

Table 13: Primary (Malignant and Non-Malignant) Brain and Central Nervous System Tumor Incidence Rates^a by Major Histology Groupings, Histology and Gender, Age-Adjusted to the 2000 U.S. Standard Population; CBTRUS Statistical Report: NPCR and SEER, 2004-2006

| Histology | Males | | Females | |
|---|---------------|----------------------|---------------|----------------------|
| | Adjusted Rate | 95% C.I. | Adjusted Rate | 95% C.I. |
| <u>Tumors of Neuroepithelial Tissue</u> | 7.64 | (7.55-7.72) | 5.46 | (5.39-5.53) |
| Pilocytic astrocytoma | 0.34 | (0.32-0.35) | 0.32 | (0.30-0.33) |
| Protoplasmic & fibrillary astrocytoma | 0.13 | (0.12-0.14) | 0.08 | (0.07-0.09) |
| Anaplastic astrocytoma | 0.48 | (0.46-0.50) | 0.34 | (0.32-0.36) |
| Unique astrocytoma variants | 0.12 | (0.11-0.13) | 0.07 | (0.06-0.08) |
| Astrocytoma, NOS | 0.50 | (0.48-0.52) | 0.40 | (0.38-0.42) |
| Glioblastoma | 3.97 | (3.91-4.03) | 2.51 | (2.46-2.55) |
| Oligodendroglioma | 0.31 | (0.29-0.33) | 0.24 | (0.22-0.25) |
| Anaplastic oligodendroglioma | 0.14 | (0.13-0.15) | 0.11 | (0.10-0.12) |
| Ependymoma/anaplastic ependymoma | 0.26 | (0.25-0.28) | 0.25 | (0.24-0.27) |
| Ependymoma variants | 0.11 | (0.10-0.12) | 0.08 | (0.07-0.09) |
| Mixed glioma | 0.22 | (0.21-0.24) | 0.16 | (0.14-0.17) |
| Glioma malignant, NOS | 0.46 | (0.44-0.48) | 0.40 | (0.38-0.42) |
| Choroid plexus | 0.05 | (0.04-0.05) | 0.04 | (0.04-0.05) |
| Neuroepithelial | 0.02 | (0.02-0.03) | 0.02 | (0.02-0.02) |
| Non-malignant and malignant neuronal/glia | 0.30 | (0.28-0.32) | 0.25 | (0.24-0.27) |
| Pineal parenchymal | 0.03 | (0.03-0.04) | 0.04 | (0.03-0.04) |
| Embryonal/primitive/medulloblastoma | 0.22 | (0.20-0.23) | 0.17 | (0.16-0.18) |
| <u>Tumors of Cranial and Spinal Nerves</u> | 1.63 | (1.59-1.67) | 1.60 | (1.57-1.64) |
| Nerve sheath, non-malignant and malignant | 1.63 | (1.59-1.67) | 1.60 | (1.57-1.64) |
| <u>Tumors of Meninges</u> | 4.02 | (3.96-4.09) | 8.65 | (8.57-8.74) |
| Meningioma | 3.76 | (3.70-3.83) | 8.44 | (8.35-8.52) |
| Other mesenchymal, non-malignant and malignant | 0.08 | (0.07-0.09) | 0.07 | (0.07-0.08) |
| Hemangioblastoma | 0.18 | (0.17-0.19) | 0.14 | (0.13-0.15) |
| <u>Lymphomas and Hematopoietic Neoplasms</u> | 0.54 | (0.52-0.56) | 0.39 | (0.37-0.41) |
| Lymphoma | 0.54 | (0.52-0.56) | 0.39 | (0.37-0.41) |
| <u>Germ Cell Tumors and Cysts</u> | 0.11 | (0.10-0.12) | 0.05 | (0.04-0.06) |
| Germ cell tumors, cysts and heterotopias | 0.11 | (0.10-0.12) | 0.05 | (0.04-0.06) |
| <u>Tumors of Sellar Region</u> | 2.45 | (2.40-2.50) | 2.69 | (2.65-2.74) |
| Pituitary | 2.31 | (2.26-2.35) | 2.56 | (2.51-2.61) |
| Craniopharyngioma | 0.14 | (0.13-0.16) | 0.14 | (0.13-0.15) |
| <u>Local Extensions from Regional Tumors</u> | 0.02 | (0.02-0.03) | 0.02 | (0.01-0.02) |
| Chordoma/chondrosarcoma | 0.02 | (0.02-0.03) | 0.02 | (0.01-0.02) |
| <u>Unclassified Tumors</u> | 1.04 | (1.01-1.07) | 1.02 | (0.99-1.05) |
| Hemangioma | 0.12 | (0.11-0.13) | 0.16 | (0.14-0.17) |
| Neoplasm, unspecified | 0.91 | (0.88-0.94) | 0.86 | (0.83-0.88) |
| All other | 0.01 | (0.01-0.02) | 0.01 | (0.01-0.01) |
| TOTAL^b | 17.44 | (17.31-17.58) | 19.88 | (19.75-20.01) |

^aRates are per 100,000 person years

^bRefers to all brain tumors including histologies not presented in this table.

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.