36-0.52)</b>
Lymphoma	0.39	(0.37-0.42)	0.38	(0.35-0.41)	0.43	(0.36-0.52)
<b><u>GERM CELL TUMORS</u></b>	<b>0.07</b>	<b>(0.06-0.09)</b>	<b>0.08</b>	<b>(0.06-0.09)</b>	-	-
Germ cell tumors, cysts, and heterotopias	0.07	(0.06-0.09)	0.08	(0.06-0.09)	-	-
<b><u>TUMORS OF SELLAR REGION</u></b>	<b>1.91</b>	<b>(1.86-1.97)</b>	<b>1.74</b>	<b>(1.68-1.80)</b>	<b>3.00</b>	<b>(2.79-3.22)</b>
Pituitary	1.78	(1.73-1.84)	1.62	(1.56-1.68)	2.83	(2.63-3.05)
Craniopharyngioma	0.13	(0.12-0.15)	0.12	(0.11-0.14)	0.17	(0.12-0.23)
<b><u>LOCAL EXTENSIONS FROM REGIONAL TUMORS</u></b>	<b>0.02</b>	<b>(0.01-0.02)</b>	<b>0.02</b>	<b>(0.01-0.03)</b>	-	-
Chordoma/chondrosarcoma	0.02	(0.01-0.02)	0.02	(0.01-0.03)	-	-
<b><u>UNCLASSIFIED TUMORS</u></b>	<b>0.87</b>	<b>(0.83-0.91)</b>	<b>0.83</b>	<b>(0.79-0.87)</b>	<b>1.07</b>	<b>(0.94-1.21)</b>
Hemangioma	0.12	(0.10-0.13)	0.12	(0.10-0.13)	0.10	(0.06-0.14)
Neoplasm, unspecified	0.74	(0.71-0.78)	0.71	(0.67-0.74)	0.96	(0.84-1.10)
All other	0.01	(0.00-0.01)	-	-	-	-
<b>TOTAL<sup>d</sup></b>	<b>16.84</b>	<b>(16.67-17.01)</b>	<b>16.21</b>	<b>(16.03-16.40)</b>	<b>14.39</b>	<b>(13.92-14.87)</b>

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

<sup>b</sup>Includes data from 43 of the 45 registries listed in Table 9; Kentucky, and Pennsylvania are excluded.

<sup>c</sup>Hispanic is not mutually exclusive of race.

<sup>d</sup>Refers to all brain tumors including histologies not presented in this table.

- Rates are not presented when fewer than 16 cases were reported for the specific histology category. The suppressed cases are included in the counts and rates for Totals.

Abbreviations: CBTRUS, Central Brain Tumor Registry of the United States; CI, confidence interval; NOS, not otherwise specified.